



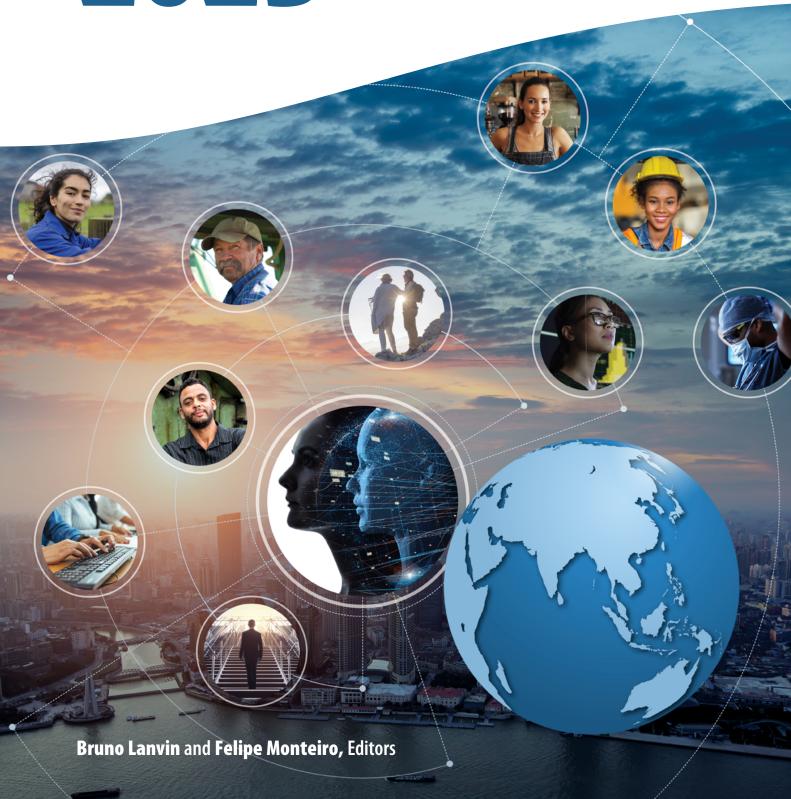


# **SPECIAL TENTH ANNIVERSARY EDITION**

# The Global Talent Competitiveness Index

2023

What a Difference Ten Years Make What to Expect for the Next Decade









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**Bruno Lanvin Felipe Monteiro**Editors

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# **Contents**

Preface	V
Bruno Lanvin, Co-Founder and Director, Descartes Institute for the Future; INSEAD Distinguished Fellow	
Felipe Monteiro, Academic Director of the Global Talent Competitiveness Index; Senior Affiliate Professor of Strategy, INSEAD	
Human Capital Leadership Institute   Foreword	vii
Kevyn Yong, Chief Learning Officer, Human Capital Leadership Institute	****
INSEAD & Descartes Institute for the Future GTCI Team	ix
CHAPTERS	
Chapter 1: A Special Introduction: What a Difference Ten Years Make and What to Expect for the Next Decade Bruno Lanvin, Descartes Institute for the Future and INSEAD; Felipe Monteiro, INSEAD; and Michael Bratt, Descartes Institute for the Future	3
Chapter 2: Global Talent Competition Against the Background of Continuing Uncertainties	13
Statistical Annex to Chapter 2	27
Chapter 3: JRC Statistical Audit of the Global Talent Competitiveness Index 2023	45
COUNTRY PROFILES	
How to Read the Country Profiles	63
Index of Countries	65
Country Profiles	67
DATA TABLES	
How to Read the Data Tables	203
Index of Data Tables	205
Data Tables	207
APPENDICES	
Appendix I: Technical Notes	287
Appendix II: Sources and Definitions	289
Appendix III: About the Contributors and Partners	299

# **Preface**

#### **TEN YEARS AND COUNTING**

This edition of GTCI marks the report's tenth anniversary. It all started with a conversation between Bruno Lanvin, then Executive Director of eLab at INSEAD, and H.E. Tharman Shanmugaratnam, Minister of Manpower of Singapore, who had come to the local INSEAD campus for the launch of Global Innovation Index (GII) 2012. A year later, the first edition of GTCI came out. Ten years after that, Dr Shanmugaratnam was elected President of Singapore—and GTCI has established itself as a global reference on the Talent Competitiveness stage.

This has been an exciting and eventful decade for the global talent scene (and beyond). Following the initial impetus and support from the Human Capital Leadership Institute (HCLI) in Singapore, the business sector and global employers stepped up to the plate. The report has benefited from support and contributions from some of the key players on the field of job creation and talent strategies, such as Adecco, TCS, and Google. More recently, HCLI has returned as a GTCI sponsor and knowledge

Thanks are also due to INSEAD, in particular Professor Paul Evans, the founding academic director, and Deans Ilian Mihov and Peter Zemsky, who lent their support to the project. INSEAD put together a vibrant team of researchers and staff—with special thanks to Christine Hirzel—who contributed to a model that has proved robust and pertinent, as confirmed by the annual audit by the European Commission's Joint Research Centre (JRC). They have also contributed to the global visibility of the GTCI.

This year's report opens with a Special Introduction, which takes a look back at the themes and key messages produced during these intense first ten years, and underscores their continuing relevance over time. The special introduction also includes six prospective messages on what the next decade of talent competitiveness might look like.

By and large, the GTCI has been at the leading edge of benchmarking and analytical thinking on labour markets, work organisation, and talent flows. The data accumulated during that process now constitute a significant and valuable resource that

will allow more innovative and action-oriented analyses and

As co-editors of this ten-year edition of the GTCI Report, we know how much we owe to all those who invested their time, energy and resources to make the GTCI a stable and visible product of excellence, in particular our founding Advisory Board. As well as those already mentioned, we want to highlight the valuable support and encouragements received from (in alphabetical order) Thierry Breton, first as CEO of Atos, then as European Commissioner for Internal Market; Peter Capelli, George W. Taylor Professor of Management at The Wharton School and Director of Wharton's Center for Human Resources; Alain Dehaze, CEO of Adecco from 2015 to 2023; Vinod Kumar, CEO and Managing Director of Tata Communications from 2011 to 2019; Jacqueline Poh, currently Managing Director of Singapore's Economic Development Board; and Nicolas Schmit, first as Luxembourg's Minister of Labour, then as European Commissioner for Jobs and Social Rights.

This is therefore a time for celebration and thanks, when pride is mixed with anticipation and excitement for future editions of the GTCI.

**Bruno Lanvin** 

Founder and President, Descartes Institute for the Future; INSEAD Distinguished Fellow



Felipe Monteiro

Academic Director of the Global Talent Competitiveness Index; Senior Affiliate Professor of Strategy, INSEAD

# Human Capital Leadership Institute | Foreword

Over the past ten years, the Human Capital Leadership Institute (HCLI) has gained countless insights from collaborating on the Global Talent Competitiveness Index (GTCI). Our thanks to collaborators who have worked tirelessly on the GTCI over the past decade, especially INSEAD, who have committed to developing one of the very best indices of its kind—if not the very best!

Reflecting on this insightful body of work, three themes stand out.

First, the GTCI has kept pace with the implications of technology innovation for human capital. For instance, the 2015 GTCI report statement that "low-skilled workers continue to be replaced by robots, while knowledge workers are displaced by algorithms" is consistent with automation across factories and office tasks, as well as the advent of generative Al.

At first glance, it often seems that technology innovations will destroy jobs. When automated teller machines (ATMs) were introduced to the US in 1969, it was claimed that they would lead to unemployment. In fact, the number of bank tellers went from approximately 300,000 to around 500,000 by 1980. ATMs had contributed to job creation, as human tellers were freed up to provide more complex banking services. Similarly, e-mail was predicted to be a job-destroyer, and although it did disrupt traditional post and parcel services, some, if not most, postal companies found a way to pivot their business models to support the growth in ecommerce.

At HCLI, we see technology innovations as opportunities to rethink and redesign our approach to human capital to create

Second, our work on the GTCI has almost always been forward thinking. For example, the GTCI anticipated the uneven war for talent from the very beginning. This resonates with our work on 'future foresight,' and our advocacy that future foresight is less about how accurately we predict the future, and more about how we think of multiple possible futures so we can be ready to adapt or respond to expected—and unexpected—challenges.

Thanks to its comprehensive data and its thoughtful analysis, the GTCl is an exemplary tool for those developing future foresights from the ever-evolving trends in human capital. Consider Welcome to the Post-Industrial Age, a 2023 analysis of the global shortage of talent caused by declining birth rates in the postindustrial age from the Josh Bersin Academy. It makes clear that the GTCI was uniquely positioned to inform the report's recommendation, that of shifting to a new model of work characterised by organisational dynamism, human-centred leadership, and HR as a consulting and product organisation. The report shows how designing work around jobs and functional areas to create and deliver value is fast becoming obsolete. Instead, systemic HR can design and organise companies around people and skills, optimising output through projects, initiatives, and services to create new value.

Finally, and perhaps most importantly, the GTCI is designed with a call to action. The GTCI defines talent competitiveness as the set of policies and practices that enable a country to develop, attract, and empower the human capital that contributes to productivity and prosperity. Hence its assessment of what countries do to produce and acquire talent (input) and what they do to build the workforce's skills and capabilities to achieve the desired socio-economic outcomes (output.)

This special tenth-anniversary edition of the GTCI also presents several critical trends for the future that particularly resonate with HCLI's work: talent inequalities between individual countries remain high; talent inequalities within countries are stubbornly persistent; and growing uncertainties hamper brain circulation. In particular, our work on ecosystem collaborations can inform or address the problem of talent inequalities around the world (see 2020's Ecosystem Edge: Sustaining Competitiveness in the Face of Disruption by Arnoud De Meyer and Peter

For instance, the wide range of experiences and challenges regarding talent competitiveness across Southeastern Asia (Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand, and Viet Nam) suggest that a collaborative ecosystem approach could be designed to uplift talent competitiveness across the region. Founded on learning from each other to create inclusivity and accessibility it could raise productivity and prosperity for all countries. Similarly, our work on developing Asian-origin leaders for global leadership positions, such as our Singapore Leaders Network (SGLN) Fellowship, can inform or address the challenges associated with brain circulation, at least with respect to the Southeastern Asian ecosystem.

The tenth anniversary of the GTCI report is a timely reminder that the challenge of talent competitiveness is really a challenge for humanity. Talent competitiveness is defined as a set of policies and practices for enabling individual countries—but how might we re-imagine the challenges of talent competitiveness if we define it as the set of policies and practices that enable humanity? To this end, HCLI is proud and deeply grateful for our collaboration with INSEAD and the Descartes Institute for the Future—and looks forward to our collective call to action in disrupting the future of human capital.

#### **Kevyn Yong**

Chief Learning Officer Human Capital Leadership Institute

# **INSEAD & Descartes Institute for the Future GTCI Team**

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## **Bruno Lanvin**

Founder and President, Descartes Institute for the Future, and INSEAD Distinguished Fellow

## **Felipe Monteiro**

Academic Director of the Global Talent Competitiveness Index; Senior Affiliate Professor of Strategy, INSEAD

#### **Michael Bratt**

Lead Researcher, Descartes Institute for the Future

#### **Anna Henry**

Senior Project Manager, Descartes Institute for the Future

# **Editing Team**

#### **Kenneth Benson**

Graphic Designer, Pegasus Type

# **Sarah Carrington**

Copy Editor, Number Forty Two

# Chapters

# CHAPTER 1: A Special Introduction

# What a Difference Ten Years Make and What to Expect for the Next Decade

Bruno Lanvin, Felipe Monteiro, and Michael Bratt

For the past ten years, GTCI has continued to collect data and improve its model to track various aspects of talent competitiveness. Over the decade, it has been organised around annual themes with every edition generating its own set of key messages.

#### TEN YEARS OF FORWARD LOOKING THEMES

Since 2013, GTCI has addressed a variety of topics that include: Growing Talent for Today and Tomorrow (2014); Talent Attraction and International Mobility (2015); and Talent and Technology (2017). Switching gears in 2018, the report turned to Diversity for Competitiveness, followed by Entrepreneurial Talent and Global Competitiveness in 2019, and Global Talent in the Age of Artificial Intelligence in 2020. In 2021, the focus shifted once more, this time

to Talent Competitiveness in Times of COVID, and last year's edition entitled The Tectonics of Talent: Is the World Drifting Towards *Increased Talent Inequalities?* 

Looking back at those topics, themes, and messages, we can say with some confidence that the GTCl got it right more often than not and, in fact, was often ahead of the curve.

Bruno Lanvin is the Founder and President of Descartes Institute for the Future, and an INSEAD Distinguished Fellow. Felipe Monteiro is Senior Affiliate Professor of Strategy at INSEAD. Michael Bratt is Lead Researcher at Descartes Institute for the Future. For this tenth anniversary edition, GTCI offers a detailed introduction that looks back at the past ten years of GTCI reports and proposes some key predictions about how the global talent scene might continue to evolve over the coming decade.

#### TEN YEARS OF POWERFUL KEY MESSAGES

Some of the key messages that emerged during this decade of analysis appeared repeatedly, as they raised issues that were both urgent and unresolved. This was true particularly for the theme of inequalities. In the very first edition of the report, the first key message was: "The global war for talent is on, and it is an uneven one." Since then, GTCI reports have emphasised that "Talent inequalities are broadening" (2019); "The gap between talent champions (almost all of them high-income countries) and the rest of the world is widening" (2020); and "Recent and current crises could have a negative and sometimes irreversible impact on the talent situation of poorer economies" (2022). Other key messages in 2022 included the statement that "Even in higher-income economies, labour markets may become more fragmented and hence generate new types of inequalities"; and "A more unequal global talent landscape would significantly diminish our collective ability to meet some key targets of the SDGs."

Another recurring theme in the first ten years of the GTCI is that of technological change and how its acceleration is

critical to labour markets and even to the definition of work itself. In 2014, GTCI stressed that technological changes will affect new segments of the labour market, implying changes in the required profile of employable skills. In its next edition, the GTCI warned that low-skilled workers continue to be replaced by robots, while knowledge workers are displaced by algorithms. In 2017, a key message was that technology is changing the nature of work, and in 2020's issue devoted to Global Talent in the Age of Artificial Intelligence, "the emergence of AI in the workplace requires a massive re-skilling of the workforce" was a key message.

The GTCI has also played a pioneering role in exploring the ways in which talent strategies matter at the local level, in particular at the city level. The establishment of a specific Global City Talent Competitiveness Index (GCTCI) has created its own invaluable data resource. This has led to useful insights into imaginative talent initiatives that could be developed and implemented at a sub-national level to create jobs and foster competitiveness.

#### TEN YEARS OF DATA YIELDING UNIQUE TIME SERIES

The data accumulated by GTCI over the past decade constitute a unique resource that provides opportunities for plenty of further analyses. Based on the approaches taken in the ten years since GTCI's inception, it is possible to identify several important signals regarding changes to both the global and local scenes of talent competition.

GTCI data point to at least six major trends in line with the key messages highlighted above:

- Talent inequalities between individual countries remain
- Talent inequalities within countries are stubbornly per-
- COVID has profoundly altered the global talent landscape
- Cities and regions play increasingly important roles in talent initiatives
- Growing uncertainties hamper brain circulation
- New generations are reshaping the world of work

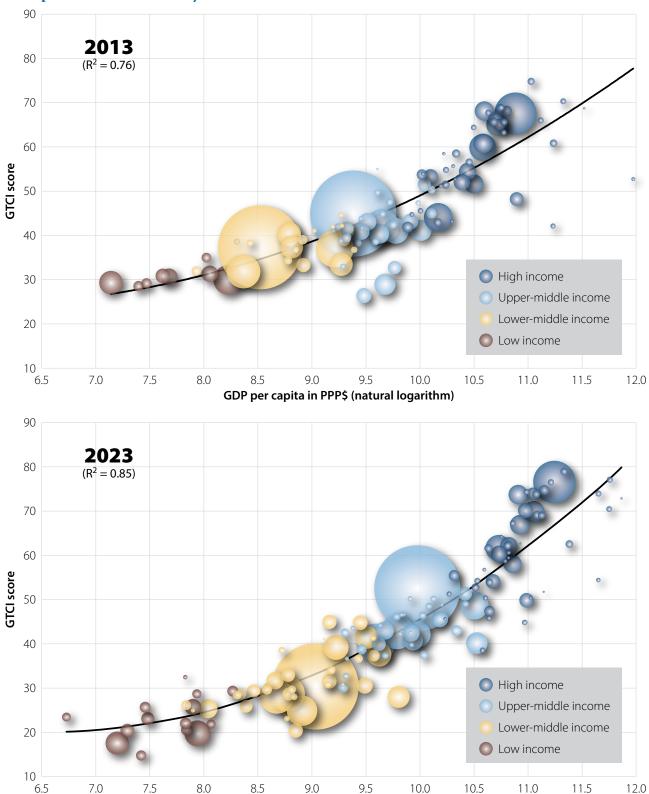
#### 1. Talent inequalities between individual countries remain high

One of the most frequently highlighted findings from GTCI analyses is that the global landscape for talent competitiveness is and remains—fraught with inequalities. In other words, poorer economies do not perform as well on the talent scene as other, richer economies. This has been illustrated annually by GTCI's famous scatter plot, which shows the strength of the relationship between income per capita and GTCI scores. Comparing the 2023 and the 2013 versions, creates a striking visual image of how strong that correlation has remained (see Figure 1).

Despite the significant progress of the demographic powerhouses, India and China, up the talent ladder, and India's

successful efforts to close the gap between its economy and that of China, the wealth/talent correlation remains strong. GTCl data from the past ten years show that it has even increased: the correlation coefficient between GDP per capita and GTCI score has grown from 0.76 in 2013 to 0.85 in 2023. In Figure 1, this can be seen in the clearer separation of income groups along the talent competitiveness ladder. Note that, although there were clear overlaps between such groups in 2013, there are almost none in 2023

Figure 1 Talent performance remains closely linked to income level



GDP per capita in PPP\$ (natural logarithm)

## 2. Talent inequalities within countries are also stubbornly persistent

As new data became available at a global level, GTCl gave continuous and prominent attention to the gender component of talent inequalities. Altogether, GTCl data from the past ten years have shown significant progress in legal and regulatory environments as an increasing number of countries have committed to reduce gender gaps in labour markets. However, such efforts remain insufficient and need to be accelerated.

In large parts of the world, women are paid less than men at comparable levels of training and qualifications. They also have fewer career development opportunities and less access to higher levels of responsibility. In many emerging and poorer economies, the gender divide is stronger still, with girls having fewer opportunities to attend school, not to mention higher education. GTCl also described and highlighted how COVID

strengthened such inequalities, making them irreversible in some cases. These trends can be seen in GTCl's data on gender parity in high-skilled jobs (see Figure 2).

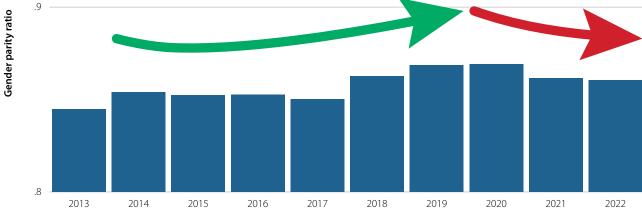
GTCI 2022, which introduced additional data about gender divides, also emphasised how possible options for a post-COVID recovery could, in fact, increase domestic inequalities among various categories of workers. The rapid expansion of new working practices, such as online collaboration, alongside the accelerating adoption of AI in various industries will undoubtedly have an impact on some of the fundamental parameters of the jobs/skills equation. Unqualified or low-qualified labour will bear much of the additional pressure, while new categories of workers, some with higher skills, will suffer from stronger competition from algorithms and specialised equipment.

Figure 2

Slight progress in talent gender equality thwarted by COVID

Perfect equality

1.0



Source: ILO, but computation is our own.

Note: Gender parity in high-skilled jobs, 2013–2022 (y axis shows the ratio, where 1 signifies perfect equality).

# 3. COVID has profoundly altered the global talent landscape

The COVID years (2020–22) presented a challenge to both national and organisational talent strategies, which had to adapt to a dramatically changed environment in education, work, and social activity. Significant levels of public debt were accumulated in the process, as stop-gap and emergency measures were adopted to prevent a collapse in employment and output.

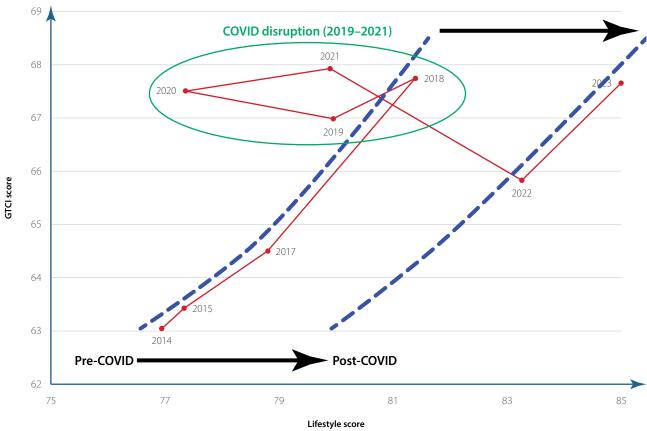
It is now clear that the new practices adopted during these years will not fade away rapidly. Instead, some of the trends identified by GTCI will contribute to a new normal, in which remote working and online collaboration will become close to common practice in all types of economies and societies.

COVID also stimulated the emergence of new tools and techniques, and new ways to organise work and production. As a result, new needs and priorities have emerged in the area of skills and talent profiles.

A new world of work is emerging in which talent is less tightly attached to a particular physical location; and this is especially true for high-skilled workers. In such a renewed landscape, an increasing number of talent can make choices about where they want to live and where and how they wish to work. One of the resulting trends that GTCI identified is the growing value of quality of life in decisions made both by individuals and by recruiting organisations when considering physical location.

Figure 3 illustrates the strong positive correlation between quality of life in a country and its talent performance before and after COVID. The trend resumed in 2022 and can be expected to continue, and possibly accelerate, in the following years.

Figure 3 For talents, quality of life matters more and more



#### 4. Cities and regions play increasingly important roles in talent initiatives

In 1990, 43% of the world population lived in a city. Today, that number is 56%, and is projected to be close to 70% by 2050. From sustainability to innovation and talent, core issues have now largely shifted from central governments to more regional and even municipal levels.

Again, COVID has contributed to the acceleration of this trend, as a number of national governments—including some in very large countries—proved unable or unwilling to take measures to fight the spread of the virus and its various mutations. In many parts of the world, cities stepped up to the plate and took the initiative to organise and implement sanitary measures.

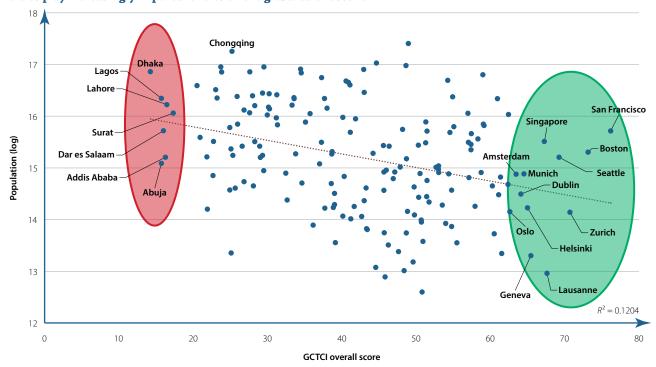
Through its dedicated Global City Talent Competitiveness Index (GCTCI), GTCI has repeatedly described and measured how cities have been able to deploy original and effective talent strategies, and how much global talent competition was influenced

by the emergence of new talent hubs among cities in all parts of the world. One of the findings of GCTCI (as shown in Figure 4) was that second-tier cities increasingly became the places where the most successful talent policies were deployed. Such cities, often medium or modest sized, frequently demonstrated an ability to be more dynamic and more attractive than larger metropolises.

Such a trend is only one facet of the complex set of phenomena by which cities have become prominent players on the global talent scene, and may be a harbinger of other possible changes. Cities could play a growing role by taking on some of the responsibilities that national governments have abandoned, or are unable to fulfil. This could occur in fields like international trade or investment, for example, through the adoption of exceptional fiscal or incentive regimes at the local level.

Figure 4

Cities play increasingly important roles on the global talent scene



Source: Authors' computations

Note: The green oval highlights the variation of population size among the most talent-competitive cities. The red oval shows the least-talent-competitive cities and points to the potential talent disadvantages of large metropolitan areas.

## 5. Growing uncertainties hamper brain circulation

It is not an exaggeration to say that, over the past decade, talent competitiveness has become a key vector of geopolitics. Just as international tensions and rivalries have contributed to a decrease in multilateral cooperation and disciplines, the ability of enterprises and organisations, such as universities, to cooperate across national borders has been significantly reduced.

The effects of limiting international travel, as initially required by pandemic concerns, have been partially offset by the rapid adoption of online collaboration tools and new work habits. Yet, as the GTCI time series suggests, neither the recent period nor the one to come have created fertile ground for one of the most positive trends identified before COVID: that of 'brain circulation'.

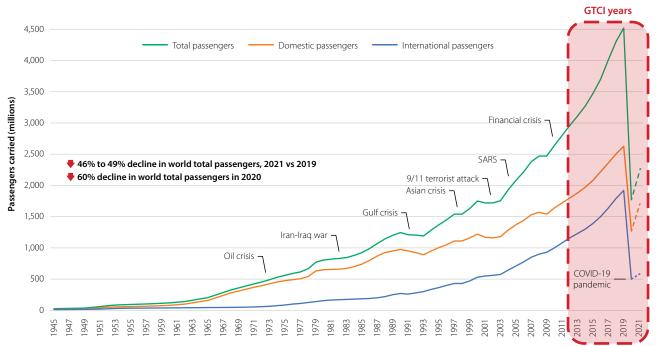
In its 2015 edition, Talent Attraction and International Mobility, GTCI highlighted the notion of brain drain/brain gain vs brain circulation. The report underlined that, for national economies as well as for private enterprise, it was an advantage to consider

talent as a fluid resource, which would benefit from international exposure. A proven ability to operate in different geographical and cultural contexts has become a major plus for large segments of the global workforce.

By putting a sudden stop to international travel, COVID created a radically different environment for global brain circulation, as shown in Figure 5.

To a large extent, this negative trend was offset by the growing tendency among organisations of all sizes to rely on a more systemic use of online collaboration tools. Although international travel resumed swiftly once health-related limitations were relaxed, persistent levels of geopolitical uncertainty, renewed nationalistic and protectionist tendencies, and the resulting decrease in international cooperation continue to hamper direct, face-to-face cooperation and, hence, the crossfertilisation of talent.

Figure 5 International talent flows are hurt by uncertainties



Source: Authors, based on ICAO reporting and estimates, https://www.icao.int/Aviation-API-Data-Service/Pages/default.aspx Note: Air traffic passengers—as measured by ICAO—being used as a proxy for international talent flows. ICAO = International Civil Aviation Organization.

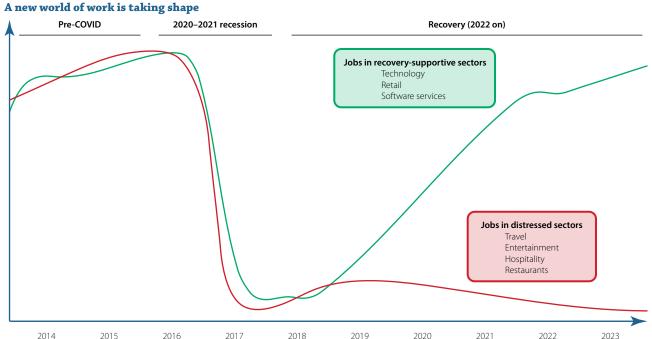
#### 6. New generations are reshaping the world of work

In its 2021 edition, Talent Competitiveness in Times of COVID, GTCI warned that a post-COVID recovery could take a 'K-shape', which would create and feed new types of inequalities among workers with different kinds of skills. As shown in Figure 6 (which uses the US economy as an example) the upper branch of the K would allow workers equipped with a future-ready sets of skills in key strategic sectors to benefit from the higher wages and career prospects produced by higher demand. In contrast, the lower branch of the K would indicate the path most likely to be imposed on other, less skilled or less adaptable workers.

In such a scenario, younger generations preparing to find their first job could be expected to prioritise the acquisition of the most sought-after skills, and pick the most dynamic sectors of activity as their target. GTCI analyses showed this was not necessarily the case. An increasing proportion of younger generations, especially among those with a higher level of education, were considering other priorities. This might include having a meaningful job by contributing positively to society or the environment, or enjoying a more healthy work-life balance. As mentioned above, when considering the role of cities as talent hubs, quality of life has become a key factor in the choices made by younger cohorts about their working and living environment.

The same phenomena have also led to the emergence of a new generation of workers for whom the traditional value of loyalty to their employer has quickly eroded. Gig-working and short-term contracts, often combined into parallel lines of work, have become the norm for a growing number of free agents on the global talent scene.

Figure 6



Source: Authors, based on personal communication with Ernie Tedeschi, policy economist at Evercore ISI; Akhtar (2020).

#### GTCI PROVIDES A RICH GLOBAL PICTURE OF TALENT COMPETITION OVER THE PAST DECADE

As discussed above, one of the core and repeated messages of GTCI over the past ten years has been that the global talent scene remains uneven and unequal. However, the same analyses confirm that the overall landscape of global talent competitiveness shows signs of significant mutation.

For example, GTCI rankings continue to be dominated by rich countries, but for how long? How are the new dynamics of labour markets and talent competition being modified under the combined effect of post-COVID adjustments and longerterm demographic, economic, social and political trends?

Although there have been some notable changes to the GTCI top ten in its first decade, the most high-performing, talent-competitive economies are still found in a small group of countries.

Figure 7 and its accumulated data shows that:

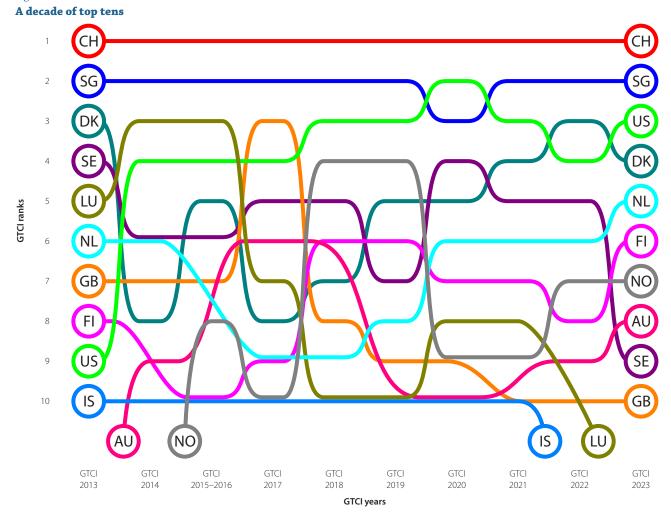
- The list of GTCI top-ten countries has been very steady over the past 10 years.
- Switzerland and Singapore are the clear leaders; the US is to a lesser extent.

- The top ten has otherwise been dominated by smaller European countries.
- Eight of the GTCl top ten in 2023 were also in the top ten in GTCl 2013. The only differences are that Luxembourg and Iceland, now in 11th and 15th position respectively, featured in 2013's top ten, while Australia and Norway have risen to the top ten from 15th and 12th position respectively.

However, GTCl time series also suggest that such stability at the top needs to be considered against the background of rapid changes among heavily populated countries, who face growing levels of uncertainty that will affect the world economy in the foreseeable future. Everything is in place for massive disruptions of the global talent landscape—as suggested in the reference to tectonics in GTCI 2022.

Although estimates vary, it is safe to assume that the total GDP of the E7 (the seven leading emerging economies of Brazil, China, India, Indonesia, Mexico, Russia, and Türkiye) is now roughly comparable to that of the G7 (Canada, France, Germany,

Figure 7



Italy, Japan, the United Kingdom, and the United States). China's rapid progression from 47th to 40th in GTCI rankings, and the level of excellence reached by Indian Institutes of Technology (IITs) suggests that emerging economies will play a significant role in challenging current global hierarchies on the global talent scene—despite India's continuing struggle to bring its primary education system to the same standard as its higher education. This is further developed in subsequent sections of this report.

#### WHAT TO EXPECT FOR THE NEXT DECADE?

As Laurence J. Peter supposedly wrote: "An economist is an expert who will know tomorrow why the things he predicted yesterday didn't happen today." Trying to describe the future is always a perilous exercise. However, the accuracy of GTCl's predictions from its first ten years provides some level of reassurance in offering the following view of what talent competitiveness might look like in the next ten years.

We therefore conclude with six key messages for the future—a time capsule to be reviewed and assessed against the reality of global talent competitiveness in 2033.

## **Key Messages for the Future of the GTCI 2023**

- Key Message #1: Over the coming decade, talent competitiveness will gain even more importance as a critical element of competitiveness, innovation and geopolitical soft power. This will be true for nations, cities and organisations alike.
- Key Message #2: Talent competition will grow fiercer. As uncertainties and international tensions continue to accumulate in trade, in investment, in politics and in diplomacy, we can expect more rather than fewer talent wars. This will be reinforced by growing needs to address domestic tensions in labour markets and growing trend towards nationalist postures and policies around topics such as immigration or 'friend-shoring', for example.
- Key Message #3: Significant aspects of the world of work will be uprooted under a combination of increasingly ubiquitous factors including: new expectations and attitudes from younger generations; the emergence of new economic and organisational models;

and new possibilities offered by technologies, including

- Key Message #4: Cities and regions will pave the way for new talent strategies and talent-based innovation. Quality of life and sustainability will be a critical asset for those aiming at becoming talent hubs.
- Key Message #5: Inequalities in global and local labour markets will take different forms and shapes. Talent-focused regulatory policies will be required at the global level to prevent unnecessary tensions, and to allow the planet to fully leverage its human and technological capacities for a better, sustainable, and more equal world.
- Key Message #6: In the rapidly moving and uncertain world of the coming decade, skills and education will remain vital tools to offer workers opportunities to contribute to economies and societies in a meaningful fashion.

# CHAPTER 2

# **Global Talent Competition** Against the Background of **Continuing Uncertainties**

Bruno Lanvin, Felipe Monteiro, and Michael Bratt

This year's GTCI data and analyses largely confirm the trends identified over the past decade. However, they also point at a few changes in individual rankings as well as in performance by regions and income groups. While the index methodology and structure remain largely unchanged—see the audit provided by JRC below—such changes should not be ignored, as some of them might constitute the weak signals that precede broader shifts

As shown and documented in the previous edition of the GTCI, the pandemic has generated long-term shocks across local and international labour markets. As uncertainties continue to grow throughout the world economy, countries, cities and organisations are adopting new talent strategies, which the GTCI attempts to detect and measure.

# THE GTCI CONCEPTUAL FRAMEWORK

As made clear in previous editions of the GTCI, countries are competing globally for the talent they need, and who will contribute to competitiveness, innovation, and growth. This requires them to grow their own talent pools, attract talent from underrepresented and under-privileged domestic sources as well as overseas and external sources, and to develop the means to retain these essential workers. In such a context, governments, businesses, and various other stakeholders need quantitative instruments that can inform their decisions—whether as investors, employers, employees, or jobseekers—and can help them design and implement better policies in areas such as education, employment, and immigration, among others. This is the purpose of the GTCI.

Bruno Lanvin is the Founder and President of Descartes Institute for the Future, and an INSEAD Distinguished Fellow. Felipe Monteiro is Senior Affiliate Professor of Strategy at INSEAD. Michael Bratt is Lead Researcher at Descartes Institute for the Future.

## Who Is Expected to Use the GTCI and Why?

Decision-making in the area of talent development, attraction, and empowerment is remarkably complex and multi-layered, covering many different issues in the fields of economics, education, human resource management and organisational behaviour, entrepreneurship, innovation, and strategy, and requiring multi-disciplinary effort. At the policy level, this complexity is compounded by emotional considerations and the international consequences of choices regarding immigration, social equity, and fiscal incentives, among others.

Faced with such intricate issues, decision-makers—both public and private—need quantitative tools that will enable them to benchmark their efforts and results obtained across the different socioeconomic environments into which talent management and talent competitiveness fall. The GTCI has been designed to help address this challenge by providing a composite view of talent competitiveness that is applicable to a large number of countries (134 this year). Although several composite indices concerning skills, talent, and human capital have been developed in recent years, both private and public players in the field see the need for a neutral, global, and respected index that will enable them to: assess the effectiveness of talent-related policies and practices; identify priorities for action in relevant areas; and inform international and local debate in this arena.

#### The Structure of the GTCI Model

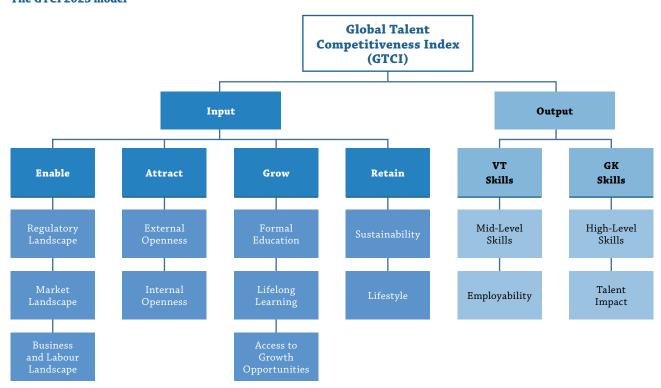
In the context of the GTCI, talent competitiveness refers to the set of policies and practices that enable a country to develop, attract, and empower the human capital that contributes to productivity and prosperity. The GTCl is an Input-Output model (see Figure 1) that combines an assessment of what countries do to produce and acquire talent (Input) and the kind of skills that are available to them as a result (Output). Although the underlying structure of the report remains robust and unchanged, feedback on previous editions, additional research, and the availability of new data have allowed the model to be refined.

The Input pillars of the GTCI are inspired by the Attract-Grow-Retain framework used by corporations to steer talent management. Multinational corporations frame talent management in these terms, defining talent management as an organisation's efforts to attract, select, develop, and retain talented employees to meet their strategic needs.<sup>1</sup> The GTCI focuses on efforts by countries, which means the model is fed by macroeconomic and country-level indicators.

In the context of national competitiveness, Attracting talent is viewed from two perspectives. Firstly, as a draw towards valuable external (i.e., foreign) resources, which includes both productive businesses through foreign direct investment (FDI) and the like as well as creative people through high-skilled migration. Secondly, as an internal attraction that is focused on removing barriers to entering the talent pool for groups such as those from underprivileged backgrounds, women, and nonnative people.

**Growing** talent has traditionally meant education, but its definition should be broadened to include apprenticeships, training, and continuous education as well as experience and

Figure 1 The GTCI 2023 model



Note: GK Skills = Global Knowledge Skills; VT Skills = Vocational and Technical Skills.

access to growth opportunities. However, although we may acknowledge that most skill development occurs through experience, much remains to be done to conceptualise and measure its role.

**Retaining** talent is necessary because the more talented the person, the wider the global opportunities he or she has. The two key components of retention are sustainability—both personal and national—and quality of life. In addition, the regulatory, market, business, and labour landscapes within a country also facilitate or impede talent attraction and growth. The GTCI classifies these elements as parts of the **Enable** pillar. Together, Enable, Attract, Grow, and Retain constitute the four Input pillars of the GTCI model.

Regarding Output, the GTCI differentiates between two levels of talent, which can be broadly thought of as mid-level and high-level skills. Mid-level skills, also known as Vocational and Technical Skills (VT Skills), describes skills that have a technical or professional base acquired through vocational or professional training and experience. The impact of VT Skills is measured by the degree of employability to which they lead. Employability is measured by indicators around skills gaps and labour market mismatches and by the adequacy of education systems. High-level skills, also called Global Knowledge Skills (or GK Skills), describe the creativity and problem-solving skills required by knowledge workers in professional, managerial, or leadership roles. Their economic impact is evaluated by indicators around innovation, entrepreneurship, and the development of high-value industries. Together, VT Skills and GK Skills constitute the two Output pillars of the GTCI model.

The GTCI provides an approach to talent competitiveness issues that is comprehensive, action-oriented, analytical, and practical. As noted above, the GTCl is a composite index, which relies on a simple but robust Input-Output model, composed of six pillars, as illustrated in Figure 1. As such, the GTCl generates three main indices that form the most visible focus for analysis, namely:

- 1. The Talent Competitiveness Input sub-index, which is composed of four pillars that describe the policies, resources, and efforts a particular country can harness to foster talent competitiveness. Pillar 1, Enable, reflects the extent to which the regulatory and business environments—including issues about competition, management practices, and the functioning of labour markets—create a favourable climate for talent to develop and thrive. The other three pillars describe the three levers of talent competitiveness, which focus respectively on what countries are doing to Attract (pillar 2), Grow (pillar 3), and Retain (pillar 4) talent. The Input sub-index is the simple arithmetic average of the scores registered on these four pillars.
- 2. The Talent Competitiveness Output sub-index, which aims to describe and measure the quality of talent in a country resulting from the above policies, resources, and

efforts. It is composed of two pillars describing the current situation of a particular country in terms of Vocational and Technical Skills (pillar 5) and Global Knowledge Skills (pillar 6). The Output sub-index is the simple arithmetic average of the scores obtained in these two pillars.

3. The Global Talent Competitiveness Index (GTCI), which is calculated as the simple arithmetic average of the scores of each of the four Input pillars and two Output pillars outlined above.

The GTCI model in the edition for 2023 is very similar to that of 2022. The only modifications of note are the removal of one indicator and the addition of another. The indicator that has been removed is 3.2.4 Formal and non-formal education and training, on grounds of data that are too fluctuating. The new indicator is 4.1.5 Vulnerable employment, which adds a more labour-focused dimension to the 4.1 Sustainability sub-pillar.

The total number of indicators in this year's model has stayed unchanged at 69. The GTCI's country coverage, meanwhile, has increased from 133 to 134. Together these countries represent more than 97 percent of the world's GDP and almost 94 percent of its population. The audit carried out by the JRC of the European Commission (see Chapter 3) has confirmed that the model remains solid and robust, these changes notwithstanding. Further details of the indicator definitions and the method of calculation can be found in the Sources and Definitions and Technical Notes appendices. The GTCI model will continue to be refined, based on further discussions with academics and business and government leaders, as well as feedback from GTCI users.

# **GLOBAL TALENT COMPETITIVENESS INDEX 2023: MAIN FINDINGS**

The top positions in the ranking of the GTCI scores continue to be dominated by developed, high-income countries (see Table 1), and there is a high correlation between GDP per capita and GTCI scores (see Figure 2). The Statistical Annex to this chapter presents more detailed information on country performance for the different sub-pillars and indicators.

European countries continue to dominate the GTCI rankings, taking 17 of the top 25 positions. Switzerland retains its firstplace position this year, followed by Singapore, and the United States. This has been the most common constellation in the top three over the past decade. The other non-European countries that make it into the top 25 are Australia, Canada, New Zealand, the United Arab Emirates, South Korea, and Israel. The most notable change in the top 25 this year is that, for the first time, it does not include Japan, which has given way to South Korea—also for the first time.

An assessment of the top 15 countries in this ranking can be found in the Statistical Annex, along with an analysis and commentary on performances in the GTCl by income group and by region.

Table 1 **Global Talent Competitiveness Index 2023 rankings** 

COUNTRY	SCORE	OVERALL RANK	INCOME GROUP	REGIONAL GROUP	REGIONAL GROUP RANK
Switzerland	78.96	1	High income	Europe	1
Singapore	77.11	2	High income	Eastern, Southeastern Asia and Oceania	1
United States of America	76.60	3	High income	Northern America	1
Denmark	76.54	4	High income	Europe	2
Netherlands	74.76	5	High income	Europe	3
Finland	74.35	6	High income	Europe	4
Norway	73.96	7	High income	Europe	5
Australia	73.93	8	High income	Eastern, Southeastern Asia and Oceania	2
Sweden	73.86	9	High income	Europe	6
United Kingdom	73.75	10	High income	Europe	7
Luxembourg	72.88	11	High income	Europe	8
Ireland	70.45	12	High income	Europe	9
Canada	70.13	13	High income	Northern America	2
Germany	69.88	14	High income	Europe	10
Iceland	69.38	15	High income	Europe	11
Belgium	69.12	16	High income	Europe	12
Austria	69.05	17	High income	Europe	13
New Zealand	67.26	18	High income	Eastern, Southeastern Asia and Oceania	3
France	66.91	19	High income	Europe	14
Estonia	64.29	20	High income	Europe	15
Malta	62.66	21	High income	Europe	16
United Arab Emirates	62.56	22	High income	Northern Africa and Western Asia	1
Czech Republic	62.43	23	High income	Europe	17
Korea, Rep.	62.21	24	High income	Eastern, Southeastern Asia and Oceania	4
Israel	62.20	25	High income	Northern Africa and Western Asia	2
Japan	61.65	26	High income	Eastern, Southeastern Asia and Oceania	5
Portugal	61.60	27	High income	Europe	18
Slovenia	60.62	28	High income	Europe	19
Spain	60.36	29	High income	Europe	20
Cyprus	59.46	30	High income	Northern Africa and Western Asia	3
Lithuania	58.73	31	High income	Europe	21
Italy	58.07	32	High income	Europe	22
Latvia	56.78	33	High income	Europe	23
Chile	55.48	34	High income	Latin America and the Caribbean	1
Qatar	54.42	35	High income	Northern Africa and Western Asia	4
Slovakia	54.24	36	High income	Europe	24
Poland	54.10	37	High income	Europe	25
Hungary	53.91	38	High income	Europe	26
Greece	52.75	39	High income	Europe	27
China	52.57	40	Upper-middle income	Eastern, Southeastern Asia and Oceania	6
Brunei Darussalam	51.74	41	High income	Eastern, Southeastern Asia and Oceania	7
Malaysia	51.35	42	Upper-middle income	Eastern, Southeastern Asia and Oceania	8
Uruguay	51.29	43	High income	Latin America and the Caribbean	2
Bahrain	50.44	44	High income	Northern Africa and Western Asia	5
Croatia	50.38	45	High income	Europe	28

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Table 1 (continued)

# **Global Talent Competitiveness Index 2023 rankings**

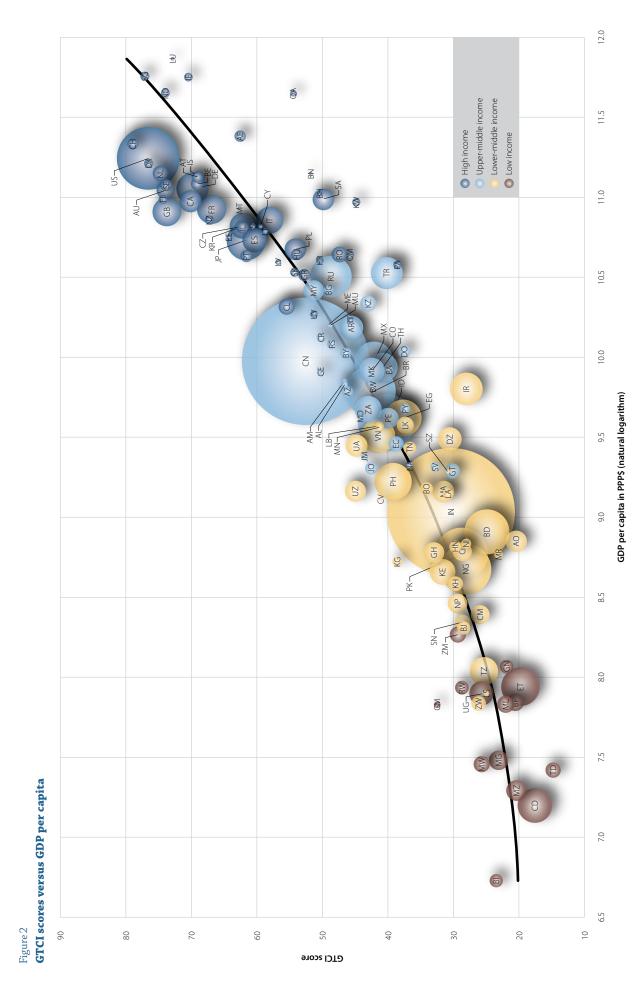
COUNTRY	SCORE	OVERALL RANK	INCOME GROUP	REGIONAL GROUP	REGIONAL GROUP RANK
Georgia	50.25	46	Upper-middle income	Northern Africa and Western Asia	6
Costa Rica	50.20	47	Upper-middle income	Latin America and the Caribbean	3
Saudi Arabia	49.86	48	High income	Northern Africa and Western Asia	7
Bulgaria	49.05	49	Upper-middle income	Europe	29
Montenegro	49.05	50	Upper-middle income	Europe	30
Mauritius	48.77	51	Upper-middle income	Sub-Saharan Africa	1
Russian Federation	48.72	52	Upper-middle income	Europe	31
Serbia	48.56	53	Upper-middle income	Europe	32
Romania	47.39	54	High income	Europe	33
Armenia	46.67	55	Upper-middle income	Northern Africa and Western Asia	8
Albania	46.61	56	Upper-middle income	Europe	34
Belarus	46.41	57	Upper-middle income	Europe	35
Azerbaijan	46.19	58	Upper-middle income	Northern Africa and Western Asia	9
Oman	45.82	59	High income	Northern Africa and Western Asia	10
Trinidad and Tobago	45.68	60	High income	Latin America and the Caribbean	4
Argentina	45.60	61	Upper-middle income	Latin America and the Caribbean	5
Uzbekistan	44.97	62	Lower-middle income	Central and Southern Asia	1
Kuwait	44.83	63	High income	Northern Africa and Western Asia	11
Ukraine	44.80	64	Lower-middle income	Europe	36
Moldova, Rep.	44.22	65	Upper-middle income	Europe	37
Jamaica	43.59	66	Upper-middle income	Latin America and the Caribbean	6
Kazakhstan	43.01	67	Upper-middle income	Central and Southern Asia	2
South Africa	43.01	68	Upper-middle income	Sub-Saharan Africa	2
Brazil	42.67	69	Upper-middle income	Latin America and the Caribbean	7
Jordan	42.56	70	Lower-middle income	Northern Africa and Western Asia	12
North Macedonia	42.53	71	Upper-middle income	Europe	38
Colombia	42.44	72	Upper-middle income	Latin America and the Caribbean	8
Botswana	42.28	73	Upper-middle income	Sub-Saharan Africa	3
Mexico	42.17	74	Upper-middle income	Latin America and the Caribbean	9
Viet Nam	41.50	75	Lower-middle income	Eastern, Southeastern Asia and Oceania	9
Mongolia	41.31	76	Lower-middle income	Eastern, Southeastern Asia and Oceania	10
Lebanon	41.30	77	Lower-middle income	Northern Africa and Western Asia	13
Cabo Verde	41.11	78	Lower-middle income	Sub-Saharan Africa	4
Thailand	40.77	79	Upper-middle income	Eastern, Southeastern Asia and Oceania	11
Indonesia	40.25	80	Upper-middle income	Eastern, Southeastern Asia and Oceania	12
Türkiye	40.20	81	Upper-middle income	Northern Africa and Western Asia	14
Peru	39.96	82	Upper-middle income	Latin America and the Caribbean	10
Bosnia and Herzegovina	39.79	83	Upper-middle income	Europe	39
Philippines	39.23	84	Lower-middle income	Eastern, Southeastern Asia and Oceania	13
Ecuador				Little City	11
Kyrgyzstan	38.77	85	Upper-middle income	Latin America and the Caribbean	11
		85 86	Upper-middle income Lower-middle income	Central and Southern Asia	3
Panama	38.77				
Panama Egypt	38.77 38.58	86	Lower-middle income	Central and Southern Asia	3
	38.77 38.58 38.56	86 87	Lower-middle income High income	Central and Southern Asia  Latin America and the Caribbean	3 12

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Table 1 (continued)

# **Global Talent Competitiveness Index 2023 rankings**

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Note: GDP per capita in PPP\$ and population data (represented by the size of the bubbles) are drawn from the World Bank's World Development Indicators database. The trend line is a polynomial of degree two (R<sup>2</sup> = 0.85).

Russian Federation

Serbia

Saudi Arabia

Sweden

Rwanda

Singapore

Slovenia

Slovakia Senegal El Salvador

Eswatini

Chad

Thailand

Türkiye

Tunisia

Figure 2 (continued)

15	otet scores versus our per capita: 130-2 country codes	7-00	country codes					
COD	CODE COUNTRY	CODE	CODE COUNTRY	CODI	CODE COUNTRY	CODE	CODE COUNTRY	CODE
AE	United Arab Emirates	5	China	<b>□</b>	Indonesia	MK	North Macedonia	æ
AL	Albania	8	Colombia	ш	Ireland	M	Mali	2
AM	Armenia	ä	Costa Rica	=	Israel	N N	Mongolia	RW
AO	Angola	5	Cabo Verde	Z	India	MR	Mauritania	SA
AR	Argentina	Շ	Cyprus	<b>~</b>	Iran, Islamic Rep.	MT	Malta	SS
AT	Austria	Ŋ	Czech Republic	SI	Iceland	M	Mauritius	SG
AU	Australia	DE	Germany	Ė	Italy	MM	Malawi	IS
AZ	Azerbaijan	ă	Denmark	Wr	Jamaica	WX	Mexico	×
ВА	Bosnia and Herzegovina	8	Dominican Republic	9	Jordan	M	Malaysia	NS
BD	Bangladesh	DZ	Algeria	4	Japan	MZ	Mozambique	S
BE	Belgium	П	Ecuador	Ä	Kenya	N A	Namibia	ZS
B	Burkina Faso	Ш	Estonia	KG	Kyrgyzstan	S N	Nigeria	2
BG	Bulgaria	EG	Egypt	Ā	Cambodia	Z	Nicaragua	¥
В	Bahrain	ES	Spain	Ā	Korea, Rep.	뒫	Netherlands	Ę
፟	Burundi	<b>5</b>	Ethiopia	KW	Kuwait	ON N	Norway	¥
8	Benin	Ξ	Finland	KZ	Kazakhstan	Ā	Nepal	F
B	Brunei Darussalam	Æ	France	5	Lao PDR	NZ	New Zealand	7
80	Bolivia, Plurinational St.	89	United Kingdom	9	Lebanon	ОМ	Oman	N
B	Brazil	쁑	Georgia	ᆂ	Sri Lanka	PA	Panama	ng
BW	Botswana	퓽	Ghana	LS	Lesotho	뿝	Peru	Sn
BY	Belarus	WB	Gambia	5	Lithuania	품	Philippines	Š
5	Canada	N U	Guinea	3	Luxembourg	¥	Pakistan	Zn
8	Congo, Dem. Rep.	8	Greece	2	Latvia	4	Poland	N
₹	Switzerland	5	Guatemala	MA	Morocco	F	Portugal	ZA
Ū	Côte d'Ivoire	Z	Honduras	MD	Moldova, Rep.	₹	Paraguay	ZM
ฮ	Chile	뚶	Croatia	ME	Montenegro	Ø.	Qatar	ZW
CM	Cameroon	呈	Hungary	MG	Madagascar	8	Romania	

United States of America

Uganda

Ukraine

Uzbekistan

Uruguay

South Africa

Zambia

Viet Nam

Zimbabwe

Tanzania, United Rep. Trinidad and Tobago

# LONGER-TERM TRENDS IN TALENT **COMPETITIVENESS**

This fifth time-series analysis of the GTCI reaffirms the longerterm trends identified in previous reports. Above all, it underscores that the most talent-competitive countries are not only better at developing, attracting, and empowering human capital, but these trends also indicate that they are pulling away from less talent-competitive countries. In a word, talent inequalities are widening.

The approach used to analyse how talent competitiveness has changed over time follows the general approach of previous editions—that is, it compares performances in the GTCI over two periods. However, since this edition marks the tenth anniversary of the GTCI, the comparison is made with respect to the two halves over the past decade, rather than over two shorter periods as in the previous editions. The two periods being compared are GTCI 2013-GTCI 2018 and GTCI 2019-2023.2 Focusing on the averages from these longer periods has several advantages. For example, it can make it easier to spot general trends that might be missed in a year-by-year analysis. In addition, it allows for some smoothing of annual fluctuations in the data that, in turn, results in more reliable conclusions. Related to this is that the aggregation absorbs year-to-year changes because of improvements in the methodology of the GTCI.3

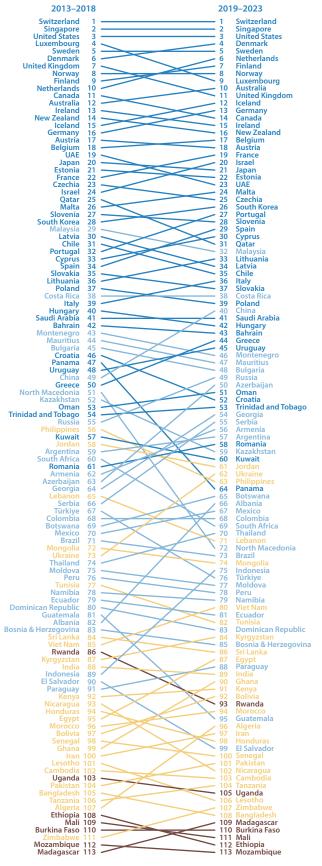
In terms of country coverage, countries that have been included in two of the five years that make up a period have been included in the time-series analysis. For this edition, this means that a total of 113 countries are included, and all four income groups are represented: 48 are classified as high-income countries, 32 are upper-middle-income countries, 26 are lowermiddle-income countries, and seven are low-income countries. The regional breakdown, meanwhile, is as follows: six are in Central and Southern Asia; 13 in Eastern, Southeastern Asia and Oceania; 38 in Europe; 18 in Latin America and the Caribbean; 19 in Northern Africa and Western Asia; two in Northern America; and 17 in Sub-Saharan Africa.

The calculation of the averages of the two five-year periods is based on the GTCI scores that the countries have achieved. More specifically, the calculation comprises two steps: (1) averaging overall scores for GTCI 2013-GTCI 2018 and GTCI 2019-GTCI 2023 periods, and (2) computing country rankings based on the resulting averages. The advantage of this approach is that it is straightforward and yields distinct rankings for each country. The drawback is that the scores are not necessarily fully comparable from one year to the next because of changes in data or methodological improvements. An alternative approach, in which five-year average rankings are computed based on ranks (rather than scores) of countries in different GTCI editions, is used to corroborate the findings.⁴

# **Attracting and Growing Talent Are Key for Talent Movers**

Figure 3 shows how the relative positions of countries in the GTCI have changed in the two periods, GTCI 2013-GTCI 2018 and GTCI 2019-GTCI 2023. The left-hand and right-hand columns rank the countries according to their GTCI scores in the earlier and

Figure 3 GTCI rankings in 2013-2018 and 2019-2023



Note: Colours refer to income groups, which range from dark blue (high income) to light blue (upper-middle income), light brown (lower-middle income), and dark

later period, respectively. Hence, an upward (downward) slope implies an improvement (deterioration) in the ranking over the two periods, which in turn suggests strengthening (weakening) talent competitiveness.

An interesting feature of Figure 3 is that the criss-crosses become increasingly prevalent as one's eyes move from top to bottom. This implies that less talent-competitive countries tend to experience greater fluctuations in ranks over the long term than more talent-competitive countries. Indeed, the ranks of the top-three performers in the GTCI remained the same in both periods. They are, in descending order: Switzerland, Singapore, and the United States. In another example, 14 countries in the upper half of the rankings in the earlier period saw their rank remain the same or change by only one position in the later period. For countries in the lower half of the rankings, only seven experienced similarly small movements.

What might be the underlying reasons for this tendency? The strong association between talent competitiveness and income level could be one factor: just as better performers in the GTCI (typically high-income countries) are more stable in their talent competitiveness over time, high-income countries tend to experience less volatility than countries of lower income levels. Another plausible explanation is that the set of policies and practices that bring about greater talent competitiveness are more stable and less susceptible to political and socioeconomic fluctuations. Viewed in this light, it will be interesting to see in the years ahead whether the tendency of lower fluctuations higher up in the rankings will remain as strong against a backdrop of greater political and socioeconomic uncertainties in the world, including in high-income countries.

Given that large changes in the rankings are more common further down the rankings, it will not come as a surprise that the greatest improvers in the GTCI over the past decade are lower-middle-income and upper-middle-income countries. The three countries that climbed the most over the two periods are Albania, Indonesia, and Azerbaijan, which jumped by 16, 14, and 13 positions, respectively. All of them made particular strides with respect to Vocational and Technical Skills. Albania and Azerbaijan also considerably improved their ability to Attract talent, whereas Indonesia is also notable for strengthening its enabling environment and the ability to Retain talent.

Analysing pillar-level performances of all the top-10 talent improvers<sup>5</sup> reveals that all of them improved their average ranks in the pillars Attract and Grow. Nine of the ten countries had their average ranks rise with respect to the enabling environment, while eight countries saw improvements in the ranks that relate to Vocational and Technical Skills. As for the remaining pillars—Retain and Global Knowledge Skills—six of the top-10 talent improvers enjoyed better ranks in the later period.

# The Dynamics of Talent Competition Are Changing

As outlined in the special introduction, the global competition for talent has changed in both its nature and its modalities. Post-COVID, the competition for talent relies more on online cooperation, and focuses on specific, strategic areas in which demand is expected to grow or where the availability of new skills still lags local or global needs. National economies have prioritised different aspects of talent strategies in accordance with their own mix of comparative advantages and disadvantages. Some place particular emphasis on education and training of their own workforce, while others are trying to attract and retain the talent that best fits the pursuit of key national goals, be that competitiveness, innovation, sustainability or some other ambition.

Regular readers of GTCI will recognise Figure 4 from previous editions. It shows the longer-term path followed by countries covered by the index over the past ten years, and describes how talent performance changes over longer periods of time—thus eliminating some of the noise created by year-on-year changes.

However, as described above, for this tenth-anniversary edition, two periods are being compared.

Many important insights can be gathered from this type of analysis, not least the following, which indicate that emerging countries are the core engine of changing talent dynamics.

- Several of the largest emerging economies are among the best improvers over the past decade: China and Russia have moved from being talent movers to talent champions; Indonesia remains a talent mover, but is one of the countries with the greatest strides in talent competitiveness over the past decade; Mexico has moved from being a talent laggard to a talent mover; Brazil is still among the talent laggards, but it has progressed within that quadrant and may well soon be categorised as a talent mover. All these five countries have in common an improvement in their ability to Retain talent.
- The share of countries from Latin America and Western Asia that are talent champions has increased since GTCL 2020. In GTCI 2020, Latin America represented 3% of the top-right quadrant. That rose to 6% in GTCI 2023. Similarly, Western Asia represented 9% of talent champions in GTCI 2020, but 13% in GTCI 2023. Conversely, the share of countries in Europe, Northern America, and Eastern, Southeastern Asia and Oceania has decreased over the same period.

## **Talent Champions Continue to Pull Away from** the Rest

The main finding in the long-term analyses of previous editions is that the gap between the most talent-competitive countries and the rest is widening. This finding remains just as valid in this year's GTCI, which extends the long-term analysis to ten years. Figure 5 makes this visually clear, showing how the distribution of scores has changed in the four income groups over the two five-year periods. It can be seen that there has been a notable upward shift for the high-income group, whereas the trend is the opposite for the lower-middle-income and low-income groups. Scores in the upper-middle-income group have been fairly steady over the two periods.

Taking the analysis one step further, looking at pillar-level performances by income group paints a broadly similar picture. That is, higher-income groups have generally outpaced

15 **Movers** Champions ID ΑZ CN ∫-DK -US 10 AL GH EG AM AR 5 TT MXPY CR BG ВО KW Change in percent 0 MU IN BR-PK QA MA IR MG ME \\_ZA -5 ΤZ PΑ MK -10 RW UG SV Average GTCI 2023 score: 47.8 -15 •BD GT NI MZ ML LS Laggards Limpers -20

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GTCI 2023 score • High income • Low income • Lower-middle income • Upper-middle income

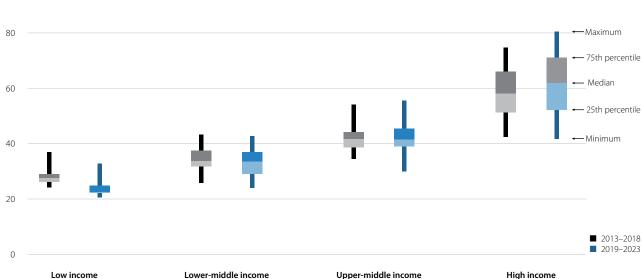
Figure 4 GTCI long-term paths (change in scores for GTCI 2013-2018 vs 2019-2023 and GTCI 2023 score)

Note: A complete ISO-2 country code key can be found as part of Figure 2, page 20.

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Note: Black bars indicate GTCI 2013–GTCI 2018 values and blue bars indicate GTCI 2019–GTCI 2023 values.

lower-income groups in each pillar during the past decade. Looking at relative pillar-level performances within each income group, they have generally been similar across all pillars in the high-income group over the past ten GTCI editions, although high-income countries seem to have a slight advantage in both the ability to Retain talent and in Global Knowledge Skills. As for upper-middle-income countries, there has been a convergence of pillar performances, which is reflected in the more narrow range of median ranks seen in GTCI 2023 than in GTCI 2013. This suggests that talent competitiveness has become more balanced in upper-middle-income countries in the past decade. Lower-middle-income countries have frequently performed comparatively well in the two Output-related pillars—Vocational and Technical Skills and Global Knowledge Skills—whereas Enable and Grow have often been among the weakest pillars in this income group. As for low-income countries, Attract has been the strongest pillar in every GTCI edition without exception.

The trends are similar from a regional perspective (Figure 6). The higher-scoring regions—Eastern, Southeastern Asia and Oceania; Europe; Northern Africa and Western Asia; and Northern America—have improved their medians and means over the two periods, while Central and Southern Asia, Latin America and the Caribbean, and Sub-Saharan Africa have seen their corresponding values decline.

In terms of pillar-level performances within regions, Europe and Northern America have been the highest-ranked regions in all pillars in every GTCI edition. However, Europe has consistently enjoyed a particular advantage in its ability to Retain talent, while Northern America has been especially strong in growing talent

throughout the decade. The two pillars that stand out in Eastern, Southeastern Asia and Oceania are Grow and Global Knowledge Skills, which have been that region's best-performing pillars in almost every GTCl edition. The most consistently strong pillar in the Northern Africa and Western Asia region refers to the enabling environment, but the greatest improvement relates to the ability to Attract talent—the region's weakest pillar at the beginning of the decade and its strongest pillar at the end of it. Latin America and the Caribbean has done well in the Attract and Grow pillars throughout the decade and it has also improved the ability to Retain talent. Central and Southern Asia has consistently maintained an advantage with respect to retaining talent, but there has been a clear deterioration in the region's ability to Enable and Attract talent. As for Sub-Saharan Africa, Attract has been the best-performing pillar in the region by far, although this advantage has weakened over time, especially in the past few years. The weakest pillar in the region has frequently been the ability to Retain talent.

#### **Main Findings from GTCI 2023**

The talent champions are consistently strong in all, or almost all, dimensions of talent competitiveness. A constant theme throughout the GTCI is that the best performers do well in virtually all pillars. Switzerland, the global leader in all editions, is the talent champion *par excellence* in this regard. The same characteristic also applies to regions: Europe and Northern America outperform other regions in all pillars, on average.

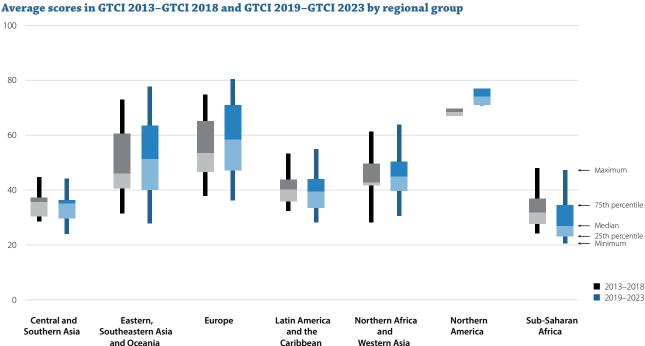


Figure 6 **Average scores in GTCI 2013–GTCI 2018 and GTCI 2019–GTCI 2023 by regional group** 

Note: Black bars indicate GTCI 2013–GTCI 2018 values and blue bars indicate GTCI 2019–GTCI 2023 values. The plots for Northern America are without wide bars because they only contain two countries: Canada and the United States.

- · The talent champions have a particular edge in their ability to Retain talent and in their Global Knowledge **Skills.** Although the most talent-competitive countries outshine other countries in their consistent all-round performance, the gap between them is particularly wide with respect to the Retain and Global Knowledge Skills pillars. In other words, it is primarily the performances in these pillars that seem to set the talent champions apart from the rest.
- The countries making the most headway in the past decade have strengthened the ability to Attract and **Grow talent.** The ten countries that have made the greatest strides in strengthening their talent competitiveness over the past decade—the talent improvers—have frequently made progress in several pillars. However, there are two pillars where all of them have seen improvements: Attract and Grow. Countries looking to emulate the progress of the talent improvers should therefore ensure that supporting these pillars are part of their efforts to strengthen talent competitiveness.
- The top performers among middle-income countries typically have a favourable enabling environment for nurturing talent. Although the highest-ranked middleincome countries sometimes differ in their particular strengths, many of them have in common a conducive enabling environment for talent. Several of the top performers also have strong pools of Vocational and Technical Skills.

#### **ENDNOTES**

- 1 See Cappelli & Keller (2014); Stahl et al. (2012).
- 2 The guestion arises as to why GTCI 2013-GTCI 2018 covers five editions rather than six. The reason for the apparent discrepancy is that the print year of the report has not always matched the launch year. More specifically, the GTCI reports are always printed towards the end of the calendar year and the first two editions of the GTCI referred to this in their titles (The Global Talent Competitiveness Index 2013 and The Global Talent Competitiveness Index 2014). However, because the launch of the report used to be held in January, a change was made in the third edition, whereby the title would refer to the launch year. Thus, the third edition became The Global Talent Competitiveness Index 2015–16 and subsequent editions have had the launch year included in the title.
- 3 One caveat to the results discussed in this section is that the GTCI model has evolved over the years, with the possible implication that a score that changes from one year to the next might primarily reflect a methodological adjustment rather than new data. This potential problem is addressed by averaging the scores across five years, as this implies some smoothing of modifications to the GTCI model, and by focusing the analysis on aggregate overall GTCI scores, which entails a degree of cancelling-out effects.
- 4 More concretely, the country with the best average rank for a five-year period would be ranked 1st, the country with the next-best rank would be ranked 2nd, and so on.
- 5 In descending order of improvement in rank over the two periods: Albania (from 82nd to 66th), Indonesia (89th to 75th), Azerbaijan (63rd to 50th), Serbia (66th to 55th), Ukraine (73rd to 62nd), Algeria (107th to 96th), Georgia (64th to 54th), China (49th to 40th), Ghana (99th to 90th), and Egypt (95th to 87th).

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### **Statistical Annex to Chapter 2**

#### **OVERVIEW**

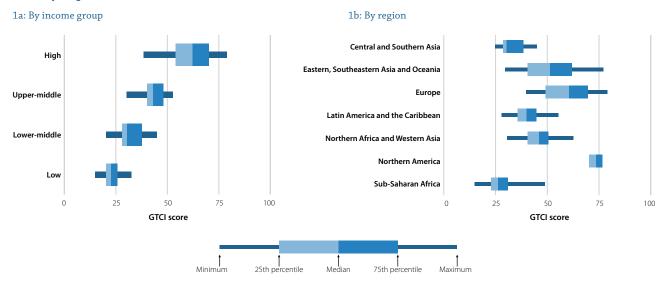
This annex analyses country performance in terms of overall score in the GTCI, as well as performance in individual pillars and sub-pillars. Performance data are broken down in different ways: by top performers (the top 15 GTCl score leaders), by region, and by income group (high, upper-middle, lower-middle, and low income).<sup>1</sup> Also included is a comparative analysis of the BRICS countries (Brazil, Russia, India, China and South Africa).

In total, there are 134 countries included in this year's GTCI, up from last year's 133. Of these, 49 are high-income countries, 34 are upper-middle-income countries, 39 are lower-middleincome countries, and 12 are low-income countries. The regional distribution, meanwhile, is as follows: nine countries are in Central and Southern Asia; 15 countries are in Eastern, Southeastern Asia, and Oceania; 39 are in Europe; 19 are in Latin America and the Caribbean; 18 in Northern Africa and Western Asia; two countries are in Northern America; and 32 are in Sub-Saharan Africa. All countries that were covered in the GTCI 2022 remain in this year's edition. Uzbekistan is the addition to the 2023 index, the first time it is included in the GTCI.

Figure A1 presents the dispersion of GTCI scores by income group and by region. In terms of income group, the left-hand panel (1a) illustrates the positive relationship between GTCI score and GDP per capita. More specifically, high-income countries outperform upper-middle-income countries in all percentiles. The same is true of lower-middle-income countries and lowincome-country groups. The dominance of high-income countries in the GTCI is particularly striking: indeed, the score at the 25th percentile of the high-income group exceeds the bestperforming country in the upper-middle-income group.

As for performance by region, as the right-hand panel in Figure A1 (1b) shows, scores here also reflect income level. Thus, Northern America and Europe—which have the greatest shares of high-income countries—are the two bestperforming regions, followed by Eastern, Southeastern Asia and Oceania. Conversely, the two regions with the greatest shares of low-income and lower-middle-income countries-Sub-Saharan Africa and Central and Southern Asia—are also the two worst-performing regions. In addition, performance by region is also a function of the number of countries within each region. For instance, the region with the highest number of countries, Europe, has a wide dispersion of scores, even though it only includes upper-middle-income and high-income countries

Figure A1 **Country dispersion of GTCI scores** 



Note: The figure for Northern America has only two bars because it contains only two countries: Canada and the United States.

At the country level, year-on-year changes in rankings are to be expected given updates to data and refinements of the GTCI model. These changes tend to be small, with only a few countries experiencing dramatic climbs or falls in the rankings. However, the past few years have seen greater fluctuations than usual, due to the impact of the COVID pandemic on labour markets and the methodological changes to the GTCI (a response to the discontinuation of certain indicators). This year's GTCI rankings mark a return to greater stability, as would be expected now that COVID is no longer seen as an international public health concern,<sup>2</sup> and because most indicators populating the GTCI are unchanged since last year. A notable consequence is that only two countries in the GTCI 2023 saw their rankings move by 10 places or more, whereas GTCI 2022 saw 18 countries experience this kind of change in their rankings.

A constant in the GTCI over the past decade has been the dominance of European countries in the top 25, and GTCI 2023 is no exception. Switzerland, the world's most talent-competitive country in every edition, remains firmly in the top spot. All Nordic countries but one make it into the top 10 (Denmark in 4th place; Finland, 6th; Norway, 7th; and Sweden, 9th. Iceland is the exception, at 15th). Western European countries, such as the Netherlands in 5th place, the United Kingdom in 10th, and Luxembourg at 11th, are also among the top performers.

Four other regions are represented in the top 25: Northern America (United States of America ranks 3rd; Canada 13th); Eastern and Southeastern Asia (Singapore, in 2nd; South Korea in 24th); Oceania (Australia 8th; New Zealand 18th); and Western Asia (the United Arab Emirates at 22nd; Israel 25th).

Some of the differences in GTCI scores are driven by divergent performance in particular pillars (Figure A2). For example, dispersion in the Retain pillar is greater than in the Attract pillar, which suggests that the ability to retain talent varies much more than the ability to attract it. Similarly, ranking for Global

Knowledge Skills is more varied than for Vocational and Technical Skills—although less evident in the figure—an indication that higher-level skills and their impact are what primarily set countries apart, rather than more specialised, technical skills.

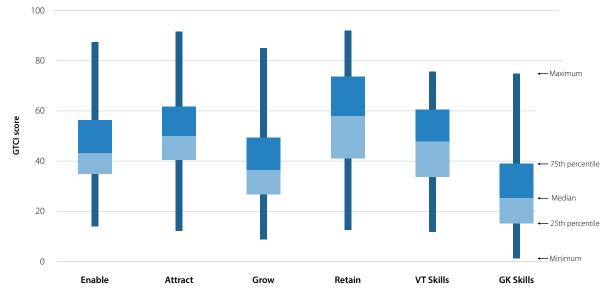
A detailed overview of country-level performances is shown in Figure A3, a heatmap that presents the rankings in the GTCl overall and in each pillar, and which is shaded by the quartile to which the rankings of each of the 134 countries belong. As the heatmap indicates, there is a certain degree of complementarity across pillars, with performances in various pillars seeming to be mutually reinforcing. That is, a strong performance in one pillar is associated with positive showings in the others—and vice versa for weak performances. To give a specific example, countries ranked in the top quartile overall are typically also ranked in the top quartile in each of the six pillars (they account for 88 percent of top-quartile performances at the pillar level). The same pattern is seen among countries ranked in the bottom quartile overall (where they account for 82 percent of bottom-quartile performances at the pillar level).

#### **TOP 15 COUNTRIES IN THE GTCI 2023**

The top 15 in the GTCI has remained relatively stable over the past decade. Eighteen countries have featured among the top 15 countries on at least one occasion; 12 of them have made this group of best performers in all ten GTCI editions.

Switzerland has ranked as the world's most talent-competitive country ever since the GTCI was launched in 2013, and this year is no different. Similarly, Singapore remains in 2nd place, a position it has held in every edition apart from GTCI 2020. The United States climbs one place and returns to the top three, which it has made five times in the past ten years. Denmark, 3rd last year, drops to 4th this year, although its score is only slightly lower than that of the United States. Last year marked the second time that Denmark had featured in the top three.





Note: GK Skills = Global Knowledge Skills; VT Skills = Vocational and Technical Skills.

Figure A3 Rankings in the GTCI overall, and by pillar

COUNTRY	GTCI RANKING	ENABLE	ATTRACT	GROW	RETAIN	VT SKILLS	GK SKILLS
		Countries AB		the overall GTCI so	ore		
Switzerland	1	1	3	5	1	2	10
Singapore	2	7	2	3	38	3	1
United States	3	4	22	1	15	1	5
Denmark	4	2	7	8	2	8	9
Netherlands	5	5	8	4	10	12	16
Finland	6	3	9	13	4	4	17
Norway	7	8	14	12	3	7	7
Australia	8	15	6	6	14	19	3
Sweden	9	6	11	14	7	10	6
United Kingdom	10	12	13	2	11	29	2
Luxembourg	11	13	1	22	9	18	12
Ireland	12	20	5	10	13	23	15
Canada	13	16	10	9	28	16	18
Germany	14	10	15	16	6	6	23
Iceland	15	18	18	23	12	11	4
Belgium	16	17	19	11	24	14	20
Austria	17	14	17	19	5	5	25
New Zealand	18	11	12	20	22	57	11
				7			
France	19	19	25 24	29	19	25	21
Estonia	20	22			18	33	13
Malta	21	33	20	33	8	49	19
United Arab Emirates	22	23	4	17	59	28	32
Czech Republic	23	25	27	26	21	9	28
South Korea	24	21	59	28	29	27	8
Israel	25	24	44	43	25	13	14
Japan	26	9	42	21	23	39	33
Portugal	27	30	16	25	20	48	24
Slovenia	28	32	32	27	26	17	26
Spain	29	26	26	18	17	63	31
Cyprus	30	41	21	47	16	37	22
Lithuania	31	27	31	36	27	46	27
Italy	32	29	40	24	31	30	38
Latvia	33	36	35	40	33	34	29
Chile	34	37	34	35	34	44	42
Qatar	35	28	23	32	77	21	65
Slovakia	36	42	51	52	32	24	39
Poland	37	43	73	37	40	22	36
Hungary	38	44	47	51	37	32	35
Greece	39	54	43	39	30	66	40
China	40	31	91	15	74	47	43
Brunei Darussalam	41		54	46	49		45
		51				26	
Malaysia	42	35	71	44	66	38	34
Uruguay	43	34	36	34	36	69	76
Bahrain	44	46	29	30	69	56	63
Croatia	45	56	74	63	35	51	37
Georgia	46	47	38	71	45	36	60
Costa Rica	47	40	28	38	52	68	74
Saudi Arabia	48	48	39	53	80	20	57
Bulgaria	49	52	86	62	39	50	47
Montenegro	50	63	33	86	42	42	49
Mauritius	51	39	37	78	41	52	77
Russia	52	78	84	31	56	43	41
Serbia	53	62	48	58	58	41	51
Romania	54	69	66	67	43	45	56
Armenia	55	70	41	91	44	54	53
Albania	56	55	50	54	51	64	82
Belarus	57	106	81	65	47	40	44
Azerbaijan	58	67	45	79	62	15	95
Oman	59	49	61	56	64	59	85
Trinidad and Tobago	60	85	49	77	46	35	84
Argentina	61	91	63	42	48 48	67	75
Uzbekistan	62		65		48 53	31	64
		76		100			
Kuwait	63	60	30	84	60	75	70
Ukraine	64	75	57	68	50	77	50
Moldova	65	88	60	72	57	60	62
Jamaica	66 67	50	55 56	81	79	58	79
Kazakhstan		93		70	54	122	30

(continued on next page)

Figure A3 (continued)

#### Rankings in the GTCI overall, and by pillar

COUNTRY	GTCI RANKING	ENABLE	ATTRACT	GROW	RETAIN	VT SKILLS	GK SKILLS
		Countries BE	LOW the median in	the overall GTCI so	ore		
South Africa	68	57	53	69	82	93	58
Brazil	69	61	88	60	68	74	69
Jordan	70	45	77	85	61	78	80
North Macedonia	71	80	83	88	55	61	67
Colombia	72	71	70	45	86	73	66
Botswana	73	38	82	93	72	96	55
Mexico	74	81	98	41	65	79	72
Viet Nam	75	59	72	55	98	71	71
Mongolia	76	72	69	73	73	100	48
Lebanon	77	97	79	66	89	70	46
Cabo Verde	78	53	75	106	70	76	73
Thailand	79	65	92	61	83	81	68
Indonesia	80	58	106	64	84	65	100
Türkiye	81	90	107	50	81	80	61
Peru	82	83	68	48	88	85	86
	83	98	94	80	71	62	87
Bosnia and Herzegovina							
Philippines	84	89	102	49	92	86	54
Ecuador	85	96	95	57	78	83	98
Kyrgyzstan	86	112	52	105	76	72	81
Panama	87	87	76	76	63	101	93
Egypt	88	82	110	75	93	55	91
Dominican Republic	89	64	67	97	91	92	88
Sri Lanka	90	73	122	87	85	53	96
Paraguay	91	104	58	101	67	98	99
Tunisia	92	77	121	94	75	107	59
Namibia	93	68	64	89	87	91	115
Bolivia	94	113	116	59	95	105	89
Ghana	95	66	90	95	111	88	112
El Salvador	96	109	118	82	97	82	104
Gambia	97	101	46	98	103	114	119
Kenya	98	95	105	92	114	90	94
Morocco	99	79	108	109	101	117	90
Eswatini	100	99	89	102	106	118	101
Lao PDR	101	86	100	115	116	99	92
Algeria	102	105	126	111	90	103	97
India	103	92	132	90	99	121	83
Guatemala	104	108	127	74	102	104	113
Honduras	105	121	115	83	100	112	110
Cambodia	106	103	85	104	110	115	117
Nepal	107	116	124	120	94	94	103
Zambia	108	107	62	123	126	95	111
Pakistan	109	111	125	99	105	109	107
Rwanda	110	84	87	113	113	126	114
Côte d'Ivoire	111	100	80	103	117	120	116
Senegal	112	94	93	122	107	116	122
Benin	113	74	78	126	130	89	128
Nigeria	114	119	112	118	118	123	52
Nicaragua	115	125	99	110	108	111	105
Iran	116	114	134	96	104	97	78
Zimbabwe	117	129	117	112	122	87	108
Cameroon	118	122	119	107	125	110	102
Uganda	119	118	97	114	131	102	120
Malawi	120	115	109	125	112	108	129
Tanzania	121	102	101	116	119	124	130
Lesotho	122	128	111	129	96	128	118
Bangladesh	123	117	131	124	109	113	109
Burundi	124	131	103	108	129	106	133
Madagascar	125	124	113	117	127	119	124
Mauritania	126	127	129	128	120	84	126
Mali	127	110	123	127	121	131	132
Guinea	128	120	120	119	132	125	127
Burkina Faso	129	123	96	133	124	133	125
Angola	130	130	104	131	123	134	106
Mozambique	131	126	114	132	115	132	131
· · · · · · · · · · · · · · · · · · ·							
Ethiopia	132	132	133	121	128	129	121
Congo, Dem. Rep.	133	133	128	130	133	130	123
Chad	134	134	130	134	134	127	134

Note: The darkest colour means the country belongs to the 1st quartile (best performers); medium colour = 2nd quartile; pale colour = 3rd quartile; palest colour = 4th quartile (worst performers). GK Skills = Global Knowledge Skills; VT Skills = Vocational and Technical Skills.

All other countries in this year's top 15 also featured last year. Northern European countries continue to dominate, with the Netherlands, Finland, and Norway immediately following Denmark in the top ten, with Sweden in 9th and Iceland in 15th. All but Iceland, which has made the grade eight times in total, have consistently ranked in the top 15 since 2013. As for the remaining countries, Australia at 8th place, the United Kingdom at 10th, Luxembourg at 11th, and Canada at 13th, all count among the countries that have consistently ranked in the top 15. Ireland, in 12th place this year, and Germany in 14th have featured six and seven times, respectively. The three countries that have previously made the top 15, but fall outside it this year, are: Belgium (now in 16th place), Austria (17th), and New Zealand (18th).

The top 15 performers also dominate all six pillars of the GTCI, which is further evidence that there are feedback loops across different areas of talent competitiveness. As can be seen in Table A1, the top three countries in each pillar also feature among the top 15 countries in the overall index. Switzerland, for instance, is the global leader in terms of enabling and retaining talent and is also a top-three performer in both the Attract pillar and the Vocational and Technical Skills pillar. The second-most talent-competitive country, Singapore, likewise features in the top three in four pillars, including 1st position for Global Knowledge Skills. The United States is the best performer in two pillars, Grow and Vocational and Technical Skills, while Luxembourg tops the Attract pillar.

Analysing performances across pillars suggests that the top 15 countries are especially strong in the Input-related pillars. Thirteen of them count among the top 15 countries in the Attract and Retain pillars, and 12 of them do so in the Enable and Grow pillars. The equivalent count for the two Output-related pillars— Vocational and Technical Skills and Global Knowledge Skills—is 10 and 11 countries, respectively.

However, there are also several countries that, although ranked outside top 15, do make it as top performers in specific pillars. For example, Austria has the fifth-highest score in the Retain and in the Vocational and Technical Skills pillars. The United Arab Emirates is ranked 22nd overall, but has one of the best scores in the Attract pillar, while Japan (26th overall), France (19th), and Malta (21st) are among the top 10 performers in the Enable, Grow, and Retain pillars, respectively. Two other countries

Table A1 Countries with highest scores, by pillar

PILLAR	TOP-RANKING COUNTRIES
Enable	Switzerland, Denmark, Finland
Attract	Luxembourg, Singapore, Switzerland
Grow	United States, United Kingdom, Singapore
Retain	Switzerland, Denmark, Norway
Vocational and	United States, Switzerland, Singapore
Technical (VT) Skills	
Global Knowledge	Singapore, United Kingdom, Australia
(GK) Skills	

that shine in specific pillars are the Czech Republic (ranked 23rd overall) in Vocational and Technical Skills and South Korea (24th overall) in Global Knowledge Skills.

#### Individual country analyses

**Switzerland** (1st) is at the top of the GTCI rankings this year, just as it has been every year since the index was launched ten years ago. The one aspect of Switzerland's talent competitiveness that makes it stand out is its impressive performances in multiple pillars and sub-pillars. It features in the top 10 in all six pillars, for example, and is the global leader in the Enable and Retain talent pillars. It ranks 2nd in Vocational and Technical Skills, thanks to the high relevance of its education system to its economy, and 3rd in the Attract pillar. As for the 14 sub-pillars, it is in the top 10 in all but two. Above all, Switzerland ranks 1st in Sustainability, which can be attributed to its high levels of social protection and the quality of its natural environment. The two lowest-ranked sub-pillars are Access to Growth Opportunities and High-Level Skills (it is ranked 15th in each case). In the former sub-pillar, there is scope to increase the use of virtual professional networks. In the latter sub-pillar, there is room to expand tertiary educated employees in the workforce.

**Singapore** (2nd) has earned its 2nd-place ranking in almost all GTCI editions and this year is no different (GTCI 2020 was the exception). Above all, it is a global leader in Global Knowledge Skills, where its highly-educated labour force and innovative economy contribute to its top rank in the High-Level Skills and Talent Impact sub-pillars. The city-state also makes it into the top three in the following pillars: Attract, Grow, and Vocational and Technical Skills (2nd, 3rd, and 3rd respectively). In these pillars, its top-ranked Formal Education, its ability to match workforce supply and labour market demand (it is 2nd in Employability), and its 4th-placed ranking for External Openness towards overseas business and talent are particularly impressive. The country's main weakness (36th position) remains its ability to Retain talent: greater personal rights and physician density would improve its ranking (currently 37th) in the Lifestyle sub-pillar.

The United States (3rd) returns to the GTCl top three, after being ranked 4th in 2022. This means that this year's top three reflects the most common grouping over the past decade: Switzerland, Singapore, and the United States have made up the top three in half of all GTCI editions. The United States is the global leader in two pillars: Grow and Vocational and Technical Skills. In terms of growing talent, its world-class universities and business schools contribute to its excellent 2nd place Formal Education and 1st-ranked Lifelong Learning. As for Vocational and Technical Skills, the country's high labour productivity and ease of finding skilled employees translate into 6th-place rankings for both Mid-Level Skills and Employability. The country's weakest pillar (22nd) is Attract, which would benefit both from greater External Openness towards overseas business and talent (where it ranks 24th) and from increased Internal Openness towards domestic human capital (17th), including greater gender equality.

Denmark (4th) drops out of the top three after a year, although its score is only just below that of the United States in 3rd place. This marks the seventh time that the country has ranked among the five most talent-competitive countries. As in previous years, strong performances across all pillars of the GTCI make Denmark an impressive force in talent competition. Its highest-ranked pillars are Enable and Retain (2nd in both), thanks to top-10 performances in all associated sub-pillars. In all remaining pillars, Denmark features in the top 10: it is 7th in Attract, 8th in both Grow and Vocational and Technical Skills, 9th for Global Knowledge Skills. Of particular note is Denmark's high degree of Internal Openness, for which it is ranked 3rd overall, which is primarily due to its merit-based opportunities for upward mobility and strong gender equality. It is also ranked 3rd for providing Access to Growth Opportunities, including through extensive delegation of authority to subordinates.

The Netherlands (5th) achieves its highest-ever rank in the GTCI this year and enters the top five for the first time. As in last year's edition, it ranks higher in the Input-related pillars than in the two Output-related pillars. Its highest rank (4th) is in the Grow pillar, where contributing factors include the high quality of the tertiary education and 4th-place ranking for Formal Education, the extensive training in firms which help place it 7th for Lifelong Learning, and widespread use of virtual networks (it is 4th in Access to Growth Opportunities). The Netherlands also boasts an impressive ability to Enable talent (ranked 5th), with excellent showings in all three related sub-pillars. Its two lowest rankings are for Vocational and Technical Skills and Global Knowledge Skills (12th and 16th respectively). In the case of Vocational and Technical Skills, its 13th place in Employability is offset by its 27th ranking in lower Mid-Level Skills. As for Global Knowledge Skills, its innovation capabilities help push it to 15th in the Talent Impact sub-pillar.

Finland (6th) climbs two positions to 6th, matching its highest ever rank in the GTCI, which it also achieved in 2018 and 2019. In particular, the country stands out for its global leadership position in two sub-pillars: Business and Labour Landscape, and Internal Openness. Combined with a 2nd-placed Regulatory Landscape, the strong Business and Labour Landscape has helped create an excellent ability to Enable talent, and a 3rdplace ranking in this pillar. Internal Openness contributes to Finland's 9th position in the Attract pillar, but is offset by its 28th position in the External Openness towards overseas talent subpillar. Finland is among the top-performing countries for ability to Retain talent and for its pool of Vocational and Technical Skills (4th in both pillars). Key assets include its world-class environmental performance and social welfare system, which contribute to its 3rd position in the Sustainability sub-pillar. In addition, Finland's much-lauded Formal Education system is ranked 7th overall (reflecting its high scores in PISA—the Programme for International Student Assessment). As it is highly relevant to the needs of the economy, it also contributes towards its 8th-place ranking for Employability. However, its 13th position in the Grow pillar could improve with more opportunities for Lifelong Learning (currently 25th).

Norway (7th) retains its position from last year, which is the sixth time that it features in the top 10 in the GTCI (it has been in the top 15 every year). Norway's performance in the Retain

pillar (3rd) is particularly impressive. It is partly driven by wide access to social protection and benefits, which help it achieve 5th position for Sustainability, and high levels of personal rights and safety that place it 3rd in the Lifestyle sub-pillar. Norway also shines in the two Output-related pillars: Vocational and Technical Skills and Global Knowledge Skills, ranking 7th in both. Among the Vocational and Technical Skills sub-pillars, it is placed 5th for Employability, thanks to its ability to match workforce supply and labour market demand. As for Global Knowledge Skills, Norway boasts a strong pool of High-Level Skills, including digital skills (ranked 6th). As in previous years, Norway's lowest pillar ranking (14th) is for Attract, despite its high level (ranked 6th) of Internal Openness. More could be done to encourage a greater inflow of overseas business and talent, which would raise the degree of External Openness, and improve on its current 27th ranking in this sub-pillar.

Australia (8th) has always featured in the top 15 in the GTCl, but this year it climbs one place to 8th, cementing its position in the top 10 for the fifth time since the launch of the index. The country has contrasting performances in the two Outputrelated pillars. On the one hand, its pool of Global Knowledge Skills is its highest-ranked pillar (3rd). This in turn is supported by its highest-ranked sub-pillars: High-Level Skills (2nd) and Talent Impact (4th). On the other hand, Australia's pool of Vocational and Technical Skills is its lowest-ranked pillar (19th). Here there is room to improve performance in the Mid-Level Skills sub-pillar (from 31st) and the Employability sub-pillar (from 18th). As for the Input-pillars, Australia's key assets are its ability to Attract and Grow talent (it is ranked 6th in both), which is driven by a high level of External Openness towards overseas talent (in 10th position), the strength of its higher education (5th for Formal Education), and the possibilities for Lifelong Learning (6th).

Sweden (9th) drops to its lowest position in the GTCI, although it remains a top-10 performer. One of the country's highest-ranked pillars (6th) is Enable, with a particularly strong showing (4th) in the Market Landscape sub-pillar, as a result of a strongly competitive environment and high R&D expenditure. Sweden also benefits from a strong pool of Global Knowledge Skills. Its 6th-place ranking in this pillar is due to its 7th place in the High-Level Skills sub-pillar and 10th place in the Talent Impact sub-pillar. These in turn are driven by its innovative economy and a highly-educated population with strong digital skills. The country also excels in the Retain pillar (7th) although a slide in personal rights and safety has had a negative impact on its ranking in the Lifestyle sub-pillar (now 12th). Sweden's lowestranked pillar (14th) is Grow, where strengthening business education would improve its position (17th) in the Lifelong Learning sub-pillar.

The United Kingdom (10th) retains its position from last year, meaning it has featured in the top 15 every year since the launch of the GTCI and in the top 10 eight times, including this year. It features in the top three (2nd) for its ability to Grow talent, primarily thanks to the impact of its world-class tertiary education and programmes for Formal Education and Lifelong Learning, for which it is ranked 3rd and 2nd, respectively. The United Kingdom also achieves 2nd-place ranking in the Global Knowledge Skills pillar, where its highly innovative and entrepreneurial economy result in a large Talent Impact (also 2nd). However, the impressive level of Global Knowledge Skills stands in stark contrast to the country's comparatively weak position (29th) for Vocational and Technical Skills. There is considerable scope to raise its ranking in the Mid-Level Skills sub-pillar (from 44th), and to boost its 20th position for Employability by better matching workforce supply and labour market demand.

**Luxembourg** (11th) has been in the top 15 since the launch of the GTCI, but this year marks the second time that it falls (just) outside the top 10. As in the previous year, it stands out with its 1st place in the Attract pillar, as well as its superior performance in all five indicators that inform the sub-pillar relating to External Openness towards overseas business and people (also 1st). The country also achieves a top-10 position (9th) in the Retain pillar, where its world-class environmental performance and social welfare contribute to a high (2nd) Sustainability ranking. The main areas in need of improvement relate to the Grow pillar (currently 22nd) and the Vocational and Technical Skills pillar (18th). When it comes to growing talent, Luxembourg is ranked only 39th in the Formal Education sub-pillar because of low tertiary enrolment rates and the level of its universities. As for Vocational and Technical Skills, Luxembourg has room to improve the Employability of domestic talent in the private sector from its current 32nd position.

Ireland (12th) remains in the top 15 in GTCI 2023—climbing one position from last year—which is the sixth time that it has featured in this list of top performers. Ireland's key asset is its ability to Attract talent (ranked 5th), where its 4th-place position for Internal Openness towards minorities and a strong empowerment of women are particular advantages. Ireland also features in the top 10 (10th) in the Grow pillar, which is primarily due to its 7th place for Access to Growth Opportunities and considerable training in firms that encourage Lifelong Learning (10th). The country's weakest position (23rd) is in the Vocational and Technical Skills pillar. Here, boosting the secondary-educated workforce and expanding the number of technicians and associate professionals would go some way to improve the country's 46th position for Mid-Level Skills.

Canada (13th) has featured in the top 15 in every edition of the GTCl, although only twice as a top-10 performer. It features in the top 10 in two pillars: Grow and Attract (ranked 9th and 10th, respectively). In the Grow pillar, the high quality of Canada's business schools and the extensive possibilities for employee development are key factors in securing 8th position in the Lifelong Learning sub-pillar. In the Attract pillar, Canada has a high degree of both External and Internal Openness (ranked 15th and 10th, respectively), including towards talent from overseas. Although the country is a top performer when it comes to matching the skills of people with the needs of the economy, and is 9th in the Employability sub-pillar, its relatively weak ranking (41st) for Mid-Level Skills hampers its pool of Vocational and Technical Skills, such that it is only ranked 16th in this pillar. Canada's greatest challenge lies in strengthening its ability to Retain talent (from 28th), where addressing environmental concerns would boost Sustainability from 19th, while improving personal safety would boost its current 37th position in the Lifestyle sub-pillar.

Germany (14th) remains in the top 15 in the GTCI for the seventh time. The country's performance in the Output-related pillars is a study in contrasts. On the one hand, Germany boasts a strong pool of Vocational and Technical Skills (for which it is ranked 6th), and the high rate of technicians and associate professionals results in it being one of the leaders in Mid-Level Skills (ranked 4th). On the other hand, the country is comparatively weak (23rd) with respect to Global Knowledge Skills. Here there is a need to raise High-Level Skills (from 32nd place) with greater digital skills, among others. In addition to Vocational and Technical Skills, Germany also shines when it comes to retaining talent (in 6th place). This is due in large part to the positive impact that its generous social welfare system has on its ranking for Sustainability (9th position), coupled with the role played by the country's strong personal rights and personal safety in creating a favourable Lifestyle (for which Germany is ranked 8th).

**Iceland** (15th) has featured in the top 15 in the GTCl a total of eight times since the launch of the index. The country's talent competitiveness rests, above all, on its performance in the Output-related pillars. Its impressive and highly ranked (4th) pool of High-Level Skills contributes to an innovative, entrepreneurial economy with considerable Talent Impact (ranked 5th) that ultimately results in extensive Global Knowledge Skills and another 4th-place ranking in this pillar. As for the Vocational and Technical Skills pillar, where Iceland ranks 11th, the country's ability to ensure that workforce supply matches labour market is reflected in its 7th place in the Employability sub-pillar. In the Input-related pillars, high levels of personal safety is a key factor in the country's desirable Lifestyle and strong Sustainability showing (13th and 14th, respectively), which contribute to Iceland's 12th-place showing in the Retain pillar. However, a comparatively weak (37th) Formal Education and relatively few possibilities for Lifelong Learning make Grow Iceland's weakest (23rd) pillar, despite being the country that offers the greatest Access to Growth Opportunities.

#### **ANALYSIS BY INCOME AND REGIONAL GROUPS**

The GTCI's top performers are all high-income countries. In fact, the top quartile of 34 countries features only high-income countries; while Panama at 87th is the only high-income country that is not in the upper half of the rankings. Outside the high-income countries, the highest-ranked country is China, at 40th, which has cemented its status as the GTCI's most talent-competitive country from the upper-middle-income group. Most upper-middleincome countries are ranked in the second and third quartiles (17 and 16 countries, respectively) with Malaysia (42nd) and Georgia (46th) being the top performers from this group after China. The only upper-middle-income country ranked in the bottom quartile is Guatemala, at 104th.

The group of lower-middle-income countries is led by Uzbekistan in 62nd place, Ukraine in 64th, and Jordan, which at 70th position falls into the third quartile (see Table A2). Of the

Table A2 Countries with the highest GTCI scores, by income and regional groups

COMPARISON GROUP	TOP THREE COUNTRIES
By region	
Central and Southern Asia	Uzbekistan, Kazakhstan, Kyrgyzstan
Eastern, Southeastern Asia and	Singapore, Australia, New Zealand
Oceania	
Europe	Switzerland, Denmark, Netherlands
Latin America and the Caribbean	Chile, Uruguay, Costa Rica
Northern Africa and Western Asia	United Arab Emirates, Israel, Cyprus
Northern America	United States, Canada
Sub-Saharan Africa	Mauritius, South Africa, Botswana
By income group	
High-income countries	Switzerland, Singapore, United States
Upper-middle-income countries	China, Malaysia, Georgia
Lower-middle-income countries	Uzbekistan, Ukraine, Jordan
Low-income countries	Gambia, Rwanda, Uganda

remaining lower-middle-income countries, 15 are found in the third quartile alongside Jordan and 21 are in the bottom quartile. As for the low-income countries, all but one are ranked in the bottom quartile in GTCI 2023. The exception is Gambia, which at 97th position falls into the third quartile.

Northern America consists of only two countries—the United States and Canada—both of which feature in the top 15 in the GTCI 2023. Otherwise, the best-performing countries in the rankings are predominantly in Europe, home to 23 countries out of 34 in the top quartile. Europe is a heterogeneous region, however, and there are several economies further down the rankings: 14 are in the second quartile and two in the third quartile.

Countries in the Eastern, Southeastern Asia and Oceania region also show performances that range from the top to the bottom quartile. More specifically, five countries are in the top quartile, three are in the second quartile, six are in the third quartile, and one is placed in the bottom quartile.

The United Arab Emirates (22nd), Israel (25th), and Cyprus (30th) are the three countries from the Northern Africa and Western Asia region that make it into the top quartile. An additional eight countries, all from Western Asia, feature in the second quartile, while six countries are ranked in the third quartile and one country is in the bottom quartile.

Latin America and the Caribbean has one country in the top quartile—Chile, which is ranked 34th. Five countries from this region are in the second quartile, but most (ten) are in the third quartile. Three countries in Latin America and the Caribbean are in the bottom quartile.

As to Central and Southern Asia, two countries from this region feature in the upper half of the rankings: Uzbekistan in 62nd position globally, and Kazakhstan at 67th. A further two are ranked in the third quartile, while five are in the bottom quartile.

The worst-performing region, Sub-Saharan Africa, is also the one that is home to the highest proportion of countries in the bottom quartile: 23 out of 32. However, eight Sub-Saharan African countries are ranked in the third quartile, while one country—Mauritius (49th)—makes it into the second quartile.

#### **Income Groups**

The dominance of high-income countries in the overall GTCI rankings can also be seen at the pillar level. A cursory glance at Figure A4, which depicts the average score of each income group in each pillar, makes this clear. As can be seen, the average scores of the high-income group in the six pillars are considerably higher than the corresponding scores of other income groups.

One interesting observation from the chart is that the ability to Retain talent is especially strong in both high-income and upper-middle-income countries. Not only are the average scores of these two income groups in the Retain pillar notably greater than their scores in the other pillars (which is, in part, due to methodological differences between the pillars), but the gap between the two higher income groups and the two lower income groups are particularly pronounced in the Retain pillar. This is not surprising, however: strong performances in the two sub-pillars related to the Retain pillar—Sustainability and Lifestyle—can reasonably be expected to be closely associated with higher-income countries in particular.

One aspect of talent competitiveness highlighted in the GTCI over the past decade is its complementarity, with the six pillars mutually reinforcing, or mutually undermining, one another, despite measuring distinct facets of talent competitiveness. This was seen above in the heatmap in Figure A3 and a quick glance at the best-performing countries in each income group (Tables A3a-A3d) adds weight to the hypothesis that a large degree of synergy exists across pillars.

Switzerland, a top performer in all pillars, is the prime example as discussed above. But similar illustrations of complementarity across pillars can also be seen in other income groups. The highest-ranked upper-middle-income country, China, is also the leading country from its income group in two pillars and features in the top 10 in a further two. Uzbekistan, the top-ranking country in the lower-middle-income group, is also a top-10 performer among its income group in five of the six pillars. Gambia, the best-performing low-income country, heads its income group in three pillars and is placed second in another two.

Turning to specific income groups, 44 of the 49 high-income countries are in the GTCI 2023 top 50. The best-performing highincome countries are analysed in the section above discussing the top 15 countries. The high-income countries at the other end of the scale are Romania (ranked 54th globally), Oman (59th), **Trinidad and Tobago** (60th), **Kuwait** (63rd), and **Panama** (87th). At the pillar level, all five are positioned in the upper half of the Retain pillar, although most of them tend to lag behind in the Global Knowledge Skills pillar, where four of the five are placed in the lower half the rankings.

China, which is ranked 40th overall is, for the second year running, the top-performing upper-middle-income country in the GTCI. This signifies considerable progress since the first edition of the GTCI, in which China achieved a rank of 8th within its

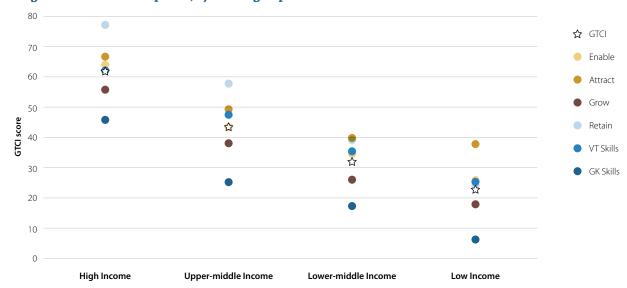


Figure A4 Average scores in individual pillars, by income group

Note: The figure shows the average scores for each pillar of all countries within each group. GK Skills = Global Knowledge Skills; VT Skills = Vocational and Technical Skills. The figure shows the average scores for each pillar of all countries within each group. GK Skills = Global Knowledge Skills; VT Skills = Vocational and Technical Skills. The figure shows the average scores for each pillar of all countries within each group. GK Skills = Global Knowledge Skills; VT Skills = Vocational and Technical Skills. The figure shows the average scores for each pillar of all countries within each group. GK Skills = Global Knowledge Skills = Vocational and Technical Skills. The figure shows the average scores for each pillar of all countries within each group. The figure shows the average scores for each pillar of all countries within each group. The figure shows the average scores for each pillar of all countries within each group. The figure shows the average scores for each pillar of all countries within each group. The figure shows the average scores for each pillar of all countries within each group. The figure shows the average scores for each pillar of all countries within each group. The figure shows the average scores for each pillar of all countries within each group. The figure shows the average scores for each pillar of all countries within each group. The figure shows the average scores for each pillar of all countries within each group. The figure shows the average scores for each group within each group with

income group, and 47th of the 103 countries under consideration in 2013. One of the important factors behind China's progress in talent competitiveness over the past decade is its ability to Grow talent, which is reflected in its 15th position in this pillar, thanks to excellent performance (9th, globally) in the Formal Education sub-pillar, as reflected in its world-class universities, and extensive opportunities for Lifelong Learning (5th), including prevalent in-firm training. China is the global leader in matching the skills of people with the needs of the economy, leading to the top spot in the Employability sub-pillar. But its position (47th) in the associated Vocational and Technical Skills pillar is hampered by a low performance (95th) in the Mid-Level Skills sub-pillar, which includes a disappointing level of labour productivity. China's 91st position in the Attract pillar remains its Achilles' heel. The main challenge here is to increase the level of External Openness towards foreign businesses and people—for which is it currently ranked 100th.

China remains the leading member of the group of BRICS countries (Brazil, Russia, India, China, and South Africa). It is followed by the Russian Federation, which is currently ranked 52nd, and which has floated around 50th position in most GTCI editions. Some caution should be made when interpreting the latest results, however, since the index relies in part on data that stems from before the Russian invasion of Ukraine. Its greatest strength is the ability to Grow talent. Its 31st ranking in this pillar is primarily boosted by widespread Access to Growth Opportunities (22nd) and good Formal Education (28th), including at the tertiary level. This contributes, in turn, to a well-educated workforce (with a rank of 36th in the High-Level Skills sub-pillar), which, ultimately, results in a solid pool of Global Knowledge Skills (ranked 41st). The biggest challenge continues to be Russia's ability to Attract talent. It is ranked 84th in this pillar, hampered

by poor performance in both the External and Internal Openness sub-pillars (83rd and 76th, respectively). Russia's weakest subpillar, however, is its Regulatory Landscape (107th), which has a dampening effect on its performance (78th) in the Enable pillar.

Ranked 68th overall, **South Africa** is just outside the upper half of the GTCI 2023 rankings, which has frequently been the case in the past decade. The country makes it into the top quartile (29th) in the Business and Labour Landscape sub-pillar, which is due, in no small part, to the comparatively high level of technology adoption among its business sector. This boosts South Africa's ability to Enable talent, for which it is ranked 57th. Its highest-position (53rd), however, is in the Attract pillar, where a fairly liberal foreign direct investment (FDI) regime and progress in gender equality contribute to a robust performances in both External and Internal Openness (60th and 55th, respectively). The one area that drags down South Africa's overall ranking in the GTCI 2023 is its weak pool of Vocational and Technical Skills (ranked 93rd), where improving the Employability of domestic talent and rising from its current ranking (131st of 134) is a priority. This would include making the education system more relevant to the economy.

Just below South Africa, Brazil is ranked 69th, which represents ongoing progress over recent years towards the median position in the GTCI rankings. Brazil makes it into the upper half of the rankings in two pillars: Grow (60th) and Enable (61st). Its position in the Grow pillar is mainly due to the comparatively strong performance (47th) in the Access to Growth Opportunities sub-pillar, which are facilitated by collaboration through virtual networks, among others. In the Enable pillar, Brazil's position is primarily supported by its performance (31st) as a conducive Market Landscape, which is facilitated in turn by a solid ICT infrastructure. Brazil's weakest pillar, meanwhile, is

Table A3a Best performers by income group: High-income countries (49 countries)

GTCI	ENABLE	ATTRACT	GROW	RETAIN	VOCATIONAL AND TECHNICAL SKILLS	GLOBAL KNOWLEDGE
Switzerland (1)	Switzerland (1)	Luxembourg (1)	United States (1)	Switzerland (1)	United States (1)	Singapore (1)
Singapore (2)	Denmark (2)	Singapore (2)	United Kingdom (2)	Denmark (2)	Switzerland (2)	United Kingdom (2)
United States (3)	Finland (3)	Switzerland (3)	Singapore (3)	Norway (3)	Singapore (3)	Australia (3)
Denmark (4)	United States (4)	UAE (4)	Netherlands (4)	Finland (4)	Finland (4)	Iceland (4)
Netherlands (5)	Netherlands (5)	Ireland (5)	Switzerland (5)	Austria (5)	Austria (5)	United States (5)
Finland (6)	Sweden (6)	Australia (6)	Australia (6)	Germany (6)	Germany (6)	Sweden (6)
Norway (7)	Singapore (7)	Denmark (7)	France (7)	Sweden (7)	Norway (7)	Norway (7)
Australia (8)	Norway (8)	Netherlands (8)	Denmark (8)	Malta (8)	Denmark (8)	South Korea (8)
Sweden (9)	Japan (9)	Finland (9)	Canada (9)	Luxembourg (9)	Czech Republic (9)	Denmark (9)
United Kingdom (10)	Germany (10)	Canada (10)	Ireland (10)	Netherlands (10)	Sweden (10)	Switzerland (10)

Note: Numbers in parentheses refer to global rankings.

Attract—where it ranks 88th. Although the country's degree of Internal Openness is one of its best-performing (49th) sub-pillars, partly because of strides made towards greater gender equality, External Openness is its worst performing (106th)—giving Brazil particular scope to become a much stronger magnet for foreign talent

**India** remains the lowest-ranked BRICS member at 103rd. In the years to 2020, India saw its talent competitiveness increase, but it has regressed in each of the three years since. A major reason for this fall in GTCI rankings is a slump in business sentiment, which has had a detrimental effect on the ability to Attract talent (now ranked 132nd of 134)—whether that is talent from overseas (127th in External Openness sub-pillar) or from within the country (129th in Internal Openness). This has also led to an increased skills mismatch, and a greater difficulty in finding

skilled employees, pushing India to 121st in both the Employability sub-pillar and the Vocational and Technical Skills pillar. Meanwhile, Global Knowledge Skills, the second of the Output-related pillars, is India's best-performing area, where innovation and software development are driving its 69th position in the Talent Impact sub-pillar. The country also has a comparative strength in the Grow pillar (90th), which can primarily be attributed to the impact of the country's tertiary education and programmes for Formal Education and Lifelong Learning—ranked 64th and 66th respectively.

Returning to the best-performing countries in the uppermiddle-income group, Malaysia (42nd globally) follows China as the most talent-competitive country in this income group. The country does well in the two Output-related pillars: it makes it into the top quartile (34th) for Global Knowledge Skills, which is

Table A3b Best performers by income group: Upper-middle-income countries (34 countries)

GTCI	ENABLE	ATTRACT	GROW	RETAIN	VOCATIONAL AND TECHNICAL SKILLS	GLOBAL KNOWLEDGE
China (40)	China (31)	Costa Rica (28)	China (15)	Bulgaria (39)	Azerbaijan (15)	Kazakhstan (30)
Malaysia (42)	Malaysia (35)	Montenegro (33)	Russia (31)	Mauritius (41)	Georgia (36)	Malaysia (34)
Georgia (46)	Botswana (38)	Mauritius (37)	Costa Rica (38)	Montenegro (42)	Malaysia (38)	Russia (41)
Costa Rica (47)	Mauritius (39)	Georgia (38)	Mexico (41)	Armenia (44)	Belarus (40)	China (43)
Bulgaria (49)	Costa Rica (40)	Armenia (41)	Argentina (42)	Georgia (45)	Serbia (41)	Belarus (44)
Montenegro (50)	Georgia (47)	Azerbaijan (45)	Malaysia (44)	Belarus (47)	Montenegro (42)	Bulgaria (47)
Mauritius (51)	Jamaica (50)	Serbia (48)	Colombia (45)	Argentina (48)	Russia (43)	Montenegro (49)
Russia (52)	Bulgaria (52)	Albania (50)	Peru (48)	Albania (51)	China (47)	Serbia (51)
Serbia (53)	Albania (55)	South Africa (53)	Türkiye (50)	Costa Rica (52)	Bulgaria (50)	Armenia (53)
Armenia (55)	South Africa (57)	Jamaica (55)	Albania (54)	Kazakhstan (54)	Mauritius (52)	Botswana (55)

Note: Numbers in parentheses refer to global rankings.

Table A3c Best performers by income group: Lower-middle-income countries (39 countries)

GTCI	ENABLE	ATTRACT	GROW	RETAIN	VOCATIONAL AND TECHNICAL SKILLS	GLOBAL KNOWLEDGE
Uzbekistan (62)	Jordan (45)	Kyrgyzstan (52)	Philippines (49)	Ukraine (50)	Uzbekistan (31)	Lebanon (46)
Ukraine (64)	Cabo Verde (53)	Ukraine (57)	Viet Nam (55)	Uzbekistan (53)	Sri Lanka (53)	Mongolia (48)
Jordan (70)	Viet Nam (59)	Zambia (62)	Bolivia (59)	Jordan (61)	Egypt (55)	Ukraine (50)
Viet Nam (75)	Ghana (66)	Uzbekistan (65)	Lebanon (66)	Cabo Verde (70)	Lebanon (70)	Nigeria (52)
Mongolia (76)	Mongolia (72)	Mongolia (69)	Ukraine (68)	Mongolia (73)	Viet Nam (71)	Philippines (54)
Lebanon (77)	Sri Lanka (73)	Viet Nam (72)	Mongolia (73)	Tunisia (75)	Kyrgyzstan (72)	Tunisia (59)
Cabo Verde (78)	Benin (74)	Cabo Verde (75)	Egypt (75)	Kyrgyzstan (76)	Cabo Verde (76)	Uzbekistan (64)
Philippines (84)	Ukraine (75)	Jordan (77)	Honduras (83)	Sri Lanka (85)	Ukraine (77)	Viet Nam (71)
Kyrgyzstan (86)	Uzbekistan (76)	Benin (78)	Jordan (85)	Lebanon (89)	Jordan (78)	Cabo Verde (73)
Egypt (88)	Tunisia (77)	Lebanon (79)	Sri Lanka (87)	Algeria (90)	Mauritania (84)	Iran (78)

Note: Numbers in parentheses refer to global rankings.

boosted by its 27th position for the Talent Impact of its exportdriven economy; and it enjoys a robust 38th-ranked pool of Vocational and Technical Skills. Malaysia's lowest-ranked pillar (71st) is Attract, which could be improved by encouraging greater tolerance towards immigrants and fostering greater gender equality. This would go a long way to raise the level of Internal Openness from its current 98th place.

**Georgia** is the third-best upper-middle-income country and achieves its highest ranking in the GTCI 2023 after five years of steady improvement—and is now in 46th position. Its best pillar-level performance (36th) is in Vocational and Technical Skills, which can be attributed to a good performance (also 36th) in the Mid-Level Skills sub-pillar, and the comparatively strong (39th) Employability of its population—reflecting low levels of skills mismatch and an education system that is relevant to the needs

of the economy. Georgia's lowest showing at the pillar level is 71st for Grow, where there is particular scope to strengthen tertiary education and programmes in order to lift Formal Education from 91st position and Lifelong Learning from 71st.

Uzbekistan marks its first entry in the GTCI as the topperforming country in the lower-middle-income group. It has a strong performance (31st) in the Vocational and Technical Skills pillar, where the extensive pool of a secondary-educated workforce and the relevance of the education system to the needs of the economy render Mid-Level Skills and Employability the country's top-ranked sub-pillars (39th and 27th, respectively). The country's weakest performance in an individual pillar (100th) relates to growing talent. Here efforts should primarily be made to: encourage greater use of virtual social and professional networks, which would help boost Access to Growth Opportunities

Table A3d Best performers by income group: Low-income countries (12 countries)

GTCI	ENABLE	ATTRACT	GROW	RETAIN	VOCATIONAL AND TECHNICAL SKILLS	GLOBAL KNOWLEDGE
Gambia (97)	Rwanda (84)	Gambia (46)	Gambia (98)	Gambia (103)	Uganda (102)	Rwanda (114)
Rwanda (110)	Gambia (101)	Rwanda (87)	Burundi (108)	Malawi (112)	Burundi (106)	Gambia (119)
Uganda (119)	Mali (110)	Burkina Faso (96)	Rwanda (113)	Rwanda (113)	Malawi (108)	Uganda (120)
Malawi (120)	Malawi (115)	Uganda (97)	Uganda (114)	Mozambique (115)	Gambia (114)	Ethiopia (121)
Burundi (124)	Uganda (118)	Burundi (103)	Madagascar (117)	Mali (121)	Madagascar (119)	DR Congo (123)
Madagascar (125)	Burkina Faso (123)	Malawi (109)	Ethiopia (121)	Burkina Faso (124)	Rwanda (126)	Madagascar (124)
Mali (127)	Madagascar (124)	Madagascar (113)	Malawi (125)	Madagascar (127)	Chad (127)	Burkina Faso (125)
Burkina Faso (129)	Mozambique (126)	Mozambique (114)	Mali (127)	Ethiopia (128)	Ethiopia (129)	Malawi (129)
Mozambique (131)	Burundi (131)	Mali (123)	DR Congo (130)	Burundi (129)	DR Congo (130)	Mozambique (131)
Ethiopia (132)	Ethiopia (132)	DR Congo (128)	Mozambique (132)	Uganda (131)	Mali (131)	Mali (132)

Note: Numbers in parentheses refer to global rankings.

from Georgia's current 115th position; and expand in-firm trainings to stimulate Lifelong Learning (currently ranked at 94th).

The inclusion of Uzbekistan in this year's GTCI means that Ukraine, which topped the lower-middle-income group last year, is now ranked 64th globally and in 2nd place in its income group. It should, however, be noted that a large share of the data used for the computation of the index predates the Russian invasion of Ukraine. The country's talent competitiveness in the course of the GTCI is a story of steady progress, which has placed it in the upper half of the rankings in the past five years. A strong performance (now at 50th) in the Global Knowledge Skills pillar has been a constant throughout the first ten years of the GTCI, this has been aided by the impact that tertiary education has had on performance (45th) in the High-Level Skills sub-pillar. Although firms in Ukraine tend to be active in adopting technology such as software and cloud computing, which has helped it achieve 39th position in the Business and Labour Landscape sub-pillar, the country's ability in the Enable pillar (75th) is hampered by an underwhelming Regulatory Landscape (106th). Its position in this sub-pillar and related pillar would improve with strong rule of law and less corruption.

Jordan ranks 3rd among the lower-middle-income countries and is the top performer within this income group (45th globally) in the Enable pillar. Above all, it benefits from a business-friendly Market Landscape and a Business and Labour Landscape that is characterised by a solid labour market and good management practice—and ranks 28th and 40th in these subpillars respectively. The country's main challenge is to improve its ability to Grow talent (currently 85th) through greater investment in tertiary education, which would strengthen its position (currently 93rd) in the Formal Education sub-pillar. Facilitating more in-firm training would also boost its position (currently 64th) in the Lifelong Learning sub-pillar.

The group of low-income countries is headed by **Gambia**. Ranked 97th overall, Gambia has now made it into the third guartile in the five most recent editions of the GTCI. Of particular note is the country's ability to Attract talent, which has ranked it at 46th for this pillar. This is largely due to its high tolerance towards minorities and immigrants, which has resulted in a high degree of Internal Openness and, especially, External Openness, and it is ranked 72nd and 36th in these sub-pillars respectively. However, there is room to attract more foreign investment and improve gender equality. Gambia's greatest challenge is to improve its performance in the two Output-related pillars: Vocational and Technical Skills (114th) and Global Knowledge Skills (119th). In the Vocational and Technical Skills pillar, Gambia could address its skills gaps and improve its 120th position in the Employability sub-pillar. For Global Knowledge Skills, the focus should be on expanding tertiary education, to improve on its 118th ranking in the High-Level Skills sub-pillar.

**Rwanda** follows Gambia in the low-income group, and has found itself in the lowest quartile since GTCI 2021. It too has relative weaknesses in the Output-related pillars. A higher share of technicians and associate professionals would raise Vocational and Technical Skills from its current position (126th), while greater investment in tertiary education would boost its Global Knowledge Skills position (currently 114th), and would have a positive impact on its ability to Grow talent (currently 113th). Rwanda performs comparatively well in both the Enable and Attract pillars (84th and 87th, respectively), which can be traced to its aboveaverage Regulatory Landscape (ranked 53rd globally) and to its high level of Internal Openness (73rd), especially in terms of economic empowerment and leadership opportunities for women.

Uganda is the third-highest-ranking country in the lowincome group, and has been firmly placed in the bottom quartile since the first GTCI edition in 2013. It makes it to the third quartile in only one pillar: its ability to Attract talent earns it the 97th spot in the rankings. This is primarily due to its approach to foreign talent, which earns it a comparatively high placement (82nd) in the External Openness sub-pillar. However, there is considerable scope to raise Internal Openness from 110th, by promoting greater social inclusion and improving gender equality. Uganda's lowest global ranking (131st) is in the Retain pillar, as it sits at the very bottom (134th) with respect to Lifestyle, where efforts are needed in all indicators: personal rights, personal safety, physician density, and sanitation.

#### **Regional Groups**

As shown in Figure A1, inter-regional performance in the GTCI can diverge significantly. No surprises there, since the proportion of countries from each of the four income groups can vary within regions, and there is a strong positive correlation between GTCI score and income level. For example, the two regions with the highest share of high-income countries—Northern America and Europe—generally have greater talent competitiveness than other regions. Conversely, Sub-Saharan Africa—the only region in the GTCI that includes low-income countries—lags behind all other regions.

Figure A5 shows that this association also holds for individual pillars. Reflecting their performances overall, Northern America and Europe have higher average scores than the other regions in all six pillars. The relative positions of the remaining regions also mirror their overall GTCI rankings. As a result, Eastern, Southeastern Asia and Oceania is usually the third-best-performing region in the six pillars and is followed, in descending order, by Northern Africa and Western Asia; Latin America and the Caribbean; Central and Southern Asia; and Sub-Saharan Africa.

There are a few notable exceptions, however. On average, Sub-Saharan Africa outscores Central and Southern Asia with respect to attracting talent, both in terms of External Openness and, especially, Internal Openness. The Northern Africa and Western Asia region has the edge over Eastern, Southeastern Asia and Oceania in the Vocational and Technical Skills pillar by virtue of superior Mid-Level Skills—although Eastern, Southeastern Asia and Oceania does have a higher degree of Employability. Finally, Central and Southern Asia is slightly ahead of Latin America and the Caribbean when it comes to Global Knowledge Skills as a result of more extensive High-Level Skills. The reverse is true when it comes to Talent Impact, however.

Table A4 lists the top 10 performers by region. The remainder of this section looks at each in turn, with a focus on the topranked countries in each group.

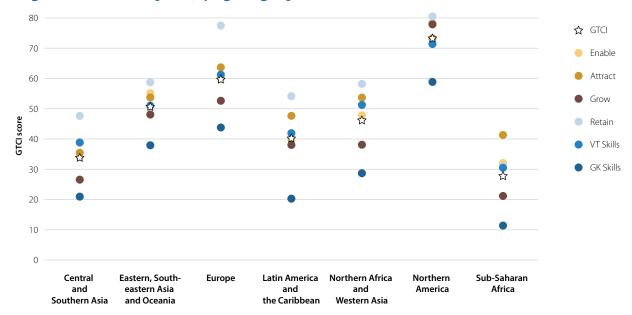


Figure A5 Average scores in individual pillars, by regional group

Note: The figure shows the average scores for each pillar of all countries within each group. GK Skills = Global Knowledge Skills; VT Skills = Vocational and Technical Skills.

Central and Southern Asia (nine countries): eight countries in this region are classified as belonging to the lowermiddle-income group, with only one belonging to the uppermiddle-income category. Contrary to expectations, it is a country from the lower-middle-income group that is the region's best performer. **Uzbekistan**, with an overall global ranking of 62nd. As discussed above, Uzbekistan performs particularly well in the Vocational and Technical Skills pillar (31st), whereas its key challenge is strengthening its ability to Grow talent (currently 100th). The region's sole country in the upper-middle-income group— **Kazakhstan** (67th overall)—is the next best performer. It finds itself just inside the upper half of the GTCI rankings for the ninth time in ten years. The country has contrasting performances in the two Output-related pillars. On the one hand, it is in the top quartile in the Global Knowledge Skills pillar in 30th position, which is mainly due to an extensive pool of High-Level Skills (14th) that can be traced to a large share of tertiary-educated employees and professionals in its labour force. On the other, Kazakhstan is not fully able to realise the potential of its domestic talent, which is reflected in a skills mismatch and wide skills gaps that lead to poor Employability (132nd) and, in turn, low Vocational and Technical Skills (122nd). **Kyrgyzstan** is positioned third in the region at 86th, having enjoyed steady progress in talent competitiveness over the past few years—although its GTCl 2023 rank is slightly lower than that achieved last year. It features in the upper half of the global rankings (52nd) with respect to its ability to Attract talent, which can be primarily attributed to the degree of External Openness (41st) towards foreign talent. The country's weakest pillars are Enable and Grow talent, ranked 112th and 105th respectively. Its ability to Enable talent is weighed down by an unfavourable Regulatory Landscape and Market Landscape (112th and 117th, respectively). Growing talent is primarily held back by discouraging levels of Formal Education

(111th) and Lifelong Learning (107th), which would improve with greater investment in tertiary education and more extensive employee development.

Eastern, Southeastern Asia and Oceania (15 countries): this is one of the more heterogeneous regions in the GTCI, with six high-income countries, four upper-middle-income countries, and five lower-middle-income countries. Two of the countries— Singapore (2nd) and Australia (8th)—feature in the top 15 and have been discussed above. Within the region, they are followed by New Zealand, which is ranked 18th globally, and which has been a top 15 performer in five GTCI editions over the past decade. New Zealand has clear strengths in three pillars: Enable (11th), Attract (12th), and Global Knowledge Skills (11th). In terms of enabling talent, it boasts an enviable Regulatory Landscape (4th overall) that is high on political stability and low on corruption. As for attracting talent, it enjoys a high level (7th) of Internal Openness, which is marked by considerable social inclusion and mobility and by strong economic empowerment of women. As for Global Knowledge Skills, it is in the top 10 in terms of Talent Impact (8th), which can be traced to high levels of entrepreneurship and R&D activity, among others. Vocational and Technical Skills (currently 57th globally) remain the main weakness in New Zealand's talent competitiveness, where ease of finding skilled employees is a particular concern in the Employability of talent (87th globally), although this is expected to improve following the end of COVID restrictions. Ranked 24th globally, the Republic of Korea (South Korea), enters the top 25 of the GTCI for the first time. This rise in the rankings is mainly due to an improvement in what was already the country's strongest pillar: Global Knowledge Skills (now in 8th position overall). Above all, its innovative economy has resulted in a significant Talent Impact, for which it is ranked 3rd. South Korea also has an impressive and conducive Market Landscape (9th) and solid Regulatory

Table A4 Ten best performers, by regional group (overall GTCI rank)

GTCI	ENABLE	ATTRACT	GROW	RETAIN	VOCATIONAL AND TECHNICAL SKILLS	GLOBAL KNOWLEDGE			
Central and Southern Asia (9 countries)									
Uzbekistan (62)	Sri Lanka (73)	Kyrgyzstan (52)	Kazakhstan (70)	Uzbekistan (53)	Uzbekistan (31)	Kazakhstan (30)			
Kazakhstan (67)	Uzbekistan (76)	Kazakhstan (56)	Sri Lanka (87)	Kazakhstan (54)	Sri Lanka (53)	Uzbekistan (64)			
Kyrgyzstan (86)	India (92)	Uzbekistan (65)	India (90)	Kyrgyzstan (76)	Kyrgyzstan (72)	Iran (78)			
Sri Lanka (90)	Kazakhstan (93)	Sri Lanka (122)	Iran (96)	Sri Lanka (85)	Nepal (94)	Kyrgyzstan (81)			
India (103)	Pakistan (111)	Nepal (124)	Pakistan (99)	Nepal (94)	Iran (97)	India (83)			
Nepal (107)	Kyrgyzstan (112)	Pakistan (125)	Uzbekistan (100)	India (99)	Pakistan (109)	Sri Lanka (96)			
Pakistan (109)	Iran (114)	Bangladesh (131)	Kyrgyzstan (105)	Iran (104)	Bangladesh (113)	Nepal (103)			
Iran (116)	Nepal (116)	India (132)	Nepal (120)	Pakistan (105)	India (121)	Pakistan (107)			
Bangladesh (123)	Bangladesh (117)	Iran (134)	Bangladesh (124)	Bangladesh (109)	Kazakhstan (122)	Bangladesh (109)			
		Eastern, Southe	astern Asia and Ocean	ia (15 countries)					
Singapore (2)	Singapore (7)	Singapore (2)	Singapore (3)	Australia (14)	Singapore (3)	Singapore (1)			
Australia (8)	Japan (9)	Australia (6)	Australia (6)	New Zealand (22)	Australia (19)	Australia (3)			
New Zealand (18)	New Zealand (11)	New Zealand (12)	China (15)	Japan (23)	Brunei Darussalam (26)	South Korea (8)			
South Korea (24)	Australia (15)	Japan (42)	New Zealand (20)	South Korea (29)	South Korea (27)	New Zealand (11)			
Japan (26)	South Korea (21)	Brunei Darussalam (54)	Japan (21)	Singapore (38)	Malaysia (38)	Japan (33)			
China (40)	China (31)	South Korea (59)	South Korea (28)	Brunei Darussalam (49)	Japan (39)	Malaysia (34)			
Brunei Darussalam (41)	Malaysia (35)	Mongolia (69)	Malaysia (44)	Malaysia (66)	China (47)	China (43)			
Malaysia (42)	Brunei Darussalam (51)	Malaysia (71)	Brunei Darussalam (46)	Mongolia (73)	New Zealand (57)	Brunei Darussalam (45)			
Viet Nam (75)	Indonesia (58)	Viet Nam (72)	Philippines (49)	China (74)	Indonesia (65)	Mongolia (48)			
Mongolia (76)	Viet Nam (59)	Cambodia (85)	Viet Nam (55)	Thailand (83)	Viet Nam (71)	Philippines (54)			
			Europe (39 countries)						
Switzerland (1)	Switzerland (1)	Luxembourg (1)	United Kingdom (2)	Switzerland (1)	Switzerland (2)	United Kingdom (2)			
Denmark (4)	Denmark (2)	Switzerland (3)	Netherlands (4)	Denmark (2)	Finland (4)	Iceland (4)			
Netherlands (5)	Finland (3)	Ireland (5)	Switzerland (5)	Norway (3)	Austria (5)	Sweden (6)			
Finland (6)	Netherlands (5)	Denmark (7)	France (7)	Finland (4)	Germany (6)	Norway (7)			
Norway (7)	Sweden (6)	Netherlands (8)	Denmark (8)	Austria (5)	Norway (7)	Denmark (9)			
Sweden (9)	Norway (8)	Finland (9)	Ireland (10)	Germany (6)	Denmark (8)	Switzerland (10)			
United Kingdom (10)	Germany (10)	Sweden (11)	Belgium (11)	Sweden (7)	Czech Republic (9)	Luxembourg (12)			
Luxembourg (11)	United Kingdom (12)	United Kingdom (13)	Norway (12)	Malta (8)	Sweden (10)	Estonia (13)			
Ireland (12)	Luxembourg (13)	Norway (14)	Finland (13)	Luxembourg (9)	Iceland (11)	Ireland (15)			
Germany (14)	Austria (14)	Germany (15)	Sweden (14)	Netherlands (10)	Netherlands (12)	Netherlands (16)			

(continued on next page)

Table A4 (continued) Ten best performers, by regional group (overall GTCI rank)

GTCI	ENABLE	ATTRACT	GROW	RETAIN	VOCATIONAL AND TECHNICAL SKILLS	GLOBAL KNOWLEDGE				
	Latin America and the Caribbean (19 countries)									
Chile (34)	Uruguay (34)	Costa Rica (28)	Uruguay (34)	Chile (34)	Trinidad and Tobago (35)	Chile (42)				
Uruguay (43)	Chile (37)	Chile (34)	Chile (35)	Uruguay (36)	Chile (44)	Colombia (66)				
Costa Rica (47)	Costa Rica (40)	Uruguay (36)	Costa Rica (38)	Trinidad and Tobago (46)	Jamaica (58)	Brazil (69)				
Trinidad and Tobago (60)	Jamaica (50)	Trinidad and Tobago (49)	Mexico (41)	Argentina (48)	Argentina (67)	Mexico (72)				
Argentina (61)	Brazil (61)	Jamaica (55)	Argentina (42)	Costa Rica (52)	Costa Rica (68)	Costa Rica (74)				
Jamaica (66)	Dominican Rep. (64)	Paraguay (58)	Colombia (45)	Panama (63)	Uruguay (69)	Argentina (75)				
Brazil (69)	Colombia (71)	Argentina (63)	Peru (48)	Mexico (65)	Colombia (73)	Uruguay (76)				
Colombia (72)	Mexico (81)	Dominican Rep. (67)	Ecuador (57)	Paraguay (67)	Brazil (74)	Jamaica (79)				
Mexico (74)	Peru (83)	Peru (68)	Bolivia (59)	Brazil (68)	Mexico (79)	Trinidad and Tobago (84)				
Peru (82)	Trinidad and Tobago (85)	Colombia (70)	Brazil (60)	Ecuador (78)	El Salvador (82)	Peru (86)				
		Northern Afr	ica and Western Asia (	18 countries)						
UAE (22)	UAE (23)	UAE (4)	UAE (17)	Cyprus (16)	Israel (13)	Israel (14)				
Israel (25)	Israel (24)	Cyprus (21)	Bahrain (30)	Israel (25)	Azerbaijan (15)	Cyprus (22)				
Cyprus (30)	Qatar (28)	Qatar (23)	Qatar (32)	Armenia (44)	Saudi Arabia (20)	UAE (32)				
Qatar (35)	Cyprus (41)	Bahrain (29)	Israel (43)	Georgia (45)	Qatar (21)	Lebanon (46)				
Bahrain (44)	Jordan (45)	Kuwait (30)	Cyprus (47)	UAE (59)	UAE (28)	Armenia (53)				
Georgia (46)	Bahrain (46)	Georgia (38)	Türkiye (50)	Kuwait (60)	Georgia (36)	Saudi Arabia (57)				
Saudi Arabia (48)	Georgia (47)	Saudi Arabia (39)	Saudi Arabia (53)	Jordan (61)	Cyprus (37)	Tunisia (59)				
Armenia (55)	Saudi Arabia (48)	Armenia (41)	Oman (56)	Azerbaijan (62)	Armenia (54)	Georgia (60)				
Azerbaijan (58)	Oman (49)	Israel (44)	Lebanon (66)	Oman (64)	Egypt (55)	Türkiye (61)				
Oman (59)	Kuwait (60)	Azerbaijan (45)	Georgia (71)	Bahrain (69)	Bahrain (56)	Bahrain (63)				
		Nort	hern America (2 count	ries)						
United States (3)	United States (4)	Canada (10)	United States (1)	United States (15)	United States (1)	United States (5)				
Canada (13)	Canada (16)	United States (22)	Canada (9)	Canada (28)	Canada (16)	Canada (18)				
		Sub-S	aharan Africa (32 cour	ntries)						
Mauritius (51)	Botswana (38)	Mauritius (37)	South Africa (69)	Mauritius (41)	Mauritius (52)	Nigeria (52)				
South Africa (68)	Mauritius (39)	Gambia (46)	Mauritius (78)	Cabo Verde (70)	Cabo Verde (76)	Botswana (55)				
Botswana (73)	Cabo Verde (53)	South Africa (53)	Namibia (89)	Botswana (72)	Mauritania (84)	South Africa (58)				
Cabo Verde (78)	South Africa (57)	Zambia (62)	Kenya (92)	South Africa (82)	Zimbabwe (87)	Cabo Verde (73)				
Namibia (93)	Ghana (66)	Namibia (64)	Botswana (93)	Namibia (87)	Ghana (88)	Mauritius (77)				
Ghana (95)	Namibia (68)	Cabo Verde (75)	Ghana (95)	Lesotho (96)	Benin (89)	Kenya (94)				
Gambia (97)	Benin (74)	Benin (78)	Gambia (98)	Gambia (103)	Kenya (90)	Eswatini (101)				
Kenya (98)	Rwanda (84)	Côte d'Ivoire (80)	Eswatini (102)	Eswatini (106)	Namibia (91)	Cameroon (102)				
Eswatini (100)	Senegal (94)	Botswana (82)	Côte d'Ivoire (103)	Senegal (107)	South Africa (93)	Angola (106)				
Zambia (108)	Kenya (95)	Rwanda (87)	Cabo Verde (106)	Ghana (111)	Zambia (95)	Zimbabwe (108)				

Note: Numbers in parentheses refer to global rankings.

Landscape (23rd), which have had a positive impact on its ability to Enable talent (21st), although there is scope to improve its 44th ranking for Business and Labour Landscape with improvements to the labour market. The country's lowest global rank (59th) is in the Attract pillar, where there is ample room to raise the level of External Openness towards foreign business and talent from 75th position. **Japan** drops out of the top 25 for the first time in the GTCI, and is now in 26th position overall. This despite a fall in global position in only one pillar—Retain (now 23rd)—which is, in turn, due to slightly lower ranking in the Sustainability and Lifestyle sub-pillars (now 22nd in both). The greatest challenge for Japan, however, is to address skills gaps and so improve the Employability of the population (93rd globally), which holds back Vocational and Technical Skills (39th), despite the country's excellent Mid-Level Skills (5th). Japan remains one of the leading countries in enabling talent (9th), where its 3rd-placed performance in the Market Landscape sub-pillar is particularly noteworthy.

**Europe (39 countries):** the region with the most countries in the GTCI, Europe includes 29 high-income countries, nine upper-middle-income countries, and one lower-middle-income country. Eleven of these countries feature in the top 15 and have been discussed above. **Belgium** ranked inside the top 15 in the first edition of the GTCI in 2013, but has since ranked just outside it and is currently at 16th position. The country is most impressive when it comes to growing talent (11th), where high enrolment rates in vocational and tertiary studies and the high quality of schools and universities result in an excellent Formal Education and an 8th-place ranking in this sub-pillar. This is accompanied by extensive opportunities in Lifelong Learning (11th), including training in firms. The Retain pillar has become Belgium's lowest-ranked at 24th, because of a slide in the Lifestyle (to 26th), especially with respect to personal rights and physician density. Austria, currently ranked 17th globally, has also been just outside the top 15 in most GTCI editions. The country is the global leader in the Lifestyle sub-pillar and takes 10th position in the Sustainability sub-pillar, which together make it a top-10 performer (5th) in the Retain talent pillar. Austria is equally impressive (ranked 5th) when it comes to Vocational and Technical Skills, which is due to its 2nd-place ranking in the Mid-Level Skills sub-pillar, which partly rests on its high share of technicians and associate professionals, and on good labour productivity. The greatest room for improvement relates to the country's pool of Global Knowledge Skills (currently 25th globally), where expanding the tertiary-educated workforce would raise High-Level Skills from 30th position, while promoting more entrepreneurship would boost Talent Impact from 28th. France, at 19th position globally, equals its highest position in the GTCI for the third year running. The country has a particularly strong showing in the Lifelong Learning sub-pillar (3rd) thanks to its world-class business schools and extensive training in firms. Combined with the high quality of its Formal Education (ranked 16th), this makes it a top-10 performer (7th) in the Grow talent pillar. France also has an advantage in the Enable talent pillar (19th), with solid showings in all three sub-pillars. Its main challenges, meanwhile, are in the Attract and Vocational and Technical Skills pillars (ranked 25th in both). Greater social inclusion would increase its performance in the Internal Openness sub-pillar (from 29th) and so boost its performance in the Attract pillar, while addressing the skills gaps would improve Employability (from 40th) and consequently its showing in the Vocational and Technical Skills pillar.

Latin America and the Caribbean (19 countries): this region consists mainly of upper-middle-income countries: 12 in total. The seven remaining include four high-income countries and three lower-middle-income countries. At 34th position globally, Chile remains in the top quartile of the GTCI rankings for the third year in a row. It has a particular strength in the Inputrelated pillars, and it features in the top quartile (34th position) in both Attract and Retain. In the Attract pillar, Chile shows a high degree of Internal Openness (25th) that is derived from good social inclusion and progress in issues related to gender equality. The Retain pillar, meanwhile, is boosted primarily by Chile's widespread pension coverage, which has a positive impact on its ranking for Sustainability (30th). The country's lowest rankings are in the two Output-related pillars—Vocational and Technical Skills (44th) and Global Knowledge Skills (42nd). A larger share of technicians and associate professionals would boost its position in the Mid-Level Skills sub-pillar from 47th, while increasing the proportion of researchers, senior officials and managers would raise its ranking for High-Level Skills from 52nd. Uruguay achieves its highest-ever position (43rd) in this year's GTCI. Just like Chile, it has strong showings in the four Input-related pillars, including top-quartile performances (34th in each case) in the Enable and Grow pillars. Slightly lower, (36th) is Uruguay's performance in the Attract pillar; however, this is home to its strongest sub-pillar, where a high tolerance towards minorities and immigrants demonstrates a high level of Internal Openness, resulting in an 18th-place ranking, globally. Uruguay's main challenges are in the Output-related pillars: Vocational and Technical Skills (69th) and Global Knowledge Skills (76th). Efforts should be made to raise the share of both secondary and tertiary education in the population, which would boost its Mid-Level Skills ranking (from 81st) and High-Level Skills (from 85th) respectively. Mexico is one of two economic powers in the region (the other, Brazil, has already been discussed above in the context of BRICS) and is ranked 74th globally. It has seen its talent competitiveness strengthen over the past decade, despite a slight regression over the past three years. The country performs relatively well in the Grow pillar, where its 4th-place ranking is built on fairly solid performances in all three sub-pillars (which are also the country's top-ranked sub-pillars). Most notably, it is positioned in the top quartile (29th) with respect to Lifelong Learning, thanks to the good quality of its business masters programmes and the opportunities for employee development. The ability to Attract talent remains Mexico's lowest-ranked pillar (98th), where the greatest challenge is to improve greater External Openness towards foreign talent from its current 104th ranking.

Northern Africa and Western Asia (18 countries): one of the more heterogeneous regions in terms of income group representation, it includes eight high-income economies, four upper-middle-income economies, and six lower-middle-income economies. The United Arab Emirates (UAE) is ranked 22nd globally and is the best performer in the region for the sixth time in the GTCI. It is one of the global leaders (4th) in the Attract talent pillar, and is particularly impressive as a magnet for foreign workers through a high level of External Openness (2nd globally). The country is also ranked 2nd globally for Access to Growth Opportunities afforded to its population, including the use of virtual networks. That said, its ability to Grow talent (currently 17th) would be even greater with higher enrolment rates in vocational and tertiary studies (it is ranked 52nd for Formal Education, for example). However, most scope for improvement concerns the ability to Retain talent. At 59th, this is the only pillar where UAE ranks outside the top quartile. The main challenge is to strengthen personal rights and safety, which would have a positive impact on Lifestyle (currently 80th). Israel is the second-most talent-competitive country in the region. It has ranked inside the 20th-25th range in each of the past GTCI editions and, at 25th position, this year is no different. As in previous years, Israel is particularly impressive in the two Output-related pillars: Vocational and Technical Skills and Global Knowledge Skills (13th and 14th respectively). It is particularly adept at matching labour market demands and job skills, which places it 12th in the Employability sub-pillar, which contributes towards its strong Vocation and Technical Skills. As for Global Knowledge Skills, Israel is a top-10 performer (9th) in the High-Level Skills pillar, thanks to its highlyeducated and skilled workforce. Attract and Grow are the only two pillars where Israel is ranked outside the top quartile (44th and 43rd respectively), and would improve primarily through higher levels of Internal Openness (currently 61st) and more extensive training in firms to support Lifelong Learning (79th). **Cyprus** is the final country in the region to be ranked in the top quartile in GTCI 2023, and achieves its 30th-place ranking for the fourth time in a row. Its main strengths are in the Retain talent pillar (16th), which is mainly thanks to its high quality of life (it ranks 6th in the Lifestyle sub-pillar, for example). Cyprus is also a top-10 performer (8th) in the sub-pillar relating to External Openness towards foreign business and talent, although its rank in the Attract pillar (21st) would be even better with greater Internal Openness (40th), including more social inclusion. The country's most discouraging performance (47th) relates to the Grow talent pillar, where improvements to the quality of secondary and tertiary education could boost Formal Education (currently 55th) and Lifelong Learning (58th).

Northern America (two countries): both Northern American economies—the United States and Canada feature in the top-15 performers of this year's GTCl, at 3rd and 13th position respectively, and have been discussed in detail above. In terms of relative performance, the United States outperforms its northern neighbour in five of the six pillars, with Canada performing better only in the Attract pillar.

Sub-Saharan Africa (32 countries): the region with the weakest performance on average is also the only region with low-income countries in its grouping: 12 in total. Four of the countries in the region are classified in the upper-middleincome group, while a further 16 are in the lower-middle-income group. The region is headed by Mauritius, which at 51st, is the only Sub-Saharan African country to make it into the upper half of the GTCI rankings this year. In fact, it has consistently ranked above the GTCI median since its first inclusion in 2017. The country's best performances are in the pillars that relate to enabling and attracting talent (39th and 37th respectively). In the Enable pillar, a positive Business and Labour Landscape (ranked 27th) and a solid Regulatory Landscape (32nd) are offset by a Market Landscape that is ranked 88th and which would benefit from more domestic competition and an improved ICT infrastructure. As for the Attract pillar, Mauritius benefits from a high degree (32nd) of Internal Openness. One of the greatest challenges facing the country, however, is the expansion of tertiary education. Increased investment and enrolment levels would boost Formal Education (currently 88th) and, by extension, the ability to Grow talent (78th). It would also raise High-Level Skills from 92nd, which would in turn strengthen Global Knowledge Skills (77th). **South Africa** is the next best performer in the region at 68th. As discussed in the section on BRICS members above, the country performs particularly well in the Attract and Enable pillars, but faces significant challenges around skills gaps and strengthening its performance in the Vocational and Technical Skills pillar. The talent competitiveness of Botswana, at 73rd, the region's thirdbest performer, has improved over the first decade of the GTCI, although the country's relative position has slipped slightly in the past three years. The strength of its institutions is reflected in its robust Regulatory Landscape (37th), which, combined with a positive Business and Labour Landscape (38th), helps Botswana achieve 38th position in the Enable pillar. The greatest scope for improvement is in the Grow talent pillar (currently 93rd) and in strengthening Vocational and Technical Skills from 96th position. Addressing low enrolment rates and improving Formal Education (127th) would go a long way to boosting its position in the Mid-Level Skills sub-pillar from 96th, while closing the skills gaps and skills mismatch would improve its Employability ranking from 86th.

#### **ENDNOTES**

- 1 Countries are grouped according to the World Bank Income Classifications. Economies are divided based on their 2022 gross national income (GNI) per capita, calculated using the World Bank Atlas method (see https://datahelpdesk.worldbank.org/knowledgebase/articles/906519world-bank-country-and-lending-groups). The groups are: low income; lower-middle income; upper-middle income; and high income. Regional groups are based on United Nations Regional Classifications: Central and Southern Asia: Fastern, Southeastern Asia and Oceania: Furope: Latin America and the Caribbean; Northern Africa and Western Asia; Northern America; and Sub-Saharan Africa.
- 2 World Health Organization. (2023). WHO chief declares end to COVID-19 as a global health emergency. 5 May 2023, available at https://www.who.int/ news-room/speeches/item/who-director-general-s-opening-remarks-atthe-media-briefing---5-may-2023

#### CHAPTER 3

## JRC Statistical Audit of the **Global Talent Competitiveness Index 2023**

Jaime Lagüera González, Begoña Cabeza Martínez, Panagiotis Ravanos, Oscar Smallenbroek and Michaela Saisana

European Commission Joint Research Centre (JRC), Ispra, Italy

More than capital, individual skills and talents are the engines of growth and the driving forces that guide human beings towards the future. In today's complex and dynamic global economic system of intense competition, an environment where talent can be adequately and effectively attracted, developed and retained is of utmost importance for business's investment decisions and, by extension, for countries' sustainable growth.

Each year since 2013, INSEAD Business School has released the Global Talent Competitiveness Index (GTCI) in collaboration with the Descartes Institute for the Future (since 2021) and the Human Capital Leadership Institute (2013–2017, and again from 2022). The index aims to summarise complex and diverse concepts related to the availability of human capital and the relative strengths of nations in enabling talent to be developed, attracted, and retained, creating a single quantitative measure of talent competitiveness at the national level. In doing so, it raises conceptual and practical challenges that are discussed in an annual GTCI report.

This chapter concerns the GTCI report for 2023, the tenth annual edition of the index. It focuses on the practical challenges related to data quality and methodological choices made in the grouping of 69 indicators into 14 sub-pillars, six pillars, two subindices, and an overall index for 134 countries.

Overall, the GTCI 2023 has a very high statistical reliability. It has a Cronbach's alpha value of 0.97 and captures the single latent phenomenon underlying the six main dimensions of the GTCI conceptual framework. Country ranks are robust to methodological choices regarding the treatment of missing values, weighting, and aggregation rule, with a shift of less than or equal to 3 positions with respect to the simulated median in 94 percent of the countries included in this year's GTCI.

The added value of the GTCI lies in its ability to summarise different aspects of talent competitiveness in a more efficient manner than is possible when indicators and pillars are considered separately. In fact, between one-third and a half of the countries have a different rank position on the GTCI index compared to each of the six pillars.

The European Commission's Competence Centre on Composite Indicators and Scoreboards (COIN) at the Joint Research Centre (JRC) has been invited to assess the statistical properties of the GTCI since its initial publication in 2013. This audit is the tenth such analysis of the GTCI performed by the JRC.

Overall, the JRC concludes that the GTCI 2023 framework is robust and reliable, with a statistically coherent and balanced multi-level structure. The analysis has been performed to ensure the transparency and reliability of the GTCI, and to enable policymakers to derive accurate and meaningful conclusions about human capital and national competitiveness, and potentially guide their choices on priority setting and policy formulation.

As with previous audits, this assessment of the GTCI 2023 focuses on two main issues: (1) the statistical coherence of the GTCI structure, and (2) the impact of key modelling assumptions on the GTCI scores and ranks. The JRC analysis complements the reported country rankings for the GTCI, and for the Input and Output sub-indices, with confidence intervals to demonstrate the robustness of these ranks to the computation methodology (in particular, missing data estimation, weights, and aggregation formula).

Furthermore, the JRC analysis includes an assessment of the added value of the GTCI and a comparison with other global measures of talent attractiveness, competitiveness, and innovation. The 2023 version of the GTCI model is consistent with other international indicator frameworks measuring global attractiveness, competitiveness, and innovation at the national level. Furthermore, GTCI 2023 is shown to offer additional insights into nations' human capital and competitiveness compared to the other indices

The practical aspects addressed in this chapter relate to the statistical soundness of the GTCI, which should be considered a necessary, although not necessarily sufficient, condition for a sound index. Given that the present statistical analysis of the GTCI will be mostly, but not exclusively, based on correlations, the correspondence of the GTCI to a real-world phenomenon needs to be critically addressed, since "correlations need not necessarily represent the real influence of the individual indicators on the phenomenon being measured".2

The validity of the GTCl relies on the combination of both statistical and conceptual soundness. In this respect, the GTCI has been developed following an iterative process that went back and forth between the theoretical understanding of human capital and talent competitiveness on the one hand, and empirical observations on the other.

#### STATISTICAL COHERENCE IN THE GTCI **FRAMEWORK**

The JRC undertook an initial assessment of the GTCI 2023 data set in July 2023. No critical issues were identified in the 2023 model during this preliminary phase of the audit.

The underlying concepts and indicator framework that are used to describe global talent competitiveness in the GTCI 2023 have remained largely the same as those in the 2022 edition, although there are some adjustments in this year's version. In particular, one indicator (3.2.4. Formal and non-formal education and training) has been excluded from the 3.2. Lifelong Learning sub-pillar of the Grow pillar, as 58 percent of countries in the 2022 GTCI report had missing data.

A second indicator, 4.1.5. Vulnerable employment, has been included in the 4.1. Sustainability sub-pillar of the Retain pillar. The Vulnerable employment indicator adds a labour-focused aspect to the 4.1. Sustainability sub-pillar. Country rankings for 2023 are similar to those of 2022. In particular, all countries in the top-20 positions in the 2022 report also feature within the top 20 in the 2023 edition. This pattern also holds for 19 of the countries ranked in the bottom 20 positions.

Following the iterative process during which the index was fine-tuned, the assessment of the statistical coherence in the final version of the GTCI 2023 followed four steps:

#### **Step 1: Relevance**

Indicators were selected for their relevance to a specific pillar on the basis of the literature review, expert opinion, country coverage, and timeliness. To represent a fair picture of country differences, indicators were scaled either at the source or by the GTCI team.

#### **Step 2: Data Checks**

The data used are the most recently released. Forty-seven of 69 indicators have updated data since the 2022 GTCI report was compiled. Overall, data for 56 indicators refer to the years 2022 or 2021. Only three indicators (1.2.6 Urbanisation, 3.1.4 Reading, maths, and science, and 4.1.3 Brain retention) have data from 2018 or earlier. The cut-off year was set at 2012. Countries included in GTCI 2023 have data availability of at least 80% at the index level, and 60% at the sub-pillar level. Compared to the previous year's report, no additional country was excluded from the dataset, while Uzbekistan was added.

As a result, the GTCI 2023 dataset comprises 134 countries and 69 indicators and has 93.8% data coverage. This is a slight improvement over the 93% coverage in the 2022 report. Country data availability is at least 82% at the Input sub-index level and 63% at the Output sub-index level. Again, both are improvements over the 2022 report. Data availability at the indicator level is good: of the 69 indicators only two have data availability slightly below 60%. These are 2.1.1 FDI regulatory restrictiveness and 3.1.4. Reading, maths and science, both of which are available for approximately 59 percent of countries.

The GTCI development team identified potentially problematic indicators that could bias the overall results as those having absolute skewness greater than two and kurtosis greater than 3.5.3 These indicators were treated either by Winsorisation or, in the case of more than five outliers, by taking the natural logarithm.4 These criteria have been adopted since the first release of the GTCI, in line with the JRC-COIN's recommendations.

#### **Step 3: Statistical Coherence**

The JRC's analysis of the statistical coherence of the GTCI 2023, consists of a principal component analysis to study the structure of the data, a multi-level analysis of the correlations of indicators, and a comparison of GTCI rankings with its pillars and with other similar indices. This latter investigation demonstrates the added value of the GTCI both in comparison with its component pillars and to other relevant indices on talent attractiveness, competitiveness, and innovation.

#### 1. Principal Component Analysis and Reliability Item **Analysis**

Principal component analysis (PCA) was used to assess the extent to which the conceptual framework is compatible with statistical properties of the data. PCA confirms the presence of a single statistical dimension (i.e., one principal component with an eigenvalue significantly greater than 1.0) in all 14 sub-pillars, that capture between 45% (2.2 Internal Openness) and 90% (1.1 Regulatory Landscape) of the total variance in the underlying indicators.

A more detailed analysis of the correlation structure within and across the six GTCI pillars confirms that the sub-pillars are more correlated with their own pillar than with any other. This suggests that the allocation of sub-pillars to pillars in the GTCl is consistent from both a conceptual and a statistical perspective. Furthermore, all correlations within a pillar are positive and well above 0.7, which suggests that 50% or more of the variance in the GTCI pillar scores can be explained by an underlying subpillar (see Table 1). The lowest correlation of a sub-pillar to its pillar is 0.84, (between sub-pillar 5.1. Employability and pillar 5. Vocational and Technical Skills). These results show that the GTCI conceptual grouping of sub-pillars into pillars is statistically valid and that the six pillars are statistically well balanced.

The six pillars also share a single statistical dimension that captures 87% of the total variance, and the six correlation coefficients are quite high and very similar to each other, ranging from 0.90 (Attract pillar) to 0.96 (Enable pillar). The latter suggests that

the six pillars contribute in a balanced way to the variation of the GTCl scores, as envisaged by the development team: all six pillars are assigned equal weights when aggregated to the GTCI. The reliability of the GTCI, as measured by its Cronbach's alpha value, is very high, at 0.97—well above the 0.70 threshold for a reliable aggregate.⁵

An important part of the analysis relates to clarifying the importance of the Input and Output sub-indices with respect to the variation of the GTCI scores. The GTCI is built as the simple arithmetic average of the four Input sub-pillars and the two Output sub-pillars. This implies that the Input sub-index has a weight of 67% while the Output sub-index has a weight of 33%. However, this does not translate to the Input sub-index being twice as important as the Output sub-pillar in determining the variation of the GTCI scores. In fact, the correlation coefficient between the GTCI scores and the Input or Output sub-index is 0.99 and 0.98, respectively, which suggests that the sub-indices are effectively placed on an equal footing as envisaged by the

Overall, the above results demonstrate that the grouping of indicators into sub-pillars, pillars, and an overall index is statistically coherent, and that the GTCI has a balanced structure in which the six pillars are equally important in determining the variation in GTCI scores.

#### 2. Importance of the Indicators in the GTCI Framework

The GTCI and its components are built as the simple arithmetic averages of the underlying indicators. Developers and users of composite indicators often consider that the weights assigned to the indicators coincide with the indicators' importance in

Table 1 Statistical coherence in the GTCI: Correlations between sub-pillars and pillars

	SUB-PILLAR	ENABLE	ATTRACT	GROW	RETAIN	VOCATIONAL AND TECHNICAL SKILLS	GLOBAL KNOWLEDGE SKILLS
	1.1 Regulatory Landscape	0.95	0.88	0.84	0.85	0.80	0.85
	1.2 Market Landscape	0.91	0.72	0.87	0.77	0.79	0.82
	1.3 Business and Labour Landscape	0.93	0.83	0.83	0.77	0.77	0.81
	2.1 External Openness	0.76	0.93	0.70	0.71	0.69	0.72
INPUT	2.2 Internal Openness	0.83	0.89	0.77	0.77	0.71	0.75
볼	3.1 Formal Education	0.82	0.68	0.92	0.82	0.78	0.85
	3.2 Lifelong Learning	0.78	0.68	0.90	0.64	0.64	0.72
	3.3 Access to Growth Opportunities	0.88	0.84	0.92	0.85	0.83	0.86
	4.1 Sustainability	0.88	0.82	0.85	0.96	0.85	0.87
	4.2 Lifestyle	0.78	0.74	0.77	0.96	0.80	0.81
	5.1 Mid-Level Skills	0.75	0.70	0.73	0.88	0.91	0.77
PUT	5.2 Employability	0.73	0.66	0.72	0.59	0.84	0.64
OUTPUT	6.1 High-Level Skills	0.82	0.78	0.82	0.83	0.79	0.96
	6.2 Talent Impact	0.88	0.78	0.88	0.85	0.78	0.96

Source: European Commission, Joint Research Centre (2023).

Note: The values are the bivariate Pearson correlation coefficients (n = 134). Shaded values represent the coefficients between sub-pillars and the respective pillar based on the GTCI conceptual framework. Values greater than 0.70 within the shaded areas are desirable as they imply that the pillar captures at least 50% ( $\approx$  0.70  $\times$  0.70) of the variation in the underlying sub-pillars and vice-versa.

the index. However, the correlation structure of the indicators and their variances also impact an indicator's importance, thus weights are often not equivalent to an indicators importance within an index.

This section assesses the importance of all 69 indicators at the various levels of aggregation in the GTCI structure. The squared Pearson correlation coefficient, otherwise known as the coefficient of determination R2, is used as a statistical measure of the importance of indicators in an index. The importance of the selected indicators is taken to be equivalent to the contribution of those indicators to the variation of the aggregate scores, whether those are sub-pillars, pillars, sub-indices, or the overall GTCI. The overarching consideration made by the GTCI development team was that all indicators should matter at all levels of aggregation. This is confirmed by an examination of the importance measures of the 69 indicators, which are given in Table 2.

For example, variations across countries in the scores of indicator 1.1.4 Regulatory quality can explain 94% of the variance in the respective sub-pillar score (1.1 Regulatory Landscape), 85% of the variance in the respective pillar (1. Enable), 86% of the variance in the Input sub-index, and 85% of the variance in the overall GTCI scores. Similarly, country variations in indicator 6.1.1. Tertiary educated workforce explains 77% of the variance in the sub-pillar, 6.1 High-Level Skills; 65% in its respective pillar, 6. Global Knowledge Skills; 67% in the Output sub-index; and 65% in GTCI scores. In addition, variations among countries in the newly added indicator, 4.1.5 Vulnerable employment, can explain at least 66% of the variation in its respective sub-pillar

Table 2 Importance measures for the indicators at each level of the GTCI structure

PILLAF	SUB-PILLAR	VARIABLE	SUB-PILLAR	PILLAR	INPUT/OUTPUT	GTCI
		1.1.1 Government effectiveness	93%	84%	85%	84%
		1.1.2 Rule of law	96%	82%	83%	82%
	1.1 Regulatory Landscape	1.1.3. Political stability	74%	55%	58%	55%
	Editascape	1.1.4 Regulatory quality	94%	85%	86%	85%
		1.1.5 Corruption	93%	78%	80%	78%
		1.2.1 Extent of market dominance	61%	41%	42%	41%
		1.2.2 Domestic credit to private sector	54%	44%	44%	44%
	1.2 Market	1.2.3 Cluster development	72%	48%	48%	48%
I. Enable	Landscape	1.2.4 R&D expenditure	60%	53%	50%	53%
- E		1.2.5 ICT infrastructure	73%	64%	62%	64%
		1.2.6 Urbanisation	53%	50%	50%	50%
		1.3.1 Labour rights	31%	23%	24%	23%
		1.3.2 Labour-employer cooperation	57%	43%	45%	43%
		1.3.3 Professional management	68%	52%	53%	52%
INPUT	1.3 Business Landscape	1.3.4 Relationship of pay to productivity	45%	40%	40%	40%
_	Landscape	1.3.5 Enterprise software	47%	30%	30%	30%
		1.3.6 Cloud computing	68%	52%	52%	52%
		1.3.7 Firms with website	58%	69%	70%	69%
		2.1.1 FDI regulatory restrictiveness	23%	12%	13%	12%
		2.1.2 Financial globalisation	70%	56%	58%	56%
	2.1 External Openness	2.1.3 Migrant stock	69%	37%	38%	37%
	Ореннезз	2.1.4 International students	68%	37%	36%	37%
ಕ		2.1.5 Brain gain	35%	21%	22%	21%
2. Attract		2.2.1 Tolerance of minorities	52%	29%	32%	29%
7		2.2.2 Tolerance of immigrants	25%	11%	13%	11%
	2.2 Internal	2.2.3 Social Mobility	54%	56%	57%	56%
	Openness	2.2.4 Economic empowerment of women	46%	24%	26%	24%
		2.2.5 Gender parity in high-skilled jobs	41%	31%	31%	31%
		2.2.6 Leadership opportunities for women	43%	40%	40%	40%

(continued on next page)

Table 2 (continued) Importance measures for the indicators at each level of the GTCI structure

	PILLAR SUB-PILLAR		VARIABLE	SUB-PILLAR	PILLAR	INPUT/OUTPUT	GTCI
			3.1.1 Vocational enrolment	35%	18%	18%	18%
			3.1.2 Tertiary enrolment	64%	60%	58%	60%
	3.1 Formal Signature 3.1.3 Tertiary education expenditure		59%	51%	51%	51%	
		Eddeation	3.1.4 Reading, maths, and science	76%	61%	58%	61%
			3.1.5 University ranking	64%	50%	50%	50%
	3. Grow		3.2.1 Business school ranking	69%	35%	36%	35%
	3.6	3.2 Lifelong Learning	3.2.2 Prevalence of training in firms	39%	13%	14%	13%
		Learning	3.2.3 Employee development	57%	57%	58%	57%
			3.3.1 Delegation of authority	54%	51%	51%	51%
		3.3 Access	3.3.2 Youth inclusion	61%	48%	47%	48%
INPUT		to Growth Opportunities	3.3.3 Use of virtual social networks	75%	65%	65%	65%
			3.3.4 Use of virtual professional networks	76%	67%	69%	67%
			4.1.1 Pension coverage	69%	47%	47%	47%
			4.1.2 Social protection	71%	67%	67%	67%
		4.1 Sustainability	4.1.3 Brain retention	31%	36%	38%	36%
	ءِ		4.1.4 Environmental performance	69%	66%	67%	66%
	4. Retain		4.1.5 Vulnerable employment	73%	66%	64%	66%
	4	4.2 Lifortylo	4.2.1 Personal rights	51%	33%	35%	33%
			4.2.2 Personal safety	85%	70%	68%	70%
		4.2 Lifestyle	4.2.3 Physician density	80%	63%	62%	63%
			4.2.4 Sanitation	68%	55%	54%	55%
		5.1 Mid-Level Skills	5.1.1 Workforce with secondary education	61%	26%	32%	26%
	Skills		5.1.2 Population with secondary education	75%	33%	40%	33%
	nical		5.1.3 Technicians and associate professionals	78%	71%	73%	71%
	Tech		5.1.4 Labour productivity per employee	62%	78%	76%	78%
	l and		5.2.1 Ease of finding skilled employees	50%	17%	18%	17%
	5. Vocational and Technical Skills		5.2.2 Relevance of education system to the economy	71%	43%	43%	43%
	Voca	5.2 Employability	5.2.3 Skills matching	34%	52%	56%	52%
	.5.		5.2.4 Highly educated unemployment	32%	8%	11%	8%
F			6.1.1 Workforce with tertiary education	77%	65%	67%	65%
OUTPUT			6.1.2 Population with tertiary education	75%	52%	56%	52%
ō		6.1 High-Level	6.1.3 Professionals	78%	75%	77%	75%
	kills	Skills	6.1.4 Researchers	69%	72%	73%	72%
	dge S		6.1.5 Senior officials and managers	53%	33%	39%	33%
	owle		6.1.6 Digital skills	24%	14%	13%	14%
	6. Global Knowledge Skills		6.2.1 Innovation output	84%	73%	72%	73%
	Glob		6.2.2 High-value exports	43%	23%	25%	23%
	9	6.2 Talent Impact	6.2.3 Software development	76%	82%	82%	82%
			6.2.4 New business density	47%	32%	31%	32%
			6.2.5 Scientific journal articles	79%	77%	76%	77%
			, ,				

Source: European Commission Joint Research Centre (2023).

Note: The values are the squared Pearson correlation coefficients, expressed as percentages (n = 134 countries). It is reassuring that almost all 69 variables in this 2023 edition are found to have a noteworthy impact of at least 10% on the GTCI variance and the variances of the respective sub-indices, pillars, and sub-pillars. The single indicator (5.2.4 Highly educated unemployment) for which the coefficients are less than 10% is shaded in white.

(4.1 Sustainability), pillar (4. Retain), the Input sub-index, and GTCI scores.

As shown in Table 2, variations in an indicator can explain between 23% and 96% of the variation in the respective subpillar, and between 11% and 86% of the variations in the respective Output or Input sub-Index. Almost all the 69 indicators in the 2023 GTCl edition are found to have a noteworthy impact on the GTCI: that is, variations in an indicator can explain at least 10% of the variance in the GTCI. The only exception is the 5.2.4. Highly educated unemployment indicator: while influential at the subpillar level (5.2 Employability), where it explains 32% of the variation of the scores, variations in this indicator can explain only 8% of the variation of the GTCI scores, which is slightly below the 10% threshold. These results are similar to the 2022 GTCI edition, where only one variable could not explain more than 10% of the GTCI. The fact that all but a few indicators are found to be influential at all levels of aggregation in the GTCI 2023 is in line with the careful revisions of the GTCI framework that its developers have undertaken in previous years.

#### 3. Added Value of the GTCI

Very high levels of statistical reliability among the main components of an index can also be the result of redundancy of information. In this sense, the high correlation observed between the GTCI and its six sub-pillars suggests that each sub-pillar provides the same information, which would make aggregation unnecessary.

However, this is not the case in the GTCI. In fact, the overall GTCI 2023 country ranking differs significantly from any of the rankings within the individual six pillars: at least 36 percent of the 134 countries included in the 2023 edition have a position in the overall GTCI that differs from their rank in a particular pillar by 10 positions or more (see Table 3). This goes up to 55 percent of countries when the ranking of the GTCI is compared to that of the individual pillar 2. Attract (see Table 3). Again, this highlights the added value of aggregating the six pillars to obtain the overall GTCl and its informative summary of the six pillars. This result also shows the value of taking components into account on their own merit. In doing so, country-specific strengths and bottlenecks in

human capital and talent competitiveness can be identified and used as an input for evidence-based policymaking.

The GTCI 2023 has also been compared with the latest available edition of three relevant international indices, using the most recent rankings extracted from these projects' websites (see Table 4).6 These are: the 2022 Global Innovation Index from the World Intellectual Property Organization (WIPO); the 2023 Global Attractiveness Index from The European House - Ambrosetti; and the 2022 World Competitiveness Index from the International Institute for Management Development (IMD).

The correlation of rankings between the GTCI 2023 and all three indices is equal to or greater than 0.85, which suggests that the GTCI conceptual framework is consistent with the frameworks used to develop the other three indices. This is both an expected and a desirable outcome, since the concept of talent competitiveness relates to a country's potential for innovation and outcomes of innovation processes, and consequently its attractiveness and competitiveness as an investment destination.

Despite being highly correlated, however, the difference in rank between the GTCI and three alternative indices, is greater than 10 positions for 39 percent of countries in the Global Innovation Index, 67 percent in the Global Attractiveness Index, and 30 percent in the World Competitiveness Index. This indicates that the GTCI 2023 offers additional insights into nations' human capital and competitiveness compared to other indices.

#### **Step 4: Qualitative Review**

Finally, the GTCI results were evaluated by the development team and external experts to verify that the overall results are, to a great extent, consistent with current evidence, existing research, or prevailing theory. This work covered overall country classifications as well as relative performances in the Input and Output sub-indices.

These statistical tests and the positive outcomes regarding the statistical soundness of the GTCI notwithstanding, it is important to mention that the GTCI has to remain open to future improvements as better data, more comprehensive surveys and assessments, and new relevant research studies become available.

Table 3 Distribution of differences between pillar and GTCI rankings

		GTCI INPUT SUB-INDEX				GTCI OUTPUT SUB-INDEX	
Rank differences with respect to the GTCI 2023	Enable	Attract	Grow	Retain	Vocational and Technical Skills	Global Knowledge Skills	
30 or more positions	3%	10%	7%	4%	7%	7%	
20 to 29 positions	10%	16%	10%	4%	9%	9%	
10 to 19 positions	25%	29%	27%	26%	30%	20%	
10 or more positions*	38%	55%	43%	34%	46%	36%	
5 to 9 positions	22%	17%	24%	29%	23%	28%	
Less than 5 positions	34%	24%	29%	31%	28%	33%	
0 positions	7%	4%	4%	6%	3%	4%	
Total	100%	100%	100%	100%	100%	100%	

Source: European Commission Joint Research Centre (2023).

<sup>\*</sup> This row is the sum of the previous three rows.

Table 4 Difference in rankings between the GTCI 2023 and other international indices

Differences in ranking with respect to the GTCI 2023	Global Innovation Index 2022 (Cornell, INSEAD, WIPO)	Global Attractiveness Index 2023 (The European House Ambrosetti)	World Competitiveness Index 2022 (IMD)
30 or more positions	6%	12%	0%
20 to 29 positions	8%	19%	7%
10 to 19 positions	26%	36%	23%
10 or more positions*	39%	67%	30%
5 to 9 positions	33%	16%	27%
Less than 5 positions	26%	16%	32%
0 positions	2%	2%	12%
Total	100%	100%	100%
Pearson correlation coefficient with the GTCI	0.92	0.82	0.84
Spearman rank correlation coefficient with the GTCI	0.90	0.85	0.85
Common countries with the GTCI	125	129	60

Source: European Commission Joint Research Centre (2023)

Notes: The comparison between the GTCI and the other indices was based on the common set of countries.

One consideration for future versions of the GTCI would be to search for alternatives to the indicators which do not include recent data. In particular, the indicators 1.2.6 Urbanisation and 4.1.3 Brain retention are currently based on data from 2018, while the 5.1.4. Labour productivity per employee indicators refers to forecast data.

#### IMPACT OF MODELLING ASSUMPTIONS ON THE **GTCI RESULTS**

Every country's score in the overall GTCI and the Input and Output sub-indices depends on modelling choices: the six-pillar structure, the selected indicators, the choice to impute or not the missing data, the algorithm used for imputation, and the weights and aggregation method, among other elements. These choices are based on expert opinion, for example in the case of selection of indicators, or on common practice as is the case for min-max normalisation in the [0,100] range. They are driven by statistical analysis, for example in the treatment of outliers, or simplicity (for example, no imputation of missing data). Robustness analysis undertaken by the JRC aims at assessing the simultaneous and joint impact of these modelling choices on the rankings. The data are assumed to be error-free, as potential outliers and errors were corrected during the computation phase.

As suggested in the relevant literature on composite indicators, the robustness assessment of the GTCI was based on a combination of a Monte Carlo experiment and a multimodelling approach that considered three modelling choices: pillar weights, missing data, and the aggregation formula. This uncertainty analysis aims to respond, to some extent, to possible criticisms that the country scores associated with aggregate measures are generally not calculated under conditions of certainty, even though they are frequently presented as such.

While the term multi-modelling refers to testing alternative assumptions—that is, alternative aggregation methods and missing data estimation methods—the Monte Carlo simulation explored the issue of weighting. It comprised 1,000 runs, each corresponding to a different set of weights for the six pillars, randomly sampled from uniform continuous distributions centred in the reference values. The choice of range for the weights' variation was driven by two opposite needs: to ensure a wide enough interval to have meaningful robustness checks, and to respect the rationale of the GTCI, which places equal importance on all six pillars. Given these considerations, the limit values of uncertainty intervals for the pillar weights are: 15% to 35% for the four pillars in the Input sub-index; and 40% to 60% for the two in the Output sub-index (see Table 5). For the calculation of the GTCI, the limit values of uncertainty intervals for all six pillar weights are 6% to 26%. In all simulations, sampled weights are rescaled so that they always sum to 1.

For transparency and replicability, the GTCI development team opted not to estimate the missing data (only 6.2% of data were missing from the data set of 134 countries and all 69 indicators). The 'no imputation' choice, which is common in similar contexts (for example, in the Global Innovation Index and the European Skills Index), might encourage countries to not report low data values. The 'no imputation' choice in an arithmetic average means that it is equivalent to replacing an indicator's missing value for a given country with the respective mean of the other indicators that are being aggregated. Hence the available indicators data in the incomplete pillar may dominate, sometimes biasing the ranks up or down. To test the impact of this assumption, the JRC also estimated missing data, using the Expectation Maximisation (EM) algorithm.8

Regarding the aggregation formula, decision-theory practitioners have challenged the use of simple arithmetic averages because of their fully compensatory nature, in which a comparatively high advantage for a few indicators can compensate for a comparative disadvantage for many indicators.9 As discussed in the previous section, the arithmetic averaging formula received statistical support for the development of the GTCI; however, the geometric average was considered as a possible alternative. This average is a partially compensatory approach that rewards

<sup>\*</sup>This row is the sum of the previous three rows.

Table 5 Uncertainty analysis for the GTCI 2023: Missing data, aggregation, and pillar weights

		REFERENCE	ALTERNATIVE
I. Uncertainty in the tre	eatment of missing values	No estimation of missing data	Expectation Maximisation (EM)
II. Uncertainty in the ag	ggregation formula at pillar level	Arithmetic average	Geometric average
III. Uncertainty in the weights		Reference value for the weight	Distribution assigned for robustness analysis
GTCI sub-index	Pillar	(within the sub-index)	(within the sub-index)
	Enable	0.25	U[0.15, 0.35]
Innut	Attract	0.25	U[0.15, 0.35]
Input	Grow	0.25	U[0.15, 0.35]
	Retain	0.25	U[0.15, 0.35]
Outmant	Vocational and Technical Skills	0.50	U[0.40, 0.60]
Output	Global Knowledge Skills	0.50	U[0.40, 0.60]
		Reference value for the weight (when calculating the overall GTCI)	Distribution assigned for robustness analysis (when calculating the overall GTCI)
Overall GTCI	All six pillars	0.16	U[0.06, 0.26]

Source: European Commission, Joint Research Centre (2023).

countries with similar performance in all pillars and motivates those countries with uneven performance to improve in those pillars in which they perform poorly and not just in any pillar.

Four models were tested based on the combination of no imputation versus EM imputation, and arithmetic versus geometric average, combined with 1,000 simulations per model (random weights versus fixed weights), for a total of 4,000 simulations for the GTCl and each of the two sub-indices. See Table 5 for a summary of the uncertainties considered in the GTCI 2023.

#### **Uncertainty Analysis Results**

The main results of the robustness analysis are shown in Figures 1a-1c, with median rankings and 90% confidence intervals computed across the 4,000 Monte Carlo simulations for the GTCI, the Input sub-index, and the Output sub-index respectively. In each of these figures, countries are ordered from best to worst according to their rank in the corresponding index, while a blue dot corresponds to each country's simulated median rank. Error bars represent the 90% interval across all simulations for each country. Table 6 shows the published rankings and the 90% confidence intervals that account for uncertainties in the missing data estimation, the pillar weights, and the aggregation formula. All published country ranks are within the simulated intervals, and these are narrow enough for most countries (less than or equal to 10 positions) to allow meaningful inferences to be drawn.

GTCI ranks are shown to be within the limits of most scenarios considered and robust to changes in the imputation method, pillar weights, and the aggregation formula. Assuming the median rank across the simulated scenarios is representative of these scenarios, then the GTCl rank is close to the median rank  $\,$ for 94% of the countries—differing by three positions or less. This suggests that the GTCl is a suitable summary measure.

Furthermore, the confidence intervals of less than or equal to 10 positions for 96 percent of the countries implies that the GTCI ranks are also robust to changes in the pillar weights, the imputation method, and the aggregation formula for the vast majority of the countries. Robustness has improved compared to

the 2022 version of the GTCI, in which confidence intervals less than or equal to 10 positions were observed in the ranking for 71 percent of included countries.

Results for the Input and Output sub-indices are also robust and representative of the most scenarios considered. The rankings on the Input Sub-index are close to the median position (diverging by three positions or less) with intervals of less than or equal to 10 positions for 98 percent of the 134 countries considered. Similarly, rankings on the Output Sub-index are also close to the median rank for 85 percent of countries, with intervals of less than or equal to 10 positions for 82 percent of countries.

Overall, country ranks in the GTCl and its two sub-indices are robust to changes in the pillar weights, the imputation method, and the aggregation formula for the majority of countries considered. Table 6 reports the GTCI country ranks, and those of the sub-indices, together with the simulated intervals (90% of the 4,000 scenarios) to better demonstrate the robustness of these ranks to the computation methodology.

#### **Sensitivity Analysis Results**

To complement the uncertainty analysis, sensitivity analysis was used to identify which of the modelling assumptions have the highest impact on country ranks. Figure 2 plots the GTCl, the Input sub-index and the Output sub-index rankings against the rankings resulting from one-at-a-time changes either at the imputation methodology (no imputation of missing data versus imputation using the EM algorithm) or at the aggregation formula used at the last stage of aggregation (arithmetic versus geometric average).

Both the GTCI and its two sub-indices are robust to the changes in methodological assumptions, as illustrated by the relatively high correlations in ranking (the lowest correlation is 0.993) and the comparatively low calculated average change in ranking positions (the largest is 2.81 positions).

The most influential methodological assumption is the aggregation formula and this is particularly so for the Output sub-index, given that a lower correlation of ranks indicates

Figure 1a Robustness analysis (GTCI rank vs. median rank, 90% confidence intervals)

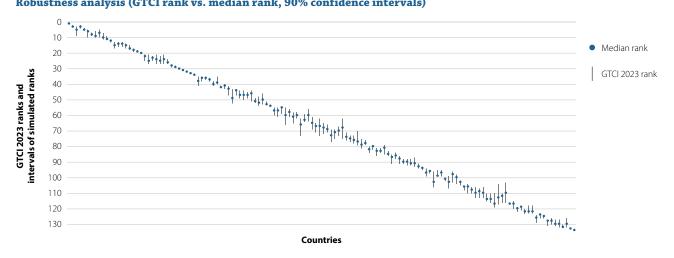


Figure 1b Robustness analysis (Input rank vs. median rank, 90% confidence intervals)

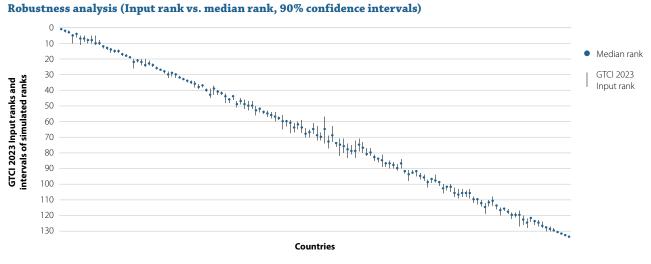
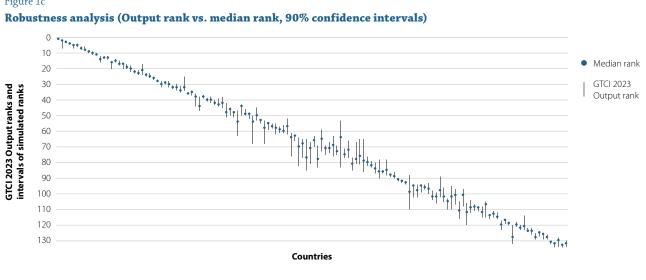


Figure 1c Robustness analysis (Output rank vs. median rank, 90% confidence intervals)



Source: European Commission Joint Research Centre (2023).

Notes: The Spearman rank correlation between the median rank and the GTCI 2023 rank is 0.999 (n = 134); between the median rank and the GTCI 2023 Input rank it is 0.999; and between the median rank and the GTCI 2023 Output rank it is 0.997. Median ranks and intervals are calculated over 4,000 simulated scenarios combining random weights, imputation versus no imputation of missing values, and geometric versus arithmetic average at the pillar level.

Table 6  $Country\ ranks\ and\ 90\%\ confidence\ intervals\ for\ the\ GTCI\ 2023\ and\ its\ Input/Output\ sub-indices$ 

	GTC	GTCI 2023		INPUT SUB-INDEX		OUTPUT SUB-INDEX	
	RANK	INTERVAL	RANK	INTERVAL	RANK	INTERVAL	
Switzerland	1	[1, 1]	1	[1, 1]	3	[2, 3]	
Singapore	2	[2, 3]	6	[5, 11]	1	[1, 1]	
United States	3	[3, 9]	4	[4, 10]	2	[2, 7]	
Denmark	4	[2, 4]	2	[2, 3]	5	[5, 7]	
Netherlands	5	[4, 5]	3	[2, 3]	14	[12, 14]	
Finland	6	[5, 10]	5	[4, 6]	10	[9, 11]	
Norway	7	[7, 9]	11	[8, 11]	4	[3, 4]	
Australia	8	[6, 10]	8	[7, 10]	8	[6, 8]	
Sweden	9	[5, 10]	9	[5, 10]	7	[6, 8]	
Jnited Kingdom	10	[7, 11]	7	[5, 9]	9	[9, 10]	
Luxembourg	11	[9, 11]	10	[5, 11]	11	[10, 11]	
reland	12	[12, 13]	12	[12, 13]	16	[14, 16]	
 Canada	13	[13, 17]	14	[13, 16]	15	[15, 20]	
Germany	14	[13, 16]	13	[12, 14]	19	[17, 20]	
celand	15	[13, 16]	19	[19, 19]	6	[4, 6]	
Belgium	16	[14, 17]	16	[14, 16]	17	[15, 18]	
Austria	17	[15, 18]	15	[14, 16]	20	[18, 22]	
New Zealand	18	[17, 19]	17	[17, 18]	23	[17, 24]	
rance	19	[18, 19]	18	[17, 18]	21	[21, 23]	
Estonia	20	[20, 20]	25	[23, 25]	18	[16, 20]	
Malta	21	[21, 25]	23	[20, 25]	25	[23, 26]	
Jnited Arab Emirates	22	[21, 27]	20	[20, 26]	27	[27, 28]	
Ezech Republic	23	[22, 25]	26	[25, 26]	22	[21, 24]	
South Korea	24	[21, 27]	31	[29, 32]	12	[12, 16]	
srael	25	[22, 27]	32	[31, 32]	13	[12, 13]	
apan	26	[21, 27]	22	[20, 24]	34	[25, 34]	
Portugal	27	[24, 27]	24	[21, 24]	30	[28, 32]	
ilovenia	28	[28, 29]	27	[27, 27]	24	[23, 25]	
pain	29	[28, 29]	21	[20, 22]	44	[38, 45]	
- Dyprus	30	[30, 30]	29	[28, 32]	26	[26, 27]	
ithuania	31	[31, 31]	28	[28, 29]	32	[30, 34]	
taly	32	[32, 32]	30	[28, 31]	35	[35, 36]	
.atvia	33	[33, 33]	35	[34, 36]	29	[28, 30]	
Chile	34	[34, 34]	33	[33, 33]	40	[39, 41]	
Qatar	35	[35, 41]	36	[34, 38]	45	[42, 51]	
Slovakia	36	[35, 38]	39	[39, 41]	33	[31, 35]	
Poland	37	[35, 37]	43	[41, 43]	28	[28, 32]	
Hungary	38	[36, 38]	42	[40, 43]	31	[31, 33]	
Greece	38	[38, 41]	37	[36, 39]	53	[45, 53]	
China Prunoi Darussalam	40	[35, 40]	41	[37, 43]	43	[39, 44]	
Brunei Darussalam	41	[41, 42]	46	[43, 46]	37	[36, 44]	
Malaysia	42	[40, 43]	48	[45, 49]	36	[34, 37]	
Jruguay	43	[41, 47]	34	[34, 35]	71	[69, 75]	
Bahrain -	44	[43, 52]	40	[39, 45]	57	[55, 58]	
Croatia	45	[43, 47]	47	[47, 51]	42	[40, 43]	

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Table 6 (continued)  $Country\ ranks\ and\ 90\%\ confidence\ intervals\ for\ the\ GTCI\ 2023\ and\ its\ Input/Output\ sub-indices$ 

	GTC	I 2023	INPUT SUB-INDEX		OUTPUT SUB-INDEX	
	RANK	INTERVAL	RANK	INTERVAL	RANK	INTERVAL
Georgia	46	[44, 49]	45	[45, 48]	50	[46, 50]
Costa Rica	47	[44, 50]	38	[37, 38]	68	[63, 70]
Saudi Arabia	48	[45, 49]	51	[47, 52]	38	[38, 47]
Bulgaria	49	[44, 51]	50	[47, 53]	49	[43, 50]
Montenegro	50	[49, 52]	52	[50, 56]	46	[45, 50]
Mauritius	51	[48, 54]	44	[42, 48]	59	[57, 61]
Russia	52	[46, 53]	57	[54, 60]	39	[37, 39]
Serbia	53	[51, 53]	54	[53, 55]	47	[47, 51]
Romania	54	[53, 54]	58	[57, 59]	51	[48, 52]
Armenia	55	[55, 60]	59	[56, 65]	54	[53, 55]
Albania	56	[55, 61]	49	[46, 52]	69	[69, 83]
Belarus	57	[55, 59]	71	[69, 77]	41	[38, 42]
Azerbaijan	58	[55, 66]	63	[60, 65]	52	[50, 68]
Oman	59	[56, 61]	53	[51, 54]	65	[65, 77]
Trinidad and Tobago	60	[58, 65]	61	[59, 67]	55	[53, 68]
Argentina	61	[58, 62]	55	[53, 57]	63	[62, 66]
Uzbekistan	62	[62, 73]	74	[71, 82]	48	[47, 63]
Kuwait	63	[59, 64]	56	[54, 58]	77	[66, 77]
Ukraine	64	[56, 64]	60	[59, 63]	61	[52, 62]
Moldova	65	[61, 69]	69	[67, 72]	58	[55, 62]
Jamaica	66	[65, 71]	66	[65, 70]	62	[61, 76]
Kazakhstan	67	[62, 73]	65	[64, 70]	75	[53, 83]
South Africa	68	[65, 72]	64	[59, 67]	79	[67, 81]
Brazil	69	[66, 71]	67	[61, 68]	76	[71, 77]
Jordan	70	[69, 77]	62	[61, 67]	86	[85, 87]
North Macedonia	71	[69, 75]	77	[75, 81]	60	[56, 61]
Colombia	72	[67, 73]	72	[63, 73]	72	[67, 74]
Botswana	73	[62, 75]	70	[57, 74]	80	[65, 81]
Mexico	74	[71, 76]	68	[63, 72]	83	[79, 83]
Viet Nam	75	[73, 77]	75	[71, 80]	74	[69, 75]
Mongolia	76	[73, 78]	73	[73, 76]	81	[65, 86]
Lebanon	77	[70, 79]	87	[85, 90]	56	[54, 59]
Cabo Verde	78	[75, 81]	76	[74, 83]	78	[77, 85]
Thailand	79	[76, 79]	80	[73, 80]	82	[76, 82]
Indonesia	80	[80, 84]	81	[77, 82]	85	[78, 90]
Türkiye	81	[79, 82]	83	[81, 85]	73	[63, 76]
Peru	82	[81, 86]	78	[72, 83]	88	[87, 89]
Bosnia and Herzegovina	83	[81, 84]	86	[86, 89]	67	[67, 81]
Philippines	84	[79, 85]	90	[84, 90]	70	[59, 73]
Ecuador	85	[83, 86]	82	[77, 82]	91	[91, 93]
Kyrgyzstan	86	[85, 91]	89	[87, 91]	84	[80, 87]
Panama	87	[84, 88]	79	[71, 79]	98	[93, 100]
Egypt	88	[86, 91]	93	[91, 93]	64	[64, 82]
Dominican Republic	89	[88, 91]	88	[86, 90]	90	[90, 92]
Sri Lanka	90	[88, 92]	94	[91, 95]	66	[65, 85]

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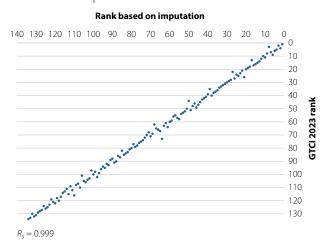
Table 6 (continued)  ${\bf Country\ ranks\ and\ 90\%\ confidence\ intervals\ for\ the\ GTCI\ 2023\ and\ its\ Input/Output\ sub-indices}$ 

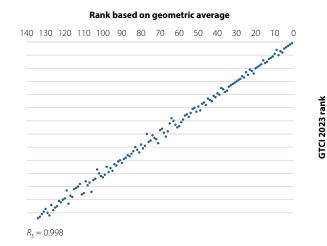
	GTC	TI 2023	INPUT SUB-INDEX		OUTPUT SUB-INDEX	
	RANK	INTERVAL	RANK	INTERVAL	RANK	INTERVAL
Paraguay	91	[88, 92]	85	[81, 89]	97	[94, 97]
Tunisia	92	[87, 93]	91	[91, 93]	87	[78, 88]
Namibia	93	[91, 94]	84	[83, 86]	104	[95, 110]
Bolivia	94	[93, 95]	95	[93, 97]	96	[94, 99]
Ghana	95	[94, 99]	96	[94, 98]	102	[96, 105]
El Salvador	96	[95, 97]	98	[96, 99]	95	[94, 102]
Gambia	97	[96, 106]	92	[91, 98]	119	[118, 120]
Kenya	98	[95, 99]	107	[104, 108]	92	[92, 94]
Morocco	99	[95, 99]	99	[94, 99]	107	[97, 108]
Eswatini	100	[100, 102]	97	[97, 102]	113	[105, 115]
Laos	101	[99, 107]	109	[108, 112]	94	[94, 102]
Algeria	102	[96, 103]	108	[103, 109]	101	[89, 102]
India	103	[98, 104]	106	[103, 108]	105	[97, 107]
Guatemala	104	[102, 105]	103	[100, 105]	110	[107, 111]
Honduras	105	[105, 108]	102	[101, 104]	116	[112, 116]
Cambodia	106	[104, 110]	100	[99, 101]	118	[117, 119]
Nepal	107	[106, 110]	113	[110, 114]	100	[99, 106]
Zambia	108	[106, 113]	111	[110, 114]	103	[103, 110]
Pakistan	109	[107, 113]	110	[109, 113]	111	[108, 111]
Rwanda	110	[106, 113]	101	[100, 106]	123	[114, 123]
Côte d'Ivoire	111	[110, 115]	104	[102, 108]	122	[120, 123]
Senegal	112	[110, 116]	105	[103, 109]	121	[118, 121]
Benin	113	[110, 119]	112	[112, 119]	108	[106, 120]
Nigeria	114	[104, 117]	118	[116, 119]	93	[88, 110]
Nicaragua	115	[110, 116]	114	[108, 114]	112	[108, 115]
Iran	116	[103, 116]	121	[117, 127]	89	[86, 90]
Zimbabwe	117	[116, 117]	124	[121, 124]	99	[98, 104]
Cameroon	118	[115, 120]	120	[118, 121]	109	[104, 112]
Uganda	119	[119, 122]	119	[118, 122]	114	[113, 116]
Malawi	120	[118, 121]	117	[115, 117]	117	[117, 123]
Tanzania	121	[120, 123]	115	[113, 116]	129	[126, 129]
Lesotho	122	[118, 123]	116	[115, 120]	125	[122, 126]
Bangladesh	123	[118, 123]	122	[120, 126]	115	[111, 115]
Burundi	124	[124, 129]	126	[123, 127]	120	[120, 132]
Madagascar	125	[124, 126]	125	[123, 126]	124	[122, 124]
Mauritania	126	[124, 126]	131	[131, 131]	106	[105, 116]
Mali	127	[127, 131]	123	[122, 128]	130	[130, 132]
Guinea	127	[126, 130]	123	[127, 130]	126	[125, 129]
Burkina Faso	120	[120, 130]	129	[124, 128]	134	[130, 134]
	130			[124, 128]		
Angola		[127, 132]	130		132	[128, 134]
Mozambique	131	[130, 132]	128	[127, 130]	133	[132, 134]
Ethiopia  Demogratic Penublic of the Congo	132	[126, 132]	132	[132, 132]	127	[125, 127]
Democratic Republic of the Congo	133	[133, 133]	133	[133, 133]	128	[126, 129]
Chad	134	[134, 134]	134	[134, 134]	131	[131, 134]

Source: European Commission Joint Research Centre (2023).

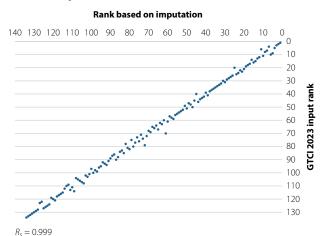
Figure 2 Sensitivity analysis: Impact of modelling choices

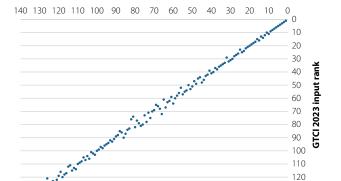
#### Global Talent Competitiveness 2023





#### GTCI 2023 Input sub-index

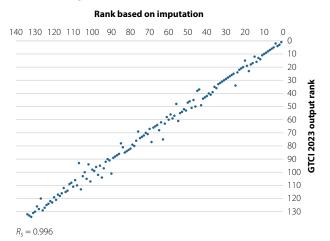


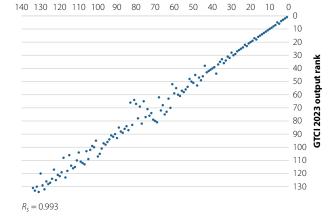


 $R_{\rm s} = 0.999$ 

Rank based on geometric average

#### GTCI 2023 Output sub-index





Rank based on geometric average

Source: European Commission Joint Research Centre (2023). Note:  $R_s$  represents the Spearman rank correlation coefficient (n=134). 130

greater sensitivity. Change in country ranks when considering geometric instead of arithmetic aggregation in the Output sub-index is on average 2.81 positions, while just seven percent of countries exhibit shifts in rank greater than 10 positions. In the most extreme of these cases, aggregating the Output pillars using a geometric instead of an arithmetic average causes Egypt and Sri Lanka fall by 17 positions in the ranking (from 64 to 81, and from 66 to 83 respectively), while Mongolia improves by 12 positions (from 81 to 69). However, these assumptions on the weights, aggregation method, and missing data estimation—primarily concern methodological choices and may be less influential overall than choices related to the background assumptions in the conceptual framework.<sup>10</sup>

Overall, the ranges of uncertainty in the final rankings are fairly modest. This suggests that the rankings of the overwhelming majority of the 134 countries in the overall GTCI 2023 and the Input and Output sub-indices are the result of the countries' own performance (as reflected in the underlying data) and not of the considered modelling choices.<sup>11</sup> Consequently, the JRC recommendation is not to alter the GTCI methodology, but to consider country ranks in the GTCl 2023 and in the Input and Output sub-indices within the 90% confidence intervals in order to take into account to what degree a country's rank depends on the modelling choices.

#### **CONCLUSIONS**

This year's edition of the Global Talent Competitiveness Index (GTCI) marks its tenth anniversary. Throughout the decade of annual publications, the GTCI intention has been to bring attention to the growing challenges that countries around the world face when developing, attracting and maintaining talent, and to highlight best practices in talent management. The JRC statistical audit has investigated the current GTCI framework to assess the statistical properties of the data and the methodology used in constructing the 2023 edition of the index. The JRC analysis suggests that the conceptualised structure is statistically coherent and balanced on multiple levels of the GTCI 2023.

The GTCl is not dominated by any pillar or sub-pillar. All underlying indicators contribute to the variation of the respective Input and Output sub-indices, and to the overall GTCI. Furthermore, the analysis offers statistical justification for the use of equal weights and arithmetic averaging at the various levels of aggregation. It shows that the GTCI is statistically reliable in its current form as the simple average of the six pillars (as measured by a high Cronbach's alpha value of 0.97).

It is reassuring that the majority of the 69 indicators considered in this 2023 edition are found to have a noteworthy impact of at least 10% on the GTCI variance. The only exception, 5.2.4 Highly educated unemployment, is also very close to this threshold, and can explain 8% of the GTCI variance. That nearly all indicators are found to be influential at all levels of aggregation in the GTCI 2023 is the direct result of the careful revision of the GTCI framework undertaken in previous years by the developers. A suggestion for future versions of the GTCI would be to consider alternatives for the indicators which do not include recent data.

This refers mostly to indicators 1.2.6 Urbanisation and 4.1.3 Brain retention, which are currently based on data from 2018.

The country ranks in the GTCI and both its sub-indices are relatively robust to methodological assumptions related to the estimation of missing data, weighting, and aggregation formula. It is reassuring that, for a large majority of the countries included in the GTCI, the overall rank and those in the Input and Output sub-indices are the result of countries' own performance (as reflected in the underlying data) and not of the modelling choices. Consequently, inferences can be drawn for most countries in the GTCI.

Perfect robustness would not be desirable, as it would imply that the GTCI components are perfectly correlated and hence redundant, which is not the case for the GTCI 2023. In fact, one way in which the GTCI helps to highlight other components of human capital and talent competitiveness is by pinpointing the differences in rankings that emerge from a comparison between the GTCI and each of its six pillars.

In the analysis conducted by the JRC, the GTCI ranking differs from any of the six pillar rankings by 10 positions or more for at least 34 percent and up to 55 percent of all countries. This outcome demonstrates the added value of aggregating the six pillars to the GTCI, which helps to identify overall best practices in talent management across the world. It also highlights the importance of taking into account the individual pillars, subpillars, and indicators on their own merit. In doing so, countryspecific strengths and bottlenecks in human capital and talent competitiveness can be identified and used as an input for evidence-based policymaking.

The auditing conducted herein has shown the potential of the GTCI 2023 for reliably identifying weaknesses and best practices and ultimately monitoring national performance in human capital development and the relative competitiveness of countries in talent management. Readers and policy analysts should go beyond the overall GTCI scores and ranks and consider the individual indicators and pillars on their own merit.

The GTCl cannot serve as the definitive yardstick for monitoring progress and performance on talent and competitiveness. Instead, it best represents an ongoing effort by INSEAD, the Descartes Institute for the Future and the Human Capital Leadership Institute to continuously adapt the GTCI framework to reflect improved and new data sources and the theoretical advances on how to leverage talent as a tool for competitiveness. In this way it can effectively contribute to policy discussions on the many challenges that national talent-management systems face in an increasingly competitive and talent-driven world.

#### **ENDNOTES**

- 1 The JRC analysis was based on the recommendations of the OECD and EC JRC (2008) Handbook on Constructing Composite Indicators and on more recent research from the JRC. The JRC auditing studies of composite indicators are available at https://knowledge4policv.ec.europa.eu/ composite-indicators\_en and https://composite-indicators.jrc.ec.europa. eu (all audits were carried out upon request of the index developers).
- 2 OECD & EC JRC (2008).

- 3 Groeneveld & Meeden (1984) set the criteria for absolute skewness above 1 and kurtosis above 3.5. The skewness criterion was relaxed to account for the small sample (134 countries).
- 4 These indicators are: 1.3.1 Labour rights; 2.1.4 International students; 6.1.5 Senior officials and managers; 6.2.2 High-value exports; and 6.2.4 New business density
- 5 See Nunnally (1978).
- 6 Comparison with these three indices has been adopted since the 2022 edition of the GTCI. At the time of writing, the 2023 version of the World Economic Forum's Global Competitiveness Index and of the Global Innovation Index are not available.
- Becker et al. (2017); Paruolo et al. (2013); Montalto et al. (2020); Saisana et al. (2005), (2011); Saisana & Saltelli (2011); Saltelli et al. (2008); Vértesy (2016); Vértesy & Deiss (2016).
- 8 The Expectation-Maximization (EM) algorithm (Little & Rubin, 2002) is an iterative procedure that finds the maximum likelihood estimates of the parameter vector by repeating two steps: (1) The expectation E-step: Given a set of parameter estimates, such as a mean vector and covariance matrix for a multivariate normal distribution, the E-step calculates the conditional expectation of the complete-data log likelihood given the observed data and the parameter estimates. (2) The maximization M-step: Given a complete-data log likelihood, the M-step finds the parameter estimates to maximize the complete-data log likelihood from the E-step. The two steps are iterated until the iterations converge.
- 9 Munda (2008).
- 10 Saltelli & Funtowicz (2014)
- 11 As already mentioned in the uncertainty analysis, about 94% of the simulated median ranks for the GTCI are fewer than three positions away from the reported 2023 rank—this percentage is at 98% in the Input subindex and drops to 85% in the Output sub-index.

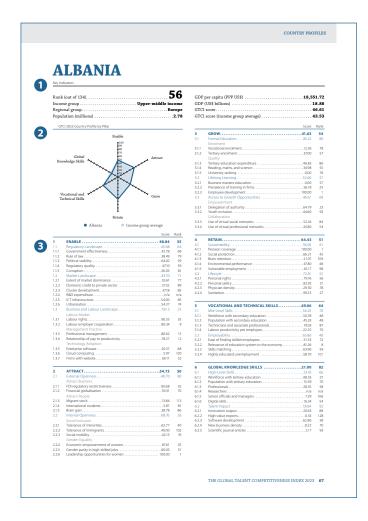
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# Country Profiles

#### **How to Read the Country Profiles**



The country profiles provide more granular information on how each of the 134 countries performs in the various dimensions of the Global Talent Competitiveness Index (GTCI).

Each country profile consists of three parts:

- 1 Key indicators
- 2 Radar chart
- 3 Scores and ranks

- 1 The first section introduces the country's key indicators. It comprises its rank within the GTCI, out of 134 countries; its income group, based on the World Bank's Income Group Classification as of July 2023; and its regional group, based on the United Nations' sub-regional groups. In addition, basic country statistics are presented. These include: population in millions, GDP per capita (PPP US\$), and GDP (current US\$ in billions) from the World Bank's World Development Indicators. Finally, this section presents each country's GTCl score and income group average GTCl
- 2 The second section presents a radar chart that outlines the respective country's performance along the six pillars of the GTCI, and its position with respect to its incomegroup peers. The dark blue line plots the country's score on each of the six pillars of the GTCI, while the shaded area represents the average scores for its corresponding income group.
- 3 The third section lays out the country's normalised scores and ranks across all pillars, sub-pillars, and indicators. The pillars are identified by a bold single digit notation (e.g., 1 ENABLE) and sub-pillars by a two-digit notation (e.g., 1.2 Market Landscape). Under selected sub-pillars, components are provided in grey. There are no values attached to the components, as their role is to contextualise the theoretical framework. The 69 indicators are shown in a three-digit notation (e.g., 1.2.3 Cluster development).

For more information about the method of calculation and indicator definitions, please refer to Appendix I: Technical Notes, and Appendix II: Sources and Definitions, respectively.

#### **Index of Countries**

COUNTRY	PAGE
Albania	67
Algeria	68
Angola	69
Argentina	70
Armenia	71
Australia	72
Austria	73
Azerbaijan	74
Bahrain	75
Bangladesh	76
Belarus	77
Belgium	78
Benin	79
Bolivia, Plurinational St.	80
Bosnia and Herzegovina	81
Botswana	82
Brazil	83
Brunei Darussalam	84
Bulgaria	85
Burkina Faso	86
Burundi	87
Cabo Verde	88
Cambodia	89
Cameroon	90
Canada	91
Chad	92
Chile	93
China	94
Colombia	95
Congo, Dem. Rep.	96
Costa Rica	97
Côte d'Ivoire	98
Croatia	99
Cyprus	100
Czech Republic	101
Denmark	102
Dominican Republic	103
Ecuador	104
Egypt	105
El Salvador	106
Estonia	107
Eswatini	108
Ethiopia	109
Finland	110
France	111

COUNTRY	PAGE
Gambia	112
Georgia	113
Germany	114
Ghana	115
Greece	116
Guatemala	117
Guinea	118
Honduras	119
Hungary	120
Iceland	121
India	122
Indonesia	123
Iran, Islamic Rep.	124
Ireland	125
Israel	126
Italy	127
Jamaica	128
Japan	129
Jordan	130
Kazakhstan	131
Kenya	132
Korea, Rep.	133
Kuwait	134
Kyrgyzstan	135
Lao PDR	136
Latvia	137
Lebanon	138
Lesotho	139
Lithuania	140
Luxembourg	141
Madagascar	142
Malawi	143
Malaysia	144
Mali	145
Malta	146
Mauritania	147
Mauritius	148
Mexico	149
Moldova, Rep.	150
Mongolia	151
Montenegro	152
Morocco	153
Mozambique	154
Namibia	155
Nepal	156

COUNTRY	PAGE
Netherlands	157
New Zealand	158
Nicaragua	159
Nigeria	160
North Macedonia	161
Norway	162
Oman	163
Pakistan	164
Panama	165
Paraguay	166
Peru	167
Philippines	168
Poland	169
Portugal	170
Qatar	171
Romania	172
Russian Federation	173
Rwanda	174
Saudi Arabia	175
Senegal	176
Serbia	177
Singapore	178
Slovakia	179
Slovenia	180
South Africa	181
Spain	182
Sri Lanka	183
Sweden	184
Switzerland	185
Tanzania, United Rep.	186
Thailand	187
Trinidad and Tobago	188
Tunisia	189
Türkiye	190
Uganda	191
Ukraine	192
United Arab Emirates	193
United Kingdom	194
United States of America	195
Uruguay	196
Uzbekistan	190
Viet Nam	197
Zambia	198
Zampia Zimbabwe	
ZITIDabwe	200

#### **ALBANIA**

Gender Equality

 2.2.4
 Economic empowerment of women.
 .87.61

 2.2.5
 Gender parity in high-skilled jobs.
 .80.03

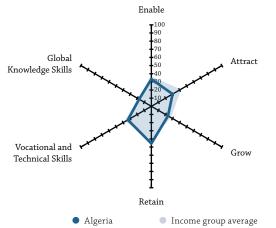
 2.2.6
 Leadership opportunities for women.
 .100.00

Key Inc	licators					
		_	56			
	(out of 134)		_		per capita (PPP US\$)	
	ne group				(US\$ billions)	
_	nal group		-		score	
Popu	lation (millions)		.2.78	GTCI	score (income group average)	43.53
GT	CI 2023 Country Profile by Pillar				Score	Rank
	Enable			3	GROW41.63	54
	<b>T</b> 100			3.1	Formal Education	! 80
	90			3.1.1	Enrolment Vocational enrolment	78
	<b>4</b> 70			3.1.2	Tertiary enrolment	
77	Global 60 Att	tract			Quality	
Kno	owledge Skills			3.1.3	Tertiary education expenditure	
				3.1.4	Reading, maths, and science	
				3.1.5	University ranking	
				3.2 3.2.1	Lifelong Learning	
				3.2.1	Prevalence of training in firms	
				3.2.3	Employee development	
	ocational and Gro	ow		3.3	Access to Growth Opportunities	
16	icinicai okiiis				Empowerment	
	Į			3.3.1	Delegation of authority	23
	1			3.3.2	Youth inclusion	93
	Retain			2.2.2	Collaboration	
	Albania Income group ave:	rage		3.3.3 3.3.4	Use of virtual social networks	
				3.3.4	ose of virtual professional networks	) 54
		Score	Rank	4	RETAIN	51
1	ENABLE	. 48.84	55	4.1	Sustainability	
1.1	Regulatory Landscape		64	4.1.1	Pension coverage	
1.1.1	Government effectiveness		69	4.1.2	Social protection	
1.1.2 1.1.3	Rule of law		79 59	4.1.3	Brain retention	
1.1.3	Political stability		59 59	4.1.4	Environmental performance	48
1.1.5	Corruption		81	4.1.5	Vulnerable employment	98
1.2	Market Landscape		71	4.2	Lifestyle	
1.2.1	Extent of market dominance		77	4.2.1	Personal rights	
1.2.2	Domestic credit to private sector	37.32	89	4.2.2 4.2.3	Personal safety	
1.2.3	Cluster development		85	4.2.4	Sanitation	
1.2.4	R&D expenditure		n/a		54	
1.2.5 1.2.6	ICT infrastructure		85 74			
1.3	Business and Labour Landscape		25	5	VOCATIONAL AND TECHNICAL SKILLS	
	Labour Market	555	23	5.1 5.1.1	Mid-Level Skills	
1.3.1	Labour rights	90.35	35	5.1.1	Population with secondary education	
1.3.2	Labour-employer cooperation	80.24	9	5.1.3	Technicians and associate professionals	
	Management Practice			5.1.4	Labour productivity per employee	70
1.3.3	Professional management		15	5.2	Employability63.86	
1.3.4	Relationship of pay to productivity  Technology Adoption	/8.2/	12	5.2.1	Ease of finding skilled employees	
1.3.5	Enterprise software	20.37	68	5.2.2	Relevance of education system to the economy	
1.3.6	Cloud computing		120	5.2.3 5.2.4	Skills matching	
1.3.7	Firms with website		52	3.2.1	riging cadeaca aremployment	
				6	GLOBAL KNOWLEDGE SKILLS21.00	82
2	ATTRACT		50	6.1	High-Level Skills	66
2.1	External Openness	40.70	80	6.1.1	Workforce with tertiary education	
2 1 1	Attract Business	05.00	25	6.1.2	Population with tertiary education	
2.1.1 2.1.2	FDI regulatory restrictiveness		35 70	6.1.3	Professionals	
۷.۱.۷	Financial globalisation	١٥.۶ر	70	6.1.4 6.1.5	Researchers	
2.1.3	Migrant stock	13.84	113	6.1.6	Digital skills	
2.1.4	International students.		81	6.2	Talent Impact	
2.1.5	Brain gain		86	6.2.1	Innovation output	
2.2	Internal Openness	68.76	26	6.2.2	High-value exports	128
	Social Inclusion			6.2.3	Software development	
2.2.1	Tolerance of minorities		40	6.2.4	New business density	
2.2.2 2.2.3	Tolerance of immigrants		102 76	6.2.5	Scientific journal articles	93
د.د.ي	Gender Equality		70			

#### **ALGERIA**

Key Indicators

Rank (out of 134)	102
Income group	Lower-middle income
	.Northern Africa and Western Asia
GTCI 2023 Country Profile by Pilla	r
	Enable
	<b>I</b> <sup>100</sup> 190



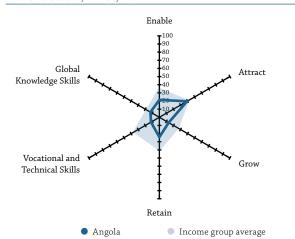
	Score	Rank
1	ENABLE	105
1.1	Regulatory Landscape24.60	118
1.1.1	Government effectiveness	103
1.1.2	Rule of law	111
1.1.3	Political stability	111
1.1.4	Regulatory quality11.71	131
1.1.5	Corruption	95
1.2	Market Landscape	83
1.2.1	Extent of market dominance	46
1.2.2	Domestic credit to private sector25.85	110
1.2.3	Cluster development	64
1.2.4	R&D expenditure9.81	57
1.2.5	ICT infrastructure37.28	109
1.2.6	Urbanisation	49
1.3	Business and Labour Landscape	100
1.3.1	Labour rights	80
1.3.1	Labour-employer cooperation	78
1.3.2		70
1 2 2	Management Practice Professional management	117
1.3.3	<u> </u>	117 76
1.3.4	Relationship of pay to productivity	76
1.3.5	Enterprise software	72
1.3.6	Cloud computing15.28	69
1.3.7	Firms with website	n/a
2	ATTRACT30.07	126
2.1	External Openness	133
	Attract Business	
2.1.1	FDI regulatory restrictiveness	76
2.1.2	Financial globalisation	128
	Attract People	
2.1.3	Migrant stock	118
2.1.4	International students	98
2.1.5	Brain gain	107
2.2	Internal Openness	114
	Social Inclusion	
2.2.1	Tolerance of minorities	90
2.2.2	Tolerance of immigrants	104
2.2.3	Social mobility	110
2.2.4	Economic empowerment of women39.82	123
2.2.5	Gender parity in high-skilled jobs	93
2.2.6	Leadership opportunities for women	41

	per capita (PPP US\$)	
	score	
	score (income group average)	
	Score	Ranl
3	GROW	111
3.1	Formal Education	108
	Enrolment	
3.1.1 3.1.2	Vocational enrolment	68 63
J.1.2	Quality	0.
3.1.3	Tertiary education expendituren/a	n/a
3.1.4	Reading, maths, and science	76
3.1.5	University ranking	76
3.2 3.2.1	Lifelong Learning	119 57
3.2.1	Prevalence of training in firms	n/a
3.2.3	Employee development	98
3.3	Access to Growth Opportunities	95
	Empowerment	
3.3.1	Delegation of authority	120
3.3.2	Youth inclusion	76
3.3.3	Collaboration Use of virtual social networks	87
3.3.4	Use of virtual professional networks	90
4	RETAIN45.65	90
4.1	Sustainability	90
4.1.1	Pension coveragen/a	n/a
4.1.2	Social protection53.51	62
4.1.3	Brain retention	117
4.1.4 4.1.5	Environmental performance	115 69
4.1.3	Vulnerable employment	90
4.2.1	Personal rights	107
4.2.2	Personal safety51.45	86
4.2.3	Physician density	79
4.2.4	Sanitation	86
5	VOCATIONAL AND TECHNICAL SKILLS33.32	103
5.1	Mid-Level Skills	94
5.1.1	Workforce with secondary education	94
5.1.2	Population with secondary education	n/a
5.1.3 5.1.4	Technicians and associate professionals	86 63
5.1.4	Labour productivity per employee	115
5.2.1	Ease of finding skilled employees	78
5.2.2	Relevance of education system to the economy	86
5.2.3	Skills matching	n/a
5.2.4	Highly educated unemploymentn/a	n/a
6	GLOBAL KNOWLEDGE SKILLS	97
6.1	High-Level Skills	80
6.1.1	Workforce with tertiary education	79
0	Population with tertiary educationn/a	n/a
6.1.2		71
6.1.2 6.1.3	Professionals	_
6.1.2 6.1.3 6.1.4	Researchers	
6.1.2 6.1.3 6.1.4 6.1.5	Researchers 9.29 Senior officials and managers 18.65	72
6.1.2 6.1.3 6.1.4	Researchers         9.29           Senior officials and managers         18.65           Digital skills         30.85	72 28
6.1.2 6.1.3 6.1.4 6.1.5 6.1.6	Researchers 9.29 Senior officials and managers 18.65	72 28 110
6.1.2 6.1.3 6.1.4 6.1.5 6.1.6 6.2 6.2.1 6.2.2	Researchers         9.29           Senior officials and managers         18.65           Digital skills         30.85           Talent Impact         13.95           Innovation output         9.24           High-value exports         1.55	72 28 110 114
6.1.2 6.1.3 6.1.4 6.1.5 6.1.6 6.2 6.2.1 6.2.2 6.2.3	Researchers         9.29           Senior officials and managers         18.65           Digital skills         30.85           Talent Impact         13.95           Innovation output         9.24           High-value exports         1.55           Software development         52.36	72 28 110 114 114 85
6.1.2 6.1.3 6.1.4 6.1.5 6.1.6 6.2 6.2.1 6.2.2	Researchers         9.29           Senior officials and managers         18.65           Digital skills         30.85           Talent Impact         13.95           Innovation output         9.24           High-value exports         1.55	54 72 28 110 114 114 85 105

## **ANGOLA**

Key Indicators

130
Lower-middle income
Sub-Saharan Africa
35.59



	Score	Rank
1	ENABLE	130
1.1	Regulatory Landscape	115
1.1.1	Government effectiveness	128
1.1.2	Rule of law	120
1.1.3	Political stability42.69	106
1.1.4	Regulatory quality24.90	110
1.1.5	Corruption	95
1.2	Market Landscape	128
1.2.1	Extent of market dominance0.53	133
1.2.2	Domestic credit to private sector	129
1.2.3	Cluster development	132
1.2.4	R&D expenditure0.41	113
1.2.5	ICT infrastructure39.39	106
1.2.6	Urbanisation	66
1.3	Business and Labour Landscape	131
	Labour Market	
1.3.1	Labour rights	76
1.3.2	Labour-employer cooperation	129
	Management Practice	
1.3.3	Professional management	132
1.3.4	Relationship of pay to productivity	133
1.5.4	Technology Adoption	133
1.3.5	Enterprise software	108
1.3.6	Cloud computing	122
1.3.7	Firms with website	n/a
		.,, a
2	ATTRACT39.25	104
2.1	External Openness	56
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation	51
	Attract People	
2.1.3	Migrant stock	77
2.1.4	International students	n/a
2.1.5	Brain gain	73
2.7.2	Internal Openness	131
2.2	Social Inclusion	151
2.2.1	Tolerance of minorities	117
2.2.1	Tolerance of immigrants	91
2.2.2	9	134
۷.۷.۵	Social mobility	134
224	Gender Equality	0.3
2.2.4	Economic empowerment of women	83
2.2.5	Gender parity in high-skilled jobs	120
2.2.6	Leadership opportunities for women	123

JTC1	score (income group average)	32.
	Score	Ra
3	GROW13.14	- 1
3.1	Formal Education. 9.29	
	Enrolment	
3.1.1	Vocational enrolment	
3.1.2	Tertiary enrolment	
	Quality	
3.1.3	Tertiary education expenditure	
3.1.4 3.1.5	Reading, maths, and science	
3.1.5 3.2	University ranking	
3.2.1	Business masters education	
3.2.1	Prevalence of training in firms	
3.2.3	Employee development	
3.3	Access to Growth Opportunities	
	Empowerment	
3.3.1	Delegation of authority	
3.3.2	Youth inclusion	
	Collaboration	
3.3.3	Use of virtual social networks	
3.3.4	Use of virtual professional networks	
4	RETAIN	1
4.1	Sustainability	
4.1.1	Pension coverage	
4.1.2	Social protection	
4.1.3	Brain retention	
4.1.4	Environmental performance	
4.1.5	Vulnerable employment32.82	
4.2	Lifestyle	
4.2.1	Personal rights	
4.2.2	Personal safety	
4.2.3 4.2.4	Physician density	
+.2.4	Janitation	
5	VOCATIONAL AND TECHNICAL SKILLS11.84	1
5.1	Mid-Level Skills	
5.1.1	Workforce with secondary education	
5.1.2	Population with secondary education	
5.1.3	Technicians and associate professionals7.50	
5.1.4	Labour productivity per employee	
5.2	Employability10.54	
5.2.1	Ease of finding skilled employees	
5.2.2	Relevance of education system to the economy1.69	
5.2.3	Skills matching31.52	
5.2.4	Highly educated unemployment0.00	
5	GLOBAL KNOWLEDGE SKILLS12.65	
5.1	High-Level Skills	
5.1.1	Workforce with tertiary education	
5.1.2 5.1.3	Population with tertiary education	
5.1.4	Researchers	
5.1.5	Senior officials and managers	
5.1.6	Digital skills	
5.2	Talent Impact	
5.2.1	Innovation output9.41	
5.2.2	High-value exports	
5.2.3	Software development	
4	New business density	
5.2.4	Scientific journal articles	

#### **ARGENTINA**

Rank	(out of 134)		<b>61</b>	GDP	per capita (PPP US\$)	504.59
Regio	ne group	rica and the Carib	bean	GDP GTCI	(US\$ billions)	632.77 . 45.60
-	CI 2023 Country Profile by Pillar				Score	
				3	GROW	7 42
	Enable			<b>3</b> .1	Formal Education	
	<b>T</b> 100			٥.١	Enrolment 40.8	. 32
	‡90 80			3.1.1	Vocational enrolment	a n/a
	<b>+</b> 70			3.1.2	Tertiary enrolment	
	Global +60	Attract			Quality	
Kno	owledge Skills			3.1.3	Tertiary education expenditure52.60	76
	30 20	<b>X</b>		3.1.4	Reading, maths, and science	5 68
	10			3.1.5	University ranking44.38	
				3.2	Lifelong Learning40.56	
				3.2.1	Business masters education	
		***		3.2.2 3.2.3	Prevalence of training in firms	
	ocational and	Grow		3.2.3	Employee development	
Τe	echnical Skills	31011		٥.٥	Access to Growth Opportunities	, 40
	t			3.3.1	Delegation of authority	) 99
	I			3.3.2	Youth inclusion	
	Retain				Collaboration	
	• A			3.3.3	Use of virtual social networks	
	Argentina	ne group average		3.3.4	Use of virtual professional networks	9 34
		Score	Rank			
4	ENABLE	36.00		4	RETAIN	7 48
<b>1</b>	ENABLE		<b>91</b> 85	4.1	Sustainability	3 59
1.1.1	Regulatory Landscape		91	4.1.1	Pension coverage84.34	4 64
1.1.2	Rule of law		92	4.1.2	Social protection	
1.1.3	Political stability.		66	4.1.3	Brain retention	
1.1.4	Regulatory quality		106	4.1.4	Environmental performance	
1.1.5	Corruption	28.77	74	4.1.5	Vulnerable employment	
1.2	Market Landscape	40.47	77	4.2 4.2.1	Lifestyle       .75.30         Personal rights       .89.17	
1.2.1	Extent of market dominance		84	4.2.1	Personal safety	
1.2.2	Domestic credit to private sector		117	4.2.3	Physician density 61.47	
1.2.3 1.2.4	Cluster development		104 58	4.2.4	Sanitation	
1.2.4	ICT infrastructure.		74			
1.2.6	Urbanisation		9	5	VOCATIONAL AND TECHNICAL SKILLS	67
1.3	Business and Labour Landscape	34.16	109	5.1	Mid-Level Skills	
	Labour Market			5.1.1	Workforce with secondary education	
1.3.1	Labour rights	61.39	83	5.1.2	Population with secondary education	
1.3.2	Labour-employer cooperation	25.38	115	5.1.3	Technicians and associate professionals	
	Management Practice			5.1.4	Labour productivity per employee27.57	7 62
1.3.3	Professional management		75 120	5.2	Employability55.52	
1.3.4	Relationship of pay to productivity  Technology Adoption	25./9	129	5.2.1	Ease of finding skilled employees	
1.3.5	Enterprise software	730	121	5.2.2 5.2.3	Relevance of education system to the economy	
1.3.6	Cloud computing		124	5.2.4	Highly educated unemployment	
1.3.7	Firms with website	69.09	36			
	ATTRACT			6	GLOBAL KNOWLEDGE SKILLS23.78	
2	ATTRACT		63	6.1	High-Level Skills	
2.1	External Openness	40.54	81	6.1.1	Workforce with tertiary education	
2.1.1	Attract Business FDI regulatory restrictiveness	65.68	58	6.1.2 6.1.3	Population with tertiary education	
2.1.2	Financial globalisation		83	6.1.4	Researchers	
	Attract People			6.1.5	Senior officials and managers	
2.1.3	Migrant stock	43.11	62	6.1.6	Digital skills/a	
2.1.4	International students		60	6.2	Talent Impact23.55	
2.1.5	Brain gain		114	6.2.1	Innovation output	
2.2	Internal Openness	62.52	41	6.2.2	High-value exports	
2 2 4	Social Inclusion	(500	2.4	6.2.3	Software development	
2.2.1	Tolerance of minorities  Tolerance of immigrants		34 21	6.2.4 6.2.5	New business density	
2.2.2	Social mobility		118	0.2.3	Secretarie journal articles	, 05
	Gender Equality					
2.2.4	Economic empowerment of women	70.80	83			
2.2.5	Gender parity in high-skilled jobs	89.59	26			
2.2.6	Leadership opportunities for women	42.42	85			

#### **ARMENIA**

 2.2.4
 Economic empowerment of women
 .82.30

 2.2.5
 Gender parity in high-skilled jobs
 .79.03

 2.2.6
 Leadership opportunities for women
 .58.60

Gender Equality

Dank	(out of 134)	Ę	55	CDP	per capita (PPP US\$)	M1 52
	ne group		_		(US\$ billions)	
	onal group				score	
-	lation (millions)				score (income group average)	
_	CI 2023 Country Profile by Pillar				Score	
	, ,			3	GROW29.32	91
	Enable <b>I</b> <sup>100</sup>			3.1	Formal Education. 21.83 Enrolment	87
	80 70			3.1.1 3.1.2	Vocational enrolment	71 59
Kno	Global 50 owledge Skills	Attract		3.1.3	Quality Tertiary education expenditure	100
	30			3.1.4	Reading, maths, and science	
	120			3.1.5	University ranking0.00	76
	/ <b>*</b> /			3.2	Lifelong Learning27.00	98
	** * * * * * * * * * * * * * * * * * *			3.2.1	Business masters education0.00	57
				3.2.2	Prevalence of training in firms	61
V	ocational and			3.2.3	Employee development	73
	echnical Skills	Grow		3.3	Access to Growth Opportunities	82
	+			3.3.1	Delegation of authority	109
	Retain			3.3.2	Youth inclusion	86
	Armenia	verage		3.3.3 3.3.4	Use of virtual social networks	67 78
		Score	Rank			
1	ENABLE	42 79	70	4	RETAIN67.07	44
1.1	Regulatory Landscape.		<b>75</b>	4.1	Sustainability	73
1.1.1	Government effectiveness		86	4.1.1	Pension coverage64.85	76
1.1.2	Rule of law		68	4.1.2	Social protection	71
1.1.3	Political stability.		108	4.1.3	Brain retention	85
1.1.4	Regulatory quality		63	4.1.4	Environmental performance	45
1.1.5	Corruption		51	4.1.5	Vulnerable employment	
1.2	Market Landscape		79	4.2	Lifestyle	32
1.2.1	Extent of market dominance	39.86	63	4.2.1	Personal rights	54
1.2.2	Domestic credit to private sector	48.25	63	4.2.2	Personal safety	36
1.2.3	Cluster development	25.00	114	4.2.3 4.2.4	Physician density	12 66
1.2.4	R&D expenditure		89	4.2.4	3d11(dt101193.34	00
1.2.5	ICT infrastructure		62			
1.2.6	Urbanisation		70	5	VOCATIONAL AND TECHNICAL SKILLS 52.86	54
1.3	Business and Labour Landscape	47.19	56	5.1	Mid-Level Skills	51
1 2 1	Labour Market	01.22		5.1.1	Workforce with secondary education	
1.3.1 1.3.2	Labour rights		55 59	5.1.2	Population with secondary education	19
1.5.2	Management Practice	40./3	33	5.1.3	Technicians and associate professionals	
1.3.3	Professional management	48.95	71	5.1.4	Labour productivity per employee	
1.3.4	Relationship of pay to productivity		50	5.2 5.2.1	Employability	68 86
	Technology Adoption			5.2.2	Relevance of education system to the economy	99
1.3.5	Enterprise software	19.73	73	5.2.3	Skills matching	2
1.3.6	Cloud computing		61	5.2.4	Highly educated unemployment	89
1.3.7	Firms with website	55.45	56		3,	
	ATTRACT	F7.66	44	6	GLOBAL KNOWLEDGE SKILLS 30.29	53
2 1	ATTRACT		<b>41</b>	6.1	High-Level Skills	43
2.1	External Openness	53.63	48	6.1.1	Workforce with tertiary education	47
2.1.1	Attract Business FDI regulatory restrictiveness	05 OF	9	6.1.2	Professionals 36.33	11
2.1.1	Financial globalisation		65	6.1.3 6.1.4	Professionals	62 n/a
۷.۱.۷	Attract People		CO	6.1.4	Senior officials and managers	n/a 83
2.1.3	Migrant stock	48 71	51	6.1.6	Digital skills	n/a
2.1.4	International students.		44	6.2	Talent Impact	68
2.1.5	Brain gain		82	6.2.1	Innovation output	72
2.2	Internal Openness		43	6.2.2	High-value exports	70
	Social Inclusion			6.2.3	Software development69.16	48
2.2.1	Tolerance of minorities		63	6.2.4	New business density	48
222	Tolerance of immigrants	56.92	72	625	Scientific journal articles 797	64

#### **AUSTRALIA**

Key Inc	dicators					
			0			
Rank	(out of 134)		8	GDP	per capita (PPP US\$)	,625.36
Incor	ne group	igh in	come		(US\$ billions)	
	onal group Eastern, Southeastern Asia a	_			score	•
_	lation (millions)				score (income group average)	
GT	CI 2023 Country Profile by Pillar				Sco	re Rank
				3	GROW	9 6
	Enable <b>T</b> 100			3.1	Formal Education. 68: Enrolment	
	90 80			3.1.1	Vocational enrolment45.0	07 19
	Global Attra			3.1.2	Tertiary enrolment	45 3
Kno	owlodgo Skille	ct			Quality	
Mic	Wiedge Jkins 140			3.1.3	Tertiary education expenditure	
	20			3.1.4	Reading, maths, and science	
	100			3.1.5	University ranking	
				3.2 3.2.1	Lifelong Learning	
				3.2.1	Prevalence of training in firms	
				3.2.3	Employee development	
	ocational and Grow			3.3	Access to Growth Opportunities	
Τe	echnical Skills			2.3	Empowerment	
	Y			3.3.1	Delegation of authority	11 9
	1			3.3.2	Youth inclusion85.8	
	Retain				Collaboration	
	A			3.3.3	Use of virtual social networks	17 27
	<ul> <li>Australia</li> <li>Income group average</li> </ul>	ge		3.3.4	Use of virtual professional networks	38 7
		Score	Rank			
	ENADLE	74.25		4	RETAIN 83.5	6 14
1	ENABLE		15	4.1	Sustainability	15 15
1.1 1.1.1	Regulatory Landscape		11 12	4.1.1	Pension coverage	00 1
1.1.2	Rule of law		12	4.1.2	Social protection	31 27
1.1.3	Political stability.		26	4.1.3	Brain retention	
1.1.4	Regulatory quality		4	4.1.4	Environmental performance	
1.1.5	Corruption		12	4.1.5	Vulnerable employment	
1.2	Market Landscape	.68.67	18	4.2 4.2.1	Lifestyle	
1.2.1	Extent of market dominance	.63.80	30	4.2.1	Personal safety	
1.2.2	Domestic credit to private sector		12	4.2.3	Physician density	
1.2.3	Cluster development		29	4.2.4	Sanitation	
1.2.4 1.2.5	R&D expenditure ICT infrastructure		20 7			
1.2.5	Urbanisation		22		V0.61=10111 AND ==61111611 6V1116	
1.3	Business and Labour Landscape		15	5	VOCATIONAL AND TECHNICAL SKILLS 66.2	
	Labour Market			5.1 5.1.1	Mid-Level Skills	
1.3.1	Labour rights	.90.75	31	5.1.2	Population with secondary education	
1.3.2	Labour-employer cooperation	.63.93	32	5.1.3	Technicians and associate professionals	
	Management Practice			5.1.4	Labour productivity per employee	
1.3.3	Professional management		9	5.2	Employability75.6	58 18
1.3.4	Relationship of pay to productivity	.68.55	33	5.2.1	Ease of finding skilled employees	
1 2 5	Technology Adoption	4700	21	5.2.2	Relevance of education system to the economy	
1.3.5 1.3.6	Enterprise software		21 13	5.2.3	Skills matching	
1.3.7	Firms with website		18	5.2.4	Highly educated unemployment86.7	75 30
				6	GLOBAL KNOWLEDGE SKILLS65.9	2 3
2	ATTRACT		6	6.1	High-Level Skills	
2.1	External Openness	. 77.16	10	6.1.1	Workforce with tertiary education56.8	
	Attract Business	cc ::		6.1.2	Population with tertiary education	
2.1.1	FDI regulatory restrictiveness		63	6.1.3	Professionals	
2.1.2	Financial globalisation	./0.24	34	6.1.4	Researchers	
2.1.3	Attract People Migrant stock	70 56	10	6.1.5 6.1.6	Senior officials and managers	
2.1.3	International students		6	6.2	Digital skills         n           Talent Impact         69.8	
2.1.5	Brain gain		17	6.2.1	Innovation output	
2.2	Internal Openness		12	6.2.2	High-value exports	
	Social Inclusion			6.2.3	Software development85.2	
2.2.1	Tolerance of minorities	. 69.15	27	6.2.4	New business density	
2.2.2	Tolerance of immigrants	.93.85	6	6.2.5	Scientific journal articles	35 4
2 2 2		7715	4.5			

20

Gender Equality

 2.2.4
 Economic empowerment of women.
 95.58

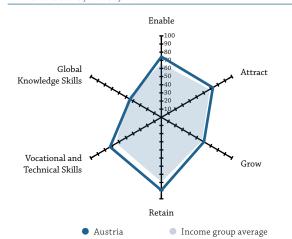
 2.2.5
 Gender parity in high-skilled jobs.
 82.90

 2.2.6
 Leadership opportunities for women.
 62.14

#### **AUSTRIA**

Key Indicators

Rank (out of 134)	17
Income group	High income
Regional group	Europe
Population (millions)	9.04



	Score	Rank
1	ENABLE	14
1.1	Regulatory Landscape82.17	15
1.1.1	Government effectiveness	11
1.1.2	Rule of law92.83	7
1.1.3	Political stability	20
1.1.4	Regulatory quality	19
1.1.5	Corruption	21
1.2	Market Landscape	19
1.2.1	Extent of market dominance	6
1.2.2	Domestic credit to private sector	32
1.2.3	Cluster development	10
1.2.4	R&D expenditure59.44	8
1.2.5	ICT infrastructure	54
1.2.6	Urbanisation	79
1.3	Business and Labour Landscape	8
	Labour Market	
1.3.1	Labour rights	1
1.3.2	Labour-employer cooperation	8
	Management Practice	Ü
1.3.3	Professional management	26
1.3.4	Relationship of pay to productivity	17
1.5.1	Technology Adoption	17
1.3.5	Enterprise software	26
1.3.6	Cloud computing	18
1.3.7	Firms with website	4
2	ATTRACT73.01	17
2.1	External Openness	19
	Attract Business	
2.1.1	FDI regulatory restrictiveness	52
2.1.2	Financial globalisation	21
	Attract People	
2.1.3	Migrant stock	21
2.1.4	International students	12
2.1.5	Brain gain	33
2.2	Internal Openness	15
2.2	Social Inclusion	13
2.2.1	Tolerance of minorities	36
2.2.2	Tolerance of immigrants	51
2.2.3	Social mobility	12
	Gender Equality	
2.2.4	Economic empowerment of women95.58	20
2.2.5	Gender parity in high-skilled jobs90.14	23
2.2.6	Leadership opportunities for women58.18	39

<b>61</b> .9	score (income group average)	GTCI
Ran	Score	
1	GROW	3
1	Formal Education	3.1
1	Enrolment Vocational enrolment	3.1.1
1	Tertiary enrolment	3.1.2
	Quality	
	Tertiary education expenditure	3.1.3
2	Reading, maths, and science	3.1.4
2	University ranking	3.1.5
1	Lifelong Learning	3.2 3.2.1
3	Prevalence of training in firms	3.2.1
,	Employee development	3.2.3
3	Access to Growth Opportunities	3.3
	Empowerment	
3	Delegation of authority	3.3.1
3	Youth inclusion	3.3.2
	Collaboration	
2	Use of virtual social networks	3.3.3
4	use of virtual professional networks29.56	3.3.4
	RETAIN89.55	4
1	Sustainability86.03	4.1
	Pension coverage	4.1.1
	Social protection	4.1.2
3	Brain retention	1.1.3
1	Environmental performance	1.1.4
ı	Vulnerable employment	4.1.5 4.2
2	Personal rights 93.07	+.2 4.2.1
1	Personal safety. 92.75	4.2.2
	Physician density86.46	4.2.3
1	Sanitation	4.2.4
	VOCATIONAL AND TECHNICAL SKILLS	5
	Mid-Level Skills	5.1
1	Workforce with secondary education	5.1.1
1	Population with secondary education72.36	5.1.2
	Technicians and associate professionals	5.1.3
1	Labour productivity per employee	5.1.4
2	Employability72.87	5.2
5	Ease of finding skilled employees	5.2.1
2	Relevance of education system to the economy	5.2.2
3	Highly educated unemployment	5.2.4
2	GLOBAL KNOWLEDGE SKILLS	5
3 6	High-Level Skills 41.79 Workforce with tertiary education 28.04	5.1 5.1.1
3	Population with tertiary education	5.1.2
2	Professionals	5.1.3
1	Researchers65.96	5.1.4
4	Senior officials and managers	5.1.5
1	Digital skills	5.1.6
2	Talent Impact	5.2
2	Innovation output	5.2.1
2	Software development	5.2.3
9	New business density	5.2.4
1	Scientific journal articles	5.2.5

#### **AZERBAIJAN**

Incon Regio	(out of 134)	per-middle in a and Western	Asia	GDP GTCI	per capita (PPP US\$)	78.72 46.19
GT	CI 2023 Country Profile by Pillar				Score	Rank
				3	GROW	79
	Enable $oldsymbol{ar{I}}_{90}^{100}$			3.1	Formal Education	75
	60 Global 60	Attract		3.1.1 3.1.2	Vocational enrolment	67 78
Kno	wledge Skills	*		3.1.3	Tertiary education expenditure	
	20 20			3.1.4 3.1.5	Reading, maths, and science         27.81           University ranking         9.02	64 71
				3.1.5	Lifelong Learning	56
				3.2.1	Business masters education	57
				3.2.2	Prevalence of training in firms39.84	49
V	ocational and	<b>X</b>		3.2.3	Employee development	33
Te	chnical Skills	Grow		3.3	Access to Growth Opportunities	98
	†			3.3.1	Empowerment Delegation of authority	46
	İ			3.3.2	Youth inclusion	n/a
	Retain				Collaboration	
	• 4 1			3.3.3	Use of virtual social networks	101
	Azerbaijan Income gr	oup average		3.3.4	Use of virtual professional networks9.06	97
		Score	Rank			
1	ENABLE	43.26	67	4	RETAIN	62
1.1	Regulatory Landscape		94	4.1 4.1.1	Sustainability 58.14 Pension coverage 72.53	58 72
1.1.1	Government effectiveness		57	4.1.1	Social protection	22
1.1.2	Rule of law		99 109	4.1.3	Brain retention	26
1.1.3 1.1.4	Political stability		73	4.1.4	Environmental performance	79
1.1.5	Corruption		127	4.1.5	Vulnerable employment	106
1.2	Market Landscape		64	4.2	Lifestyle	70
1.2.1	Extent of market dominance	75.14	9	4.2.1 4.2.2	Personal rights	122 50
1.2.2	Domestic credit to private sector		115	4.2.2	Physician density	46
1.2.3	Cluster development		27 88	4.2.4	Sanitation	61
1.2.4 1.2.5	R&D expenditure ICT infrastructure		00 79			
1.2.6	Urbanisation		87	5	VOCATIONAL AND TECHNICAL SKILLS67.56	15
1.3	Business and Labour Landscape	50.64	42	5.1	Mid-Level Skills	30
	Labour Market			5.1.1	Workforce with secondary education	8
1.3.1	Labour rights		n/a	5.1.2	Population with secondary education90.27	3
1.3.2	Labour-employer cooperation	62.30	37	5.1.3	Technicians and associate professionals	52
1.3.3	Management Practice Professional management	66.63	32	5.1.4 5.2	Labour productivity per employee	79 14
1.3.4	Relationship of pay to productivity		15	5.2.1	Employability	27
	Technology Adoption			5.2.2	Relevance of education system to the economy69.73	20
1.3.5	Enterprise software		61	5.2.3	Skills matching	n/a
1.3.6 1.3.7	Cloud computing		86 42	5.2.4	Highly educated unemployment	21
	ATTRACT	F4 70	45	6	GLOBAL KNOWLEDGE SKILLS18.10	95
<b>2</b> 2.1	External Openness		<b>45</b> 45	6.1	High-Level Skills	79
2.1	Attract Business		40	6.1.1 6.1.2	Workforce with tertiary education	53 42
2.1.1	FDI regulatory restrictiveness	80.27	45	6.1.3	Professionals	55
2.1.2	Financial globalisation	74.98	40	6.1.4	Researchers	41
	Attract People			6.1.5	Senior officials and managers	107
2.1.3	Migrant stock		83	6.1.6	Digital skills	77
2.1.4	International students		75 14	6.2 6.2.1	Talent Impact. 15.25 Innovation output 10.73	103 106
2.1.3	Internal Openness		52	6.2.1	High-value exports	97
	Social Inclusion			6.2.3	Software development	88
2.2.1	Tolerance of minorities	41.49	71	6.2.4	New business density	77
2.2.2	Tolerance of immigrants		79	6.2.5	Scientific journal articles	83
2.2.3	Social mobility	66.25	32			
2.2.4	Economic empowerment of women		86			
2.2.5	Gender parity in high-skilled jobs		73			
2.2.6	Leadership opportunities for women		48			

#### **BAHRAIN**

Key Indicators

	me group	U			(US\$ billions)	
-	onal group				score (income group average)	
ropu	iation (mimons)		.1.47	GICI	score (income group average)	01.51
GT	CI 2023 Country Profile by Pillar				Score	
	Enable			3	GROW51.03	30
	<b>T</b> 100			3.1	Formal Education	56
	<b>+</b> 90			3.1.1	Vocational enrolment	83
	\$0 70			3.1.1	Tertiary enrolment	48
	Global	Attract		52	Quality	
Kno	owledge Skills	, LANA		3.1.3	Tertiary education expenditure74.65	29
	30 20			3.1.4	Reading, maths, and science	n/a
	10			3.1.5	University ranking	59
				3.2	Lifelong Learning48.91	31
				3.2.1	Business masters education	41
		The state of the s		3.2.2 3.2.3	Prevalence of training in firms	n/a 26
	ocational and	Grow		3.2.3	Employee development	19
Te	echnical Skills	0.011		5.5	Empowerment	13
	Ť			3.3.1	Delegation of authority	32
	I			3.3.2	Youth inclusion	n/a
	Retain				Collaboration	
	• D1 :			3.3.3	Use of virtual social networks	2
	Bahrain     I	ncome group average		3.3.4	Use of virtual professional networks	23
		Score	Rank			
1	ENABLE	52.11	46	4	RETAIN57.50	69
1.1	Regulatory Landscape	53.54	49	4.1	Sustainability	32
1.1.1	Government effectiveness		39	4.1.1	Pension coverage	70
1.1.2	Rule of law	57.81	42	4.1.2 4.1.3	Social protection	34 29
1.1.3	Political stability		94	4.1.4	Environmental performance	67
1.1.4	Regulatory quality		35	4.1.5	Vulnerable employment	2
1.1.5	Corruption		55	4.2	Lifestyle	99
1.2	Market Landscape		35	4.2.1	Personal rights	126
1.2.1 1.2.2	Extent of market dominance  Domestic credit to private sector		49 43	4.2.2	Personal safety53.23	83
1.2.3	Cluster development		35	4.2.3	Physician density	91
1.2.4	R&D expenditure		105	4.2.4	Sanitation	1
1.2.5	ICT infrastructure		55			
1.2.6	Urbanisation	87.68	14	5	VOCATIONAL AND TECHNICAL SKILLS51.78	56
1.3	Business and Labour Landscape	48.16	53	5.1	Mid-Level Skills	73
	Labour Market			5.1.1	Workforce with secondary education	116
1.3.1	Labour rights		n/a	5.1.2	Population with secondary educationn/a	n/a
1.3.2	Labour-employer cooperation	67.74	23	5.1.3	Technicians and associate professionals25.10	76
400	Management Practice		2.2	5.1.4	Labour productivity per employee64.15	15
1.3.3	Professional management		33	5.2	Employability69.95	29
1.3.4	Relationship of pay to productivity Technology Adoption	/0.5/	14	5.2.1	Ease of finding skilled employees	18
1.3.5	Enterprise software	1733	87	5.2.2 5.2.3	Relevance of education system to the economy         59.36           Skills matching        /a	35
1.3.6	Cloud computing		81	5.2.3 5.2.4	Highly educated unemployment	n/a n/a
1.3.7	Firms with website		n/a	3.2.4	riigiily cadcacca ariciilpioyment	11/4
				6	GLOBAL KNOWLEDGE SKILLS26.74	63
2	ATTRACT		29	6.1	High-Level Skills	50
2.1	External Openness	77.48	9	6.1.1	Workforce with tertiary education	98
	Attract Business		,	6.1.2	Population with tertiary educationn/a	n/a
2.1.1	FDI regulatory restrictiveness		n/a	6.1.3	Professionals	84
2.1.2	Financial globalisation	09.13	14	6.1.4	Researchers	75 17
2.1.3	Migrant stock	94.66	4	6.1.5 6.1.6	Senior officials and managers	17 5
2.1.3	International students		22	6.2	Digital skills         67.23           Talent Impact         23.62	5 74
2.1.5	Brain gain		9	6.2.1	Innovation output	84
2.2	Internal Openness		92	6.2.2	High-value exports	81
	Social Inclusion			6.2.3	Software development	67
2.2.1	Tolerance of minorities	1.06	133	6.2.4	New business density	43
2.2.2	Tolerance of immigrants	76.92	29	6.2.5	Scientific journal articles	54
2.2.3	Social mobility		28			
	Gender Equality					
2.2.4	Economic empowerment of women		113			
2.2.5	Gender parity in high-skilled jobs Leadership opportunities for women		116			
2.2.6	Leadership opportunities for women	/1.56	15			

## **BANGLADESH**

	(out of 134)	· · · · · · · · · · · · · · · · · · ·	23		per capita (PPP US\$)	
	ne group L				(US\$ billions)	
-	onal group				score	
_	CI 2023 Country Profile by Pillar				Score	
	, ,			3	GROW17.80	
	Enable			3.1	Formal Education	
	${f I}_{90}^{100}$				Enrolment	
	<b>1</b> 80			3.1.1	Vocational enrolment	90
	Global +70			3.1.2	Tertiary enrolment15.85	90
Kno	owledge Skills	Attract			Quality	
ranc	Wiedge Bielis			3.1.3	Tertiary education expenditure	
	20			3.1.4 3.1.5	Reading, maths, and science/a University ranking	
				3.2	Lifelong Learning	
	Z t X			3.2.1	Business masters education	
				3.2.2	Prevalence of training in firms	
V	ocational and	***		3.2.3	Employee development	122
	chnical Skills	Grow		3.3	Access to Growth Opportunities25.43	114
	‡			2.2.4	Empowerment 22.62	
	t			3.3.1	Delegation of authority	
	- Retain			3.3.2	Youth inclusion	9/
	Retain			3.3.3	Use of virtual social networks	107
	<ul><li>Bangladesh</li><li>Income</li></ul>	group average		3.3.4	Use of virtual professional networks	
		Score	Rank			
			ndiik	4	RETAIN	109
1	ENABLE		117	4.1	Sustainability	
1.1	Regulatory Landscape		116	4.1.1	Pension coverage	
1.1.1 1.1.2	Government effectiveness		105 103	4.1.2	Social protection	
1.1.3	Political stability.		115	4.1.3	Brain retention	83
1.1.4	Regulatory quality.		118	4.1.4	Environmental performance	
1.1.5	Corruption		120	4.1.5	Vulnerable employment	104
1.2	Market Landscape		84	4.2	Lifestyle	
1.2.1	Extent of market dominance	20.52	110	4.2.1 4.2.2	Personal rights         38.54           Personal safety         44.91	
1.2.2	Domestic credit to private sector		80	4.2.3	Physician density	
1.2.3	Cluster development		84	4.2.4	Sanitation	
1.2.4 1.2.5	R&D expenditure ICT infrastructure		n/a 57			
1.2.5	Urbanisation		113	5	VOCATIONAL AND TECHNICAL SKILLS29.89	112
1.3	Business and Labour Landscape		130	<b>5</b> .1	Mid-Level Skills	<b>113</b> 106
	Labour Market			5.1.1	Workforce with secondary education	
1.3.1	Labour rights		101	5.1.2	Population with secondary education	
1.3.2	Labour-employer cooperation	30.20	110	5.1.3	Technicians and associate professionals	
	Management Practice			5.1.4	Labour productivity per employee8.06	95
1.3.3	Professional management		103	5.2	Employability42.43	
1.3.4	Relationship of pay to productivity  Technology Adoption	49.20	80	5.2.1	Ease of finding skilled employees	
1.3.5	Enterprise software		106	5.2.2 5.2.3	Relevance of education system to the economy	
1.3.6	Cloud computing		102	5.2.4	Highly educated unemployment 68.64	
1.3.7	Firms with website	18.83	98			
				_	CLODAL KNOWLEDGE SKILLS	100
2	ATTRACT	27.05	131	<b>6</b> 6.1	GLOBAL KNOWLEDGE SKILLS         11.75           High-Level Skills         9.98	
2.1	External Openness		119	6.1.1	Workforce with tertiary education	111
	Attract Business			6.1.2	Population with tertiary education	
2.1.1	FDI regulatory restrictiveness		n/a	6.1.3	Professionals	110
2.1.2	Financial globalisation	3.00	133	6.1.4	Researchers	
2.1.3	Attract People Migrant stock	10 00	105	6.1.5 6.1.6	Senior officials and managers 9.35  Digital skills	
2.1.3	International students		n/a	6.2	Talent Impact	
2.1.5	Brain gain		48	6.2.1	Innovation output	
2.2	Internal Openness		130	6.2.2	High-value exports	
	Social Inclusion			6.2.3	Software development	95
2.2.1	Tolerance of minorities		121	6.2.4	New business density	121
2.2.2	Tolerance of immigrants		72 107	6.2.5	Scientific journal articles	102
2.2.3	Social mobility  Gender Equality	32.03	107			
2.2.4	Economic empowerment of women	28.32	127			
2.2.5	Gender parity in high-skilled jobs		121			
2.2.6	Leadership opportunities for women		114			

#### **BELARUS**

Gender Equality

 2.2.4
 Economic empowerment of women
 .65.49

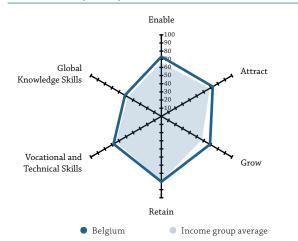
 2.2.5
 Gender parity in high-skilled jobs
 .41.70

 2.2.6
 Leadership opportunities for women
 .51.65

ricy in	arcators					
		1	<b>57</b>			
	(out of 134)				per capita (PPP US\$)	
Incor	ne group	iddle in	come		(US\$ billions)	
Regio	onal group	Eı	urope	GTCI	score	46.41
Popu	lation (millions)		9.21	GTCI	score (income group average)	43.53
GT	Cl 2023 Country Profile by Piller				Score	Rank
GI	CI 2023 Country Profile by Pillar			_		
	Enable			3	GROW38.74	
	<b>⊤</b> 100			3.1	Formal Education	45
	90 80			3.1.1	Vocational enrolment	63
	<b>+</b> 70			3.1.2	Tertiary enrolment54.08	
17	Global 60 Att	tract			Quality	
KIIC	owiedge Skills			3.1.3	Tertiary education expenditure	
	20			3.1.4 3.1.5	Reading, maths, and science	
	1000			3.1.5	University ranking	
				3.2.1	Business masters education	
				3.2.2	Prevalence of training in firms	
17	ocational and			3.2.3	Employee development	81
	echnical Skills	ow		3.3	Access to Growth Opportunities	70
	‡				Empowerment	
	†			3.3.1	Delegation of authority	
				3.3.2	Youth inclusion	16
	Retain			3.3.3	Use of virtual social networks	93
	<ul> <li>Belarus</li> <li>Income group ave</li> </ul>	rage		3.3.4	Use of virtual professional networks	92
		Score	Rank		'	
				4	RETAIN66.19	47
1	ENABLE		106	4.1	Sustainability	
1.1 1.1.1	Regulatory Landscape		113 116	4.1.1	Pension coverage	
1.1.2	Rule of law		127	4.1.2	Social protection47.31	72
1.1.3	Political stability.		107	4.1.3	Brain retention	
1.1.4	Regulatory quality		122	4.1.4	Environmental performance	44
1.1.5	Corruption	30.14	71	4.1.5	Vulnerable employment	6
1.2	Market Landscape		95	4.2 4.2.1	Lifestyle       58.79         Personal rights       10.19	
1.2.1	Extent of market dominance		94	4.2.2	Personal safety	76
1.2.2	Domestic credit to private sector		97 107	4.2.3	Physician density	
1.2.3 1.2.4	Cluster development		60	4.2.4	Sanitation	
1.2.5	ICT infrastructure.		n/a			
1.2.6	Urbanisation		38	5	VOCATIONAL AND TECHNICAL SKILLS 58.26	40
1.3	Business and Labour Landscape	38.75	91	5.1	Mid-Level Skills	
	Labour Market			5.1.1	Workforce with secondary education	
1.3.1	Labour rights		101	5.1.2	Population with secondary education47.78	44
1.3.2	Labour-employer cooperation	33.12	100	5.1.3	Technicians and associate professionals41.67	
1.3.3	Management Practice Professional management	20.66	88	5.1.4	Labour productivity per employee	
1.3.4	Relationship of pay to productivity		40	5.2	Employability. 67.83	36
	Technology Adoption			5.2.1 5.2.2	Ease of finding skilled employees	
1.3.5	Enterprise software	39.64	31	5.2.3	Skills matching	
1.3.6	Cloud computing		39	5.2.4	Highly educated unemployment87.47	28
1.3.7	Firms with website	73.94	28			
				6	GLOBAL KNOWLEDGE SKILLS 34.65	44
2	ATTRACT		81	6.1	High-Level Skills	28
2.1	External Openness	49.14	58	6.1.1	Workforce with tertiary education41.51	37
211	Attract Business	7701	F.0	6.1.2	Population with tertiary education	3
2.1.1	FDI regulatory restrictiveness		50 90	6.1.3	Professionals	
2.1.2	Attract People	10.00	90	6.1.4 6.1.5	Researchers	47 10
2.1.3	Migrant stock	59.68	40	6.1.6	Digital skills	66
2.1.4	International students		39	6.2	Talent Impact	67
2.1.5	Brain gain	34.05	99	6.2.1	Innovation output	
2.2	Internal Openness	45.46	108	6.2.2	High-value exports	
	Social Inclusion			6.2.3	Software development	
2.2.1	Tolerance of minorities		63 116	6.2.4	New business density	
2.2.2	Tolerance of immigrants		116 89	6.2.5	Scientific journal articles5.37	76
			0,0			

## **BELGIUM**

Rank (out of 134)
Income group
Regional group
Population (millions)
GTCI 2023 Country Profile by Pillar



Score Rank

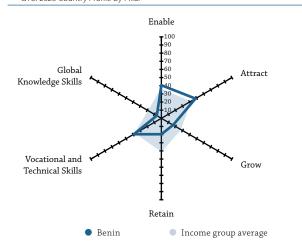
1.1 1.1.1 1.1.2	<b>ENABLE.</b> 73.22 Regulatory Landscape. 76.44	17
1.1.1 1.1.2	Regulatory Landscape 76.44	
1.1.2	negalatory Euroscape	20
	Government effectiveness	26
1.1.3	Rule of law	20
	Political stability	37
1.1.4	Regulatory quality	21
1.1.5	Corruption	17
1.2	Market Landscape	7
	Extent of market dominance	15
1.2.2	Domestic credit to private sector57.34	42
	Cluster development	18
	R&D expenditure	4
	ICT infrastructure81.47	23
	Urbanisation	4
	Business and Labour Landscape	17
	Labour Market	
	Labour rights93.16	26
	Labour-employer cooperation	39
	Management Practice	39
	Professional management	30
	Relationship of pay to productivity	16
		10
	Technology Adoption	20
	Enterprise software	20
	Cloud computing	16 7
1.3./	Firms with website	/
2	ATTRACT	19
2.1	External Openness	16
	Attract Business	
	FDI regulatory restrictiveness90.27	24
	Financial globalisation	9
	Attract People	
	Migrant stock	24
	International students	25
	Brain gain	18
	Internal Openness	20
	Social Inclusion	20
	Tolerance of minorities	40
	Tolerance of immigrants	63
722	Social mobility	35
	,	55
2.2.3	Gender Fauality	
2.2.3	Gender Equality  Fromomic empowerment of women	1
2.2.3	Economic empowerment of women	1 4
2.2.3 2.2.4 2.2.5		

	(US\$ billions)	
	score (income group average)	
31 CI	score (income group average)	01.3
	Score	Rai
<b>3</b> 3.1	GROW	1
5.1	Formal Education	
.1.1	Vocational enrolment	
.1.2	Tertiary enrolment	
	Quality	
.1.3	Tertiary education expenditure	
.1.4	Reading, maths, and science	
.1.5	Lifelong Learning	
.2.1	Business masters education	
.2.2	Prevalence of training in firms	
.2.3	Employee development	
.3	Access to Growth Opportunities	
	Empowerment	
.3.1	Delegation of authority63.70	
.3.2	Youth inclusion	
	Collaboration	
.3.3	Use of virtual social networks	
.3.4	Use of virtual professional networks	
	RETAIN	
.1	Sustainability	
1.1	Pension coverage	
.1.2	Social protection	
.1.3	Brain retention	
1.4	Environmental performance	
.1.5	Vulnerable employment	
.2	Lifestyle	
.2.1	Personal rights96.44	
.2.2	Personal safety	
.2.3	Physician density	
.2.4	Satillation	
;	VOCATIONAL AND TECHNICAL SKILLS67.79	
.1	Mid-Level Skills	
.1.1	Workforce with secondary education	
.1.2	Population with secondary education50.13	
.1.3	Technicians and associate professionals	
.1.4	Labour productivity per employee	
.2 .2.1	Employability	
.2.1	Relevance of education system to the economy	
.2.3	Skills matching	
.2.4	Highly educated unemployment82.87	
	CLODAL WHOM EDGE CALLS	
.1	<b>GLOBAL KNOWLEDGE SKILLS</b>	
.1 .1.1	Workforce with tertiary education	
.1.2	Population with tertiary education	
.1.3	Professionals	
.1.4	Researchers	
1.5	Senior officials and managers	
.1.6	Digital skills21.40	
.2	Talent Impact	
.2.1	Innovation output	
.2.2	High-value exports	
.2.3 .2.4	Software development	
. 4. 7		
.2.5	Scientific journal articles55.19	

#### **BENIN**

Key Indicators

Rank (out of 134)	113
Income group	. Lower-middle income
Regional group	Sub-Saharan Africa
Population (millions)	13.35



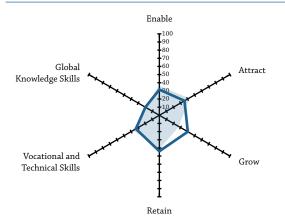
	Score	Rank
1	ENABLE	74
1.1	Regulatory Landscape	83
1.1.1	Government effectiveness	84
1.1.2	Rule of law	101
1.1.3	Political stability53.34	81
1.1.4	Regulatory quality30.90	94
1.1.5	Corruption	58
1.2	Market Landscape	87
1.2.1	Extent of market dominance	10
1.2.2	Domestic credit to private sector	116
1.2.3	Cluster development	121
1.2.4	R&D expendituren/a	n/a
1.2.5	ICT infrastructure	113
1.2.6	Urbanisation	102
1.3	Business and Labour Landscape	61
1.5	Labour Market	0.
1.3.1	Labour rights	41
1.3.2	Labour-employer cooperation	38
1.3.2	Management Practice	50
1.3.3	Professional management	47
1.3.4	Relationship of pay to productivity	85
1.3.4	Technology Adoption 46.02	63
1.3.5	Enterprise software	60
1.3.6	Cloud computing12.96	79
1.3.7	Firms with website	89
2	ATTRACT	78
2.1	External Openness	94
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation	107
212	Attract People	
2.1.3	Migrant stock	69 66
	International students	
2.1.5	Brain gain	58
2.2	Internal Openness	44
2.2.1	Tolerance of minorities	16
2.2.2	Tolerance of immigrants87.69	13
2.2.3	Social mobility	18
2.2.4	Economic empowerment of women	67
2.2.5	Gender parity in high-skilled jobs	127
2.2.6	Leadership opportunities for women	66

GTCI	score (income group average)	
	Score	Ra
3	GROW16.57	12
3.1	Formal Education	1
	Enrolment	
.1.1 .1.2	Vocational enrolment	1.
.1.2	Tertiary enrolment	10
.1.3	Quality Tertiary education expenditure	
.1.4	Reading, maths, and science	r
.1.5	University ranking	
.2	Lifelong Learning	1
.2.1	Business masters education	
.2.2	Prevalence of training in firms	
.2.3	Employee development	1
.3	Access to Growth Opportunities	1
	Empowerment	
.3.1	Delegation of authority63.16	
.3.2	Youth inclusion	1
	Collaboration	
.3.3	Use of virtual social networks	1
.3.4	Use of virtual professional networks	1
ļ	RETAIN	1
.1	Sustainability	1
.1.1	Pension coverage	1
.1.2	Social protection	1
.1.3	Brain retention	1
.1.4	Environmental performance	1
.1.5	Vulnerable employment	1
.2	Lifestyle	1
.2.1	Personal rights	
.2.2	Personal safety39.65	1
.2.3	Physician density         0.20           Sanitation         8.84	1
	VOCATIONAL AND TECHNICAL SKILLS39.08	
.1	Mid-Level Skills	1
.1.1	Workforce with secondary education	1
.1.2 .1.3	Population with secondary education	r 1
.1.3 .1.4	Labour productivity per employee	r
.1.4	Employability	
.2 .2.1	Ease of finding skilled employees	
.2.2	Relevance of education system to the economy68.02	
.2.3	Skills matching	1
.2.4	Highly educated unemployment99.87	
	GLOBAL KNOWLEDGE SKILLS	1
.1	High-Level Skills	1
.1.1	Workforce with tertiary education5.86	1
.1.2	Population with tertiary educationn/a	r
.1.3	Professionals	1
.1.4	Researchersn/a	r
.1.5	Senior officials and managers	1
.1.6	Digital skills	r
.2	Talent Impact	1
.2.1	Innovation output	1
.2.2	High-value exports	
.2.3	Software development	1
.2.4	New business density	1
.∠.⊃	ocientine journal articles	- 1

# **BOLIVIA, PLURINATIONAL ST.**

Rank (out of 134)	9 <b>4</b>
Income group	Lower-middle income
Regional group	Latin America and the Caribbean
Population (millions)	

GTCI 2023 Country Profile by Pillar



Bolivia, Plurinational St.
 Income group average

	Score	Rank
1	ENABLE31.57	113
1.1	Regulatory Landscape24.64	117
1.1.1	Government effectiveness	111
1.1.2	Rule of law	129
1.1.3	Political stability52.89	83
1.1.4	Regulatory quality12.15	129
1.1.5	Corruption	104
1.2	Market Landscape	74
1.2.1	Extent of market dominance	121
1.2.2	Domestic credit to private sector	45
1.2.3	Cluster development	119
1.2.4	R&D expendituren/a	n/a
1.2.5	ICT infrastructure	99
1.2.6	Urbanisation	54
1.3	Business and Labour Landscape28.95	124
1 2 1	Labour Market	0.0
1.3.1	Labour rights	86
1.3.2	Labour-employer cooperation	127
1.3.3	Professional management	125
1.3.4	Relationship of pay to productivity	131
1.3.5	Enterprise software	52
1.3.6	Cloud computing	57
1.3.7	Firms with website	66
2	ATTRACT35.61	116
2.1	External Openness	126
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation	118
	Attract People	
2.1.3	Migrant stock	107
2.1.4	International studentsn/a	n/a
2.1.5	Brain gain	120
2.2	Internal Openness	93
2.2.1	Tolerance of minorities	78
2.2.2	Tolerance of immigrants	66
2.2.3	Social mobility	116
	Gender Equality	
2.2.4	Economic empowerment of women	43
2.2.5	Gender parity in high-skilled jobs	61
2.2.6	Leadership opportunities for women	128

GTCI	score	34
	score (income group average)	
	Score	Rai
3	GROW40.31	5
3.1	Formal Education	3
3.1.1	Vocational enrolment	
3.1.2	Tertiary enrolmentn/a Quality	n
3.1.3	Tertiary education expendituren/a	n
3.1.4	Reading, maths, and science	n
3.1.5	University ranking	
3.2	Lifelong Learning	
3.2.1	Business masters education	
3.2.2	Prevalence of training in firms	1
3.2.3	Employee development	1.
3.3	Access to Growth Opportunities	
3.3.1	Delegation of authority	1.
3.3.2	Youth inclusion	
3.3.3 3.3.4	Use of virtual social networks	
5.5.4	ose of virtual professional networks	
1	RETAIN	9
1.1	Sustainability	
1.1.1	Pension coverage	
1.1.2	Social protection	1
1.1.3	Brain retention	1
1.1.4	Environmental performance	
1.1.5	Vulnerable employment	1
4.2 4.2.1	Lifestyle	
+.2.1 1.2.2	Personal rights         68.16           Personal safety         48.14	
4.2.2 4.2.3	Physician density	
1.2.4	Sanitation	1
5	VOCATIONAL AND TECHNICAL SKILLS	10
5.1	Mid-Level Skills	
5.1.1	Workforce with secondary education	
5.1.2	Population with secondary education25.71	
5.1.3	Technicians and associate professionals21.07	
5.1.4	Labour productivity per employee	
5.2	Employability44.61	1
5.2.1	Ease of finding skilled employees	1
5.2.2	Relevance of education system to the economy14.05	1
5.2.3	Skills matching	
<b>5</b> 5.1	<b>GLOBAL KNOWLEDGE SKILLS</b>	
5.1.1	Workforce with tertiary education	
5.1.2	Population with tertiary education	
5.1.3	Professionals	
5.1.4	Researchers	r
5.1.5	Senior officials and managers	
5.1.6	Digital skillsn/a	n
5.2	Talent Impact	
5.2.1	Innovation outputn/a	r
5.2.2	High-value exports8.06	
5.2.3	Software development	
5.2.4	New business density	
5.2.5	Scientific journal articles	1

## **BOSNIA AND HERZEGOVINA**

Incor	ne group	Jpper-middle in	come		per capita (PPP US\$)		
Regio	onal group	Et	ırope	GTCI	score	;	39.79
Popu	lation (millions)		3.23	GTCI	score (income group average)	٠٠٠٠ '	43.53
GT	CI 2023 Country Profile by Pillar				C	Score	Rank
	Enable			3	GROW3		80
	<b>T</b> 100			3.1	Formal Education.	34.45	61
	90			3.1.1	Enrolment  Vocational enrolment	58.01	7
	<b>+</b> 70			3.1.2	Tertiary enrolment		77
17	Global 60 50	→ Attract			Quality		
KIIC	owledge Skills			3.1.3	Tertiary education expenditure		56
	20			3.1.4 3.1.5	Reading, maths, and science		62 76
				3.1.5	University ranking		114
				3.2.1	Business masters education.		57
				3.2.2	Prevalence of training in firms		40
17	ocational and	***		3.2.3	Employee development		126
	echnical Skills	Grow		3.3	Access to Growth Opportunities	38.05	88
-	‡				Empowerment		
	†			3.3.1	Delegation of authority		115
				3.3.2	Youth inclusion	64.63	65
	Retain			3.3.3	Use of virtual social networks	51 75	85
	<ul> <li>Bosnia and Herzegovina</li> <li>Income</li> </ul>	group average		3.3.4	Use of virtual professional networks		80
		6	David		,		
		Score	Rank	4	RETAIN50	6 70	71
1	ENABLE		98	<b>4</b> 4.1	Sustainability		<b>71</b> 86
1.1	Regulatory Landscape		93	4.1.1	Pension coverage		74
1.1.1	Government effectiveness		127	4.1.2	Social protection		109
1.1.2	Rule of law		80 84	4.1.3	Brain retention	.0.00	132
1.1.4	Regulatory quality.		80	4.1.4	Environmental performance		77
1.1.5	Corruption		90	4.1.5	Vulnerable employment		42
1.2	Market Landscape		106	4.2	Lifestyle6		54
1.2.1	Extent of market dominance		109	4.2.1 4.2.2	Personal rights		75 32
1.2.2	Domestic credit to private sector		71	4.2.2	Physician density		74
1.2.3	Cluster development		90	4.2.4	Sanitation		64
1.2.4 1.2.5	R&D expenditure ICT infrastructure		90 93				
1.2.5	Urbanisation		101	5	VOCATIONAL AND TECHNICAL SKILLS	0.45	
1.3	Business and Labour Landscape		74	<b>5</b> .1	Mid-Level Skills		<b>62</b> 23
	Labour Market			5.1.1	Workforce with secondary education		4
1.3.1	Labour rights		43	5.1.2	Population with secondary education		9
1.3.2	Labour-employer cooperation	9.15	130	5.1.3	Technicians and associate professionals		58
	Management Practice			5.1.4	Labour productivity per employee	38.93	46
1.3.3	Professional management		122	5.2	Employability4		118
1.3.4	Relationship of pay to productivity  Technology Adoption		117	5.2.1	Ease of finding skilled employees		126
1.3.5	Enterprise software	47.05	22	5.2.2 5.2.3	Relevance of education system to the economy		129 15
1.3.6	Cloud computing		35	5.2.4	Highly educated unemployment		104
1.3.7	Firms with website	67.70	39		3 ,		
				_	CLODAL KNOWLEDGE SKILLS	0.40	
2	ATTRACT	43.30	94	<b>6</b> 6.1	GLOBAL KNOWLEDGE SKILLS		<b>87</b> 90
2.1	External Openness		91	6.1.1	Workforce with tertiary education		75
	Attract Business			6.1.2	Population with tertiary education		69
2.1.1	FDI regulatory restrictiveness	91.08	23	6.1.3	Professionals		51
2.1.2	Financial globalisation	48.87	92	6.1.4	Researchers		71
212	Attract People	16.00	100	6.1.5	Senior officials and managers		86
2.1.3	Migrant stock		109 38	6.1.6 6.2	Digital skills		65 72
2.1.4	Brain gain		130	6.2.1	Innovation output		72 74
2.1.3	Internal Openness		86	6.2.2	High-value exports.		74
	Social Inclusion		-	6.2.3	Software development6		53
2.2.1	Tolerance of minorities	36.17	81	6.2.4	New business density	. 5.35	82
2.2.2	Tolerance of immigrants		76	6.2.5	Scientific journal articles	10.49	58
2.2.3	Social mobility	21.26	119				
224	Gender Equality	70.7/	F0				
2.2.4	Economic empowerment of women  Gender parity in high-skilled jobs		59 19				
2.2.3	Leadership opportunities for women	10 37	122				

#### **BOTSWANA**

	(out of 134)	· · · · · · · · · · · · · · · · · · ·	<b>73</b>		per capita (PPP US\$)	
	onal group				score	
Popu	lation (millions)		2.63	GICI	score (income group average)	43.53
GT	Cl 2023 Country Profile by Pillar				Score	e Rank
	Enable			3	GROW	
	<b>▼</b> 100			3.1	Formal Education	) 127
	<b>-</b> 90			211	Enrolment	/-
	‡80 70			3.1.1 3.1.2	Vocational enrolment	
	Global 60	Attract		J.1.Z	Quality	1 32
Kno	owledge Skills	A THEAT		3.1.3	Tertiary education expenditure	a n/a
	30 20			3.1.4	Reading, maths, and science	
				3.1.5	University ranking	76
				3.2	Lifelong Learning	
				3.2.1	Business masters education	
	1	<b>X</b>		3.2.2	Prevalence of training in firms	
V	ocational and	Grow		3.2.3	Employee development	
Τe	echnical Skills	Glow		3.3	Access to Growth Opportunities	4 78
	<u>†</u>			3.3.1	Delegation of authority	3 4
	I			3.3.2	Youth inclusion	
	Retain				Collaboration	
				3.3.3	Use of virtual social networks	
	Botswana     Incon	ne group average		3.3.4	Use of virtual professional networks	2 60
		Score	Rank			
_				4	RETAIN 56.63	3 72
1	ENABLE		38	4.1	Sustainability	
1.1 1.1.1	Regulatory Landscape		37 50	4.1.1	Pension coverage	) 1
1.1.2	Rule of law		41	4.1.2	Social protection53.05	63
1.1.3	Political stability		12	4.1.3	Brain retention	
1.1.4	Regulatory quality		43	4.1.4	Environmental performance	
1.1.5	Corruption	58.90	29	4.1.5	Vulnerable employment	
1.2	Market Landscape	49.05	56	4.2 4.2.1	Lifestyle	
1.2.1	Extent of market dominance		38	4.2.1	Personal rights         82.08           Personal safety         24.72	
1.2.2	Domestic credit to private sector		88	4.2.3	Physician density4.77	
1.2.3	Cluster development		34	4.2.4	Sanitation	
1.2.4 1.2.5	R&D expenditureICT infrastructure		56 78			
1.2.6	Urbanisation		53	5	VOCATIONAL AND TECHNICAL SKILLS37.35	- 06
1.3	Business and Labour Landscape		38	<b>5</b> .1	Mid-Level Skills	
	Labour Market			5.1.1	Workforce with secondary education	
1.3.1	Labour rights	60.99	85	5.1.2	Population with secondary education	
1.3.2	Labour-employer cooperation	70.55	20	5.1.3	Technicians and associate professionals	7 74
	Management Practice			5.1.4	Labour productivity per employee19.95	5 73
1.3.3	Professional management		12	5.2	Employability	
1.3.4	Relationship of pay to productivity  Technology Adoption		37	5.2.1	Ease of finding skilled employees	3 74
1.3.5	Enterprise software	18 90	76	5.2.2 5.2.3	Relevance of education system to the economy	
1.3.6	Cloud computing		89	5.2.4	Highly educated unemployment	
1.3.7	Firms with website		n/a	3.2.	riigiiiy caacacca arciiipioyiiiciic	
				-		
2	ATTRACT	47.21	82	6	GLOBAL KNOWLEDGE SKILLS29.47	
2.1	External Openness		89	6.1 6.1.1	High-Level Skills	
2.1	Attract Business		0,5	6.1.2	Population with tertiary education	
2.1.1	FDI regulatory restrictiveness	n/a	n/a	6.1.3	Professionals	
2.1.2	Financial globalisation		112	6.1.4	Researchers	
	Attract People			6.1.5	Senior officials and managers	
2.1.3	Migrant stock		56	6.1.6	Digital skills21.33	3 47
2.1.4	International students		72	6.2	Talent Impact32.43	
2.1.5	Brain gain		38	6.2.1	Innovation output	
2.2	Internal Openness	5/.61	60	6.2.2	High-value exports	
2 2 1	Social Inclusion Tolerance of minorities	60.64	42	6.2.3 6.2.4	Software development	
2.2.1 2.2.2	Tolerance of minorities		42 56	6.2.4	Scientific journal articles	
2.2.3	Social mobility		42	5.2.5		, ,
	Gender Equality					
2.2.4	Economic empowerment of women	48.67	118			
2.2.5	Gender parity in high-skilled jobs	75.04	62			

#### **BRAZIL**

key indicators	
Regional group	69
GTCI 2023 Country Profile by Pillar	
Global Knowledge Skills	Enable  100 80 70 60 50 Attract

Vocational and Technical Skills	product.		Grow
		Retain	
	<ul><li>Brazil</li></ul>	<ul><li>Incom</li></ul>	me group average

Score Rank

	Score	Hallik
1	ENABLE	61
1.1	Regulatory Landscape	84
1.1.1	Government effectiveness	97
1.1.2	Rule of law	81
1.1.3	Political stability	93
1.1.4	Regulatory quality39.23	78
1.1.5	Corruption	74
1.2	Market Landscape56.62	31
1.2.1	Extent of market dominance	52
1.2.2	Domestic credit to private sector56.13	44
1.2.3	Cluster development	49
1.2.4	R&D expenditure21.65	35
1.2.5	ICT infrastructure	26
1.2.6	Urbanisation	19
1.3	Business and Labour Landscape	83
	Labour Market	
1.3.1	Labour rights	n/a
1.3.2	Labour-employer cooperation	109
	Management Practice	
1.3.3	Professional management	46
1.3.4	Relationship of pay to productivity	77
	Technology Adoption	
1.3.5	Enterprise software	44
1.3.5	Cloud computing	47
1.3.7	Firms with website	59
1.5.7	Timis with website	3,
2	ATTRACT 45.25	88
2.1	External Openness	106
	Attract Business	
2.1.1	FDI regulatory restrictiveness	47
2.1.2	Financial globalisation	96
2.1.2	Attract People	,,,
2.1.3	Migrant stock	124
2.1.3	International students	110
2.1.5	Brain gain	118
2.1.3	Internal Openness	49
2.2	Social Inclusion	49
2.2.1	Tolerance of minorities	102
2.2.2	Tolerance of immigrants	24
2.2.3	Social mobility	83
	Gender Equality	
2.2.4	Economic empowerment of women	59
2.2.5	Gender parity in high-skilled jobs	13
2.2.5	Leadership opportunities for women	100
∠.∠.∪	Ecadership opportunities for women	100

GTCI	score (income group average)	43.
	Score	Ra
3	GROW	6
3.1	Formal Education	
	Enrolment	
3.1.1	Vocational enrolment	
3.1.2	Tertiary enrolment	
3.1.3	Quality Tertiary education expenditure	
3.1.3 3.1.4	Reading, maths, and science	
3.1.5	University ranking	
3.2	Lifelong Learning	
3.2.1	Business masters education	
3.2.2	Prevalence of training in firmsn/a	r
3.2.3	Employee development	
3.3	Access to Growth Opportunities53.69	
	Empowerment 50.03	
3.3.1 3.3.2	Delegation of authority	
5.3.2	Collaboration	
3.3.3	Use of virtual social networks	
3.3.4	Use of virtual professional networks	
1	RETAIN57.59	
• 4.1	Sustainability	
4.1.1	Pension coverage	
1.1.2	Social protection	
1.1.3	Brain retention	
1.1.4	Environmental performance	
1.1.5	Vulnerable employment	
4.2	Lifestyle	
1.2.1	Personal rights	
4.2.2 4.2.3	Personal safety	1
4.2.4	Sanitation	
5	VOCATIONAL AND TECHNICAL SKILLS43.12	
5.1	Mid-Level Skills	
5.1.1	Workforce with secondary education	
5.1.2	Population with secondary education45.74	
5.1.3	Technicians and associate professionals	
5.1.4	Labour productivity per employee	
5.2	Employability	1
5.2.1	Relevance of education system to the economy	1
5.2.3	Skills matching	'
5.2.4	Highly educated unemployment	
5	GLOBAL KNOWLEDGE SKILLS 25.06	
5.1	High-Level Skills	
5.1.1	Workforce with tertiary education	
5.1.2	Population with tertiary education	
5.1.3 5.1.4	Researchers 10.08	
5.1.5	Senior officials and managers	
5.1.6	Digital skills	
5.2	Talent Impact	
5.2.1	Innovation output	
5.2.2	High-value exports	
5.2.3	Software development	
5.2.4	New business density	
5.2.5	Scientific journal articles	

## **BRUNEI DARUSSALAM**

Key Ind	dicators						
	(out of 134)	· · · · · · · · · · · · · · · · · · ·	11		per capita (PPP US\$)		
	onal group <b>Eastern, Southeas</b>				score		
_	lation (millions)				score (income group average)		
•			.0.45	GICI	score (income group average)		
GT	Cl 2023 Country Profile by Pillar					Score	Rank
	Enable			3	GROW		46
				3.1	Formal Education.	39.32	5
	${f I}_{90}^{100}$				Enrolment		
	<b>+</b> 80			3.1.1	Vocational enrolment		64
	Global 70			3.1.2	Tertiary enrolment	20.46	85
17	F0	Attract			Quality		
Kno	owledge Skills	A PARTY		3.1.3	Tertiary education expenditure	86.29	7
	130 20			3.1.4	Reading, maths, and science	36.31	52
	10			3.1.5	University ranking	35.36	37
	/ <u>**</u>			3.2	Lifelong Learning	30.98	80
				3.2.1	Business masters education	0.00	57
		*		3.2.2	Prevalence of training in firms	n/a	n/
17	ocational and	***		3.2.3	Employee development	61.96	4
	echnical Skills	Grow		3.3	Access to Growth Opportunities	62.76	29
10	ecinical Skins				Empowerment		
	Ī			3.3.1	Delegation of authority	63.34	26
	1			3.3.2	Youth inclusion	62.04	70
	Retain				Collaboration		
				3.3.3	Use of virtual social networks	89.20	
	Brunei Darussalam     Incom	e group average		3.3.4	Use of virtual professional networks	36.47	35
		Score	Rank				
	ENABLE	49.43	51	4	RETAIN		49
.1	Regulatory Landscape	76.88	19	4.1	Sustainability		35
1.1	Government effectiveness	79.14	14	4.1.1 4.1.2	Pension coverage		1 58
1.2	Rule of law		31	4.1.2	Brain retention		58 57
.3	Political stability		5	4.1.3	Environmental performance		55
.4	Regulatory quality		30	4.1.4	Vulnerable employment		1.5
.5	Corruption		n/a	4.1.5	Lifestyle		64
2	Market Landscape		86	4.2.1			n/a
2.1	Extent of market dominance		92	4.2.1	Personal rights		n/a
2.2	Domestic credit to private sector		91	4.2.3	Physician density		77
2.3	Cluster development		63	4.2.3	Sanitation		60
2.4	R&D expenditure		81	7.4.7	Sumation		00
2.5	ICT infrastructure		n/a				
	Urbanisation		40	5	VOCATIONAL AND TECHNICAL SKILLS	63 32	
	and the second s		112			05.52	26
	Business and Labour Landscape		112	5.1	Mid-Level Skills		
3	Labour Market			5.1 5.1.1	Mid-Level Skills	61.67	17
s.1	Labour Market Labour rights	n/a	n/a			61.67	26 17 18 n/a
.1	Labour Market Labour rights Labour-employer cooperation	n/a		5.1.1	Workforce with secondary education	61.67 73.23 n/a	15 18 n/a
.1	Labour Market Labour rights Labour-employer cooperation Management Practice	n/a 51.20	n/a	5.1.1 5.1.2	Workforce with secondary education	61.67 73.23 n/a 50.12	13 18 n/a 39
2.6 3 3.1 3.2 3.3 3.4	Labour Market Labour rights Labour-employer cooperation		n/a	5.1.1 5.1.2 5.1.3	Workforce with secondary education	61.67 73.23 n/a 50.12 n/a	15 18

	Management Practice	
1.3.3	Professional management	81
1.3.4	Relationship of pay to productivity55.17	63
	Technology Adoption	
1.3.5	Enterprise software	111
1.3.6	Cloud computing	118
1.3.7	Firms with website	n/a
2	ATTRACT53.71	54
2.1	External Openness	30
	Attract Business	
2.1.1	FDI regulatory restrictiveness	61
2.1.2	Financial globalisation	19
2.1.3	Migrant stock	11
2.1.4	International students	59
2.1.5	Brain gain	n/a
2.2	Internal Openness	99
	Social Inclusion	
2.2.1	Tolerance of minorities	84
2.2.2	Tolerance of immigrants	n/a
2.2.3	Social mobility	96
	Gender Equality	
2.2.4	Economic empowerment of women	124
2.2.5	Gender parity in high-skilled jobs	44
2.2.6	Leadership opportunities for women53.24	56

	(US\$ billions)	
GTCI	score	51.74
GTCI	score (income group average)	61.91
	Score	Rank
3	GROW	46
3.1	Formal Education. 39.32	51
	Enrolment	
3.1.1	Vocational enrolment	64
3.1.2	Tertiary enrolment	85
	Quality	
3.1.3	Tertiary education expenditure	7
3.1.4	Reading, maths, and science	52
3.1.5	University ranking35.36	37
3.2	Lifelong Learning30.98	80
3.2.1	Business masters education	57
3.2.2	Prevalence of training in firms	n/a
3.2.3	Employee development	48
3.3	Access to Growth Opportunities	29
2 2 1	Empowerment	20
3.3.1 3.3.2	Delegation of authority	26 70
3.3.2	Youth inclusion	/0
3.3.3	Use of virtual social networks	4
3.3.4	Use of virtual professional networks	35
J.J. <del>+</del>	ose of virtual professional networks	33
4	RETAIN65.15	49
4.1	Sustainability	35
4.1.1	Pension coverage	1
4.1.2	Social protection55.97	58
4.1.3	Brain retention	57
4.1.4	Environmental performance	55
4.1.5	Vulnerable employment92.87	15
4.2	Lifestyle	64
4.2.1	Personal rightsn/a	n/a
4.2.2	Personal safetyn/a	n/a
4.2.3	Physician density	77
4.2.4	Sanitation	60
5	VOCATIONAL AND TECHNICAL SKILLS63.32	26
5.1	Mid-Level Skills	17
5.1.1	Workforce with secondary education	18
5.1.2	Population with secondary educationn/a	n/a
5.1.3	Technicians and associate professionals50.12	39
5.1.4	Labour productivity per employeen/a	n/a
5.2	Employability64.96	42
5.2.1	Ease of finding skilled employees	90
5.2.2	Relevance of education system to the economy	26
5.2.3	Skills matching	55
5.2.4	Highly educated unemployment	42
6	GLOBAL KNOWLEDGE SKILLS	45
<b>6</b> .1	High-Level Skills	20
6.1.1	Workforce with tertiary education	66
6.1.2	Population with tertiary education	n/a
6.1.3	Professionals	49
6.1.4	Researchers	n/a
6.1.5	Senior officials and managers	35
	Digital skills	1
5.1.6	Talent Impact	91
6.2	Innovation output	122
6.2 6.2.1	·	
6.2 6.2.1 6.2.2	Innovation output	108
6.1.6 6.2 6.2.1 6.2.2 6.2.3 6.2.4	Innovation output	122 108 65 83

#### **BULGARIA**

 2.2.4
 Economic empowerment of women.
 .86.73

 2.2.5
 Gender parity in high-skilled jobs.
 .74.62

Key Indicators

			40			
Rank	(out of 134)		<del>1</del> 9	GDP	per capita (PPP US\$)	82.28
Incor	ne group	. Upper-middle in	come	GDP	(US\$ billions)	89.04
Regio	onal group	Eı	urope	GTCI	score	49.05
Popu	lation (millions)		.6.47	GTCI	score (income group average)	43.53
_	CI 2023 Country Profile by Pillar				Score	Rank
	CI 2023 Country Frome by Final			3	GROW	
	Enable			<b>3</b>	Formal Education	
	T <sup>100</sup>			5.1	Enrolment	30
	\$90 \$80			3.1.1	Vocational enrolment	18
	Global #70			3.1.2	Tertiary enrolment	26
Kno	owledge Skills	Attract			Quality	
	30	A PARTY OF THE PAR		3.1.3 3.1.4	Tertiary education expenditure	
	$\frac{1}{10}$			3.1.4	Reading, maths, and science         37.78           University ranking         22.19	
				3.2	Lifelong Learning	
				3.2.1	Business masters education	
		**		3.2.2	Prevalence of training in firms21.38	81
V	ocational and	***		3.2.3	Employee development53.97	
Te	echnical Skills	Grow		3.3	Access to Growth Opportunities	57
	Ŧ			3.3.1	Empowerment  Pelagation of authority  43.09	72
	İ			3.3.2	Delegation of authority	
	Retain			3.3.2	Collaboration	10
				3.3.3	Use of virtual social networks	69
	<ul><li>Bulgaria</li><li>Inco</li></ul>	me group average		3.3.4	Use of virtual professional networks	64
		Score	Rank			
_	FNADLE			4	RETAIN71.14	39
<b>1</b> 1.1	Regulatory Landscape		<b>52</b> 55	4.1	Sustainability	44
1.1.1	Government effectiveness		79	4.1.1	Pension coverage93.94	
1.1.2	Rule of law		62	4.1.2	Social protection	
1.1.3	Political stability	73.09	46	4.1.3	Brain retention	114
1.1.4	Regulatory quality		48	4.1.4 4.1.5	Environmental performance	
1.1.5	Corruption		58	4.1.5	Lifestyle	
1.2	Market Landscape		46	4.2.1	Personal rights	
1.2.1 1.2.2	Extent of market dominance		48 70	4.2.2	Personal safety	46
1.2.3	Cluster development		48	4.2.3	Physician density	
1.2.4	R&D expenditure		44	4.2.4	Sanitation	85
1.2.5	ICT infrastructure	75.89	42			
1.2.6	Urbanisation		44	5	VOCATIONAL AND TECHNICAL SKILLS55.15	50
1.3	Business and Labour Landscape	46.32	62	5.1	Mid-Level Skills	
1.3.1	Labour Market Labour rights	88.07	43	5.1.1	Workforce with secondary education	
1.3.2	Labour-employer cooperation		64	5.1.2 5.1.3	Population with secondary education	n/a 53
	Management Practice		-	5.1.3	Labour productivity per employee	
1.3.3	Professional management	35.84	99	5.2	Employability	
1.3.4	Relationship of pay to productivity	68.43	34	5.2.1	Ease of finding skilled employees	
	Technology Adoption	24.60		5.2.2	Relevance of education system to the economy	
1.3.5	Enterprise software		64	5.2.3	Skills matching	
1.3.6 1.3.7	Cloud computing		70 62	5.2.4	Highly educated unemployment87.20	29
				6	GLOBAL KNOWLEDGE SKILLS33.21	47
2	ATTRACT		86	6.1	High-Level Skills	53
2.1	External Openness	35.48	93	6.1.1	Workforce with tertiary education	
211	Attract Business FDI regulatory restrictiveness	n /a	n/s	6.1.2	Population with tertiary education	
2.1.1	Financial globalisation		n/a 55	6.1.3 6.1.4	Professionals	40 34
	Attract People		22	6.1.4	Senior officials and managers	
2.1.3	Migrant stock	23.74	100	6.1.6	Digital skills	
2.1.4	International students	28.27	35	6.2	Talent Impact	
2.1.5	Brain gain		117	6.2.1	Innovation output	
2.2	Internal Openness	56.40	66	6.2.2	High-value exports	
2.2.1	Social Inclusion Tolerance of minorities	E7 AF	44	6.2.3 6.2.4	Software development	34 74
2.2.1	Tolerance of immigrants		116	6.2.4	Scientific journal articles	74 44
2.2.3	Social mobility		104	3.2.3		

#### **BURKINA FASO**

	41	10		
Rank	(out of 134)	<b>29</b>	GDP	per capita (PPP US\$)
Incor	ne group	come	GDP	(US\$ billions)
	onal group			score
0	lation (millions)			
ropu	iation (minions)	22.07	GICI	score (income group a
GT	CI 2023 Country Profile by Pillar			
	Enable		3	GROW
			3.1	Formal Education
	<b>I</b> <sup>100</sup> 90			Enrolment
	180		3.1.1	Vocational enrolment
	Global F60 Attract		3.1.2	Tertiary enrolment
Kno	owledge Skills T <sub>40</sub> Attract		3.1.3	Quality Tertiary education expen
	30		3.1.4	Reading, maths, and scien
			3.1.5	University ranking
			3.2	Lifelong Learning
			3.2.1	Business masters educati
			3.2.2	Prevalence of training in
V	ocational and		3.2.3	Employee development
	echnical Skills Grow		3.3	Access to Growth Oppo
	‡			Empowerment
	†		3.3.1	Delegation of authority .
	_		3.3.2	Youth inclusion
	Retain		222	Collaboration
	Burkina Faso     Income group average		3.3.3 3.3.4	Use of virtual social netw Use of virtual professiona
	Score	Rank	3.3.1	ose of virtual professiona
1	ENABLE	123	4	RETAIN
1.1	Regulatory Landscape	110	4.1	Sustainability
1.1.1	Government effectiveness	108	4.1.1	Pension coverage
1.1.2	Rule of law	90	4.1.2	Social protection
1.1.3	Political stability18.56	130	4.1.3 4.1.4	Brain retention
1.1.4	Regulatory quality29.98	96	4.1.4	Vulnerable employment
1.1.5	Corruption	63	4.2	Lifestyle
1.2	Market Landscape	126	4.2.1	Personal rights
1.2.1	Extent of market dominance	95	4.2.2	Personal safety
1.2.2 1.2.3	Domestic credit to private sector	92 133	4.2.3	Physician density
1.2.3	R&D expenditure	85	4.2.4	Sanitation
1.2.5	ICT infrastructure	123		
1.2.6	Urbanisation	122	5	VOCATIONAL AND TE
1.3	Business and Labour Landscape30.60	118	<b>5</b> .1	Mid-Level Skills
	Labour Market		5.1.1	Workforce with secondar
1.3.1	Labour rights90.75	31	5.1.2	Population with seconda
		114		
1.3.2	Labour-employer cooperation	114	5.1.3	Technicians and associate
1.3.2	Labour-employer cooperation	114	5.1.3 5.1.4	Labour productivity per

	Score	Rank
1	ENABLE26.01	123
1.1	Regulatory Landscape28.24	110
1.1.1	Government effectiveness	108
1.1.2	Rule of law	90
1.1.3	Political stability	130
1.1.4	Regulatory quality29.98	96
1.1.5	Corruption	63
1.2	Market Landscape	126
1.2.1	Extent of market dominance	95
1.2.2	Domestic credit to private sector35.15	92
1.2.3	Cluster development4.79	133
1.2.4	R&D expenditure4.49	85
1.2.5	ICT infrastructure	123
1.2.6	Urbanisation	122
1.3	Business and Labour Landscape	118
	Labour Market	
1.3.1	Labour rights90.75	31
1.3.2	Labour-employer cooperation	114
	Management Practice	
1.3.3	Professional management	129
1.3.4	Relationship of pay to productivity	132
	Technology Adoption	
1.3.5	Enterprise software	69
1.3.6	Cloud computing	83
1.3.7	Firms with website	n/a
2	ATTRACT42.51	96
2.1	External Openness	99
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation55.88	81
	Attract People	
2.1.3	Migrant stock	59
2.1.4	International students6.68	78
2.1.5	Brain gain	113
2.2	Internal Openness	80
	Social Inclusion	
2.2.1	Tolerance of minorities	62
2.2.2	Tolerance of immigrants	27
2.2.3	Social mobility	77
2.2.4	Economic empowerment of women	69
2.2.5	Gender parity in high-skilled jobs	86
2.2.6	Leadership opportunities for women	130

	per capita (PPP US\$)	
GTCI	score	20.55
GTCI	score (income group average)	22.85
	Score	Rank
3	GROW10.77	133
3.1	Formal Education	98
3.1.1	Vocational enrolment	103
3.1.2	Tertiary enrolment	114
3.1.3	Tertiary education expenditure	45
3.1.4	Reading, maths, and science	n/a
3.1.5	University ranking0.00	76
3.2	Lifelong Learning	134
3.2.1 3.2.2	Business masters education	57 n/a
3.2.3	Employee development	132
3.3	Access to Growth Opportunities 5.29	134
	Empowerment	
3.3.1	Delegation of authority	132
3.3.2	Youth inclusion	124
	Collaboration	
3.3.3 3.3.4	Use of virtual social networks	124 125
3.3.4	Use of virtual professional networks	123
4	RETAIN24.20	124
4.1	Sustainability	125
4.1.1	Pension coverage	123
4.1.2	Social protection	89
4.1.3 4.1.4	Brain retention	96
4.1.4 4.1.5	Environmental performance	93 130
4.2	Lifestyle	123
4.2.1	Personal rights	92
4.2.2	Personal safety38.60	107
4.2.3	Physician density0.67	126
4.2.4	Sanitation	128
5	VOCATIONAL AND TECHNICAL SKILLS13.07	133
5.1	Mid-Level Skills	122
5.1.1	Workforce with secondary education	126
5.1.2	Population with secondary education	89
5.1.3	Technicians and associate professionals	88
5.1.4 5.2	Labour productivity per employee	110 133
5.2.1	Ease of finding skilled employees	99
5.2.2	Relevance of education system to the economy16.78	118
5.2.3	Skills matching	110
5.2.4	Highly educated unemploymentn/a	n/a
6	GLOBAL KNOWLEDGE SKILLS	125
6.1	High-Level Skills	112
6.1.1	Workforce with tertiary education	125
6.1.2	Population with tertiary education	89
6.1.3	Professionals	98
6.1.4 6.1.5	Researchers	n/a 77
6.1.6	Digital skills	n/a
5.2	Talent Impact. 4.77	131
5.2.1	Innovation output	120
5.2.2	High-value exports	93
6.2.3	Software development	131
	New business density	107
6.2.4 6.2.5	Scientific journal articles	118

## **BURUNDI**

Key Indicators		
Rank (out of 134)		Low income Sub-Saharan Africa
GTCI 2023 Country Profile by P	illar	
Global Knowledge Skills	Enable  100 90 80 70 60 40 30	Attract
Vocational and Technical Skills		Grow

Retain

Income group average

Burundi

	Score	Rank
1	ENABLE	131
1.1	Regulatory Landscape12.56	132
1.1.1	Government effectiveness9.67	132
1.1.2	Rule of law	131
1.1.3	Political stability25.70	125
1.1.4	Regulatory quality16.56	127
1.1.5	Corruption	133
1.2	Market Landscape	129
1.2.1	Extent of market dominance	87
1.2.2	Domestic credit to private sector	76
1.2.3	Cluster development	105
1.2.4	R&D expenditure	87
1.2.5	ICT infrastructure0.00	129
1.2.6	Urbanisation	134
1.3	Business and Labour Landscape30.77	117
	Labour Market	
1.3.1	Labour rightsn/a	n/a
1.3.2	Labour-employer cooperation	66
	Management Practice	
1.3.3	Professional management	112
1.3.4	Relationship of pay to productivity	127
1.3.5	Enterprise software	14
1.3.5	Cloud computing	126
1.3.7	Firms with website	99
1.5./	Timis with website	99
2	ATTRACT39.81	103
2.1	External Openness	107
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation	126
	Attract People	
2.1.3	Migrant stock	73
2.1.4	International students	51
2.1.5	Brain gain	66
2.2	Internal Openness	94
	Social Inclusion	
2.2.1	Tolerance of minorities	92
2.2.2	Tolerance of immigrants	79
2.2.3	Social mobility	84
	Gender Equality	
2.2.4	Economic empowerment of women	95
2.2.5	Gender parity in high-skilled jobs56.76	97
2.2.6	Leadership opportunities for women	69

	score (income group average)	
	Score	Rar
3	GROW	10
3.1	Formal Education. 17.95 Enrolment	10
3.1.1	Vocational enrolment	
3.1.2	Tertiary enrolment	1.
3.1.3	Tertiary education expenditure	
3.1.4	Reading, maths, and science	n
3.1.5	University ranking0.00	
3.2	Lifelong Learning24.55	1
3.2.1	Business masters education	
3.2.2 3.2.3	Prevalence of training in firms	1
3.2.3	Access to Growth Opportunities	1
ر.ر	Empowerment	
3.3.1	Delegation of authority	1
3.3.2	Youth inclusion	
	Collaboration	
3.3.3	Use of virtual social networks	1
3.3.4	Use of virtual professional networks	1
4	RETAIN	1:
4.1	Sustainability	1
4.1.1	Pension coverage	1
4.1.2	Social protection54.21	
4.1.3	Brain retention	1
4.1.4	Environmental performance	1
4.1.5	Vulnerable employment	1
4.2	Lifestyle	1
4.2.1 4.2.2	Personal rights	1
4.2.2 4.2.3	Personal safety         25.73           Physician density         0.24	1
4.2.4	Sanitation	1
5	VOCATIONAL AND TECHNICAL SKILLS	10
5.1	Mid-Level Skills	1
5.1.1	Workforce with secondary education	1
5.1.2	Population with secondary education	
5.1.3	Technicians and associate professionals	1
5.1.4	Labour productivity per employeen/a	r
5.2	Employability62.40	
5.2.1	Ease of finding skilled employees	
5.2.2	Relevance of education system to the economy41.89	
5.2.3 5.2.4	Skills matching	r
<u> </u>	GLOBAL KNOWLEDGE SKILLS	13
5.1	High-Level Skills 1.52	1
5.1.1	Workforce with tertiary education	1
6.1.2	Population with tertiary education0.00	
6.1.3	Professionals4.56	1
5.1.4	Researchers	1
5.1.5	Senior officials and managers	1
5.1.6	Digital skills	r
5.2	Talent Impact. 4.84	1
5.2.1 5.2.2	Innovation output	1
6.2.2 6.2.3	Software development	1
5.2.4	New business density	r
5.2.5	Scientific journal articles	1
	,	

#### **CABO VERDE**

Key Ind	dicators						
		•	70				
Rank	(out of 134)		<b>78</b>	GDP	per capita (PPP US\$)	9,08	82.84
Incor	ne group Lower-mi	ddle in	come		(US\$ billions)		
_	onal groupSub-Sah				score		
Popu	lation (millions)		0.59	GTCI	score (income group average)		32.03
GT	CI 2023 Country Profile by Pillar					Score	Rank
	Enable			3	GROW	24.86	106
	<b>T</b> 100			3.1	Formal Education	17.09	103
	90 80			3.1.1	Vocational enrolment	3.09	109
	Global 770			3.1.2	Tertiary enrolment	14.85	94
Kno	owledge Skills Attr	act		212	Quality	50.41	01
	30			3.1.3 3.1.4	Tertiary education expenditure		81 n/a
	$\frac{1}{10}$			3.1.4	University ranking		76
	<b>/</b> **/			3.2	Lifelong Learning.		117
				3.2.1	Business masters education		57
				3.2.2	Prevalence of training in firms	n/a	n/a
V	ocational and			3.2.3	Employee development		92
	echnical Skills	W		3.3	Access to Growth Opportunities	35.41	91
	Ţ				Empowerment	20.55	
	t			3.3.1 3.3.2	Delegation of authority		82 99
	Retain			5.5.2	Youth inclusion	39.30	99
	Retain			3.3.3	Use of virtual social networks	44 36	91
	<ul> <li>Cabo Verde</li> <li>Income group avera</li> </ul>	age		3.3.4	Use of virtual professional networks		70
		Caara	Donle				
	ENABLE	Score	Rank	4	RETAIN	57.12	70
.1	Regulatory Landscape		<b>53</b> 43	4.1	Sustainability	56.33	60
.1.1	Government effectiveness		66	4.1.1	Pension coverage	85.45	62
.1.2	Rule of law		49	4.1.2	Social protection		74
.1.3	Political stability	. 84.64	21	4.1.3	Brain retention		62
.1.4	Regulatory quality		56	4.1.4 4.1.5	Environmental performance		68 71
.1.5	Corruption		29	4.2	Lifestyle		77
.2	Market Landscape		73	4.2.1	Personal rights		35
.2.1 .2.2	Extent of market dominance  Domestic credit to private sector		97 55	4.2.2	Personal safety		82
.2.3	Cluster development.		86	4.2.3	Physician density	11.86	94
.2.4	R&D expenditure		n/a	4.2.4	Sanitation	77.07	94
.2.5	ICT infrastructure		118				
1.2.6	Urbanisation		65	5	VOCATIONAL AND TECHNICAL SKILLS	42.95	76
1.3	Business and Labour Landscape	47.08	57	5.1	Mid-Level Skills	30.82	78
2.1	Labour Market	05.71	10	5.1.1	Workforce with secondary education		39
.3.1 .3.2	Labour rights		19 103	5.1.2	Population with secondary education		80
.J.Z	Management Practice		103	5.1.3 5.1.4	Technicians and associate professionals		80 n/a
.3.3	Professional management	17.96	123	5.1.4	Labour productivity per employee Employability.		76
.3.4	Relationship of pay to productivity		107	5.2.1	Ease of finding skilled employees		56
	Technology Adoption			5.2.2	Relevance of education system to the economy		50
.3.5	Enterprise software		n/a	5.2.3	Skills matching		78
.3.6 .3.7	Cloud computing		n/a n/a	5.2.4	Highly educated unemployment	n/a	n/a
				6	GLOBAL KNOWLEDGE SKILLS	23.98	73
2	ATTRACT	48.82	75	6.1	High-Level Skills		97
2.1	External Openness	37.88	87	6.1.1	Workforce with tertiary education	17.17	91
	Attract Business		,	6.1.2	Population with tertiary education		75
2.1.1	FDI regulatory restrictiveness		n/a	6.1.3	Professionals		76
2.1.2	Financial globalisation	/U.1/	50	6.1.4	Researchers		88
2.1.3	Migrant stock	36.20	76	6.1.5 6.1.6	Senior officials and managers		68 39
2.1.4	International students		83	6.2	Talent Impact.		50
2.1.5	Brain gain		81	6.2.1	Innovation output		n/a
2	Internal Openness		47	6.2.2	High-value exports	1.19	118
	Social Inclusion			6.2.3	Software development	55.61	75
.2.1	Tolerance of minorities		19	6.2.4	New business density		8
.2.2	Tolerance of immigrants		n/a	6.2.5	Scientific journal articles	1.35	98
2.2.3	Social mobility	/U.59	120				

2.2.3

2.2.4

2.2.5

Gender Equality

Economic empowerment of women......80.53

## **CAMBODIA**

Dank	(out of 134)	10	<b>)6</b>	CDD	per capita (PPP US\$)	10 16
	ne group				(US\$ billions)	
	nal group <b>Eastern, Southeas</b>				score	
U	0 1					
Popul	ation (millions)		16.77	GICI	score (income group average)	32.03
GTO	El 2023 Country Profile by Pillar				Score	Rank
	Enable			3	GROW	104
	T100			3.1	Formal Education. 3.26	130
	<b>∔</b> 90			211	Enrolment	110
	‡80 70			3.1.1 3.1.2	Vocational enrolment	112 104
	Global +60	. Attract		3.1.2	Quality	104
Kno	wledge Skills	Accident		3.1.3	Tertiary education expenditure	n/a
	*** Jon J			3.1.4	Reading, maths, and science	n/a
	20			3.1.5	University ranking	76
				3.2	Lifelong Learning23.30	115
				3.2.1	Business masters education0.00	57
		<b>X</b>		3.2.2	Prevalence of training in firms	72
Vo	ocational and	Grow		3.2.3 3.3	Employee development	90 56
Te	chnical Skills	GIOW		3.3	Access to Growth Opportunities	30
	t			3.3.1	Delegation of authority	76
	I			3.3.2	Youth inclusion	6
	Retain				Collaboration	
				3.3.3	Use of virtual social networks	73
	Cambodia	ne group average		3.3.4	Use of virtual professional networks4.42	113
		Score	Rank			
1	ENABLE	34.21	103	4	RETAIN 34.21	110
1.1	Regulatory Landscape	29.28	108	4.1	Sustainability	110
1.1.1	Government effectiveness	32.32	95	4.1.1 4.1.2	Pension coverage	124 98
1.1.2	Rule of law		117	4.1.2	Brain retention	55
1.1.3	Political stability		69	4.1.4	Environmental performance	114
1.1.4 1.1.5	Regulatory quality		109 123	4.1.5	Vulnerable employment	94
1.1.3	Market Landscape		90	4.2	Lifestyle	105
1.2.1	Extent of market dominance		74	4.2.1	Personal rights	118
1.2.2	Domestic credit to private sector		5	4.2.2	Personal safety58.83	71
1.2.3	Cluster development	40.40	82	4.2.3	Physician density	113
1.2.4	R&D expenditure	2.02	103	4.2.4	Sanitation	102
1.2.5	ICT infrastructure		83			
1.2.6	Urbanisation		127	5	VOCATIONAL AND TECHNICAL SKILLS29.11	115
1.3	Business and Labour Landscape  Labour Market		104	5.1	Mid-Level Skills	127
1.3.1	Labour rights	3914	96	5.1.1 5.1.2	Workforce with secondary education	123 88
1.3.2	Labour-employer cooperation		52	5.1.2	Population with secondary education	118
	Management Practice			5.1.4	Labour productivity per employee	106
1.3.3	Professional management	50.71	67	5.2	Employability	82
1.3.4	Relationship of pay to productivity	61.63	42	5.2.1	Ease of finding skilled employees	112
	Technology Adoption			5.2.2	Relevance of education system to the economy	73
1.3.5	Enterprise software		75	5.2.3	Skills matching	85
1.3.6 1.3.7	Cloud computing		87 101	5.2.4	Highly educated unemployment95.71	6
				6	GLOBAL KNOWLEDGE SKILLS	117
2	ATTRACT	46.25	85	6.1	High-Level Skills	125
2.1	External Openness	45.19	69	6.1.1	Workforce with tertiary education	114
	Attract Business			6.1.2	Population with tertiary education5.34	81
2.1.1	FDI regulatory restrictiveness		33	6.1.3	Professionals6.72	123
2.1.2	Financial globalisation	72.99	43	6.1.4	Researchers	101
212	Attract People	11.10	122	6.1.5	Senior officials and managers	110
2.1.3	Migrant stock		122 109	6.1.6 6.2	Digital skills	80 115
2.1.5	Brain gain		46	6.2.1	Innovation output	100
2.2	Internal Openness		101	6.2.2	High-value exports. 3.95	92
	Social Inclusion			6.2.3	Software development	98
2.2.1	Tolerance of minorities		71	6.2.4	New business density	95
2.2.2	Tolerance of immigrants		128	6.2.5	Scientific journal articles	120
2.2.3	Social mobility	36.97	91			
2.2.4	Gender Equality  Economic empowerment of women	70 45	74			
2.2.4	Gender parity in high-skilled jobs		83			
2.2.6	Leadership opportunities for women		35			

#### ARCDOOM

Incor	c (out of 134)	Lower-middle in		GDP GTCI	per capita (PPP US\$)	44.3 25.9
-	lation (millions)		27.91	GTCI	score (income group average)	32.0
GT	CI 2023 Country Profile by Pillar				Score	e Ranl
	Enable			3	GROW 24.35	107
				3.1	Formal Education14.72	2 11:
	${f I}_{90}^{100}$				Enrolment	
	<b>I</b> <sub>80</sub>			3.1.1	Vocational enrolment	3 4
	70			3.1.2	Tertiary enrolment8.60	) 10
7.7	Global +60 50	Attract			Quality	
Kno	owledge Skills	XXXX		3.1.3	Tertiary education expenditure	
	30			3.1.4	Reading, maths, and science	
	10			3.1.5	University ranking	
				3.2	Lifelong Learning31.72	
				3.2.1	Business masters education	
	* * * * * * * * * * * * * * * * * * *	**		3.2.2	Prevalence of training in firms	
V	ocational and	Grow		3.2.3	Employee development	
Te	echnical Skills	Grow		3.3	Access to Growth Opportunities	11
	+			2.2.1	Empowerment 22.05	
	İ			3.3.1 3.3.2	Delegation of authority	
	Retain			3.3.2	Collaboration	: >
	Retain			3.3.3	Use of virtual social networks	) 11
	<ul><li>Cameroon</li><li>Incom</li></ul>	e group average		3.3.4	Use of virtual professional networks	
		Score	Rank			
	ENABLE	26.26	122	4	RETAIN 24.03	12
.1	Regulatory Landscape		126	4.1	Sustainability	
.1.1	Government effectiveness		122	4.1.1	Pension coverage	
1.2	Rule of law		126	4.1.2	Social protection	
.1.3	Political stability	24.60	126	4.1.3	Brain retention	
.1.4	Regulatory quality		123	4.1.4	Environmental performance	
.1.5	Corruption	12.33	116	4.1.5 4.2	Vulnerable employment	
.2	Market Landscape	31.72	110	4.2.1	Personal rights	
.2.1	Extent of market dominance		58	4.2.1	Personal safety	
.2.2	Domestic credit to private sector		120	4.2.3	Physician density. 1.20	
.2.3	Cluster development		91	4.2.4	Sanitation	
.2.4	R&D expenditure		n/a			
	ICT infrastructure		127 84			
2.5	UIDaliisati011	49.84		5	VOCATIONAL AND TECHNICAL SKILLS31.79	11
2.6		20 <2	125			
.6	Business and Labour Landscape	28.62	125	5.1	Mid-Level Skills	
.6	Business and Labour Landscape Labour Market			5.1.1	Workforce with secondary education	) 1
2.6 3 3.1	Business and Labour Landscape Labour Market Labour rights	n/a	n/a	5.1.1 5.1.2	Workforce with secondary education	) 1 a r
2.6	Business and Labour Landscape Labour Market	n/a		5.1.1	Workforce with secondary education	) 1 a r 7 1

	score	
GICI	score (income group average)	
3	GROW. 24.35	Rank
3.1	Formal Education	113
3.1.1 3.1.2	Vocational enrolment 29,98 Tertiary enrolment	40 103
3.1.3	Tertiary education expenditure	109
3.1.4	Reading, maths, and science	n/a
3.1.5	University ranking	76
3.2 3.2.1	Lifelong Learning	73 57
3.2.2	Prevalence of training in firms	41
3.2.2	Employee development	71
3.3	Access to Growth Opportunities	111
3.3.1	Delegation of authority	112
3.3.2	Youth inclusion	58
3.3.3	Use of virtual social networks	117
3.3.4	Use of virtual professional networks	106
4	RETAIN	125
4.1	Sustainability	124
4.1.1	Pension coverage	104
4.1.2	Social protection	111
4.1.3	Brain retention	103
4.1.4	Environmental performance	113 116
4.1.5 4.2	Vulnerable employment	124
4.2.1	Lifestyle	100
4.2.2	Personal safety	126
4.2.3	Physician density	122
4.2.4	Sanitation	116
5	VOCATIONAL AND TECHNICAL SKILLS31.79	110
5.1	Mid-Level Skills	116
5.1.1 5.1.2	Workforce with secondary education	108
5.1.2	Population with secondary education	n/a 105
5.1.4	Labour productivity per employee	103
5.2	Employability	83
5.2.1	Ease of finding skilled employees	37
5.2.2	Relevance of education system to the economy	88
5.2.3	Skills matching	98
5.2.4	Highly educated unemployment	84
6	GLOBAL KNOWLEDGE SKILLS	102
6.1	High-Level Skills	103
6.1.1	Workforce with tertiary education	112
6.1.2	Population with tertiary education	n/a
6.1.3	Professionals	106
6.1.4 6.1.5	Researchers	n/a 79
6.1.6	Digital skills	n/a
	Talent Impact	102
6.2	Innovation output	110
6.2 6.2.1		
	High-value exports12.55	03
6.2.1	High-value exports.12.55Software development37.20	
6.2.1 6.2.2	9 1	63 111 n/a 95

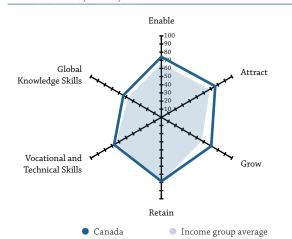
1.3.3 1.3.4	Management Practice Professional management	104 70
1.3.5	Technology Adoption Enterprise software	62
1.3.5	Cloud computing	80
1.3.7	Firms with website	102
2	ATTRACT35.32	119
2.1	External Openness	115
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation28.13	120
	Attract People	
2.1.3	Migrant stock	86
2.1.4	International students10.03	70
2.1.5	Brain gain	74
2.2	Internal Openness	116
	Social Inclusion	
2.2.1	Tolerance of minorities	117
2.2.2	Tolerance of immigrants	60
2.2.3	Social mobility	58
	Gender Equality	
2.2.4	Economic empowerment of women	120
2.2.5	Gender parity in high-skilled jobs	98
2.2.6	Leadership opportunities for women	109

#### **CANADA**

Key Indicators

Rank (out of 134)	13
Income group	ome
Regional group Northern Ame	rica
Population (millions)	8.93

GTCI 2023 Country Profile by Pillar



	Score	Rank
1	ENABLE	16
1.1	Regulatory Landscape83.82	12
1.1.1	Government effectiveness	10
1.1.2	Rule of law	13
1.1.3	Political stability85.53	18
1.1.4	Regulatory quality84.07	12
1.1.5	Corruption	13
1.2	Market Landscape	20
1.2.1	Extent of market dominance	24
1.2.2	Domestic credit to private sectorn/a	n/a
1.2.3	Cluster development	15
1.2.4	R&D expenditure31.55	23
1.2.5	ICT infrastructure	21
1.2.6	Urbanisation	30
1.3	Business and Labour Landscape71.30	13
	l abour Market	
1.3.1	Labour rights85.66	49
1.3.2	Labour-employer cooperation	33
1.5.2	Management Practice	33
1.3.3	Professional management	24
1.3.4	Relationship of pay to productivity	11
1.5.4	Technology Adoption	- 11
1.3.5	Enterprise software	13
1.3.6	Cloud computing	12
1.3.7	Firms with website	8
2	ATTRACT	10
2.1	External Openness	15
	Attract Business	
2.1.1	FDI regulatory restrictiveness	64
2.1.2	Financial globalisation	20
	Attract People	20
2.1.3	Migrant stock	18
2.1.4	International students	10
2.1.5	Brain gain	11
2.2	Internal Openness	10
	Social Inclusion	
2.2.1	Tolerance of minorities	10
2.2.2	Tolerance of immigrants98.46	2
2.2.3	Social mobility	30
	Canadas Favolito	

Gender Equality

2.2.4

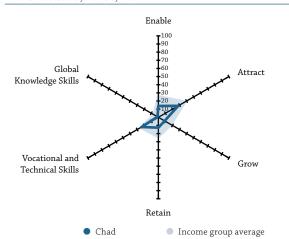
2.2.5

TCI	score (income group average)	61
	Score	R
	GROW70.72	
1	Formal Education58.76	
	Enrolment	
1.1	Vocational enrolment	
1.2	Tertiary enrolment	
1 2	Quality Tertiary education expenditure	
1.3 1.4	Reading, maths, and science	
1.5	University ranking	
2	Lifelong Learning	
2.1	Business masters education	
2.2	Prevalence of training in firmsn/a	
2.3	Employee development	
3	Access to Growth Opportunities	
	Empowerment 77 to	
3.1 3.2	Delegation of authority	
3.2	Youth inclusion	
3.3	Use of virtual social networks	
3.4	Use of virtual professional networks	
	RETAIN	_
1	Sustainability 77.98	
1.1	Pension coverage	
1.2	Social protection	
1.3	Brain retention	
1.4	Environmental performance52.71	
1.5	Vulnerable employment	
2	Lifestyle	
2.1	Personal rights	
2.2 2.3	Personal safety         83.15           Physician density         38.59	
2.4	Sanitation	
	VOCATIONAL AND TECHNICAL SKILLS67.02	
1	Mid-Level Skills	
1.1	Workforce with secondary education	
1.2	Population with secondary education	
1.3	Technicians and associate professionals	
1.4	Labour productivity per employee	
2	Employability82.25	
2.1 2.2	Ease of finding skilled employees	
2.2	Skills matching	
2.4	Highly educated unemployment84.41	
	GLOBAL KNOWLEDGE SKILLS53.92	
1	High-Level Skills	
1.1	Workforce with tertiary education84.47	
1.2	Population with tertiary education	
1.3	Professionals	
1.4	Researchers	
1.5 1.6	Senior officials and managers	
1.6	Digital skills         .n/a           Talent Impact         48.90	
2 2.1	Innovation output	
2.2	High-value exports	
2.3	Software development	
2.4	New business density	
2.5	Scientific journal articles	

#### **CHAD**

Key Indicators

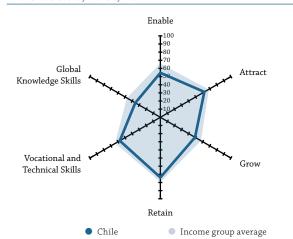
Rank (out of 134)	134
Income group	Low income
Regional group	Sub-Saharan Africa
Population (millions)	



	Score	Rank
1	ENABLE	134
1.1	Regulatory Landscape	133
1.1.1	Government effectiveness	133
1.1.2	Rule of law	132
1.1.3	Political stability	124
1.1.4	Regulatory quality	130
1.1.5	Corruption	131
1.2	Market Landscape	133
1.2.1	Extent of market dominance	117
1.2.2	Domestic credit to private sector	124
1.2.3	Cluster development	118
1.2.4	R&D expenditure	75
1.2.5	ICT infrastructure	128
1.2.6	Urbanisation	128
1.3	Business and Labour Landscape	134
1.5	Labour Market	151
1.3.1	Labour rights	n/a
1.3.1	Labour-employer cooperation	119
1.J.Z	1 7 1	115
1.3.3	Management Practice Professional management	131
1.3.3		91
1.5.4	Relationship of pay to productivity	91
125	Technology Adoption	00
1.3.5	Enterprise software	99
1.3.6	Cloud computing	107
1.3.7	Firms with website	112
2	ATTRACT28.16	130
2.1	External Openness	112
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation	130
2.1.2	Attract People	150
2.1.3	Migrant stock	61
2.1.4	International students	n/a
2.1.5	Brain gain	95
2.1.3	Internal Openness	132
2.2	Social Inclusion	132
2.2.1	Tolerance of minorities	117
2.2.1		63
2.2.2	Tolerance of immigrants	122
2.2.3	Social mobility	122
	Gender Equality	
2.2.4	Economic empowerment of women	114
2.2.5	Gender parity in high-skilled jobs	129
2.2.6	Leadership opportunities for women	126

GDP (	oer capita (PPP US\$)	12.70
	scorescore (income group average)	
	Score	Rank
3	GROW8.85	134
3.1	Formal Education	132
	Enrolment	
3.1.1 3.1.2	Vocational enrolment	114 128
J.1.Z	Quality	120
3.1.3	Tertiary education expenditure	n/a
3.1.4	Reading, maths, and science	n/a
3.1.5	University ranking	76
3.2 3.2.1	Lifelong Learning	125 57
3.2.1	Prevalence of training in firms	71
3.2.3	Employee development	121
3.3	Access to Growth Opportunities	132
	Empowerment	400
3.3.1 3.3.2	Delegation of authority	129 123
5.5.2	Collaboration	123
3.3.3	Use of virtual social networks	134
3.3.4	Use of virtual professional networks	132
4	RETAIN12.71	134
4.1	Sustainability	133
4.1.1	Pension coverage	131
4.1.2	Social protection	124
4.1.3 4.1.4	Brain retention	112 125
4.1.5	Vulnerable employment	133
4.2	Lifestyle14.81	132
4.2.1	Personal rights	113
4.2.2	Personal safety	124
4.2.3 4.2.4	Physician density.         0.14           Sanitation.         3.46	132 133
5	VOCATIONAL AND TECHNICAL SKILLS	127
5.1	Mid-Level Skills	133
5.1.1	Workforce with secondary education	122
5.1.2	Population with secondary education	n/a
5.1.3 5.1.4	Technicians and associate professionals	130 114
5.1.4	Labour productivity per employee	107
5.2.1	Ease of finding skilled employees	94
5.2.2	Relevance of education system to the economy24.65	102
5.2.3	Skills matching	107
5.2.4	Highly educated unemployment	1
6	GLOBAL KNOWLEDGE SKILLS1.26	134
6.1	High-Level Skills 2.38	130
6.1.1 6.1.2	Workforce with tertiary education	124 n/a
6.1.3	Professionals	128
6.1.4	Researchers	96
6.1.5	Senior officials and managers	131
6.1.6	Digital skills	n/a
6.2	Talent Impact	134
6.2.1 6.2.2	Innovation output	n/a n/a
6.2.3	Software development	133
6.2.4	New business density	119
6.2.5	Scientific journal articles	134

Rank (out of 134)	4
Income group	me
Regional groupLatin America and the Caribbe	an
Population (millions)	60

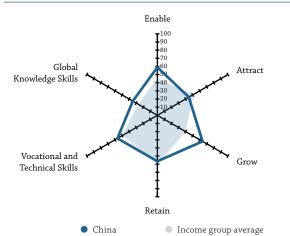


	Score	Rank
1	ENABLE	37
1.1	Regulatory Landscape	35
1.1.1	Government effectiveness	42
1.1.2	Rule of law	30
1.1.3	Political stability	61
1.1.4	Regulatory quality	31
1.1.5	Corruption	23
1.2	Market Landscape	44
1.2.1	Extent of market dominance	98
1.2.2	Domestic credit to private sector67.64	19
1.2.3	Cluster development	80
1.2.4	R&D expenditure6.21	72
1.2.5	ICT infrastructure81.16	24
1.2.6	Urbanisation85.70	17
1.3	Business and Labour Landscape	59
1.3.1	Labour Market Labour rights	82
1.3.1	Labour-employer cooperation	50
1.3.2	Management Practice	50
1.3.3	Professional management	51
1.3.3	Relationship of pay to productivity	53
1.3.4	Technology Adoption	23
1.3.5	Enterprise software35.14	35
1.3.6	Cloud computing16.48	64
1.3.7	Firms with website	n/a
2	ATTRACT	34
2.1	External Openness	44
	Attract Business	
2.1.1	FDI regulatory restrictiveness	35
2.1.2	Financial globalisation	38
	Attract People	
2.1.3	Migrant stock	49
2.1.4	International students	87
2.1.5	Brain gain	45
2.2	Internal Openness	25
2.2	Social Inclusion	23
2.2.1	Tolerance of minorities	34
2.2.2	Tolerance of immigrants	48
2.2.3	Social mobility	26
2.2.4	Economic empowerment of women71.68	81
2.2.5	Gender parity in high-skilled jobs	7
2.2.6	Leadership opportunities for women	62
2.2.0	ceaces in appointment of women	02

	score (income group average)	
orci		
3	GROW. 49.13	Ra
• 3.1	Formal Education	-
	Enrolment	
.1.1	Vocational enrolment	
.1.2	Tertiary enrolment	
	Quality	
.1.3	Tertiary education expenditure	
.1.4	Reading, maths, and science	
.1.5	University ranking	
.2.1	Lifelong Learning	
.2.1	Prevalence of training in firms	
.2.3	Employee development	
.3	Access to Growth Opportunities	
	Empowerment	
.3.1	Delegation of authority	
.3.2	Youth inclusion	
	Collaboration	
.3.3	Use of virtual social networks	
.3.4	Use of virtual professional networks	
	RETAIN	
.1	Sustainability70.70	
.1.1	Pension coverage	
.1.2	Social protection55.97	
.1.3	Brain retention	
.1.4	Environmental performance	
.1.5	Vulnerable employment74.50	
.2	Lifestyle	
.2.1	Personal rights	
.2.2	Personal safety         68.18           Physician density         46.73	
.2.4	Sanitation 100.00	
;	VOCATIONAL AND TECHNICAL SKILLS57.53	
.1	Mid-Level Skills	
.i .1.1	Workforce with secondary education	
.1.2	Population with secondary education	
.1.3	Technicians and associate professionals	
.1.4	Labour productivity per employee	
.2	Employability65.14	
.2.1	Ease of finding skilled employees80.47	
.2.2	Relevance of education system to the economy	
.2.3	Skills matching	
.2.4	Highly educated unemployment	
	GLOBAL KNOWLEDGE SKILLS35.51	
.1	High-Level Skills	
.1.1	Workforce with tertiary education	
1.2	Professionals 28.23	
.1.3 .1.4	Professionals	
.1.4	Senior officials and managers	
1.6	Digital skills	
.2	Talent Impact	
2.1	Innovation output	
.2.2	High-value exports	
.2.3	Software development	
.2.4	New business density	
.2.5	Scientific journal articles	

#### **CHINA**

Rank (out of 134)	40
Income group	
Regional group Eastern, Southeaste	ern Asia and Oceania
Population (millions)	



	Score	Rank
1	ENABLE 58.95	31
1.1	Regulatory Landscape46.20	61
1.1.1	Government effectiveness	36
1.1.2	Rule of law	61
1.1.3	Political stability	92
1.1.4	Regulatory quality33.97	88
1.1.5	Corruption	53
1.2	Market Landscape	5
1.2.1	Extent of market dominance	4
1.2.2	Domestic credit to private sector	4
1.2.3	Cluster development	2
1.2.4	R&D expenditure	13
1.2.5	ICT infrastructure. 100.00	1
1.2.6	Urbanisation	76
1.3	Business and Labour Landscape	30
1.5	Labour Market	50
1.3.1	Labour rights	n/a
1.3.1	9	11/a 29
1.3.2	Labour-employer cooperation	29
	Management Practice	4.7
1.3.3	Professional management	17
1.3.4	Relationship of pay to productivity	3
	Technology Adoption	440
1.3.5	Enterprise software	112
1.3.6	Cloud computing	37
1.3.7	Firms with website	43
2	ATTRACT	91
2.1	External Openness	100
2.1	· · · · · · · · · · · · · · · · · · ·	
	Attract Rusiness	
211	Attract Business EDL regulatory restrictiveness 43.24	71
2.1.1	FDI regulatory restrictiveness	71
2.1.1 2.1.2	FDI regulatory restrictiveness	71 111
2.1.2	FDI regulatory restrictiveness         .43.24           Financial globalisation         .35.00           Attract People	111
2.1.2	FDI regulatory restrictiveness         .43.24           Financial globalisation         .35.00           Attract People         .000           Migrant stock         .0.00	111
2.1.2 2.1.3 2.1.4	FDI regulatory restrictiveness       .43.24         Financial globalisation       .35.00         Attract People       .000         Migrant stock       .0.00         International students       1.17	111 134 103
2.1.2 2.1.3 2.1.4 2.1.5	FDI regulatory restrictiveness       .43.24         Financial globalisation       .35.00         Attract People	111 134 103 7
2.1.2 2.1.3 2.1.4	FDI regulatory restrictiveness       .43.24         Financial globalisation       .35.00         Attract People	111 134 103
2.1.2 2.1.3 2.1.4 2.1.5 2.2	FDI regulatory restrictiveness       .43.24         Financial globalisation       .35.00         Attract People	111 134 103 7 65
2.1.2 2.1.3 2.1.4 2.1.5 2.2	FDI regulatory restrictiveness       .43.24         Financial globalisation       .35.00         Attract People	111 134 103 7 65
2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2	FDI regulatory restrictiveness       .43.24         Financial globalisation       .35.00         Attract People       .000         Migrant stock       .0.00         International students       1.17         Brain gain       .84.43         Internal Openness       .56.43         Social Inclusion         Tolerance of minorities       .30.85         Tolerance of immigrants       .58.46	111 134 103 7 65 84 66
2.1.2 2.1.3 2.1.4 2.1.5 2.2	FDI regulatory restrictiveness       .43.24         Financial globalisation       .35.00         Attract People       .000         Migrant stock       .0.00         International students       1.17         Brain gain       .84.43         Internal Openness       .56.43         Social Inclusion         Tolerance of minorities       .30.85         Tolerance of immigrants       .58.46         Social mobility       .65.20	111 134 103 7 65
2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3	FDI regulatory restrictiveness       .43.24         Financial globalisation       .35.00         Attract People	111 134 103 7 65 84 66 33
2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3	FDI regulatory restrictiveness       .43.24         Financial globalisation       .35.00         Attract People	111 134 103 7 65 84 66 33
2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3	FDI regulatory restrictiveness       .43.24         Financial globalisation       .35.00         Attract People	111 134 103 7 65 84 66 33

GDP	per capita (PPP US\$)	63.17
	score (income group average)	
	Score	Rank
3	GROW	15
3.1	Formal Education	9
	Enrolment	
3.1.1	Vocational enrolment	45 49
3.1.2	Tertiary enrolment	49
3.1.3	Tertiary education expenditure	n/a
3.1.4	Reading, maths, and science	1
3.1.5	University ranking	3
3.2 3.2.1	Lifelong Learning	5 12
3.2.1	Prevalence of training in firms	12
3.2.3	Employee development80.76	14
3.3	Access to Growth Opportunities	73
	Empowerment	
3.3.1	Delegation of authority	31
3.3.2	Youth inclusion	n/a
3.3.3	Use of virtual social networks	60
3.3.4	Use of virtual professional networks	111
4	RETAIN	74
4.1	Sustainability	49
4.1.1	Pension coverage	1
4.1.2	Social protection	25
4.1.3 4.1.4	Brain retention	32 120
4.1.5	Vulnerable employment	88
4.2	Lifestyle	91
4.2.1	Personal rights	130
4.2.2	Personal safety	60
4.2.3 4.2.4	Physician density.         .37.37           Sanitation.         .91.63	66 73
5	VOCATIONAL AND TECHNICAL SKILLS	47
5.1	Mid-Level Skills	95
5.1.1	Workforce with secondary education	n/a
5.1.2	Population with secondary education	n/a
5.1.3 5.1.4	Technicians and associate professionals	64 77
5.1.4	Employability	1
5.2.1	Ease of finding skilled employees	4
5.2.2	Relevance of education system to the economy79.23	10
5.2.3	Skills matchingn/a	n/a
5.2.4	Highly educated unemployment	7
6	GLOBAL KNOWLEDGE SKILLS	43
6.1 6.1.1	High-Level Skills   18.53     Workforce with tertiary education   .n/a	84 n/a
6.1.2	Population with tertiary education	n/a
6.1.3	Professionals	118
6.1.4	Researchers	46
6.1.5	Senior officials and managers	49
6.1.6 6.2	Digital skills	n/a 24
6.2.1	Talent Impact.         51.12           Innovation output         85.81	24
6.2.2	High-value exports	9
	Software development50.65	91
6.2.3		
6.2.4 6.2.5	New business density	17 50

## **COLOMBIA**

Rank	(out of 134)	<b>7</b>	<b>'2</b>	GDP :	per capita (PPP US\$)	20,28	37.40
Incor	ne group	Upper-middle inc	ome	GDP	(US\$ billions)	34	13.94
Regio	onal group	America and the Caribl	bean	GTCI	score	4	12.44
-	lation (millions)				score (income group average)		
GT	CI 2023 Country Profile by Pillar					Score	Rank
	, ,			3	GROW 4	E /10	45
	Enable			<b>3</b> .1	Formal Education.		62
	<b>T</b> 100			5.1	Enrolment	J4.14	02
	‡ <sub>80</sub>			3.1.1	Vocational enrolment	12.40	77
	70			3.1.2	Tertiary enrolment		56
	Global †60	Attract			Quality		
Kno	owledge Skills	A PARTY IN THE PROPERTY OF THE PARTY IN THE		3.1.3	Tertiary education expenditure	54.69	72
	30 20			3.1.4	Reading, maths, and science		61
	10			3.1.5	University ranking		35
				3.2	Lifelong Learning		26
				3.2.1	Business masters education		36
	Jan Jan Jan Jan Jan Jan Jan Jan Jan Jan			3.2.2 3.2.3	Prevalence of training in firms Employee development		7 76
	ocational and	Grow		3.2.3	Access to Growth Opportunities		58
Te	echnical Skills	0.011		3.3	Empowerment	+3.30	50
	t			3.3.1	Delegation of authority	48.03	62
	I			3.3.2	Youth inclusion		88
	Retain			3.3.2	Collaboration	10.02	
	ictaiii			3.3.3	Use of virtual social networks	69.36	45
	<ul><li>Colombia</li></ul>	Income group average		3.3.4	Use of virtual professional networks	34.20	38
		Coore	Donle				
1	ENABLE		Rank 71	4	RETAIN4	8.11	86
1.1	Regulatory Landscape		81	4.1	Sustainability	41.60	89
1.1.1	Government effectiveness		70	4.1.1	Pension coverage		84
1.1.2	Rule of law		91	4.1.2	Social protection		94
1.1.3	Political stability	37.40	112	4.1.3	Brain retention		64
1.1.4	Regulatory quality	47.81	57	4.1.4	Environmental performance		64
1.1.5	Corruption	30.14	71	4.1.5	Vulnerable employment		95
1.2	Market Landscape	44.81	69	4.2	Lifestyle		83 87
1.2.1	Extent of market dominance	34.05	83	4.2.1 4.2.2	Personal rights		114
1.2.2	Domestic credit to private sector		77	4.2.3	Physician density		68
1.2.3	Cluster development		57	4.2.4	Sanitation		68
1.2.4	R&D expenditure		79			,,,,,,	
1.2.5 1.2.6	ICT infrastructure		71 32				
1.3	Business and Labour Landscape		69	5	VOCATIONAL AND TECHNICAL SKILLS4		73
1.5	Labour Market	45.40	09	5.1	Mid-Level Skills		71
1.3.1	Labour rights	35 12	98	5.1.1	Workforce with secondary education		66
1.3.2	Labour-employer cooperation		45	5.1.2 5.1.3	Population with secondary education  Technicians and associate professionals		50 73
	Management Practice			5.1.4	Labour productivity per employee.		71
1.3.3	Professional management	52.84	61	5.1.4	Employability.		80
1.3.4	Relationship of pay to productivity		105	5.2.1	Ease of finding skilled employees		51
	Technology Adoption			5.2.2	Relevance of education system to the economy		87
1.3.5	Enterprise software		46	5.2.3	Skills matching		72
1.3.6	Cloud computing		45	5.2.4	Highly educated unemployment	59.94	96
1.3.7	Firms with website	69.30	35				
2	ATTRACT	40.64	70	6	GLOBAL KNOWLEDGE SKILLS2		66
2.1	External Openness		71	6.1	High-Level Skills		59
2.1	Attract Business		7.1	6.1.1 6.1.2	Workforce with tertiary education		46 49
2.1.1	FDI regulatory restrictiveness	94.05	16	6.1.3	Professionals		65
2.1.2	Financial globalisation		67	6.1.4	Researchers		93
	Attract People			6.1.5	Senior officials and managers		33
2.1.3	Migrant stock	29.12	88	6.1.6	Digital skills		34
2.1.4	International students	0.40	112	6.2	Talent Impact		71
2.1.5	Brain gain		88	6.2.1	Innovation output	29.87	69
2.2	Internal Openness	54.93	71	6.2.2	High-value exports		57
	Social Inclusion			6.2.3	Software development		60
2.2.1	Tolerance of minorities		103	6.2.4	New business density		63
2.2.2	Tolerance of immigrants		63	6.2.5	Scientific journal articles	.6.80	67
2.2.3	Social mobility		95				
2.2.4	Gender Equality Economic empowerment of women	7700	66				
2.2.4	Gender parity in high-skilled jobs		28				
2.2.6	Leadership opportunities for women		80				

# CONGO, DEM. REP.

Key Indicators	
Regional group	Low income Sub-Saharan Africa 99.01
GTCI 2023 Country Profile by Pillar	
Global Knowledge Skills	Table  100 90 80 77 70 60 50 Attract 40 30 100
Vocational and Technical Skills	Grow

Retain • Congo, Dem. Rep. • Income group average

	Score	Rank
1	ENABLE	133
1.1	Regulatory Landscape5.69	134
1.1.1	Government effectiveness	134
1.1.2	Rule of law	134
1.1.3	Political stability	128
1.1.4	Regulatory quality5.17	133
1.1.5	Corruption	130
1.2	Market Landscape	134
1.2.1	Extent of market dominance	130
1.2.2	Domestic credit to private sector	131
1.2.3	Cluster development	134
1.2.4	R&D expenditure	66
1.2.5	ICT infrastructure19.04	126
1.2.6	Urbanisation36.14	105
1.3	Business and Labour Landscape	120
1.3.1	Labour Market Labour rights	87
1.3.1	Labour rights	111
1.3.2	Management Practice	111
1.3.3	Professional management	118
1.3.4	Relationship of pay to productivity	125
1.3.5	Enterprise software	n/a
1.3.6	Cloud computing	n/a
1.3.7	Firms with website	110
2	ATTRACT	128
2.1	External Openness	120
2.1	Attract Business	120
2.1.1	FDI regulatory restrictiveness	n/a
2.1.1	Financial globalisation	113
2.1.2	Attract People	113
2.1.3	Migrant stock	101
2.1.4	International students	102
2.1.5	Brain gain	92
2.2	Internal Openness	126
2.2.1	Tolerance of minorities	128
2.2.1	Tolerance of immigrants	91
2.2.3	Social mobility	94

	score	
GTCI	score (income group average)	22.8
	Score	Ran
3	GROW	13
3.1	Formal Education	11
3.1.1	Vocational enrolment	4
3.1.2	Tertiary enrolment 3.74	11
J	Quality	
3.1.3	Tertiary education expenditure	10
3.1.4	Reading, maths, and science	n,
3.1.5	University ranking0.00	7
3.2	Lifelong Learning	12
3.2.1	Business masters education0.00	-
3.2.2	Prevalence of training in firms	8
3.2.3	Employee development	12
3.3	Access to Growth Opportunities	13
3.3.1	Empowerment Delegation of authority	12
3.3.2	Youth inclusion	10
).J.Z	Collaboration	10
3.3.3	Use of virtual social networks	13
3.3.4	Use of virtual professional networks	13
	RETAIN15.71	13
+.1	Sustainability	13
1.1.1	Pension coverage	10
1.1.2	Social protection	13
1.1.3	Brain retention	10
1.1.4	Environmental performance	8
1.1.5	Vulnerable employment	12
1.2	Lifestyle	13
1.2.1	Personal rights	1
1.2.2 1.2.3	Personal safety         13.71           Physician density         5.00	12
1.2.4	Sanitation	1.
5	VOCATIONAL AND TECHNICAL SKILLS23.14	13
5.1	Mid-Level Skills	11
5.1.1	Workforce with secondary education	1.
5.1.2	Population with secondary education	10
5.1.4	Technicians and associate professionals	1
5.2	Employability	12
5.2.1	Ease of finding skilled employees	12
5.2.2	Relevance of education system to the economy10.63	12
5.2.3	Skills matching	9
5.2.4	Highly educated unemployment	(
	GLOBAL KNOWLEDGE SKILLS	12
5.1	High-Level Skills	1
5.1.1	Workforce with tertiary education	1
5.1.2	Population with tertiary education10.35	7
5.1.3	Professionals	1
5.1.4	Researchers	10
5.1.5	Senior officials and managers	8
5.1.6 5.2	Digital skills	n
5.2.1	Talent Impact	12 n
5.2.2	High-value exports	1.
5.2.3	Software development	1.
5.2.4	New business density	12
5.2.5	Scientific journal articles	13

 2.2.4
 Economic empowerment of women.
 .69.91

 2.2.5
 Gender parity in high-skilled jobs.
 .36.31

# **COSTA RICA**

Rank	(out of 134)	<b>4</b>		GDP :	per capita (PPP US\$)	24,92	22.6
ncon	ne group	. Upper-middle inc	ome	GDP	(US\$ billions)	(	68.3
Regio	onal group <b>Latin Ame</b>	rica and the Caribb	ean	GTCI	score	!	50.2
opul	lation (millions)		5.18	GTCI	score (income group average)	4	43.5
GT	CI 2023 Country Profile by Pillar					Score	Rar
	- 11			3	GROW	18.56	3
	Enable			3.1	Formal Education.	41.06	4
	${f I}_{90}^{100}$				Enrolment		
	<b>+</b> 80			3.1.1	Vocational enrolment		-
	Global $I_{60}^{70}$	. Attract		3.1.2	Tertiary enrolment	.3/.64	
Kno	owledge Skills 40	Attract		3.1.3	Quality Tertiary education expenditure	79.83	
	30 220			3.1.4	Reading, maths, and science		
		/		3.1.5	University ranking		
				3.2	Lifelong Learning	47.06	
				3.2.1	Business masters education		
		***		3.2.2	Prevalence of training in firms		-
	ocational and	Grow		3.2.3 3.3	Employee development		
Te	echnical Skills	0.011		5.5	Empowerment	. 57.55	
	İ			3.3.1	Delegation of authority	.53.30	
	1			3.3.2	Youth inclusion		
	Retain				Collaboration		
	Costa Rica     Inco	me group average		3.3.3	Use of virtual social networks		
	Costa Rica	nic group average		3.3.4	Use of virtual professional networks	. 42.13	
		Score	Rank				_
	ENABLE	53.95	40	4	RETAIN		
	Regulatory Landscape	59.02	41	4.1 4.1.1	Sustainability		
	Government effectiveness		55	4.1.1	Social protection		
	Rule of law		43	4.1.3	Brain retention		
	Political stability		22 47	4.1.4	Environmental performance	46.44	
	Corruption		39	4.1.5	Vulnerable employment	.74.89	
	Market Landscape		48	4.2	Lifestyle		
	Extent of market dominance	45.89	54	4.2.1	Personal rights		
2	Domestic credit to private sector		61	4.2.2 4.2.3	Personal safetyPhysician density		
3	Cluster development		42	4.2.4	Sanitation		
4 5	R&D expenditure ICT infrastructure		68 49				
5	Urbanisation		36	5	VOCATIONAL AND TECHNICAL SKILLS	16 26	
	Business and Labour Landscape	51.92	37	5.1	Mid-Level Skills		
	Labour Market			5.1.1	Workforce with secondary education		
_	Labour rights		71	5.1.2	Population with secondary education	. 21.87	
2	Labour-employer cooperation	/0.69	19	5.1.3	Technicians and associate professionals		
3	Management Practice Professional management	60.74	42	5.1.4	Labour productivity per employee		
1	Relationship of pay to productivity		60	5.2 5.2.1	Employability		
	Technology Adoption			5.2.2	Relevance of education system to the economy		
5	Enterprise software		45	5.2.3	Skills matching		
6 7	Cloud computing Firms with website		41 n/a	5.2.4	Highly educated unemployment	.58.40	
				6	GLOBAL KNOWLEDGE SKILLS	23.92	
	ATTRACT		28	6.1	High-Level Skills		
	External Openness	53.13	49	6.1.1	Workforce with tertiary education		
	Attract Business FDI regulatory restrictiveness	92.70	19	6.1.2 6.1.3	Population with tertiary education Professionals		
)	Financial globalisation		68	6.1.4	Researchers		
	Attract People			6.1.5	Senior officials and managers		
	Migrant stock		44	6.1.6	Digital skills	n/a	
	International students		86	6.2	Talent Impact		
)	Brain gain		51	6.2.1	Innovation output		
	Internal Openness	/4.15	19	6.2.2 6.2.3	High-value exports		
1	Tolerance of minorities	74.47	22	6.2.4	New business density		
2	Tolerance of immigrants		27	6.2.5	Scientific journal articles		
3	Social mobility		34		•		
	Gender Equality						
1	Economic empowerment of women  Gender parity in high-skilled jobs		34 33				
5	GEORGE DAILLY ID DIGD-SKIIIAG IODS	8//1					

# **CÔTE D'IVOIRE**

Incor Regio	(out of 134)	ower-middle in Sub-Saharan A	Africa	GDP GTCI	per capita (PPP US\$)	. 70.02 . 28.67
GT	CI 2023 Country Profile by Pillar				Score	e Rank
	Enable			3	GROW25.65	
	<b>T</b> 100			3.1	Formal Education	
+80 +70 Global +60 Attract			3.1.1 3.1.2	Vocational enrolment		
Kno	owledge Skills	XXX		3.1.3	Tertiary education expenditure	
	20			3.1.4	Reading, maths, and science	
	110			3.1.5	University ranking	
				3.2 3.2.1	Lifelong Learning	
				3.2.2	Prevalence of training in firms	
**	ocational and	**.		3.2.3	Employee development	
	ochnical Skills	Grow		3.3	Access to Growth Opportunities	5 110
	Į			3.3.1	Delegation of authority	101
	1			3.3.2	Youth inclusion	3 81
	Retain			2.2.2	Collaboration	
	Côte d'Ivoire Income g	group average		3.3.3 3.3.4	Use of virtual social networks	
		Score	Rank	3.3.4	Use of virtual professional networks	3 100
				4	RETAIN27.69	117
1	ENABLE		100	4.1	Sustainability	
1.1	Regulatory Landscape		103	4.1.1	Pension coverage	
1.1.1 1.1.2	Rule of law		99 104	4.1.2	Social protection31.70	100
1.1.3	Political stability		114	4.1.3	Brain retention	1 88
1.1.4	Regulatory quality		85	4.1.4	Environmental performance	
1.1.5	Corruption		79	4.1.5	Vulnerable employment	
1.2	Market Landscape	35.54	93	4.2	Lifestyle	
1.2.1	Extent of market dominance		71	4.2.1 4.2.2	Personal rights         61.00           Personal safety         38.20	
1.2.2	Domestic credit to private sector		111	4.2.3	Physician density	
1.2.3 1.2.4	Cluster development		71 107	4.2.4	Sanitation	
1.2.4	R&D expenditure ICT infrastructure		70			
1.2.6	Urbanisation		96	5	VOCATIONAL AND TECHNICAL SKILLS 26.94	1 120
1.3	Business and Labour Landscape		93	<b>5</b> .1	Mid-Level Skills	
	Labour Market			5.1.1	Workforce with secondary education	
1.3.1	Labour rights		35	5.1.2	Population with secondary education/	
1.3.2	Labour-employer cooperation	44.81	69	5.1.3	Technicians and associate professionals	1 109
1 2 2	Management Practice	41.40	0.3	5.1.4	Labour productivity per employee	
1.3.3 1.3.4	Professional management		83 61	5.2	Employability46.18	
1.5.7	Technology Adoption		01	5.2.1 5.2.2	Ease of finding skilled employees	
1.3.5	Enterprise software	13.74	103	5.2.3	Skills matching	
1.3.6 1.3.7	Cloud computing	9.66	100 109	5.2.4	Highly educated unemployment	
				6	GLOBAL KNOWLEDGE SKILLS8.97	7 116
2	ATTRACT	47.75	80	6.1	High-Level Skills	
2.1	External Openness	46.02	67	6.1.1	Workforce with tertiary education	
211	Attract Business		,	6.1.2	Population with tertiary education	a n/a
2.1.1	FDI regulatory restrictiveness		n/a	6.1.3	Professionals	
2.1.2	Financial globalisation	46.29	95	6.1.4 6.1.5	Researchers	
2.1.3	Migrant stock	6769	23	6.1.5	Digital skills	
2.1.4	International students.		73	6.2	Talent Impact. 12.94	
2.1.5	Brain gain		30	6.2.1	Innovation output	
2.2	Internal Openness	49.47	90	6.2.2	High-value exports	
	Social Inclusion			6.2.3	Software development	
2.2.1	Tolerance of minorities		92	6.2.4	New business density	
2.2.2 2.2.3	Tolerance of immigrants		29 52	6.2.5	Scientific journal articles	) 121
	Gender Equality					

25 123

Gender Equality

 2.2.4
 Economic empowerment of women.
 .92.92

 2.2.5
 Gender parity in high-skilled jobs.
 .13.05

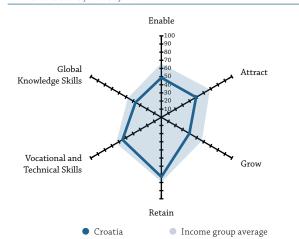
 2.2.6
 Leadership opportunities for women.
 .35.17

### **CROATIA**

Key Indicators

<b>45</b>
High income
Europe
3.85

GTCI 2023 Country Profile by Pillar



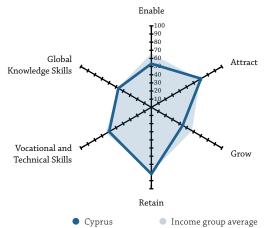
	Score	Rank
1	ENABLE	56
1.1	Regulatory Landscape58.17	45
1.1.1	Government effectiveness	43
1.1.2	Rule of law	50
1.1.3	Political stability79.58	32
1.1.4	Regulatory quality55.13	45
1.1.5	Corruption	46
1.2	Market Landscape	62
1.2.1	Extent of market dominance	103
1.2.2	Domestic credit to private sector	1
1.2.3	Cluster development	128
1.2.4	R&D expenditure	33
1.2.5	ICT infrastructure	63
1.2.6	Urbanisation50.50	83
1.3	Business and Labour Landscape	75
	Labour Market	
1.3.1	Labour rights	52
1.3.2	Labour-employer cooperation	125
1.5.2	Management Practice	123
1.3.3	Professional management	109
1.3.4	Relationship of pay to productivity	113
1.5.4	Technology Adoption	113
1.3.5	Enterprise software	39
1.3.5	·	39 44
1.3.7	Cloud computing	41
1.3./	FIIIIS WITH WEDSITE	41
2	ATTRACT49.19	74
2.1	External Openness	61
	Attract Business	0.
2.1.1	FDI regulatory restrictiveness	22
2.1.2	Financial globalisation	56
2.1.2	Attract People	50
2.1.3	Migrant stock	30
2.1.4	International students	67
2.1.5	Brain gain9.60	127
2.2	Internal Openness	87
2.2	Social Inclusion	07
2.2.1	Tolerance of minorities	50
2.2.1	Tolerance of immigrants	124
2.2.2	Social mobility	1124
۷.۷.۷	Gender Equality	112
2.2.4	Economic empowerment of women	29
2.2.4	Gender parity in high-skilled jobs	30
2.2.5	Leadership opportunities for women	129
2.2.0	Leadership opportunities for women	129

	score (income group average)	50.3
GICI	score (income group average)	01.
	Score	Ra
3	GROW39.69	
3.1	Formal Education	
3.1.1	Vocational enrolment	
3.1.2	Tertiary enrolment	
,.ı. <u>z</u>	Quality	
3.1.3	Tertiary education expenditure	1
3.1.4	Reading, maths, and science56.24	
3.1.5	University ranking10.13	
3.2	Lifelong Learning	
3.2.1	Business masters education	
3.2.2	Prevalence of training in firms	
3.2.3 3.3	Employee development	1
5.5	Empowerment Source Empowerment	
3.3.1	Delegation of authority	1
3.3.2	Youth inclusion	
	Collaboration	
3.3.3	Use of virtual social networks	
3.3.4	Use of virtual professional networks	
1	RETAIN	
4.1	Sustainability	
4.1.1	Pension coverage	
4.1.2	Social protection	
4.1.3	Brain retention	1
4.1.4	Environmental performance	
4.1.5	Vulnerable employment	
4.2 4.2.1	Lifestyle	
4.2.1 4.2.2	Personal rights         88.76           Personal safety         87.85	
4.2.3	Physician density	
4.2.4	Sanitation	
5	VOCATIONAL AND TECHNICAL SKILLS55.09	
5.1	Mid-Level Skills	
5.1.1	Workforce with secondary education	
5.1.2	Population with secondary educationn/a	1
5.1.3	Technicians and associate professionals55.19	
5.1.4	Labour productivity per employee45.84	
5.2	Employability49.59	
5.2.1	Ease of finding skilled employees	1
5.2.2 5.2.3	Relevance of education system to the economy	
5.2.4	Skills matching	
J.Z. 1	riigiliy caacacca arempoyment	
5	GLOBAL KNOWLEDGE SKILLS	
5.1 5.1.1	High-Level Skills	
5.1.2	Population with tertiary education	ı
5.1.3	Professionals	
5.1.4	Researchers	
5.1.5	Senior officials and managers	
5.1.6	Digital skills25.31	
5.2	Talent Impact	
5.2.1	Innovation output	
5.2.2	High-value exports. 17.15	
5.2.3 5.2.4	Software development	
	New business density24.36 Scientific journal articles44.38	
5.2.5		

#### **CYPRUS**

Key Indicators

Rank (out of 134)
Income group
Regional groupNorthern Africa and Western Asia
Population (millions)
GTCI 2023 Country Profile by Pillar



	Score	Rank
1	ENABLE53.51	41
1.1	Regulatory Landscape	39
1.1.1	Government effectiveness	38
1.1.2	Rule of law	38
1.1.3	Political stability	47
1.1.4	Regulatory quality	34
1.1.5	Corruption	41
1.2	Market Landscape	53
1.2.1	Extent of market dominance	42
1.2.2	Domestic credit to private sector	30
1.2.3	Cluster development	50
1.2.4	R&D expenditure	45
1.2.5	ICT infrastructure	77
1.2.6	Urbanisation	63
1.3	Business and Labour Landscape	48
	Labour Market	
1.3.1	Labour rights	1
1.3.2	Labour-employer cooperation	47
1.3.2	Management Practice	77
1.3.3	Professional management	105
1.3.4	Relationship of pay to productivity	51
1.5.4		31
1 2 5	Technology Adoption	105
1.3.5	Enterprise software	105
1.3.6 1.3.7	Cloud computing	84
1.3./	Firms with website	31
2	ATTRACT	21
2.1	External Openness	8
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation97.09	6
	Attract People	
2.1.3	Migrant stock	29
2.1.4	International students. 100.00	1
2.1.5	Brain gain	54
2.7	Internal Openness	40
2.2	Social Inclusion	40
2.2.1	Tolerance of minorities	54
2.2.2	Tolerance of immigrants	82
2.2.3	Social mobility	63
	Gender Equality	
2.2.4	Economic empowerment of women92.04	27
2.2.5	Gender parity in high-skilled jobs	27
2.2.5	Leadership opportunities for woman 45.40	77

	score (income group average)	
0101	Score	
3	GROW. 44.35	
3.1	Formal Education	5
3.1.1 3.1.2	Vocational enrolment 12.67 Tertiary enrolment 61.23	
	Quality	
.1.3	Tertiary education expenditure	
.1.5	University ranking	
.2	Lifelong Learning35.08	
.2.1	Business masters education	
.2.2	Prevalence of training in firms	
1.2.3	Employee development	
2.1	Empowerment	,
.3.1 .3.2	Delegation of authority	
3.3.3	Use of virtual social networks	
.3.4	Use of virtual professional networks	
ļ	RETAIN81.87	1
.1	Sustainability	
.1.1	Pension coverage	4
.1.2	Social protection	
.1.3	Brain retention	
.1.4	Environmental performance	
.1.3	Lifestyle	
.2.1	Personal rights	
.2.2	Personal safety	
.2.3	Physician density. 85.12 Sanitation . 99.34	
	VOCATIONAL AND TECHNICAL SKILLS 59.84	
i.1 i.1.1	Mid-Level Skills	
.1.1	Workforce with secondary education	
.1.3	Technicians and associate professionals	
.1.4	Labour productivity per employee	
.2	Employability68.18	
.2.1	Ease of finding skilled employees	
.2.2	Relevance of education system to the economy50.38	
.2.3	Skills matching	(
<u> </u>	GLOBAL KNOWLEDGE SKILLS	
5.1	High-Level Skills	
.1.1	Workforce with tertiary education	
.1.2	Population with tertiary education	
.1.3	Professionals	
.1.4	Researchers	
.1.5	Senior officials and managers	
5.2	Talent Impact	
5.2.1	Innovation output	
.2.2	High-value exports	
.2.3	Software development	
.2.4	New business density	
.2.5	Scientific journal articles	

### **CZECH REPUBLIC**

 2.2.4
 Economic empowerment of women.
 91.15

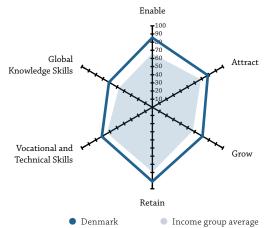
 2.2.5
 Gender parity in high-skilled jobs.
 .78.76

Rank	(out of 134)	<b>23</b>	GDP	per capita (PPP US\$)	945.5
	ne group High	income		(US\$ billions)	
Regio	onal group	Europe	GTC:	score	. <b>62.4</b>
	lation (millions)		GTC!	score (income group average)	. <b>61.9</b>
GT	CI 2023 Country Profile by Pillar			Scoi	e Ranl
	Enable		3	GROW 53.8	0 26
	100 190		3.1	Formal Education	2 2
	<b>+</b> 80		3.1.1	Vocational enrolment	
	Global Attract		3.1.2	Tertiary enrolment	9 44
Kno	owledge Skills		3.1.3	Tertiary education expenditure	9 23
	30		3.1.4	Reading, maths, and science	
	20		3.1.5	University ranking	
			3.2	Lifelong Learning42.8	
	James I And I		3.2.1	Business masters education	4 5
			3.2.2	Prevalence of training in firms52.7	2 2
V	ocational and		3.2.3	Employee development	7 4
	chnical Skills Grow		3.3	Access to Growth Opportunities	7 2
	<b>Y</b>		3.3.1	Empowerment Delegation of authority	7 2
	Ĭ		3.3.2	Youth inclusion	
	Retain		۷.۷.۷	Collaboration	_ '
			3.3.3	Use of virtual social networks	8 4
	Czech Republic     Income group average		3.3.4	Use of virtual professional networks	1 4
	Scot	e Rank			
	ENABLE	7 25	4	RETAIN80.7	4 2
1	Regulatory Landscape		4.1	Sustainability	
1.1	Government effectiveness		4.1.1	Pension coverage	
1.2	Rule of law	3 24	4.1.2	Social protection	
1.3	Political stability86.0	7 15	4.1.3	Brain retention	
1.4	Regulatory quality77.1	0 20	4.1.4	Environmental performance	
1.5	Corruption53.4	2 34	4.1.5 4.2	Vulnerable employment	
2	Market Landscape		4.2.1	Personal rights	
2.1	Extent of market dominance		4.2.2	Personal safety	
2.2	Domestic credit to private sector		4.2.3	Physician density	
2.3	Cluster development		4.2.4	Sanitation	
2.4 2.5	R&D expenditure				
2.5 2.6	Urbanisation				_
3	Business and Labour Landscape		5	VOCATIONAL AND TECHNICAL SKILLS69.7	
,	Labour Market	, 22	5.1	Mid-Level Skills	-
3.1	Labour rights	9 14	5.1.1 5.1.2	Population with secondary education	
3.2	Labour-employer cooperation		5.1.2	Technicians and associate professionals	
	Management Practice		5.1.4	Labour productivity per employee	
3.3	Professional management	5 22	5.2	Employability	
3.4	Relationship of pay to productivity59.1	6 49	5.2.1	Ease of finding skilled employees	9 12
	Technology Adoption		5.2.2	Relevance of education system to the economy56.8	7 4
3.5	Enterprise software		5.2.3	Skills matching	3
3.6 3.7	Cloud computing		5.2.4	Highly educated unemployment92.4	2 1
				CLODAL KNOWLEDGE CKULG	4 ^
	ATTRACT	5 27	<b>6</b> 6.1	GLOBAL KNOWLEDGE SKILLS	
1	External Openness		6.1.1	Workforce with tertiary education	
	Attract Business		6.1.2	Population with tertiary education	
.1	FDI regulatory restrictiveness	8 4	6.1.3	Professionals	
.2	Financial globalisation75.0	5 39	6.1.4	Researchers	
	Attract People		6.1.5	Senior officials and managers	
.3	Migrant stock41.7		6.1.6	Digital skills	
.4	International students		6.2	Talent Impact51.5	
.5	Brain gain		6.2.1	Innovation output	
2	Internal Openness	5 30	6.2.2 6.2.3	High-value exports	
2.1	Tolerance of minorities	5 44	6.2.4	Software development         .88.0           New business density         .20.7	
2.1 2.2	Tolerance of immigrants		6.2.5	Scientific journal articles	
2.3	Social mobility				
	Gender Equality				

#### **DENMARK**

Key Indicators

Rank (out of 134)
Income group High income
Regional group
Population (millions)
GTCI 2023 Country Profile by Pillar
Enable



Score Rank

.1       Regulatory Landscape.       .92.90         .1.1       Government effectiveness       .92.83         .1.2       Rule of law       .96.77         .1.3       Political stability       .85.87         .1.4       Regulatory quality       .89.04         .1.5       Corruption       .100.00	3
1.2       Rule of law       .96.77         .1.3       Political stability       .85.87         .1.4       Regulatory quality       .89.04	
.1.3       Political stability.       .85.87         .1.4       Regulatory quality.       .89.04	3
.1.4 Regulatory quality	3
	17
.1.5 Corruption	5
	1
.2 Market Landscape	6
.2.1 Extent of market dominance	3
.2.2 Domestic credit to private sector	8
.2.3 Cluster development	24
.2.4 R&D expenditure	10
.2.5 ICT infrastructure	34
.2.6 Urbanisation	16
.3 Business and Labour Landscape	3
Labour Market	
.3.1 Labour rights	17
3.2 Labour-employer cooperation	2
Management Practice	-
.3.3 Professional management	3
3.4 Relationship of pay to productivity	10
Technology Adoption	10
.3.5 Enterprise software	9
3.6 Cloud computing	5
.3.7 Firms with website	2
J./ Timis with website	2
ATTRACT	7
.1 External Openness	20
Attract Business	
	21
.1.1 FDI regulatory restrictiveness	
1.1     FDI regulatory restrictiveness     .92.16       1.2     Financial globalisation     .88.48	16
9 ,	16
.1.2 Financial globalisation	16 41
.1.2 Financial globalisation	
1.1.2 Financial globalisation       .88.48         Attract People       .1.3 Migrant stock       .59.46	41
1.1.2       Financial globalisation       .88.48         Attract People       .1.3         1.1.4       International students       .37.41         1.1.5       Brain gain       .65.52	41 27
1.1.2       Financial globalisation       .88.48         Attract People	41 27 23
1.1.2       Financial globalisation       .88.48         Attract People	41 27 23 3
1.1.2       Financial globalisation       .88.48         Attract People       .59.46         1.1.3       Migrant stock       .59.46         1.4       International students       .3741         1.5       Brain gain       .65.52         .2       Internal Openness       .88.53         Social Inclusion         .2.1       Tolerance of minorities       .67.02	41 27 23
1.1.2       Financial globalisation       .88.48         Attract People       .59.46         1.1.3       Migrant stock       .59.46         1.1.4       International students       .37.41         1.1.5       Brain gain       .65.52         1.2       Internal Openness       .88.53         Social Inclusion       .2.1         1.2.1       Tolerance of minorities       .67.02         2.2.2       Tolerance of immigrants       .84.62	41 27 23 3 32 16
1.1.2       Financial globalisation       .88.48         Attract People       .59.46         1.1.3       Migrant stock       .59.46         1.4       International students       .3741         1.5       Brain gain       .65.52         .2       Internal Openness       .88.53         Social Inclusion         .2.1       Tolerance of minorities       .67.02	41 27 23 3
1.1.2       Financial globalisation       .88.48         Attract People       .59.46         1.1.3       Migrant stock       .59.46         1.1.4       International students       .37.41         1.1.5       Brain gain       .65.52         1.2       Internal Openness       .88.53         Social Inclusion         2.1       Tolerance of minorities       .67.02         2.2.2       Tolerance of immigrants       .84.62         2.2.3       Social mobility       .98.33	41 27 23 3 32 16
1.1.2       Financial globalisation       .88.48         Attract People       .59.46         1.1.3       Migrant stock       .59.46         1.1.4       International students       .37.41         1.1.5       Brain gain       .65.52         1.2       Internal Openness       .88.53         Social Inclusion       .21         1.2       Tolerance of minorities       .67.02         2.2.2       Tolerance of immigrants       .84.62         2.2.3       Social mobility       .98.33         Gender Equality	41 27 23 3 32 16 2

	(US\$ billions)	
	score (income group average)	
	Score	Ran
3	GROW71.09	
3.1	Formal Education	1
3.1.1	Vocational enrolment	3
3.1.2	Tertiary enrolment	1
3.1.3	Tertiary education expenditure	
3.1.4	Reading, maths, and science	1
3.1.5	University ranking57.65	1
3.2	Lifelong Learning67.21	1
3.2.1	Business masters education	1
3.2.2	Prevalence of training in firms	3
3.2.3 3.3	Employee development	
	Empowerment	
3.3.1	Delegation of authority	
3.3.2	Youth inclusion	
3.3.3	Collaboration Use of virtual social networks	
3.3.4	Use of virtual professional networks	
J.J.¬	osc of virtual professional fletworks	
1	RETAIN91.02	
1.1	Sustainability	
1.1.1	Pension coverage	
1.1.2	Social protection93.79	
1.1.3	Brain retention71.40	
1.1.4	Environmental performance	
1.1.5	Vulnerable employment	
1.2 1.2.1	Lifestyle	
+.2.1 4.2.2	Personal rights	
1.2.3	Physician density	
1.2.4	Sanitation	:
5	VOCATIONAL AND TECHNICAL SKILLS71.64	
5.1	Mid-Level Skills	
5.1.1	Workforce with secondary education	
5.1.2	Population with secondary education58.83	2
5.1.3	Technicians and associate professionals	
5.1.4	Labour productivity per employee	
5.2	Employability79.75	
5.2.1	Ease of finding skilled employees	
5.2.2	Relevance of education system to the economy	
5.2.4	Highly educated unemployment	3
5	GLOBAL KNOWLEDGE SKILLS	
<b>5</b> .1	High-Level Skills	
5.1.1	Workforce with tertiary education	
5.1.2	Population with tertiary education	
5.1.3	Professionals	
5.1.4	Researchers	
5.1.5	Senior officials and managers	8
5.1.6	Digital skills	
5.2	Talent Impact	
5.2.1	Innovation output	3
5.2.3	High-value exports.24.60Software development87.03	
5.2.4	New business density	
5.2.5	Scientific journal articles	

### **DOMINICAN REPUBLIC**

	bbean	GDP GTCI	per capita (PPP US\$)       22,8         (US\$ billions)       1         score          score (income group average)	13.64 37.51
ar			Score	Rank
Enable		3	GROW	97
<b>∓</b> 100		3.1	Formal Education	114
90		3.1.1	Vocational enrolment	61
<b>1</b> 80		3.1.2	Tertiary enrolment	52
•60 Attract		5.1.2	Quality	32
50 Attract		3.1.3	Tertiary education expenditure	n/a
30		3.1.4	Reading, maths, and science	78
20		3.1.5	University ranking	76
/*/		3.2	Lifelong Learning	99
K ! X		3.2.1	Business masters education0.00	57
		3.2.2	Prevalence of training in firms25.90	70
		3.2.3	Employee development54.57	62
Grow		3.3	Access to Growth Opportunities	83
İ			Empowerment	
+		3.3.1	Delegation of authority	98
•		3.3.2	Youth inclusion40.91	96
Retain			Collaboration	
blic Income group average		3.3.3	Use of virtual social networks	71
blic Income group average		3.3.4	Use of virtual professional networks	65
Score	Rank			
	64	4	RETAIN45.42	91
	66	4.1	Sustainability	104
s	67	4.1.1	Pension coverage6.36	121
	69	4.1.2	Social protection21.39	117
	57	4.1.3	Brain retention	81
	66	4.1.4	Environmental performance	66
	102	4.1.5	Vulnerable employment	85
	59	4.2	Lifestyle	73
nce22.10	105	4.2.1	Personal rights	46
e sector	100	4.2.2	Personal safety	96
	58	4.2.3	Physician density	83
n/a	n/a	4.2.4	Sanitation	81
56.43	80			
	31	5	VOCATIONAL AND TECHNICAL SKILLS38.72	92
dscape	77	5.1	Mid-Level Skills	86
00.54	50	5.1.1	Workforce with secondary education	61
	58	5.1.2	Population with secondary education	74
ation56.60	44	5.1.3	Technicians and associate professionals	81
	90	5.1.4	Labour productivity per employee	66
ductivity	74	5.2 5.2.1	Employability	92 82
340000		5.2.1	Ease of finding skilled employees	123
13.54	104	5.2.3	Skills matching	50
10.92	91	5.2.4	Highly educated unemployment	87
37.55	81			
		6	GLOBAL KNOWLEDGE SKILLS20.13	88
50.00	67	6.1	High-Level Skills	78
39.32	84	6.1.1	Workforce with tertiary education16.30	93
		6.1.2	Population with tertiary education28.14	52
essn/a	n/a	6.1.3	Professionals	81
	93	6.1.4	Researchers	n/a
4715		6.1.5	Senior officials and managers	95
47.15	54	6.1.6	Digital skills	30
	80 43	6.2	Talent Impact 19.30	90
60.67	45	6.2.1 6.2.2	Innovation output	91 56
	+0			56 79
54.26	50		·	79
				122
	88	-12.0	.,	
of ed			62.3 66.23 66.24 67.69 88 62.5 88.05 88  women 80.53 69.58 74	6.2.3 Software development

## **ECUADOR**

Key Indicators		
Rank (out of 134) Income group Regional group Population (millions)	Latin Ame	. Upper-middle income rica and the Caribbean
GTCI 2023 Country Profile by I	Pillar	
Global Knowledge Skills	Enable  100 90 80 70 60 50 40 30 20	Attract
Vocational and Technical Skills		Grow

Retain

Income group average

Ecuador

	Score	Rank
1	ENABLE	96
1.1	Regulatory Landscape35.61	86
1.1.1	Government effectiveness	85
1.1.2	Rule of law	83
1.1.3	Political stability54.25	79
1.1.4	Regulatory quality23.86	111
1.1.5	Corruption	81
1.2	Market Landscape	96
1.2.1	Extent of market dominance	114
1.2.2	Domestic credit to private sector	62
1.2.3	Cluster development	115
1.2.4	R&D expenditure8.09	64
1.2.5	ICT infrastructure51.48	88
1.2.6	Urbanisation	68
1.3	Business and Labour Landscape	95
	Labour Market	
1.3.1	Labour rights41.02	93
1.3.2	Labour-employer cooperation	80
	Management Practice	
1.3.3	Professional management	113
1.3.4	Relationship of pay to productivity	114
	Technology Adoption	
1.3.5	Enterprise software	58
1.3.6	Cloud computing	73
1.3.7	Firms with website	22
2	ATTRACT43.10	95
2.1	External Openness	116
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation	106
	Attract People	
2.1.3	Migrant stock	78
2.1.4	International students	89
2.1.5	Brain gain	101
2.2	Internal Openness	53
	Social Inclusion	
2.2.1	Tolerance of minorities	71
2.2.2	Tolerance of immigrants	66
2.2.3	Social mobility	109
	Gender Equality	
2.2.4	Economic empowerment of women	41
2.2.5	Gender parity in high-skilled jobs	14
2.2.6	Leadership opportunities for women	87
	, ,,	

	(US\$ billions)	
	score (income group average)	
3101		
	Score	Ra
<b>3</b> .1	GROW	-
5.1	Formal Education	
3.1.1	Enrolment 22.33	
3.1.2	Vocational enrolment	
).I.Z	Quality S4.24	,
3.1.3	Tertiary education expenditure	
3.1.4	Reading, maths, and science	r
3.1.5	University ranking	- 1
3.2	Lifelong Learning	
3.2.1	Business masters education	
3.2.2	Prevalence of training in firms	
3.2.3	Employee development	1
3.3	Access to Growth Opportunities	
,	Empowerment	
3.3.1	Delegation of authority	1
3.3.2	Youth inclusion	
,.J.Z	Collaboration	
3.3.3	Use of virtual social networks	
3.3.4	Use of virtual professional networks	
	ose of virtual professional fections	
	RETAIN54.66	
.1	Sustainability	
.1.1	Pension coverage	
1.1.2	Social protection	1
1.1.3	Brain retention	
.1.4	Environmental performance	
.1.5	Vulnerable employment	1
1.2	Lifestyle	
1.2.1	Personal rights	
1.2.2	Personal safety44.10	1
1.2.3	Physician density34.88	
.2.4	Sanitation	
;	VOCATIONAL AND TECHNICAL SKILLS	
i.1		
i.1.1	Mid-Level Skills	
.1.1	Workforce with secondary education	r
.1.3	Population with secondary education	- 1
.1.3	Labour productivity per employee	
i.1. <del>4</del>		
.2.1	Employability	
.2.2	Relevance of education system to the economy24.58	1
.2.3	Skills matching	'
.2.4	Highly educated unemployment	
	GLOBAL KNOWLEDGE SKILLS17.27	
5.1	High-Level Skills	1
.1.1	Workforce with tertiary education	
1.2	Population with tertiary education	r
1.3	Professionals	
.1.4 .1.5	Researchers	1
i.1.5	Digital skills	
i.1.6 i.2		
5.2.1	Talent Impact	
5.2.2	High-value exports	
5.2.3	Software development	
1.2.3	New business density	r
.2.5	Scientific journal articles	ı

### **EGYPT**

Rank	(out of 134)	٤	38	GDP :	per capita (PPP US\$)	5,09	90.9
	ne group		come		(US\$ billions)		
	nal group				score		
-	ation (millions)				score (income group average)		
	CI 2023 Country Profile by Pillar					core	Rank
011	cr 2023 Country Frome By Final			-			
	Enable			<b>3</b> 3.1	GROW		<b>75</b>
	<b>T</b> <sup>100</sup>			5.1	Enrolment	1.12	,
	<b>+</b> 90 80			3.1.1	Vocational enrolment	3.95	3
	70			3.1.2	Tertiary enrolment		7
Vno	Global 60 50 wledge Skills	→ Attract			Quality		
Knc	wiedge Skills	A PARTY AND A PART		3.1.3	Tertiary education expenditure		n/
	20			3.1.4 3.1.5	Reading, maths, and science		n,
				3.1.3	University ranking		5
				3.2.1	Business masters education		2
		*		3.2.2	Prevalence of training in firms		g
V	ocational and	***		3.2.3	Employee development	5.69	4
	chnical Skills	Grow		3.3	Access to Growth Opportunities	4.62	9
	Į.			221	Empowerment	1.40	_
	İ			3.3.1 3.3.2	Delegation of authority		10
	Retain			۷.۵.۷	Collaboration	/.4/	10
	ictani			3.3.3	Use of virtual social networks	7.65	9
	<ul><li>Egypt</li><li>Income</li></ul>	e group average		3.3.4	Use of virtual professional networks	1.89	8
		Score	Rank				
				4	RETAIN44	.70	9
1	ENABLE		<b>82</b>	4.1	Sustainability		8
.1	Regulatory Landscape		105 96	4.1.1	Pension coverage	7.37	
.2	Rule of law		76	4.1.2	Social protection		
.3	Political stability		117	4.1.3	Brain retention		1
.4	Regulatory quality		98	4.1.4 4.1.5	Environmental performance		
1.5	Corruption		108	4.1.3	Lifestyle		10
2	Market Landscape		47	4.2.1	Personal rights		1
2.1 2.2	Extent of market dominance  Domestic credit to private sector		32 95	4.2.2	Personal safety		9
2.2	Cluster development		93 7	4.2.3	Physician density1	0.55	9
2.4	R&D expenditure.		41	4.2.4	Sanitation9	7.06	5
2.5	ICT infrastructure	74.44	45				
2.6	Urbanisation		107	5	VOCATIONAL AND TECHNICAL SKILLS 52	.35	5
3	Business and Labour Landscape	35.46	106	5.1	Mid-Level Skills		4
3.1	Labour Market Labour rights	0.00	101	5.1.1	Workforce with secondary education		2
3.2	Labour rights		101 21	5.1.2 5.1.3	Population with secondary education		
J.2	Management Practice		2.1	5.1.3	Technicians and associate professionals		2
3.3	Professional management	55.54	53	5.1.4	Employability54		
3.4	Relationship of pay to productivity	69.11	29	5.2.1	Ease of finding skilled employees		3
	Technology Adoption			5.2.2	Relevance of education system to the economy		6
.3.5	Enterprise software		123	5.2.3	Skills matching		8
3.6 3.7	Cloud computing		103 79	5.2.4	Highly educated unemployment	5./3	ç
				6	GLOBAL KNOWLEDGE SKILLS19		9
1	ATTRACT		110	6.1	High-Level Skills		6
1	External Openness	33.9/	97	6.1.1	Workforce with tertiary education		
1.1	FDI regulatory restrictiveness	69.46	54	6.1.2 6.1.3	Population with tertiary education		
1.2	Financial globalisation		116	6.1.4	Researchers		
	Attract People			6.1.5	Senior officials and managers		
.3	Migrant stock		121	6.1.6	Digital skills40		
1.4	International students		90	6.2	Talent Impact		1
1.5 2	Brain gain		49 110	6.2.1	Innovation output		
_	Internal Openness	41.15	118	6.2.2 6.2.3	High-value exports		
2.1	Tolerance of minorities	18.09	106	6.2.4	New business density		1
2.2	Tolerance of immigrants		95	6.2.5	Scientific journal articles		
2.3	Social mobility		54				
	Gender Equality						
	Economic empowerment of women	30.09	125				
2.4 2.5	Gender parity in high-skilled jobs		113				

### **EL SALVADOR**

Key Indicators

Incon Regio	(out of 134) ne group	Upper-middle in America and the Carib	bean	GDP GTCI	per capita (PPP US\$)(US\$ billions)		32.49 32.74
GT	CI 2023 Country Profile by Pillar					Score	Rank
	Enable			3	GROW	31.49	82
				3.1	Formal Education.	18.88	96
	<b>1</b> 90				Enrolment		
	180			3.1.1	Vocational enrolment		50
	Global	Attract		3.1.2	Tertiary enrolment	19.07	86
Kno	wledge Skills 40	A THERE		3.1.3	Tertiary education expenditure	31.58	102
	200	A PART OF THE PROPERTY OF THE PART OF THE		3.1.4	Reading, maths, and science		n/a
	10	7		3.1.5	University ranking	0.00	76
				3.2	Lifelong Learning		57
				3.2.1	Business masters education		5
		The state of the s		3.2.2 3.2.3	Prevalence of training in firms		16 100
	ocational and	Grow		3.2.3	Employee development		80
Te	chnical Skills	a.o.,		3.3	Empowerment		00
	İ			3.3.1	Delegation of authority	31.08	104
	I			3.3.2	Youth inclusion		85
	Retain				Collaboration		
	El Salvador	Income group average		3.3.3	Use of virtual social networks		7:
	El Salvadol	income group average		3.3.4	Use of virtual professional networks	18.01	7
		Score	Rank				
	ENABLE	32.59	109	4	RETAIN		9
	Regulatory Landscape		92	4.1	Sustainability		10
.1	Government effectiveness		89	4.1.1	Pension coverage		9
.2	Rule of law	22.76	112	4.1.2 4.1.3	Social protection		12 12
.3	Political stability		74	4.1.4	Environmental performance		7
.4	Regulatory quality		90	4.1.5	Vulnerable employment		7
1.5 2	Corruption		95 100	4.2	Lifestyle		7
2.1	Market Landscape		127	4.2.1	Personal rights	55.40	9
1.2	Domestic credit to private sector		50	4.2.2	Personal safety		9.
2.3	Cluster development		125	4.2.3	Physician density		5
2.4	R&D expenditure		95	4.2.4	Sanitation	80./3	90
2.5	ICT infrastructure		90				
2.6	Urbanisation		50	5	VOCATIONAL AND TECHNICAL SKILLS		82
3	Business and Labour Landscape Labour Market	30.46	119	5.1	Mid-Level Skills		66
3.1	Labour rights	40.75	94	5.1.1	Workforce with secondary education		6
3.2	Labour-employer cooperation		89	5.1.2 5.1.3	Population with secondary education  Technicians and associate professionals		56 67
	Management Practice			5.1.4	Labour productivity per employee		n/
3.3	Professional management	32.68	108	5.2	Employability		10
3.4	Relationship of pay to productivity	35.86	119	5.2.1	Ease of finding skilled employees	34.67	108
2 5	Technology Adoption	1776	O.F.	5.2.2	Relevance of education system to the economy		124
.3.5 .3.6	Enterprise software  Cloud computing		85 96	5.2.3 5.2.4	Skills matching		70 59
.3.7	Firms with website		78	5.2.4	nigniy educated unemployment	/0.0/	25
	ATTRACT	35 20	118	6	GLOBAL KNOWLEDGE SKILLS		104
1	External Openness		124	6.1 6.1.1	High-Level Skills		11 10
	Attract Business			6.1.2	Population with tertiary education		7
1.1	FDI regulatory restrictiveness		n/a	6.1.3	Professionals		9
1.2	Financial globalisation	53.61	86	6.1.4	Researchers		9
2	Attract People	40.77	11.4	6.1.5	Senior officials and managers		10
l.3 l.4	Migrant stock		114 104	6.1.6	Digital skills		n/
1.4	Brain gain		112	6.2 6.2.1	Talent Impact		9.
2	Internal Openness		102	6.2.1	High-value exports		6
	Social Inclusion			6.2.3	Software development		8
2.1	Tolerance of minorities		63	6.2.4	New business density		10
2.2	Tolerance of immigrants		51	6.2.5	Scientific journal articles	0.07	13
2.3	Social mobility Gender Equality	15.63	127				
.4	Economic empowerment of women.		43				
.5	Gender parity in high-skilled jobs		101				
2.6	Leadership opportunities for women	24.86	119				

#### **ESTONIA**

2.1.4

2.1.5

Social Inclusion

Gender Equality

2.2

2.2.1

2.2.2

2.2.3

2.2.4

2.2.5

2.2.6

International students.......45.05

Tolerance of minorities.......27.66

Economic empowerment of women......96.46

Leadership opportunities for women .......82.77

	ne group	_			(US\$ billions)		
Regio	onal group	Eu	urope	GTCI	score	(	64.29
Popu	lation (millions)		1.34	GTCI	score (income group average)	(	<b>61.9</b> 3
GT	CI 2023 Country Profile by Pillar					Score	Rank
				3	GROW	51.57	29
	Enable <b>1</b> 90			3.1	Formal Education		27
	<b>+</b> 80			3.1.1	Vocational enrolment		32
	Global	. Attract		3.1.2	Tertiary enrolment	45.25	42
Kno	owledge Skills 50	Attract		3.1.3	Quality Tertiary education expenditure	74.65	2
	30	7		3.1.4	Reading, maths, and science		_
	120	/		3.1.5	University ranking		5
				3.2	Lifelong Learning		4
				3.2.1	Business masters education	0.00	5
		<b>X</b> .		3.2.2	Prevalence of training in firms	48.87	3
V	ocational and	***		3.2.3	Employee development		3
	echnical Skills	Grow		3.3	Access to Growth Opportunities Empowerment	64.04	2
	Ŧ			3.3.1	Delegation of authority	67.26	1
	1			3.3.2	Youth inclusion	81.00	2
	Retain				Collaboration		
	● Estonia ● Incom	ie group average		3.3.3	Use of virtual social networks		2
	Estonia	ie group average		3.3.4	Use of virtual professional networks	31.94	4
		Score	Rank		DETAIN	04.53	_
	ENABLE	65.46	22	4	RETAIN		1
	Regulatory Landscape	80.41	17	4.1	Sustainability		2
.1	Government effectiveness	77.34	18	4.1.1	Pension coverage		1
2	Rule of law	83.25	17	4.1.2 4.1.3	Social protection		1
3	Political stability		30	4.1.4	Environmental performance		1
4	Regulatory quality		14	4.1.5	Vulnerable employment		
.5	Corruption		13	4.2	Lifestyle		2
	Market Landscape		42	4.2.1	Personal rights		1
.1	Extent of market dominance		50	4.2.2	Personal safety		2
.2 .3	Domestic credit to private sector		53 62	4.2.3	Physician density		2
د. 4.	R&D expenditure		21	4.2.4	Sanitation		3
5	ICT infrastructure.		43				
1.6	Urbanisation		57	5	VOCATIONAL AND TECHNICAL SKILLS	61.24	-
	Business and Labour Landscape		21	<b>5</b> .1	Mid-Level Skills		<b>3</b>
	Labour Market			5.1.1	Workforce with secondary education		3
.1	Labour rights	97.99	12	5.1.1	Population with secondary education		2
.2	Labour-employer cooperation		14	5.1.3	Technicians and associate professionals		2
	Management Practice			5.1.4	Labour productivity per employee		3
.3	Professional management	81.99	13	5.2	Employability		4
4	Relationship of pay to productivity		30	5.2.1	Ease of finding skilled employees	38.36	10
	Technology Adoption			5.2.2	Relevance of education system to the economy		3
.5	Enterprise software		71	5.2.3	Skills matching		3
6	Cloud computing		59	5.2.4	Highly educated unemployment	82.15	4
7	Firms with website	81.21	19				
	ATTRACT			6	GLOBAL KNOWLEDGE SKILLS		1
	ATTRACT		24	6.1	High-Level Skills		2
	External Openness	/0.29	18	6.1.1	Workforce with tertiary education		2
1	Attract Business	06.22	7	6.1.2	Population with tertiary education		1
1	FDI regulatory restrictiveness		26	6.1.3	Professionals		1
-	Attract People	02.20	20	6.1.4	Researchers		2
3	Migrant stock	65.7g	27	6.1.5 6.1.6	Senior officials and managers		
1	International students		21	6.1.0	Talent Impact	6765	

6.2

6.2.1

6.2.2

6.2.3

6.2.4

29

98

15

 Talent Impact
 67.65

 Innovation output
 63.70

High-value exports. 37.21

New business density 100.00 Scientific journal articles 49.19

22

21

#### **ESWATINI**

Key Indicators	
Regional group	Lower-middle income Sub-Saharan Africa 1.20
GTCI 2023 Country Profile by Pillar	
Global Knowledge Skills	Enable  100 90 80 70 60 50 40  20 10

V Te	ocational and Grow	
	Retain	
	Eswatini     Income group average	
	Score	Rank
1	ENABLE	99
1.1	Regulatory Landscape32.05	100
1.1.1	Government effectiveness	110
1.1.2	Rule of law	98
1.1.3	Political stability	65
1.1.4	Regulatory quality	104
1.1.5	Corruption	108
1.2	Market Landscape	122
1.2.1	Extent of market dominance	123
1.2.2	Domestic credit to private sector25.19	112
1.2.3	Cluster development31.51	101
1.2.4	R&D expenditure4.82	83

 1.2.5
 ICT infrastructure.
 .35.46

 1.2.6
 Urbanisation
 .12.38

Business and Labour Landscape......53.63

1.3

Labour Market

125

78

1.5.1	Eabour rights	70
1.3.2	Labour-employer cooperation	101
	Management Practice	
1.3.3	Professional management	45
1.3.4	Relationship of pay to productivity	96
	Technology Adoption	
1.3.5	Enterprise softwaren/a	n/a
1.3.6	Cloud computing	n/a
1.3.7	Firms with website	48
2	ATTRACT 44.83	89
2.1	External Openness	90
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation68.31	54
	Attract People	
2.1.3	Migrant stock	74
2.1.4	International students	100
2.1.5	Brain gain	91
2.2	Internal Openness53.36	75
	Social Inclusion	
2.2.1	Tolerance of minorities	6
2.2.2	Tolerance of immigrants58.46	66
2.2.3	Social mobility	115
	Gender Equality	
2.2.4	Economic empowerment of women23.89	130
2.2.5	Gender parity in high-skilled jobs	1
2.2.6	Leadership opportunities for women27.70	117

GTCI	score (income group average)	32.0
	Score	Ran
3	GROW26.12	102
3.1	Formal Education	89
	Enrolment	
3.1.1	Vocational enrolment	9
3.1.2	Tertiary enrolment	120
	Quality	
3.1.3	Tertiary education expenditure	2
3.1.4	Reading, maths, and science	n/
3.1.5	University ranking	70
3.2	Lifelong Learning	8
3.2.1	Business masters education	5
3.2.2 3.2.3	Prevalence of training in firms	44 7:
3.2.3	Employee development	11:
5.5	Access to Growth Opportunities	11.
3.3.1	Empowerment Delegation of authority	6
3.3.2	Youth inclusion	120
3.3.2	Collaboration	121
3.3.3	Use of virtual social networks	100
3.3.4	Use of virtual professional networks	8
J.J. <del>+</del>	ose of virtual professional networks	0
4	RETAIN37.09	100
4.1	Sustainability	6
4.1.1	Pension coverage	
4.1.2	Social protection	9
4.1.3	Brain retention	9
4.1.4	Environmental performance	5
4.1.5	Vulnerable employment	7
4.2	Lifestyle	13
4.2.1	Personal rights	13
4.2.2	Personal safety6.44	13
4.2.3	Physician density1.44	12
4.2.4	Sanitation	10
5	VOCATIONAL AND TECHNICAL SKILLS27.08	11
5.1	Mid-Level Skills	11
5.1.1	Workforce with secondary education	13
5.1.2	Population with secondary education	n/
5.1.3	Technicians and associate professionals	9
5.1.4	Labour productivity per employeen/a	n/
5.2	Employability	10
5.2.1	Ease of finding skilled employees	9
5.2.2	Relevance of education system to the economy30.10	9
5.2.3	Skills matching60.91	6
5.2.4	Highly educated unemployment	11
6	GLOBAL KNOWLEDGE SKILLS14.77	10
6.1	High-Level Skills	9
6.1.1	Workforce with tertiary education	8
6.1.2	Professionals 27.51	n/
6.1.3 6.1.4	Professionals 27.51 Researchers 1.51	8
6.1.4 6.1.5		9
	Senior officials and managers	
6.1.6	Digital skills	n/
5.2 5.2.1	Talent Impact	10
	Innovation output	n/
6.2.2	High-value exports	12
6.2.3	Software development	11
621	Now business density	
6.2.4 6.2.5	New business density	10

## **ETHIOPIA**

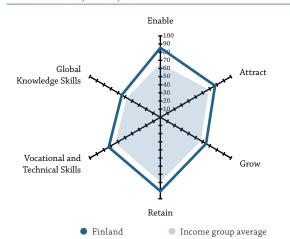
ъ.	( (40.1)	1:	<b>3</b> 2	a= -	(DDD MS+)	=	
Rank	(out of 134)	<b></b>	72		per capita (PPP US\$)		
	ne group				(US\$ billions)		
-	onal group				score		
Popu	lation (millions)		23.38	GTCI	score (income group average)		22.85
GT	CI 2023 Country Profile by Pillar					Score	Rank
	C. 2023 Country 1.10mc by 1.ma.			3	GROW		121
	Enable			3.1	Formal Education.		97
	${f I}_{90}^{100}$				Enrolment		
	<b>-</b> 80			3.1.1	Vocational enrolment		82
	Global 70 60	A		3.1.2	Tertiary enrolment	6.03	110
Kno	owledge Skills 150	Attract		3.1.3	Quality Tertiary education expenditure	59.96	63
	30	~		3.1.3	Reading, maths, and science		n/a
	10			3.1.5	University ranking		76
				3.2	Lifelong Learning		121
				3.2.1	Business masters education		57
	<u> </u>	<b>X</b>		3.2.2	Prevalence of training in firms		77
V	ocational and	Grow		3.2.3	Employee development		109
Те	echnical Skills	GIUW		3.3	Access to Growth Opportunities  Empowerment	18./6	125
	†			3.3.1	Delegation of authority	730	131
	I			3.3.2	Youth inclusion		63
	Retain				Collaboration		
	p.l			3.3.3	Use of virtual social networks		130
	Ethiopia	e group average		3.3.4	Use of virtual professional networks	0.45	129
		Score	Rank				
1	ENABLE	20.40	132	4	RETAIN	21.87	128
1.1	Regulatory Landscape		122	4.1	Sustainability		122
1.1.1	Government effectiveness		101	4.1.1	Pension coverage		127
1.1.2	Rule of law	29.18	102	4.1.2 4.1.3	Social protection		81 66
1.1.3	Political stability		133	4.1.3	Environmental performance		105
1.1.4	Regulatory quality		124	4.1.5	Vulnerable employment		129
1.1.5	Corruption		74	4.2	Lifestyle		128
1.2 1.2.1	Market Landscape Extent of market dominance		125 112	4.2.1	Personal rights		99
1.2.2	Domestic credit to private sector		n/a	4.2.2	Personal safety		113
1.2.3	Cluster development		117	4.2.3	Physician density		125
1.2.4	R&D expenditure	4.94	82	4.2.4	Sanitation	0.00	134
1.2.5	ICT infrastructure		103				
1.2.6	Urbanisation		129	5	VOCATIONAL AND TECHNICAL SKILLS		129
1.3	Business and Labour Landscape  Labour Market	19.51	132	5.1	Mid-Level Skills		129
1.3.1	Labour rights	n/a	n/a	5.1.1 5.1.2	Workforce with secondary education		118 n/a
1.3.2	Labour-employer cooperation		133	5.1.2	Population with secondary education		11/a 125
	Management Practice			5.1.4	Labour productivity per employee		112
1.3.3	Professional management		124	5.2	Employability		116
1.3.4	Relationship of pay to productivity	42.20	106	5.2.1	Ease of finding skilled employees		116
125	Technology Adoption	16.60	00	5.2.2	Relevance of education system to the economy		71
1.3.5 1.3.6	Enterprise software		89 117	5.2.3 5.2.4	Skills matching		104 71
1.3.7	Firms with website		91	5.2.4	nigniy educated unemployment	/3.90	71
				6	GLOBAL KNOWLEDGE SKILLS	8.08	121
2	ATTRACT		133	6.1	High-Level Skills		129
2.1	External Openness		131	6.1.1	Workforce with tertiary education	1.19	130
211	Attract Business		- /	6.1.2	Population with tertiary education		n/a
2.1.1	FDI regulatory restrictiveness		n/a 131	6.1.3	Professionals		124
∠.1.∠	Attract People	0.10	131	6.1.4 6.1.5	Researchers Senior officials and managers		91 122
2.1.3	Migrant stock	15.31	110	6.1.6	Digital skills		n/a
2.1.4	International students		n/a	6.2	Talent Impact		114
2.1.5	Brain gain		96	6.2.1	Innovation output	14.69	99
2.2	Internal Openness	31.87	128	6.2.2	High-value exports		39
2.2.1	Social Inclusion Tolerance of minorities	ביי	175	6.2.3 6.2.4	Software development		123 97
2.2.1	Tolerance of immigrants		125 39	6.2.4	Scientific journal articles		99
2.2.3	Social mobility		131	0.2.3		, ,	,,,
	Gender Equality						
2.2.4	Economic empowerment of women		93				
2.2.5	Gender parity in high-skilled jobs		109				
2.2.6	Leadership opportunities for women	2.60	133				

#### **FINLAND**

Key Indicators

Rank (out of 134)
Income group
Regional groupEurope
Population (millions)

GTCI 2023 Country Profile by Pillar



	Score	Rank
1	ENABLE 85.26	3
1.1	Regulatory Landscape	2
1.1.1	Government effectiveness	4
1.1.2	Rule of law	1
1.1.3	Political stability	11
1.1.4	Regulatory quality91.36	3
1.1.5	Corruption	2
1.2	Market Landscape	14
1.2.1	Extent of market dominance	23
1.2.2	Domestic credit to private sector	26
1.2.3	Cluster development	22
1.2.4	R&D expenditure	11
1.2.5	ICT infrastructure	18
1.2.6	Urbanisation	23
1.3	Business and Labour Landscape	1
	Labour Market	
1.3.1	Labour rights	1
1.3.2	Labour-employer cooperation	13
1.5.2	Management Practice	
1.3.3	Professional management	1
1.3.4	Relationship of pay to productivity	28
1.5.4	Technology Adoption	20
1.3.5	Enterprise software	1
1.3.6	Cloud computing	1
1.3.7	Firms with website	1
2	ATTRACT77.47	9
2.1	External Openness	28
	Attract Business	
2.1.1	FDI regulatory restrictiveness	9
2.1.2	Financial globalisation	13
	Attract People	
2.1.3	Migrant stock	55
2.1.4	International students	33
2.1.5	Brain gain	65
2.2	Internal Openness	1
	Social Inclusion	
2.2.1	Tolerance of minorities	1
2.2.2	Tolerance of immigrants	29
2.2.3	Social mobility	1
	Gender Equality	
2.2.4	Economic empowerment of women	15
2.2.5	Gender parity in high-skilled jobs	18
2.2.5	Leadership appartunities for woman 01.70	2

	score	
GICI	Score (Income group average)	Ranl
3		13
<b>3</b> 3.1	<b>GROW</b>	73
J.1	Enrolment	,
3.1.1	Vocational enrolment	3
3.1.2	Tertiary enrolment	7
	Quality	
3.1.3 3.1.4	Tertiary education expenditure	16
3.1.4	University ranking	17
3.2	Lifelong Learning53.25	25
3.2.1	Business masters education	55
3.2.2	Prevalence of training in firms	20
3.2.3	Employee development	4
3.3	Access to Growth Opportunities	14
3.3.1	Empowerment Delegation of authority	
3.3.2	Youth inclusion	15
	Collaboration	
3.3.3	Use of virtual social networks	19
3.3.4	Use of virtual professional networks41.56	28
4	RETAIN 90.63	4
4.1	Sustainability	3
4.1.1 4.1.2	Pension coverage	3
4.1.3	Brain retention	13
4.1.4	Environmental performance	3
4.1.5	Vulnerable employment	38
4.2	Lifestyle	11
4.2.1 4.2.2	Personal rights	17
4.2.2 4.2.3	Personal safety	16
4.2.4	Sanitation	24
5	VOCATIONAL AND TECHNICAL SKILLS	
5.1	Mid-Level Skills	12
5.1.1	Workforce with secondary education58.55	35
5.1.2	Population with secondary education	26
5.1.3	Technicians and associate professionals	-
5.1.4 5.2	Labour productivity per employee	20
5.2.1	Ease of finding skilled employees	13
5.2.2	Relevance of education system to the economy90.55	2
5.2.3	Skills matching	2.5
5.2.4	Highly educated unemployment	60
6	GLOBAL KNOWLEDGE SKILLS	17
6.1	High-Level Skills	2
6.1.1	Workforce with tertiary education50.31	24
6.1.2	Population with tertiary education	23
6.1.3	Professionals	11
6.1.4 6.1.5	Researchers	92
6.1.6	Digital skills	9.
6.2	Talent Impact	17
6.2.1	Innovation output	
6.2.2	High-value exports	4.
6.2.3	Software development	2
6.2.4	New business density	20

#### **FRANCE**

 2.2.4
 Economic empowerment of women.
 100.00

 2.2.5
 Gender parity in high-skilled jobs.
 .94.49

 2.2.6
 Leadership opportunities for women.
 .53.28

Key Indicators

ney Inc	licators				
D 1	( , (104)	19	app	(DDD 1104)	
	(			per capita (PPP US\$)	
Incon	ne group	icome	GDP	(US\$ billions)	782.9
Regio	nal group <b>E</b>	urope	GTCI	score	66.9
Popul	ation (millions)	67.94	GTCI	score (income group average)	61.9
GT	CI 2023 Country Profile by Pillar			Score	Ranl
	Enable		3	GROW71.30	
	<b>1</b> 00		3.1	Formal Education	10
	<b>→</b> 90		211	Enrolment	
	$\mathbf{\dot{t}}_{70}^{80}$		3.1.1 3.1.2	Vocational enrolment	
	Global Attract		3.1.2	Quality 43.43	4
Kno	wledge Skills 40 Attract		3.1.3	Tertiary education expenditure	) 1
	30		3.1.4	Reading, maths, and science	
	T <sub>10</sub>		3.1.5	University ranking	
			3.2	Lifelong Learning	
	January I XX		3.2.1	Business masters education	)
			3.2.2	Prevalence of training in firms	
V	ocational and		3.2.3	Employee development	
	chnical Skills Grow		3.3	Access to Growth Opportunities	20
			2.24	Empowerment 50.03	
	t		3.3.1	Delegation of authority	
	- n · ·		3.3.2	Youth inclusion	3
	Retain		3.3.3	Collaboration Use of virtual social networks	3
	France     Income group average		3.3.4	Use of virtual professional networks	
	Carre	David	3.3.1	ose of virtual professional networks	'
	Score	Rank	4	RETAIN81.41	19
	ENABLE	19	4.1	Sustainability	
.1	Regulatory Landscape	21	4.1.1	Pension coverage	
.1.1 .1.2	Government effectiveness	24 21	4.1.2	Social protection	
1.1.2	Political stability	48	4.1.3	Brain retention	63
1.1.4	Regulatory quality	23	4.1.4	Environmental performance	
1.1.5	Corruption	20	4.1.5	Vulnerable employment	20
.2	Market Landscape	17	4.2	Lifestyle83.02	
1.2.1	Extent of market dominance	39	4.2.1	Personal rights	
1.2.2	Domestic credit to private sector69.44	17	4.2.2	Personal safety	
1.2.3	Cluster development	23	4.2.3	Physician density	
1.2.4	R&D expenditure43.73	14	4.2.4	Sanitation	. 41
1.2.5	ICT infrastructure96.98	3			
1.2.6	Urbanisation	33	5	VOCATIONAL AND TECHNICAL SKILLS 63.54	2
1.3	Business and Labour Landscape	20	5.1	Mid-Level Skills	
1 2 1	Labour Market	26	5.1.1	Workforce with secondary education	
1.3.1 1.3.2	Labour rights	26 56	5.1.2	Population with secondary education	
1.↓.∠	Management Practice	U	5.1.3	Technicians and associate professionals	
1.3.3	Professional management	21	5.1.4	Labour productivity per employee	
1.3.4	Relationship of pay to productivity	41	5.2 5.2.1	Employability	
	Technology Adoption		5.2.1	Relevance of education system to the economy	
1.3.5	Enterprise software51.35	19	5.2.3	Skills matching	
1.3.6	Cloud computing	17	5.2.4	Highly educated unemployment	
1.3.7	Firms with website	33			
	ATTRACT	25	6	GLOBAL KNOWLEDGE SKILLS49.61	
<b>2</b> 2.1		<b>25</b>	6.1	High-Level Skills	
4.1	External Openness	23	6.1.1	Workforce with tertiary education	
2.1.1	FDI regulatory restrictiveness	27	6.1.2 6.1.3	Professionals 53.81	
2.1.1	Financial globalisation	18	6.1.3	Professionals	
	Attract People	.5	6.1.5	Senior officials and managers	
2.1.3	Migrant stock	36	6.1.6	Digital skills	
2.1.4	International students	29	6.2	Talent Impact	
2.1.5	Brain gain55.77	44	6.2.1	Innovation output	
2.2	Internal Openness	29	6.2.2	High-value exports39.56	
	Social Inclusion		6.2.3	Software development83.56	
2.2.1	Tolerance of minorities	83	6.2.4	New business density	
2.2.2	Tolerance of immigrants	60	6.2.5	Scientific journal articles	32
2.2.3	Social mobility	36			
	Gender Equality				

#### **GAMBIA**

тсу пт	aicators					
Rank	(out of 134)	(	<b>97</b>	GDP	per capita (PPP US\$)	09.83
	ne group		come		(US\$ billions)	
	onal group Sub-Sahan				score	
	lation (millions)				score (income group average)	
гори	iation (minions)		2.71	GICI	score (meonic group average)	22.00
GT	CI 2023 Country Profile by Pillar				Score	Rank
	Enable			3	GROW	98
	<b>T</b> 100			3.1	Formal Education. 27.90 Enrolment	74
	90 80			3.1.1	Vocational enrolment	2
	<b>+</b> 70			3.1.2	Tertiary enrolment	130
	Global 60 Attract	t			Quality	
Kno	owledge Skills			3.1.3	Tertiary education expenditure	97
	30 20			3.1.4	Reading, maths, and science	n/a
	10			3.1.5	University ranking0.00	76
				3.2	Lifelong Learning24.01	112
				3.2.1	Business masters education	57
				3.2.2	Prevalence of training in firms	66
V	ocational and Grow			3.2.3 3.3	Employee development	95 109
Te	echnical Skills			5.5	Empowerment 28.41	109
	†			3.3.1	Delegation of authority	37
	I			3.3.2	Youth inclusion	103
	Retain				Collaboration	
				3.3.3	Use of virtual social networks	118
	<ul> <li>Gambia</li> <li>Income group average</li> </ul>	2		3.3.4	Use of virtual professional networks	101
		Score	Rank			
1	ENABLE		101	4	RETAIN39.05	103
1.1	Regulatory Landscape		91	4.1	Sustainability	97
1.1.1	Government effectiveness		107	4.1.1	Pension coverage	106
1.1.2	Rule of law		86	4.1.2	Social protection	65
1.1.3	Political stability		52	4.1.3	Brain retention	35
1.1.4	Regulatory quality	19.44	119	4.1.4	Environmental performance	90
1.1.5	Corruption	23.29	90	4.1.5 4.2	Vulnerable employment	117 103
1.2	Market Landscape		111	4.2.1	Personal rights	66
1.2.1	Extent of market dominance		55	4.2.2	Personal safety	80
1.2.2 1.2.3	Domestic credit to private sector		128 59	4.2.3	Physician density0.45	129
1.2.3	Cluster development		108	4.2.4	Sanitation	113
1.2.5	ICT infrastructure.		111			
1.2.6	Urbanisation		73	5	VOCATIONAL AND TECHNICAL SKILLS 29.46	114
1.3	Business and Labour Landscape	39.33	86	5.1	Mid-Level Skills	102
	Labour Market			5.1.1	Workforce with secondary education	101
1.3.1	Labour rights		61	5.1.2	Population with secondary education20.20	75
1.3.2	Labour-employer cooperation	56.65	43	5.1.3	Technicians and associate professionals	102
	Management Practice			5.1.4	Labour productivity per employeen/a	n/a
1.3.3	Professional management		60 23	5.2	Employability39.84	120
1.3.4	Relationship of pay to productivity	7 2.49	23	5.2.1	Ease of finding skilled employees	40
1.3.5	Enterprise software	0.00	127	5.2.2 5.2.3	Relevance of education system to the economy	33 101
1.3.6	Cloud computing		126	5.2.3	Highly educated unemployment	122
1.3.7	Firms with website	14.90	104	3.2.1	inginy cadata diempioyment	
				6	GLOBAL KNOWLEDGE SKILLS8.48	119
2	ATTRACT5		46	6.1	High-Level Skills	118
2.1	External Openness	5/.51	36	6.1.1	Workforce with tertiary education8.47	107
211	Attract Business	n/2	n/2	6.1.2	Population with tertiary education	79
2.1.1	FDI regulatory restrictiveness		n/a 98	6.1.3 6.1.4	Professionals	92 97
4.1.4	Attract People	. 1.27	20	6.1.4	Senior officials and managers 2.93	119
2.1.3	Migrant stock	52.48	31	6.1.6	Digital skills	n/a
2.1.4	International students		n/a	6.2	Talent Impact	120
2.1.5	Brain gain		25	6.2.1	Innovation outputn/a	n/a
2.2	Internal Openness	54.89	72	6.2.2	High-value exports	116
	Social Inclusion			6.2.3	Software development	119
2.2.1	Tolerance of minorities		22	6.2.4	New business density	n/a
2.2.2	Tolerance of immigrants	o9.Z3	12	6.2.5	Scientific journal articles	109

72

111

124

2.2.4 Economic empowerment of women.......56.64

2.2.6 Leadership opportunities for women .......56.12

Gender Equality

### **GEORGIA**

Key Indicators	
Regional group	Upper-middle incom.  Northern Africa and Western Asi
GTCI 2023 Country Profile by Pilla	ar
Global Knowledge Skills	Enable  100 90 80 70 60 40 40 20 11

Global Knowledge Skills  Vocational and Technical Skills	11 19 88 77 66 44 44 43 22 11	A	Attract
	Retai	n	
• G	eorgia	<ul> <li>Income group av</li> </ul>	verage
			Score

		ndlik
1	ENABLE51.64	47
1.1	Regulatory Landscape56.44	47
1.1.1	Government effectiveness	40
1.1.2	Rule of law	56
1.1.3	Political stability50.16	88
1.1.4	Regulatory quality	28
1.1.5	Corruption	34
1.2	Market Landscape	58
1.2.1	Extent of market dominance	40
1.2.2	Domestic credit to private sector	49
1.2.3	Cluster development	40
1.2.4	R&D expenditure	84
1.2.5	ICT infrastructure	47
1.2.6	Urbanisation	77
1.3	Business and Labour Landscape	46
	Labour Market	
1.3.1	Labour rights	40
1.3.2	Labour-employer cooperation	57
1.5.2	Management Practice	٥,
1.3.3	Professional management	34
1.3.4	Relationship of pay to productivity	22
	Technology Adoption	
1.3.5	Enterprise software	93
1.3.6	Cloud computing 9.17	104
1.3.7	Firms with website	64
1.5.7		0.
2	ATTRACT 59.84	38
2.1	External Openness	40
2.1	Attract Business	10
2.1.1	FDI regulatory restrictiveness	7
2.1.2	Financial globalisation	25
2.1.2	Attract People	23
2.1.3	·	
		102
	Migrant stock	102
2.1.4	International students	30
2.1.4 2.1.5	International students.         33.09           Brain gain         45.32	30 69
2.1.4	International students.         33.09           Brain gain         45.32           Internal Openness         63.60	30
2.1.4 2.1.5 2.2	International students.         33.09           Brain gain         45.32           Internal Openness         63.60           Social Inclusion	30 69 37
2.1.4 2.1.5 2.2 2.2.1	International students.         .33.09           Brain gain         .45.32           Internal Openness         .63.60           Social Inclusion           Tolerance of minorities         .28.72	30 69 37
2.1.4 2.1.5 2.2 2.2.1 2.2.2	International students.         .33.09           Brain gain         .45.32           Internal Openness         .63.60           Social Inclusion         .28.72           Tolerance of minorities         .28.72           Tolerance of immigrants         .72.31	30 69 37 92 39
2.1.4 2.1.5 2.2 2.2.1	International students.         33.09           Brain gain         45.32           Internal Openness         63.60           Social Inclusion         28.72           Tolerance of minorities         28.72           Tolerance of immigrants         .72.31           Social mobility         60.19	30 69 37
2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3	International students.         .33.09           Brain gain         .45.32           Internal Openness         .63.60           Social Inclusion         .28.72           Tolerance of minorities         .28.72           Tolerance of immigrants         .72.31           Social mobility         .60.19           Gender Equality	30 69 37 92 39 39
2.1.4 2.1.5 2.2 2.2.1 2.2.2	International students.         33.09           Brain gain         45.32           Internal Openness         63.60           Social Inclusion         28.72           Tolerance of minorities         28.72           Tolerance of immigrants         .72.31           Social mobility         60.19	30 69 37 92 39

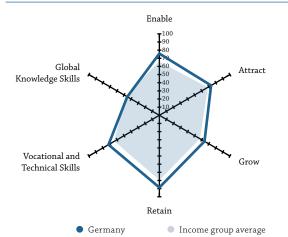
GTCI	score (income group average)	43.5
	Score	Ran
3	GROW	7
3.1	Formal Education	9
3.1.1	Enrolment Vocational enrolment	10
3.1.2	Tertiary enrolment	2
	Quality	_
3.1.3	Tertiary education expenditure30.71	10
3.1.4	Reading, maths, and science	6
3.1.5	University ranking	7
3.2 3.2.1	Lifelong Learning	7 5
3.2.1	Prevalence of training in firms	5
3.2.3	Employee development	5
3.3	Access to Growth Opportunities	5
	Empowerment	
3.3.1	Delegation of authority	2
3.3.2	Youth inclusion	9
3.3.3	Collaboration Use of virtual social networks	2
3.3.4	Use of virtual professional networks	6
J.J. 1	OSC OF VIRGAL PROFESSIONAL NEEWORDS	
ŀ	RETAIN	4
1.1	Sustainability	7
1.1.1	Pension coverage90.81	5
1.1.2	Social protection	5
4.1.3 4.1.4	Brain retention	7
4.1. <del>4</del> 4.1.5	Vulnerable employment	9
4.2	Lifestyle	3
4.2.1	Personal rights	6
4.2.2	Personal safety79.17	4
4.2.3	Physician density85.59	
4.2.4	Sanitation	8
5	VOCATIONAL AND TECHNICAL SKILLS59.94	3
5.1	Mid-Level Skills	3
5.1.1	Workforce with secondary education	1
5.1.2	Population with secondary education83.60	
5.1.3	Technicians and associate professionals28.01	7
5.1.4	Labour productivity per employee	5
5.2 5.2.1	Employability	3
5.2.2	Relevance of education system to the economy58.39	3
5.2.3	Skills matching	
5.2.4	Highly educated unemployment	9
_		
5 5.1	GLOBAL KNOWLEDGE SKILLS27.98 High-Level Skills	<b>6</b>
5.1.1	Workforce with tertiary education	3
5.1.2	Population with tertiary education	3
5.1.3	Professionals	5
5.1.4	Researchers	4
5.1.5 5.1.6	Senior officials and managers	5 7
5.1.6	Digital skills	6
5.2.1	Innovation output	8
5.2.2	High-value exports. 2.74	10
5.2.3	Software development	5
5.2.4	New business density	1
5.2.5	Scientific journal articles	7

#### **GERMANY**

Key Indicators

Rank (out of 134)
Income group
Regional groupEurope
Population (millions)

GTCI 2023 Country Profile by Pillar



	Score	Rank
1	ENABLE	10
1.1	Regulatory Landscape82.86	14
1.1.1	Government effectiveness	21
1.1.2	Rule of law	14
1.1.3	Political stability80.83	29
1.1.4	Regulatory quality84.44	11
1.1.5	Corruption	9
1.2	Market Landscape	12
1.2.1	Extent of market dominance74.40	11
1.2.2	Domestic credit to private sector	35
1.2.3	Cluster development	9
1.2.4	R&D expenditure	9
1.2.5	ICT infrastructure	16
1.2.6	Urbanisation	41
1.3	Business and Labour Landscape	10
	Labour Market	
1.3.1	Labour rights94.91	24
1.3.2	Labour-employer cooperation	31
1.3.2	Management Practice	21
1.3.3	9	27
1.3.3	Professional management	32
1.3.4	Relationship of pay to productivity	32
1.3.5	Enterprise software62.54	15
1.3.6	Cloud computing	11
1.3.7	Firms with website	6
2	ATTRACT	15
2.1	External Openness	17
	Attract Business	
2.1.1	FDI regulatory restrictiveness	14
2.1.2	Financial globalisation	24
2.11.2	Attract People	21
2.1.3	Migrant stock	20
2.1.4	International students41.14	24
2.1.5	Brain gain	21
2.2	Internal Openness	16
2.2.1	Tolerance of minorities	39
2.2.1	Tolerance of immigrants	34
2.2.2	Social mobility	29
۷.۷.۵	Gender Equality	29
2.2.4	1 7	1
	Economic empowerment of women	
2.2.5	Gender parity in high-skilled jobs	6
2.2.6	Leadership opportunities for women	65

61.9	score (income group average)	GTCI
Rai	Score	
1	GROW	3
	Formal Education	3.1
	Enrolment	
4	Vocational enrolment	3.1.1
- 1	Tertiary enrolment	3.1.2
	Quality	
	Tertiary education expenditure	3.1.3
	Reading, maths, and science	3.1.4 3.1.5
	Lifelong Learning	3.2
	Business masters education	3.2.1
	Prevalence of training in firms	3.2.2
	Employee development	3.2.3
2	Access to Growth Opportunities	3.3
	Empowerment	
3	Delegation of authority	3.3.1
	Youth inclusion89.30	3.3.2
	Collaboration	3.3.3
	Use of virtual social networks	3.3.3 3.3.4
	osc of virtual professional fictivority	J.J. <del>T</del>
	RETAIN	4
	Sustainability	4.1
	Pension coverage 100.00	4.1.1
	Social protection	4.1.2
	Brain retention	4.1.3
	Environmental performance	4.1.4
	Vulnerable employment95.21	4.1.5
	Lifestyle90.50	4.2
	Personal rights	4.2.1
	Personal safety	4.2.2 4.2.3
3	Sanitation	4.2.4
	VOCATIONAL AND TECHNICAL SKILLS72.11	5
	Mid-Level Skills	5.1
2	Workforce with secondary education	5.1.1 5.1.2
	Technicians and associate professionals	5.1.2
	Labour productivity per employee	5.1.4
	Employability	5.2
3	Ease of finding skilled employees	5.2.1
3	Relevance of education system to the economy58.55	5.2.2
4	Skills matching	5.2.3
	Highly educated unemployment90.60	5.2.4
_	CLODAL KNOWLEDGE CKILLS	_
2	GLOBAL KNOWLEDGE SKILLS	<b>5</b> 5.1
-	Workforce with tertiary education	5.1.1
3	Population with tertiary education	5.1.2
	Professionals	5.1.3
	Researchers	5.1.4
(	Senior officials and managers	5.1.5
4	Digital skills	5.1.6
2	Talent Impact51.53	5.2
	Innovation output	5.2.1
3	High-value exports	5.2.2
	Software development 87.24 New business density 7.30	5.2.3 5.2.4
-	Scientific journal articles	5.2.4

#### **GHANA**

U	IIANA			
Key In	dicators			
		95		
Rank	(out of 134)	70	GDP	per capita (PPP US\$)
Incor	ne group Lower-middle in	come	GDP	(US\$ billions)
	onal group Sub-Saharan A		GTCI	score
_	lation (millions)			score (income group ave
GT	CI 2023 Country Profile by Pillar			
	Enable		3	GROW
	T <sub>00</sub>		3.1	Formal Education Enrolment
	<b>+</b> 90		3.1.1	Vocational enrolment
	<b>‡</b> 80 70		3.1.2	Tertiary enrolment
	Global •60 Attract		5.1.2	Quality
Kno	owledge Skills 50		3.1.3	Tertiary education expenditor
	30 20		3.1.4	Reading, maths, and science
			3.1.5	University ranking
			3.2	Lifelong Learning
			3.2.1	Business masters education
			3.2.2	Prevalence of training in firm
V	ocational and		3.2.3	Employee development
Te	chnical Skills Grow		3.3	Access to Growth Opportu
	Į		2.24	Empowerment
	İ		3.3.1	Delegation of authority
			3.3.2	Youth inclusion
	Retain		3.3.3	Use of virtual social network
	Ghana     Income group average		3.3.4	Use of virtual professional ne
	Score	Rank		
1	ENABLE	66	4	RETAIN
1.1	Regulatory Landscape	65	4.1 4.1.1	Sustainability
1.1.1	Government effectiveness	80	4.1.1	Pension coverage
1.1.2	Rule of law	66	4.1.3	Brain retention
1.1.3	Political stability	60	4.1.4	Environmental performance
1.1.4 1.1.5	Regulatory quality	81 58	4.1.5	Vulnerable employment
1.1.5	Corruption         .35.62           Market Landscape         .40.48	76	4.2	Lifestyle
1.2.1	Extent of market dominance 50.12	44	4.2.1	Personal rights
1.2.2	Domestic credit to private sector	123	4.2.2	Personal safety
1.2.3	Cluster development	46	4.2.3	Physician density
1.2.4	R&D expenditure	n/a	4.2.4	Sanitation
1.2.5	ICT infrastructure	107		
1.2.6	Urbanisation	86	5	<b>VOCATIONAL AND TECH</b>
1.3	Business and Labour Landscape	63	5.1	Mid-Level Skills
	Labour Market		5.1.1	Workforce with secondary e
1.3.1	Labour rights	60	5.1.2	Population with secondary e
1.3.2	Labour-employer cooperation	62	5.1.3	Technicians and associate pr
1.3.3	Management Practice	39	5.1.4	Labour productivity per emp
1.3.3	Professional management	39 58	5.2	Employability
1.5.4	Technology Adoption	٥٠	5.2.1 5.2.2	Ease of finding skilled emplo
1.3.5	Enterprise software	40	5.2.2	Relevance of education systems Skills matching
1.3.6	Cloud computing	62	5.2.4	Highly educated unemployr
				J ,

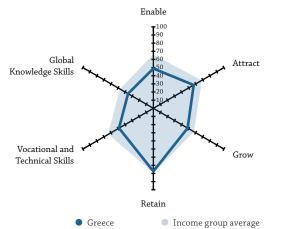
1.3.2	Labour-employer cooperation	62
1.3.3	Professional management	39
1.3.4	Relationship of pay to productivity	58
1.3.5	Enterprise software	40
1.3.6	Cloud computing	62
1.3.7	Firms with website	93
2	ATTRACT 44.67	90
2.1	External Openness	102
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation	101
2.1.3	Migrant stock	93
2.1.4	International students	92
2.1.5	Brain gain56.78	39
2.2	Internal Openness 57.31 Social Inclusion	62
2.2.1	Tolerance of minorities	28
2.2.2	Tolerance of immigrants	39
2.2.3	Social mobility	71
2.2.4	Economic empowerment of women64.60	99
2.2.5	Gender parity in high-skilled jobs	103
2.2.6	Leadership opportunities for women	67

	score (income group average)	
	Score	Ran
3	GROW27.66	9
3.1	Formal Education	10
3.1.1	Vocational enrolment	10
3.1.2	Tertiary enrolment	9
3.1.3	Tertiary education expenditure	8
3.1.4	Reading, maths, and science	n/
3.1.5	University ranking0.00	7
3.2	Lifelong Learning	6
3.2.1 3.2.2	Business masters education	5 3
3.2.3	Employee development	5 5
3.3	Access to Growth Opportunities	10
3.3.1	Delegation of authority	6
3.3.2	Youth inclusion	8
3.3.3	Use of virtual social networks	10
3.3.4	Use of virtual professional networks	9
1	RETAIN31.57	11
1.1	Sustainability	11
1.1.1	Pension coverage	10
1.1.2	Social protection	10
1.1.3	Brain retention	4
1.1.4	Environmental performance	12
l.1.5 l.2	Vulnerable employment	11 11
1.2.1	Personal rights	6
1.2.2	Personal safety	9
1.2.3	Physician density1.83	11
1.2.4	Sanitation	12
5	VOCATIONAL AND TECHNICAL SKILLS39.34	8
5.1	Mid-Level Skills	11
5.1.1	Workforce with secondary education	10
5.1.3	Population with secondary education	n/ 11
5.1.4	Labour productivity per employee	10
5.2	Employability	3
5.2.1	Ease of finding skilled employees	5
5.2.2	Relevance of education system to the economy	4
5.2.3	Skills matching	5 4
5	GLOBAL KNOWLEDGE SKILLS	11
5.1	High-Level Skills 8.03	11
5.1.1	Workforce with tertiary education	10
5.1.2	Population with tertiary educationn/a	n/
5.1.3	Professionals	9
5.1.4	Researchers	10
5.1.5 5.1.6	Senior officials and managers	10 n/
5.2	Talent Impact	10
5.2.1	Innovation output	8
5.2.2	High-value exports	11
5.2.3	Software development	10
5.2.4	New business density	8
5.2.5	Scientific journal articles	9

## **GREECE**

Key Indicators

Rank (out of 134)	<b>39</b>
Income group High in	ncome
Regional group E	urope
Population (millions)	10.57
GTCI 2023 Country Profile by Pillar	
Fnable	



Score Rank

1	ENABLE	54
1.1	Regulatory Landscape55.04	48
1.1.1	Government effectiveness53.92	46
1.1.2	Rule of law	48
1.1.3	Political stability65.19	55
1.1.4	Regulatory quality53.56	49
1.1.5	Corruption	41
1.2	Market Landscape	65
1.2.1	Extent of market dominance	61
1.2.2	Domestic credit to private sector	54
1.2.3	Cluster development	123
1.2.4	R&D expenditure	27
1.2.5	ICT infrastructure	76
1.2.6	Urbanisation	37
1.3	Business and Labour Landscape	64
	Labour Market	0.
1.3.1	Labour rights	39
1.3.1	Labour-employer cooperation	70
1.3.2	Management Practice	70
1.3.3	Professional management	76
1.3.4	Relationship of pay to productivity	67
1.5.4	Technology Adoption	07
125	37 1	100
1.3.5	Enterprise software	100
1.3.6	Enterprise software 14.93 Cloud computing 15.96	66
	Enterprise software	
1.3.6	Enterprise software 14.93 Cloud computing 15.96	66
1.3.6 1.3.7	Enterprise software         14.93           Cloud computing         15.96           Firms with website         .60.02    ATTRACT.  57.13	66 51
1.3.6 1.3.7 <b>2</b>	Enterprise software         14.93           Cloud computing         15.96           Firms with website         .60.02    ATTRACT  External Openness  50.44	66 51 <b>43</b>
1.3.6 1.3.7 <b>2</b>	Enterprise software         14.93           Cloud computing         15.96           Firms with website         60.02           ATTRACT         57.13           External Openness         50.44           Attract Business	66 51 <b>43</b>
1.3.6 1.3.7 <b>2</b> 2.1 2.1.1	Enterprise software         14.93           Cloud computing         15.96           Firms with website         60.02           ATTRACT         57.13           External Openness         50.44           Attract Business         FDI regulatory restrictiveness         92.43	66 51 <b>43</b> 54
1.3.6 1.3.7 <b>2</b> 2.1	Enterprise software         14.93           Cloud computing         15.96           Firms with website         60.02           ATTRACT         57.13           External Openness         50.44           Attract Business         FDI regulatory restrictiveness         92.43           Financial globalisation         .73.22	66 51 <b>43</b> 54
1.3.6 1.3.7 <b>2</b> 2.1 2.1.1 2.1.2	Enterprise software         14.93           Cloud computing         15.96           Firms with website         60.02           ATTRACT         57.13           External Openness         50.44           Attract Business         FDI regulatory restrictiveness         .92.43           Financial globalisation         .73.22           Attract People         .73.22	66 51 <b>43</b> 54 20 41
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3	Enterprise software         14.93           Cloud computing         15.96           Firms with website         .60.02           ATTRACT         57.13           External Openness         50.44           Attract Business         FDI regulatory restrictiveness           FDI regulatory restrictiveness         .92.43           Financial globalisation         .73.22           Attract People         Migrant stock         .60.12	66 51 <b>43</b> 54 20 41 38
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4	Enterprise software         14.93           Cloud computing         15.96           Firms with website         .60.02           ATTRACT         57.13           External Openness         50.44           Attract Business         FDI regulatory restrictiveness           FDI regulatory restrictiveness         .92.43           Financial globalisation         .73.22           Attract People         Migrant stock         .60.12           International students         .9.96	66 51 43 54 20 41 38 71
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5	Enterprise software         14.93           Cloud computing         15.96           Firms with website         .60.02           ATTRACT         57.13           External Openness         50.44           Attract Business         FDI regulatory restrictiveness           FDI regulatory restrictiveness         .92.43           Financial globalisation         .73.22           Attract People         Migrant stock         .60.12           International students         .9.96           Brain gain         .16.48	66 51 43 54 20 41 38 71 121
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4	Enterprise software         14.93           Cloud computing         15.96           Firms with website         60.02           ATTRACT         57.13           External Openness         50.44           Attract Business         FDI regulatory restrictiveness         .92.43           Financial globalisation         .73.22           Attract People         Migrant stock         .60.12           International students         .996           Brain gain         .16.48           Internal Openness         .63.81	66 51 43 54 20 41 38 71
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2	Enterprise software         14.93           Cloud computing         15.96           Firms with website         60.02           ATTRACT         57.13           External Openness         50.44           Attract Business         FDI regulatory restrictiveness         92.43           Financial globalisation         73.22           Attract People         Migrant stock         60.12           International students         9.96           Brain gain         16.48           Internal Openness         63.81           Social Inclusion	66 51 43 54 20 41 38 71 121 36
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2	Enterprise software         14.93           Cloud computing         15.96           Firms with website         .60.02           ATTRACT         57.13           External Openness         50.44           Attract Business         FDI regulatory restrictiveness           FDI regulatory restrictiveness         .92.43           Financial globalisation         .73.22           Attract People         Migrant stock         .60.12           International students         .9.96           Brain gain         .16.48           Internal Openness         .63.81           Social Inclusion         Tolerance of minorities         .57.45	66 51 43 54 20 41 38 71 121 36
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1	Enterprise software         14.93           Cloud computing         15.96           Firms with website         .60.02           ATTRACT         57.13           External Openness         50.44           Attract Business         FDI regulatory restrictiveness           FDI regulatory restrictiveness         .92.43           Financial globalisation         .73.22           Attract People         Migrant stock         .60.12           International students         .9.96           Brain gain         .16.48           Internal Openness         .63.81           Social Inclusion         Tolerance of minorities         .57.45           Tolerance of immigrants         .32.31	666 51 43 54 20 41 38 71 121 36 44 116
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2	Enterprise software         14.93           Cloud computing         15.96           Firms with website         .60.02           ATTRACT         57.13           External Openness         50.44           Attract Business         FDI regulatory restrictiveness           FDI regulatory restrictiveness         .92.43           Financial globalisation         .73.22           Attract People         Migrant stock         .60.12           International students         .9.96           Brain gain         .16.48           Internal Openness         .63.81           Social Inclusion         Tolerance of minorities         .57.45	66 51 43 54 20 41 38 71 121 36
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1	Enterprise software         14.93           Cloud computing         15.96           Firms with website         .60.02           ATTRACT         57.13           External Openness         50.44           Attract Business         FDI regulatory restrictiveness           Financial globalisation         .73.22           Attract People         Migrant stock         .60.12           International students         .996           Brain gain         .16.48           Internal Openness         .63.81           Social Inclusion         .57.45           Tolerance of minorities         .57.45           Tolerance of immigrants         .32.31           Social mobility         .48.42	666 51 43 54 20 41 38 71 121 36 44 116
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3	Enterprise software         14.93           Cloud computing         15.96           Firms with website         .60.02           ATTRACT         57.13           External Openness         50.44           Attract Business         .92.43           Financial globalisation         .73.22           Attract People         Migrant stock         .60.12           International students         .9.96           Brain gain         .16.48           Internal Openness         .63.81           Social Inclusion           Tolerance of minorities         .57.45           Tolerance of immigrants         .32.31           Social mobility         .48.42           Gender Equality	43 54 20 41 38 71 121 36 44 116 56

	score (income group average)	
	Score	Ran
3	GROW	3
<b>3</b> .1	Formal Education. 50.12	2
	Enrolment	
3.1.1	Vocational enrolment	4
3.1.2	Tertiary enrolment	
	Quality	_
3.1.3 3.1.4	Tertiary education expenditure	7
3.1.5	University ranking	_
3.2	Lifelong Learning	_
3.2.1	Business masters education51.87	1
3.2.2	Prevalence of training in firms23.51	7
3.2.3	Employee development	7
3.3	Access to Growth Opportunities	4
3.3.1	Empowerment Delegation of authority	7
3.3.2	Youth inclusion	3
).J.Z	Collaboration	-
3.3.3	Use of virtual social networks	
3.3.4	Use of virtual professional networks	5
ļ.	RETAIN	3
l.1 l.1.1	Sustainability	5
i.1.1 i.1.2	Social protection	4
1.1.3	Brain retention	12
1.1.4	Environmental performance	2
1.1.5	Vulnerable employment	6
1.2	Lifestyle	
1.2.1	Personal rights	3
1.2.2	Personal safety	3
1.2.3 1.2.4	Physician density.         100.00           Sanitation.         98.90	3
5	VOCATIONAL AND TECHNICAL SKILLS	6
5.1 5.1.1	Mid-Level Skills	5
5.1.2	Population with secondary education	3
5.1.3	Technicians and associate professionals	6
.1.4	Labour productivity per employee	4
5.2	Employability52.05	8
5.2.1	Ease of finding skilled employees	8
5.2.2	Relevance of education system to the economy29.77	٥
5.2.3	Skills matching	11
<b>5</b> 5.1	<b>GLOBAL KNOWLEDGE SKILLS</b>	4
5.1.1	Workforce with tertiary education	3
.1.2	Population with tertiary education	_
.1.3	Professionals50.35	2
5.1.4	Researchers	2
5.1.5	Senior officials and managers	8
5.1.6	Digital skills	5
5.2.1	Talent Impact	4
5.2.1	High-value exports	6
5.2.3	Software development	3
5.2.4	New business density	6
.2.5	Scientific journal articles	2

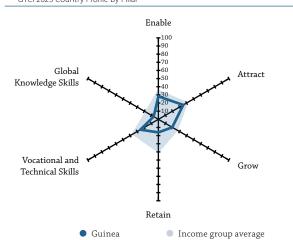
### **GUATEMALA**

Rank	(out of 134)	10	)4	GDP:	per capita (PPP US\$)	R18 17
Incon Regio	ne group	Upper-middle in in America and the Carib	come bean	GDP GTCI	(US\$ billions)score	95.00 30.16
•	ation (millions)		17.36	GTCI	score (income group average)	
GT	CI 2023 Country Profile by Pillar				Score	
	Enab	le		<b>3</b> 3.1	<b>GROW</b>	
		00		5.1	Enrolment 24.87	01
	‡ <sup>9</sup>	-		3.1.1	Vocational enrolment	20
		0		3.1.2	Tertiary enrolment	96
Kno	Global wledge Skills	Attract			Quality	
ruio	Wicage Dillin	O LANGE OF THE PARTY OF THE PAR		3.1.3 3.1.4	Tertiary education expenditure	
		0		3.1.4	University ranking	
	<b>7</b> *			3.2	Lifelong Learning	
	1	**		3.2.1	Business masters education	57
		****		3.2.2	Prevalence of training in firms	
	ocational and	Grow		3.2.3 3.3	Employee development	
Te	chnical Skills	diow		3.3	Access to Growth Opportunities	99
	1			3.3.1	Delegation of authority	87
	1			3.3.2	Youth inclusion	
	Retai	n			Collaboration	
	<ul> <li>Guatemala</li> </ul>	Income group average		3.3.3 3.3.4	Use of virtual social networks	
				3.3.4	Use of virtual professional networks	00
		Score	Rank		PETAIN	
1	ENABLE	32.86	108	<b>4</b> 4.1	<b>RETAIN. 40.37</b> Sustainability	
1.1	Regulatory Landscape		111	4.1.1	Pension coverage	
1.1.1 1.1.2	Government effectiveness		113 125	4.1.2	Social protection	
1.1.3	Political stability		85	4.1.3	Brain retention	
1.1.4	Regulatory quality		89	4.1.4	Environmental performance	
1.1.5	Corruption	9.59	123	4.1.5 4.2	Vulnerable employment	
1.2	Market Landscape		102	4.2.1	Personal rights	
1.2.1 1.2.2	Extent of market dominance  Domestic credit to private sector		82 84	4.2.2	Personal safety	
1.2.3	Cluster development		83	4.2.3	Physician density19.67	
1.2.4	R&D expenditure		111	4.2.4	Sanitation	104
1.2.5	ICT infrastructure		104			
1.2.6 1.3	Urbanisation		95 92	5	VOCATIONAL AND TECHNICAL SKILLS 33.28	
1.5	Business and Labour Landscape Labour Market		92	5.1	Mid-Level Skills	
1.3.1	Labour rights	27.88	99	5.1.1 5.1.2	Workforce with secondary education	
1.3.2	Labour-employer cooperation	62.77	35	5.1.3	Technicians and associate professionals	
	Management Practice			5.1.4	Labour productivity per employee11.21	89
1.3.3 1.3.4	Professional management		79 71	5.2	Employability45.58	
1.5.4	Technology Adoption		71	5.2.1 5.2.2	Ease of finding skilled employees	77 127
1.3.5	Enterprise software	16.20	91	5.2.3	Skills matching	
1.3.6	Cloud computing		93	5.2.4	Highly educated unemployment80.13	
1.3.7	Firms with website	56.03	55			
				6	GLOBAL KNOWLEDGE SKILLS11.27	113
2	ATTRACT		127	6.1	High-Level Skills	
2.1	External Openness	19.34	132	6.1.1	Workforce with tertiary education	
2.1.1	Attract Business FDI regulatory restrictiveness	n/a	n/a	6.1.2 6.1.3	Population with tertiary education	
2.1.2	Financial globalisation		121	6.1.4	Researchers	
	Attract People			6.1.5	Senior officials and managers	
2.1.3	Migrant stock		119	6.1.6	Digital skillsn/a	
2.1.4 2.1.5	International students Brain gain		111 87	6.2	Talent Impact 16.41	97
2.1.5	Internal Openness		120	6.2.1 6.2.2	Innovation output	
	Social Inclusion	10.07	.20	6.2.3	Software development	84
2.2.1	Tolerance of minorities		128	6.2.4	New business density	93
2.2.2	Tolerance of immigrants		127	6.2.5	Scientific journal articles	123
2.2.3	Social mobility	41.84	78			
2.2.4	Gender Equality Economic empowerment of wome	n	104			
2.2.5	Gender parity in high-skilled jobs		69			
		en	76			

#### **GUINEA**

Key Indicators

Rank (out of 134)	128
Income group	
Regional group	Sub-Saharan Africa
Population (millions)	
GTCL 2023 Country Profile by Pillar	



Score Rank

BLE         28.14           latory Landscape.         19.85           rnment effectiveness         20.03           of law         15.24           cal stability         35.94           latory quality         17.08           ption         10.96           et Landscape         26.75           t of market dominance         49.59           estic credit to private sector         5.61           er development         32.02           expenditure         n/a           nisation         26.57           ess and Labour Landscape         37.83           uur Market         ur rights           ur rights         91.02	120 125 124 128 116 120 118 47 127 98 n/a 125 115 94
rnment effectiveness	124 128 116 126 120 118 47 127 98 n/a 125 115 94
rnment effectiveness	128 116 126 120 118 47 127 98 n/a 125 115 94
cal stability       .35.94         latory quality       .17.08         ption       .10.96         et Landscape       .26.75         t of market dominance       .49.59         estic credit to private sector       .5.61         er development       .32.02         expenditure       .n/a         affastructure       .19.97         nisation       .26.57         ess and Labour Landscape       .37.83         ur Market	116 126 120 118 47 127 98 n/a 125 115 94
latory quality.     17.08       ption     10.96       et Landscape     26.75       t of market dominance     49.59       estic credit to private sector     5.61       er development     32.02       expenditure     n/a       affastructure     19.97       nisation     26.57       ess and Labour Landscape     37.83       ur Market	126 120 118 47 127 98 n/a 125 115
ption     10.96       et Landscape     26.75       t of market dominance     49.59       estic credit to private sector     5.61       er development     32.02       expenditure     n/a       firastructure     19.97       nisation     26.57       ess and Labour Landscape     37.83       ur Market	120 118 47 127 98 n/a 125 115
t Landscape	118 47 127 98 n/a 125 115 94
t of market dominance	47 127 98 n/a 125 115 94
estic credit to private sector     5.61       er development     32.02       expenditure     n/a       frastructure     19.97       nisation     26.57       ess and Labour Landscape     37.83       ur Market	127 98 n/a 125 115 94
er development.     32.02       expenditure.     .n/a       frastructure.     19.97       nisation     .26.57       ess and Labour Landscape     37.83       ur Market	98 n/a 125 115 94
expenditure.       .n/a         frastructure.       .19.97         nisation       .26.57         ess and Labour Landscape       .37.83         ur Market	n/a 125 115 94
frastructure.       19.97         nisation       26.57         ess and Labour Landscape       37.83         ur Market	125 115 94
frastructure.       19.97         nisation       26.57         ess and Labour Landscape       37.83         ur Market	115 94
ess and Labour Landscape	94
ur Market	
ur Market	
	30
ur-employer cooperation	41
. , .	
	82
	88
	00
37	116
	121
	108
with website	100
RACT	120
nal Openness 30.78	110
· ·	
	n/a
	110
9	110
·	106
	91
	22
nal Openness	121
The state of the s	121
I Inclusion	
I Inclusion	12.4
ance of minorities	134
ance of minorities	34
ance of minorities	
ance of minorities	34
ance of minorities	34 98
F	### Add to the companies of the companie

	(US\$ billions)score	
	score (income group average)	
0101	Score	Ran
3	GROW	11
<b>3</b> .1	Formal Education. 14.44	11
	Enrolment	
3.1.1	Vocational enrolment	8
3.1.2	Tertiary enrolment	12
3.1.3	Quality Tertiary education expenditure	9
3.1.3 3.1.4	Reading, maths, and science	n/
3.1.5	University ranking	7
3.2	Lifelong Learning	10
3.2.1	Business masters education0.00	9
3.2.2	Prevalence of training in firms	g
3.2.3	Employee development	5
3.3	Access to Growth Opportunities	12
	Empowerment	
3.3.1	Delegation of authority	3
3.3.2	Youth inclusion	11
	Collaboration	
3.3.3 3.3.4	Use of virtual social networks	11 12
0.3.4	ose of virtual professional networks	1.
	RETAIN	13
• 4.1	Sustainability	1
1.1.1	Pension coverage	1.
1.1.2	Social protection	-
1.1.3	Brain retention	1
1.1.4	Environmental performance	10
1.1.5	Vulnerable employment	13
1.2	Lifestyle	1.
1.2.1	Personal rights	1.
1.2.2 1.2.3	Personal safety         17.09           Physician density         2.76	1.
4.2.3 4.2.4	Sanitation	1.
5	VOCATIONAL AND TECHNICAL SKILLS	12
5.1 5.1.1	Mid-Level Skills	1. 1.
5.1.2	Workforce with secondary education	n. n
5.1.3	Technicians and associate professionals	1:
5.1.4	Labour productivity per employee	n
5.2	Employability	
5.2.1	Ease of finding skilled employees55.89	
5.2.2	Relevance of education system to the economy	10
5.2.3	Skills matching25.29	1
5.2.4	Highly educated unemployment90.17	
<u> </u>	GLOBAL KNOWLEDGE SKILLS	12
5.1	High-Level Skills	1
5.1.1	Workforce with tertiary education	9
5.1.2	Population with tertiary educationn/a	n
5.1.3	Professionals	10
5.1.4	Researchers	n
5.1.5 5.1.6	Senior officials and managers	1
5.1.6 5.2	Digital skills	n 1:
5.2.1	Talent Impact	1.
5.2.2	High-value exports. 1.45	1
5.2.3	Software development	13
5.2.4	New business density	10

### **HONDURAS**

Rank	(out of 134)	10	<b>)</b> 5	GDP	per capita (PPP US\$)	741.1
	ne group				(US\$ billions)	
	nal groupLat				score	
Popul	ation (millions)		0.43	GTCI	score (income group average)	32.0
GTO	CI 2023 Country Profile by Pillar				Score	e Ranl
	er 2023 country ( Torrice by ( mar			3	GROW	
	Enab	le		<b>3</b> .1	Formal Education. 30.08	
	T <sub>o</sub>			3.1	Enrolment	, ,
	‡ <sup>9</sup>			3.1.1	Vocational enrolment56.92	2 9
	Global †7	0		3.1.2	Tertiary enrolment	8 8
Kno	wledge Skills	Attract			Quality	
Terro	Wiedge DRins			3.1.3	Tertiary education expenditure	
	12			3.1.4 3.1.5	Reading, maths, and science	
	<b>7</b> *			3.2	Lifelong Learning	
		*\		3.2.1	Business masters education	
	July 1	****		3.2.2	Prevalence of training in firms	
V	ocational and	Grow		3.2.3	Employee development	
Te	chnical Skills	Grow		3.3	Access to Growth Opportunities	3 10
	+			3.3.1	Empowerment Delegation of authority	5 10
	I			3.3.2	Youth inclusion	
	Retai	n			Collaboration	
	<ul><li>Honduras</li></ul>	_ T		3.3.3	Use of virtual social networks	
	Honduras	<ul> <li>Income group average</li> </ul>		3.3.4	Use of virtual professional networks10.31	9.
		Score	Rank			
	ENABLE	27.72	121	4	RETAIN41.17	
1	Regulatory Landscape	24.44	119	4.1 4.1.1	Sustainability 29.72	
1.1	Government effectiveness		117	4.1.1	Pension coverage	
1.2	Rule of law		122	4.1.3	Brain retention	
1.3 1.4	Political stability Regulatory quality		98 99	4.1.4	Environmental performance	8
1.5	Corruption		127	4.1.5	Vulnerable employment56.03	
2	Market Landscape		115	4.2	Lifestyle	
2.1	Extent of market dominance		129	4.2.1 4.2.2	Personal rights         .68.06           Personal safety         .53.23	
.2.2	Domestic credit to private sector		47	4.2.3	Physician density	
.2.3 .2.4	Cluster development		103 110	4.2.4	Sanitation	
.2.5	ICT infrastructure		121			
.2.6	Urbanisation	50.67	82	5	VOCATIONAL AND TECHNICAL SKILLS29.93	3 11:
.3	Business and Labour Landscape		121	5.1	Mid-Level Skills	
	Labour Market	44.00		5.1.1	Workforce with secondary education	
.3.1 .3.2	Labour rights		92 77	5.1.2	Population with secondary education	
.3.2	Labour-employer cooperation	40.43	//	5.1.3	Technicians and associate professionals	
3.3	Professional management		114	5.1.4 5.2	Labour productivity per employee	
.3.4	Relationship of pay to productivity.		120	5.2.1	Ease of finding skilled employees	
	Technology Adoption			5.2.2	Relevance of education system to the economy6.48	3 13
.3.5	Enterprise software		82	5.2.3	Skills matching	
.3.6 .3.7	Cloud computing		94 76	5.2.4	Highly educated unemployment	l 8
				6	GLOBAL KNOWLEDGE SKILLS11.46	5 11
	ATTRACT		115	6.1	High-Level Skills	
.1	External Openness	23.53	123	6.1.1	Workforce with tertiary education	
1 1	Attract Business	- /-	n/2	6.1.2	Population with tertiary education	
.1.1 .1.2	FDI regulatory restrictiveness Financial globalisation		n/a 77	6.1.3 6.1.4	Professionals	
-	Attract People			6.1.5	Senior officials and managers	
1.3	Migrant stock		127	6.1.6	Digital skillsn/a	
1.4	International students		95	6.2	Talent Impact	
1.5	Brain gain		111	6.2.1	Innovation output 9.74	
.2	Internal Openness	49.46	91	6.2.2	High-value exports	
.2.1	Tolerance of minorities	52.13	54	6.2.3 6.2.4	Software development	
.2.2	Tolerance of immigrants		104	6.2.5	Scientific journal articles	
.2.3	Social mobility		124			
	Gender Equality					
.2.4 .2.5	Economic empowerment of wome		99			
	Gender parity in high-skilled jobs	82.41	48			

### **HUNGARY**

		38
Rank (out of 134)		
Income group Regional group		Europe
Population (millions)		9.68
GTCI 2023 Country Profile by	y Pillar	
	Enable	
Global	100 190 180 170	, Attract

		Enable	
Global Knowledge Skills		100 990 80 770 60 90 90 90 90 90 90 90 90 90 90 90 90 90	Attract
Vocational and Technical Skills	market and the second	Retain	Grow
		INCLAIII	
•	Hungary	<ul> <li>Income group</li> </ul>	average

	Score	Rank
1	ENABLE 52.88	44
1.1	Regulatory Landscape58.18	44
1.1.1	Government effectiveness	41
1.1.2	Rule of law	40
1.1.3	Political stability83.57	23
1.1.4	Regulatory quality54.98	46
1.1.5	Corruption	63
1.2	Market Landscape	45
1.2.1	Extent of market dominance	80
1.2.2	Domestic credit to private sector	81
1.2.3	Cluster development	37
1.2.4	R&D expenditure	25
1.2.5	ICT infrastructure	33
1.2.6	Urbanisation	51
1.3	Business and Labour Landscape	50
1.5	Labour Market	50
1.3.1	Labour rights	35
1.3.1	Labour-employer cooperation	90
1.3.2	· · ·	90
1.3.3	Management Practice Professional management	57
1.3.3	9	109
1.3.4	Relationship of pay to productivity	109
405	Technology Adoption	
1.3.5	Enterprise software	34
1.3.6	Cloud computing	43
1.3.7	Firms with website	47
2	ATTRACT 56.02	47
2.1	External Openness	33
2.1	Attract Business	33
2.1.1	FDI regulatory restrictiveness	18
2.1.2	Financial globalisation	29
2.1.2	Attract People	2)
2.1.3	Migrant stock	60
2.1.4	International students	16
2.1.5	Brain gain	104
2.2	Internal Openness	77
	Social Inclusion	
2.2.1	Tolerance of minorities	36
2.2.1	Tolerance of immigrants	131
2.2.2	Social mobility	105
۷.۷.۷	Gender Equality	103
2.2.4	1 /	20
2.2.4	Economic empowerment of women	20 57
	Gender parity in high-skilled jobs	
2.2.6	Leadership opportunities for women	75

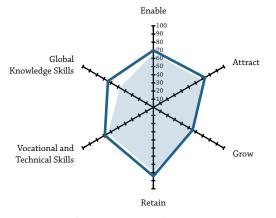
GDP per capita (PPP US\$)		
	score	
GTCI	score (income group average)	61.91
	Score	Rank
3	GROW	51
3.1	Formal Education	36
J.1	Enrolment 43.14	50
3.1.1	Vocational enrolment	30
3.1.2	Tertiary enrolment35.96	61
	Quality	
3.1.3	Tertiary education expenditure71.74	34
3.1.4	Reading, maths, and science	32
3.1.5	University ranking19.66	58
3.2	Lifelong Learning	92
3.2.1	Business masters education	57
3.2.2 3.2.3	Prevalence of training in firms	59 70
3.2.3	Access to Growth Opportunities	45
5.5	Empowerment	43
3.3.1	Delegation of authority	59
3.3.2	Youth inclusion	24
	Collaboration	
3.3.3	Use of virtual social networks	59
3.3.4	Use of virtual professional networks	73
4	RETAIN71.80	37
4.1	Sustainability	42
4.1.1	Pension coverage	57
4.1.2	Social protection	48
4.1.3	Brain retention	110
4.1.4	Environmental performance	31
4.1.5	Vulnerable employment	22
4.2	Lifestyle	39
4.2.1 4.2.2	Personal rights	58 26
4.2.2	Physician density	41
4.2.4	Sanitation	45
5	VOCATIONAL AND TECHNICAL SKILLS61.62	32
5.1	Mid-Level Skills	9
5.1.1	Workforce with secondary education	16
5.1.2	Population with secondary education	10
5.1.3 5.1.4	Technicians and associate professionals	21 43
5.1.4	Employability	66
5.2.1	Ease of finding skilled employees	129
5.2.2	Relevance of education system to the economy39.95	72
5.2.3	Skills matching87.40	8
5.2.4	Highly educated unemployment	20
6	GLOBAL KNOWLEDGE SKILLS	35
6.1	High-Level Skills	42
6.1.1	Workforce with tertiary education	43
6.1.2	Population with tertiary education32.33	44
6.1.3	Professionals	34
6.1.4	Researchers	23
6.1.5	Senior officials and managers	58
6.1.6	Digital skills	53
	Talent Impact	
6.2		
6.2.1	Innovation output	33
6.2.1 6.2.2	High-value exports	28
6.2.1 6.2.2 6.2.3	High-value exports.29.29Software development.82.66	28 26
6.2.1 6.2.2	High-value exports	28 26 36

#### **ICELAND**

Key Indicators

Rank (out of 134)	15
Income group	
Regional group	Europe
Population (millions)	<b>0.38</b>

GTCI 2023 Country Profile by Pillar



Iceland Income group average Score Rank

1.1 1.1.1 1.1.2		
1.1.1 1.1.2	ENABLE69.87	18
1.1.1 1.1.2	Regulatory Landscape86.51	10
1.1.2	Government effectiveness	9
112	Rule of law	9
1.1.3	Political stability	3
	Regulatory quality81.93	15
	Corruption	13
	Market Landscape	29
	Extent of market dominance	90
1.2.2	Domestic credit to private sector	28
	Cluster development	54
	R&D expenditure	12
	ICT infrastructure	65
	Urbanisation	7
	Business and Labour Landscape	19
	Labour Market	
	Labour rights	1
	Labour-employer cooperation	10
	Management Practice	10
	Professional management	23
	Relationship of pay to productivity	36
		30
	Technology Adoption	49
	Enterprise software	
	Cloud computing	32
1.3./	Firms with website	15
2	ATTRACT	18
2.1	External Openness	46
	Attract Business	
	FDI regulatory restrictiveness55.95	65
	Financial globalisation	85
	Attract People	
	Migrant stock	22
	9	22
	International students 31 ()6	31
2.1.4	International students	31 31
2.1.4 2.1.5	Brain gain	31
2.1.4 2.1.5 2.2	Brain gain         .60.33           Internal Openness         .91.95	
2.1.4 2.1.5 2.2	Brain gain         .60.33           Internal Openness         .91.95           Social Inclusion	31
2.1.4 2.1.5 2.2 2.2.1	Brain gain	31 2
2.1.4 2.1.5 2.2 2.2.1 2.2.2	Brain gain       .60.33         Internal Openness       .91.95         Social Inclusion         Tolerance of minorities       .97.87         Tolerance of immigrants       .83.08	31 2 2 21
2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3	Brain gain	31 2
2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3	Brain gain       .60.33         Internal Openness       .91.95         Social Inclusion       .97.87         Tolerance of minorities       .97.87         Tolerance of immigrants       .83.08         Social mobility       .94.79         Gender Equality	31 2 2 21
2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3 2.2.4	Brain gain       .60.33         Internal Openness       .91.95         Social Inclusion       .97.87         Tolerance of minorities       .97.87         Tolerance of immigrants       .83.08         Social mobility       .94.79	31 2 2 21 4

	per capita (PPP US\$)	
	score	
	score (income group average)	
	Score	Rank
3	GROW55.67	23
3.1	Formal Education	37
3.1.1	Vocational enrolment	46
3.1.1	Tertiary enrolment	
J.1.Z	Quality	10
3.1.3	Tertiary education expenditure	20
3.1.4	Reading, maths, and science	
3.1.5	University ranking	76
3.2	Lifelong Learning	59
3.2.1	Business masters education	57
3.2.2	Prevalence of training in firms	
3.2.3	Employee development	34
3.3	Access to Growth Opportunities87.94	1
	Empowerment	
3.3.1	Delegation of authority	8
3.3.2	Youth inclusion95.75	3
	Collaboration	
3.3.3	Use of virtual social networks	21
3.3.4	Use of virtual professional networks	1
4	RETAIN	12
4.1	Sustainability	14
4.1.1	Pension coverage	73
4.1.2	Social protection90.93	8
4.1.3	Brain retention	10
4.1.4	Environmental performance	10
4.1.5	Vulnerable employment90.93	24
4.2	Lifestyle	
4.2.1	Personal rights	16
4.2.2	Personal safety	5
4.2.3 4.2.4	Physician density	27 38
4.2.4	Sanitation	30
5	VOCATIONAL AND TECHNICAL SKILLS 68.78	11
5.1	Mid-Level Skills	34
5.1.1	Workforce with secondary education	55
5.1.2 5.1.3	Population with secondary education	
5.1.3 5.1.4	Technicians and associate professionals	
5.1. <del>4</del> 5.2	Labour productivity per employee	7
5.2.1	Ease of finding skilled employees	1
5.2.2	Relevance of education system to the economy	24
5.2.3	Skills matching	19
5.2.4	Highly educated unemployment	44
6	GLOBAL KNOWLEDGE SKILLS	4
6.1	High-Level Skills	4
6.1.1	Workforce with tertiary education	
6.1.2	Population with tertiary education	16
6.1.3	Professionals	15
6.1.4	Researchers	
6.1.5	Senior officials and managers	

Digital skills ......51.63 

6.2 6.2.1

6.2.2

6.2.3

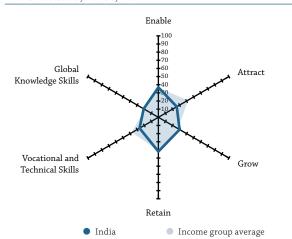
6.2.4 6.2.5 6

8

#### **INDIA**

Rank (out of 134)	103
Income group	Lower-middle income
Regional group	Central and Southern Asia
Population (millions)	1,417.17

GTCI 2023 Country Profile by Pillar



	Score	Rank
1	ENABLE	92
1.1	Regulatory Landscape	72
1.1.1	Government effectiveness	52
1.1.2	Rule of law	65
1.1.3	Political stability45.18	99
1.1.4	Regulatory quality	75
1.1.5	Corruption	68
1.2	Market Landscape	91
1.2.1	Extent of market dominance	66
1.2.2	Domestic credit to private sector	67
1.2.3	Cluster development	99
1.2.4	R&D expenditure12.07	53
1.2.5	ICT infrastructure	58
1.2.6	Urbanisation	119
1.3	Business and Labour Landscape	116
	Labour Market	
1.3.1	Labour rights	n/a
1.3.2	Labour-employer cooperation	120
1.5.2	Management Practice	120
1.3.3	Professional management	92
1.3.3	Relationship of pay to productivity	66
1.3.4	Technology Adoption	00
1.3.5	Enterprise software15.51	95
1.3.6	Cloud computing	71
1.3.7	Firms with website	73
2	ATTRACT	132
2.1	External Openness	127
	Attract Business	
2.1.1	FDI regulatory restrictiveness	69
2.1.2	Financial globalisation	123
2.1.2	Attract People	123
2.1.3	Migrant stock	125
2.1.4	International students	113
2.1.5	Brain gain	106
2.2	Internal Openness	129
	Social Inclusion	
2.2.1	Tolerance of minorities	110
2.2.2	Tolerance of immigrants	82
2.2.3	Social mobility	123
2.2.5	Gender Equality	123
2.2.4	Economic empowerment of women	102
2.2.4	Gender parity in high-skilled jobs	102
2.2.5	Leadership opportunities for women	125
∠.∠.∪	Leadership opportunities for worthern	الكا

GTCI score		
	Score	Rank
3	GROW	90
<b>3</b> .1	Formal Education. 32.39	64
J. I	Enrolment 32.39	0-
3.1.1	Vocational enrolment	99
3.1.2	Tertiary enrolment	84
	Quality	
3.1.3	Tertiary education expenditure55.72	68
3.1.4	Reading, maths, and science	n/a
3.1.5	University ranking	2
3.2 3.2.1	Lifelong Learning	66 16
3.2.1	Prevalence of training in firms	98
3.2.2	Employee development	118
3.3	Access to Growth Opportunities	118
	Empowerment	
3.3.1	Delegation of authority	119
3.3.2	Youth inclusion	100
	Collaboration	
3.3.3	Use of virtual social networks	103
3.3.4	Use of virtual professional networks	94
1	RETAIN41.95	99
4.1	Sustainability35.49	9
4.1.1	Pension coverage41.92	8
1.1.2	Social protection	7
4.1.3 4.1.4	Brain retention	13
4.1.5	Vulnerable employment	118
4.2	Lifestyle	9:
4.2.1	Personal rights	8
4.2.2	Personal safety52.69	8
4.2.3	Physician density	9
4.2.4	Sanitation	100
5	VOCATIONAL AND TECHNICAL SKILLS 26.68	12
5.1	Mid-Level Skills	117
5.1.1	Workforce with secondary education	112
5.1.2 5.1.3	Population with secondary education	n/a 11:
5.1.4	Labour productivity per employee	9:
5.2	Employability	113
5.2.1	Ease of finding skilled employees	118
5.2.2	Relevance of education system to the economy37.95	80
5.2.3	Skills matching	84
5.2.4	Highly educated unemployment	9
5	GLOBAL KNOWLEDGE SKILLS 20.82	83
5.1	High-Level Skills	9
5.1.1	Workforce with tertiary education	9.
5.1.2	Professionals 12.46	n/
5.1.3 5.1.4	Professionals	10.
5.1.4	Senior officials and managers	4
5.1.6	Digital skills	n/
5.2	Talent Impact	6
5.2.1	Innovation output	3
	High-value exports	4
	9 ,	
5.2.2 5.2.3 5.2.4	Software development	6 11

### **INDONESIA**

Incor	ne group	come	GDP	(US\$ billions)	1.31	52.93 19.10
	nal group Eastern, Southeastern Asia and Oc			score	•	
-	lation (millions)			score (income group average)		
GT	CI 2023 Country Profile by Pillar				Score	Rank
	r II		3	GROW	39.41	64
	Enable		3.1	Formal Education.	32.01	65
	<b>I</b> <sup>100</sup>			Enrolment		
	<b>+</b> 80		3.1.1	Vocational enrolment		38
	Global 700		3.1.2	Tertiary enrolment	.23.35	80
Kno	wledge Skills Attract		3.1.3	Quality Tertiary education expenditure	16 OE	85
	30		3.1.3	Reading, maths, and science		71
	120		3.1.5	University ranking		32
			3.2	Lifelong Learning		54
			3.2.1	Business masters education	. 21.51	45
			3.2.2	Prevalence of training in firms		98
V	ocational and		3.2.3	Employee development		11
Τe	chnical Skills Grow		3.3	Access to Growth Opportunities	49.61	59
	Ŧ		2 2 1	Empowerment  Palagration of authority	76 75	44
	İ		3.3.1 3.3.2	Delegation of authority		11 82
	Retain		۷.۷.۷	Collaboration		02
	ictani		3.3.3	Use of virtual social networks	. 56.13	79
	<ul><li>Indonesia</li><li>Income group average</li></ul>		3.3.4	Use of virtual professional networks		83
	Score	Rank				
			4	RETAIN4	19.98	84
1	ENABLE	58	4.1	Sustainability		88
.1 .1.1	Regulatory Landscape	70	4.1.1	Pension coverage		109
1.1	Rule of law	48 73	4.1.2	Social protection	.71.22	36
1.3	Political stability. 48.00	95	4.1.3	Brain retention		27
1.4	Regulatory quality	55	4.1.4	Environmental performance		124
.1.5	Corruption	90	4.1.5	Vulnerable employment		96
.2	Market Landscape	36	4.2	Lifestyle		78
.2.1	Extent of market dominance	20	4.2.1 4.2.2	Personal rights		81 51
.2.2	Domestic credit to private sector	87	4.2.2	Physician density		99
.2.3	Cluster development	5	4.2.4	Sanitation		84
.2.4 .2.5	R&D expenditure	80 35				
.2.5	ICT infrastructure	33 89		Vocational and Training at any la		
.3	Business and Labour Landscape	58	5	VOCATIONAL AND TECHNICAL SKILLS		65
	Labour Market		5.1 5.1.1	Mid-Level Skills		92 73
.3.1	Labour rights	65	5.1.2	Population with secondary education		52
.3.2	Labour-employer cooperation	26	5.1.3	Technicians and associate professionals		107
	Management Practice		5.1.4	Labour productivity per employee		84
.3.3	Professional management	16	5.2	Employability	71.99	25
.3.4	Relationship of pay to productivity82.73	6	5.2.1	Ease of finding skilled employees		33
125	Technology Adoption	125	5.2.2	Relevance of education system to the economy		12
1.3.5 1.3.6	Enterprise software	125 114	5.2.3	Skills matching		69
1.3.7	Firms with website	106	5.2.4	Highly educated unemployment	.60.57	55
	ATTRACT	465	6	GLOBAL KNOWLEDGE SKILLS		100
2	ATTRACT38.78	106	6.1	High-Level Skills		102
2.1	External Openness	125	6.1.1	Workforce with tertiary education		94
2.1.1	Attract Business FDI regulatory restrictiveness	78	6.1.2 6.1.3	Population with tertiary education Professionals		71 95
2.1.2	Financial globalisation	109	6.1.4	Researchers		95 74
-	Attract People		6.1.5	Senior officials and managers		96
.1.3	Migrant stock	132	6.1.6	Digital skills		55
.1.4	International students	114	6.2	Talent Impact		83
.1.5	Brain gain	24	6.2.1	Innovation output		73
.2	Internal Openness	70	6.2.2	High-value exports		61
2.1	Social Inclusion	<i>.</i>	6.2.3	Software development		72
.2.1	Tolerance of minorities	84	6.2.4	New business density		106
.2.2 .2.3	Tolerance of immigrants	119 27	6.2.5	Scientific journal articles	4.45	80
د.ے.	Gender Equality	21				
.2.4	Economic empowerment of women	109				
.2.5	Gender parity in high-skilled jobs85.24	38				

Vocational and

# IRAN, ISLAMIC REP.

Key Indicators

Rank (out of 134)	116
Income group	Lower-middle income
Regional group	Central and Southern Asia
Population (millions)	
GTCI 2023 Country Profile by Pillar	
Er	aable
Global Knowledge Skills	100 90 80 70 60 50 40 Attract

Technical Skills

Retain

Iran, Islamic Rep.

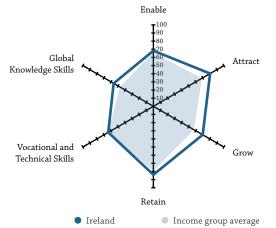
Income group average

	Score	Rank
1	ENABLE30.42	114
1.1	Regulatory Landscape14.31	131
1.1.1	Government effectiveness	120
1.1.2	Rule of law	119
1.1.3	Political stability19.00	129
1.1.4	Regulatory quality0.00	134
1.1.5	Corruption	120
1.2	Market Landscape	66
1.2.1	Extent of market dominance50.38	43
1.2.2	Domestic credit to private sector	52
1.2.3	Cluster development	87
1.2.4	R&D expenditure14.56	46
1.2.5	ICT infrastructure	91
1.2.6	Urbanisation	45
1.3	Business and Labour Landscape	115
	Labour Market	
1.3.1	Labour rights	n/a
1.3.2	Labour-employer cooperation	128
	Management Practice	.20
1.3.3	Professional management	126
1.3.4	Relationship of pay to productivity	126
1.5.1	Technology Adoption	120
1.3.5	Enterprise software	16
1.3.6	Cloud computing	22
1.3.7	Firms with website	n/a
2	ATTRACT12.15	134
2.1	External Openness 9.39	134
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation	134
	Attract People	
2.1.3	Migrant stock	96
2.1.4	International students	96
2.1.5	Brain gain9.30	128
2.7	Internal Openness	134
2.2	Social Inclusion	154
2.2.1	Tolerance of minorities	125
2.2.1	Tolerance of immigrants	98
2.2.2	Social mobility	130
۷.۷.۵	Gender Equality	130
2.2.4	Economic empowerment of women2.65	133
	6 1 2 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2	112
2.2.5	Gender parity in high-skilled jobs	112

GDP	(US\$ billions)	88.5
	score	
GTCI	score (income group average)	32.0
	Score	Rar
3	GROW27.12	9
3.1	Formal Education	5
	Enrolment	
3.1.1	Vocational enrolment	!
3.1.2	Tertiary enrolment	
	Quality	
3.1.3	Tertiary education expenditure54.55	
.1.4	Reading, maths, and science	r
.1.5	University ranking	
1.2	Lifelong Learning	1
.2.1	Business masters education	_
.2.2	Prevalence of training in firms	r 1
1.2.3	Access to Growth Opportunities 33.21	
	Empowerment 33.21	
3.3.1	Delegation of authority	1
.3.2	Youth inclusion	'
	Collaboration	
.3.3	Use of virtual social networks	
.3.4	Use of virtual professional networksn/a	r
	RETAIN38.70	1
L1	Sustainability	
.1.1	Pension coverage	
.1.2	Social protection	
.1.3	Brain retention	1
.1.4	Environmental performance	
.1.5	Vulnerable employment56.35	
.2	Lifestyle	1
1.2.1	Personal rights21.79	1
1.2.2	Personal safety39.33	1
.2.3	Physician density	
.2.4	Janitation	
;	VOCATIONAL AND TECHNICAL SKILLS 36.98	
.1	Mid-Level Skills	
.1.1	Workforce with secondary education	
.1.2	Population with secondary education34.99	
.1.3	Technicians and associate professionals22.50	
.1.4	Labour productivity per employee30.37	
.2	Employability44.48	1
.2.1	Ease of finding skilled employees	1
.2.2	Relevance of education system to the economy14.05	1
.2.3	Skills matching	1
.2.4	Highly educated unemployment	1
5	GLOBAL KNOWLEDGE SKILLS	
.1	High-Level Skills	
.1.1	Workforce with tertiary education	
.1.2	Population with tertiary education	
.1.3	Professionals	
.1.4	Researchers	
.1.5	Senior officials and managers	
.1.6	Digital skills4.10	
.2	Talent Impact23.63	
.2.1	Innovation output	
.2.2	High-value exports	1
.2.3	Software development	1
	New business density	
.2.4	Scientific journal articles	

#### **IRELAND**

Rank (out of 134)
Income group
Regional groupEurope
Population (millions)
GTCI 2023 Country Profile by Pillar
Enable

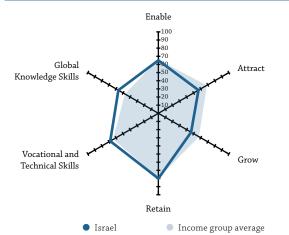


	Score	Rank
1	ENABLE 68.24	20
1.1	Regulatory Landscape82.93	13
1.1.1	Government effectiveness	13
1.1.2	Rule of law	16
1.1.3	Political stability83.45	24
1.1.4	Regulatory quality82.64	13
1.1.5	Corruption	10
1.2	Market Landscape	40
1.2.1	Extent of market dominance	37
1.2.2	Domestic credit to private sector32.32	99
1.2.3	Cluster development65.31	33
1.2.4	R&D expenditure22.87	34
1.2.5	ICT infrastructure79.76	30
1.2.6	Urbanisation	69
1.3	Business and Labour Landscape	16
	Labour Market	
1.3.1	Labour rights	1
1.3.2	Labour-employer cooperation	11
	Management Practice	
1.3.3	Professional management	8
1.3.4	Relationship of pay to productivity	20
	Technology Adoption	20
1.3.5	Enterprise software	74
1.3.6	Cloud computing	24
1.3.7	Firms with website	16
1.5.7	Timis war website	10
2	ATTRACT 80.38	5
2.1	External Openness	13
	Attract Business	
2.1.1	FDI regulatory restrictiveness	26
2.1.2	Financial globalisation	4
	Attract People	
2.1.3	Migrant stock	25
2.1.4	International students	28
2.1.5	Brain gain	16
2.2	Internal Openness	4
	Social Inclusion	
2.2.1	Tolerance of minorities	3
2.2.1	Tolerance of immigrants 93.85	6
2.2.3	Social mobility	24
۷.۷.۷	Gender Equality	24
2.2.4	Economic empowerment of women	1
2.2.5	Gender parity in high-skilled jobs	9
2.2.6	Leadership opportunities for women	18
	1 11	

	score (income group average)	
GTCI	score (income group average)	61.9
	Score	Ran
3	GROW	10
3.1	Formal Education54.37	2
	Enrolment	
3.1.1	Vocational enrolment	5
3.1.2	Tertiary enrolment	2
	Quality	
3.1.3 3.1.4	Tertiary education expenditure	1
3.1.4	University ranking	2
3.2	Lifelong Learning	1
3.2.1	Business masters education	1
3.2.2	Prevalence of training in firms74.24	
3.2.3	Employee development	
3.3	Access to Growth Opportunities80.24	
	Empowerment	
3.3.1	Delegation of authority	
3.3.2	Youth inclusion	1
	Collaboration	2
3.3.3 3.3.4	Use of virtual social networks	3
5.5.4	Use of virtual professional networks	
1	RETAIN	1
• 1.1	Sustainability	1
4.1.1	Pension coverage 100.00	
4.1.2	Social protection	1
4.1.3	Brain retention	1
1.1.4	Environmental performance	2
4.1.5	Vulnerable employment	3
4.2	Lifestyle	1
4.2.1	Personal rights98.15	
4.2.2	Personal safety92.92	
4.2.3	Physician density	2
1.2.4	Sanitation	7
5	VOCATIONAL AND TECHNICAL SKILLS	2
5.1	Mid-Level Skills	4
5.1.1	Workforce with secondary education	6
5.1.2	Population with secondary education47.89	4
5.1.3	Technicians and associate professionals	3
5.1.4	Labour productivity per employee	2
5.2	Employability78.04	1
5.2.1	Ease of finding skilled employees	3
5.2.2	Relevance of education system to the economy87.41	_
5.2.3 5.2.4	Skills matching	3 5
).2.4	riigiiiy educated dherripioyment	ر
<u> </u>	GLOBAL KNOWLEDGE SKILLS 56.27	1
5.1	High-Level Skills	1
5.1.1	Workforce with tertiary education	
5.1.2	Population with tertiary education	2
5.1.3	Professionals	1
5.1.4	Researchers	2
5.1.5	Senior officials and managers	1
5.1.6	Digital skills	3
5.2	Talent Impact	1
5.2.1	Innovation output	1
5.2.2	Software development	1
5.2.3 5.2.4	New business density	2
	Scientific journal articles	1
5.2.5		
5.2.5	,	

#### **ISRAEL**

Rank (out of 134)
Income group
Regional group
Population (millions)
GTCI 2023 Country Profile by Pillar

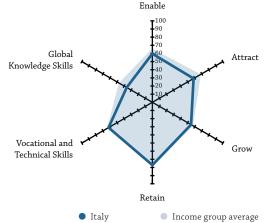


	Score	Rank
1	ENABLE 65.04	24
1.1	Regulatory Landscape	36
1.1.1	Government effectiveness	22
1.1.2	Rule of law	28
1.1.3	Political stability	119
1.1.4	Regulatory quality	25
1.1.5	Corruption	25
1.2	Market Landscape	15
1.2.1	Extent of market dominance	67
1.2.2	Domestic credit to private sector55.70	46
1.2.3	Cluster development	36
1.2.4	R&D expenditure	1
1.2.5	ICT infrastructure	39
1.2.6	Urbanisation91.28	8
1.3	Business and Labour Landscape	23
	Labour Market	
1.3.1	Labour rights	1
1.3.2	Labour-employer cooperation	30
1.5.2	Management Practice	50
1.3.3	Professional management	20
1.3.4	Relationship of pay to productivity	39
1.5.4	Technology Adoption	35
1.3.5	Enterprise software40.16	30
1.3.6	Cloud computing	29
1.3.7	Firms with website	49
2	ATTRACT	44
2.1	External Openness	39
	Attract Business	
2.1.1	FDI regulatory restrictiveness	55
2.1.2	Financial globalisation	60
2.1.3	Attract People Migrant stock	9
2.1.3	International students	61
2.1.4	Brain gain	41
	9	
2.2	Internal Openness	61
2.2.1	Tolerance of minorities	84
2.2.2	Tolerance of immigrants27.69	122
2.2.3	Social mobility	37
2.2.4	Economic empowerment of women	78
2.2.5	Gender parity in high-skilled jobs	22
2.2.6	Leadership opportunities for women	34

GDP	per capita (PPP US\$)	22.0
	score (income group average)	
	Score	Ran
3	GROW	43
3.1	Formal Education	34
	Enrolment	_
3.1.1 3.1.2	Vocational enrolment	30 5
3.1.2	Quality	ر
3.1.3	Tertiary education expenditure	4
3.1.4	Reading, maths, and science53.53	3
3.1.5	University ranking	3
3.2	Lifelong Learning	
3.2.1 3.2.2	Business masters education	5 8
3.2.2	Employee development	
3.3	Access to Growth Opportunities	
	Empowerment	
3.3.1	Delegation of authority	1
3.3.2	Youth inclusion	5
	Collaboration	
3.3.3 3.3.4	Use of virtual social networks	39
3.3.4	Use of virtual professional networks	20
_	DETAIN 00.00	-
<b>4</b> 4.1	RETAIN	<b>2</b> !
4.1.1	Sustainability	2
4.1.2	Social protection	3
4.1.3	Brain retention	2.
4.1.4	Environmental performance	4
4.1.5	Vulnerable employment	2.
4.2	Lifestyle	23
4.2.1 4.2.2	Personal rights	28 34
4.2.3	Physician density	3
4.2.4	Sanitation	1.
5	VOCATIONAL AND TECHNICAL SKILLS 68.22	13
5.1	Mid-Level Skills	28
5.1.1	Workforce with secondary education	2
5.1.2	Population with secondary education	42
5.1.3 5.1.4	Technicians and associate professionals	2:
5.1.4 5.2	Employability	1.
5.2.1	Ease of finding skilled employees	14
5.2.2	Relevance of education system to the economy	4
5.2.3	Skills matching	2
5.2.4	Highly educated unemployment	39
6	GLOBAL KNOWLEDGE SKILLS 56.69	14
6.1	High-Level Skills	
6.1.1	Workforce with tertiary education	3
6.1.2 6.1.3	Population with tertiary education	
6.1.4	Researchers	n/
6.1.5	Senior officials and managers	2
6.1.6	Digital skillsn/a	n/
5.2	Talent Impact	1
6.2.1	Innovation output	1
6.2.2	High-value exports	1
6.2.3 6.2.4	Software development	
	Scientific journal articles	
6.2.5		

#### **ITALY**

Rank (out of 134)	32
Income group	
Regional group	Europe
Population (millions)	58.86
GTCI 2023 Country Profile by Pillar	
Enable	
T100 +90 +80	



	Score	Rank
1	ENABLE59.65	29
1.1	Regulatory Landscape58.04	46
1.1.1	Government effectiveness	49
1.1.2	Rule of law52.46	51
1.1.3	Political stability	39
1.1.4	Regulatory quality56.25	44
1.1.5	Corruption	34
1.2	Market Landscape	22
1.2.1	Extent of market dominance72.91	13
1.2.2	Domestic credit to private sector58.35	39
1.2.3	Cluster development	12
1.2.4	R&D expenditure	26
1.2.5	ICT infrastructure	22
1.2.6	Urbanisation	52
1.3	Business and Labour Landscape	28
	Labour Market	
1.3.1	Labour rights	1
1.3.2	Labour-employer cooperation	76
1.5.2	Management Practice	, 0
1.3.3	Professional management	72
1.3.4	Relationship of pay to productivity	45
1.5.4	Technology Adoption	45
1.3.5	Enterprise software	38
1.3.6	Cloud computing	26
1.3.7	Firms with website	27
2	ATTRACT	40
2.1	External Openness	50
2.1	Attract Business	50
2.1.1	FDI regulatory restrictiveness	31
2.1.1	Financial globalisation	42
2.1.2	Attract People	42
2.1.3	Migrant stock	46
2.1.4	International students	69
2.1.5	Brain gain	97
2.1.3	Internal Openness	34
2.2	Social Inclusion	34
2.2.1	Tolerance of minorities	42
2.2.2	Tolerance of immigrants	37
2.2.3	Social mobility45.35	65
	Gender Equality	
2.2.4	Economic empowerment of women96.46	15
2.2.5	Gender parity in high-skilled jobs	63
2.2.6	Leadership opportunities for women	102

	per capita (PPP US\$)	
	scorescore (income group average)	
3101		
	Score	Ran
3	GROW	24
3.1	Formal Education	1
.1.1	Enrolment 50.05	1
.1.1	Tertiary enrolment	3
	Quality	,
3.1.3	Tertiary education expenditure	2
3.1.4	Reading, maths, and science58.33	3
3.1.5	University ranking	1
3.2	Lifelong Learning53.38	2
3.2.1	Business masters education	
3.2.2	Prevalence of training in firms	9
3.2.3	Employee development	4
3.3	Access to Growth Opportunities	4
3.3.1	Delegation of authority	4
3.3.2	Youth inclusion	7
	Collaboration	,
3.3.3	Use of virtual social networks	4
3.3.4	Use of virtual professional networks	3
	'	
1	RETAIN	3
• 4.1	Sustainability	3
4.1.1	Pension coverage	4
4.1.2	Social protection	4
4.1.3	Brain retention	9
1.1.4	Environmental performance	2
4.1.5	Vulnerable employment	5
4.2	Lifestyle	1
4.2.1	Personal rights	
4.2.2	Personal safety	2
4.2.3	Physician density65.16	2
1.2.4	Sanitation	1
5	VOCATIONAL AND TECHNICAL SKILLS62.10	3
5.1	Mid-Level Skills	2
5.1.1	Workforce with secondary education	3
5.1.2	Population with secondary education	3 1
5.1.4	Technicians and associate professionals	1
5.2	Employability	4
5.2.1	Ease of finding skilled employees	7
5.2.2	Relevance of education system to the economy57.79	4
5.2.3	Skills matching	3
5.2.4	Highly educated unemployment	7
5	GLOBAL KNOWLEDGE SKILLS	3
5.1	High-Level Skills	5
5.1.1	Workforce with tertiary education	6
5.1.2	Population with tertiary education	4
5.1.4	Researchers	3
5.1.5	Senior officials and managers	6
5.1.6	Digital skills	3
5.2	Talent Impact	2
5.2.1	Innovation output69.64	1
5.2.2	High-value exports	5
5.2.3	Software development	3
	New business density	4
5.2.4		
	Scientific journal articles	2

#### **JAMAICA**

ank (out of 134)			66
ncome group			
egional group opulation (millions)			
GTCI 2023 Country Profile by Pillar			
	Enable		
Global Knowledge Skills	100 90 80 70 60 50 40 20 110	Attract	
Vocational and Technical Skills		Grow	
	Retain		
<ul><li>Jamaica</li></ul>	• Inc	ome group average Score	Rank

1	ENABLE 49.54	50
1.1	Regulatory Landscape49.03	56
1.1.1	Government effectiveness	47
1.1.2	Rule of law	72
1.1.3	Political stability	51
1.1.4	Regulatory quality	58
1.1.5	Corruption	55
1.2	Market Landscape	63
1.2.1	Extent of market dominance	76
1.2.2	Domestic credit to private sector	65
1.2.3	Cluster development	81
1.2.4	R&D expendituren/a	n/a
1.2.5	ICT infrastructure	81
1.2.6	Urbanisation	88
1.3	Business and Labour Landscape	33
1.5	Labour Market	33
1.3.1	Labour rights	54
1.3.2	Labour-employer cooperation	79
1.3.2	Management Practice	79
1.3.3	Professional management	40
1.3.4	Relationship of pay to productivity	86
1.5.4		00
125	Technology Adoption	
1.3.5	Enterprise software	11
1.3.6	Cloud computing	49
1.3.7	Firms with website	n/a
2	ATTRACT53.69	55
<b>2</b> 2.1		<b>55</b>
_	External Openness	
2.1	External Openness	66
2.1.1	External Openness         46.17           Attract Business         FDI regulatory restrictiveness         .n/a	66 n/a
2.1.1	External Openness         46.17           Attract Business         FDI regulatory restrictiveness         .n/a           Financial globalisation         .75.72	66
2.1.1 2.1.1 2.1.2	External Openness 46.17 Attract Business FDI regulatory restrictivenessn/a Financial globalisation75.72 Attract People	66 n/a 35
2.1.1 2.1.1 2.1.2 2.1.3	External Openness 46.17 Attract Business FDI regulatory restrictivenessn/a Financial globalisation75.72 Attract People Migrant stock11.41	66 n/a 35
2.1.1 2.1.1 2.1.2 2.1.3 2.1.4	External Openness 46.17 Attract Business FDI regulatory restrictivenessn/a Financial globalisation75.72 Attract People Migrant stock11.41 International studentsn/a	66 n/a 35 120 n/a
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5	External Openness         46.17           Attract Business         FDI regulatory restrictiveness        n/a           Financial globalisation         .75.72           Attract People         Migrant stock         .11.41           International students         .n/a           Brain gain         .51.39	66 n/a 35 120 n/a 56
2.1.1 2.1.2 2.1.2 2.1.3 2.1.4	External Openness         46.17           Attract Business         FDI regulatory restrictiveness         .n/a           Financial globalisation         .75.72           Attract People         Migrant stock         .11.41           International students         .n/a           Brain gain         .51.39           Internal Openness         .61.20	66 n/a 35 120 n/a
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2	External Openness         46.17           Attract Business         .n/a           FDI regulatory restrictiveness         .n/a           Financial globalisation         .75.72           Attract People	66 n/a 35 120 n/a 56 45
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2	External Openness         46.17           Attract Business         .n/a           FDI regulatory restrictiveness         .n/a           Financial globalisation         .75.72           Attract People         .11.41           International students         .n/a           Brain gain         .51.39           Internal Openness         .61.20           Social Inclusion           Tolerance of minorities         .82.98	66 n/a 35 120 n/a 56 45
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2	External Openness         46.17           Attract Business         FDI regulatory restrictiveness         .n/a           Financial globalisation         .75.72           Attract People         Migrant stock         .11.41           International students         .n/a           Brain gain         .51.39           Internal Openness         .61.20           Social Inclusion           Tolerance of minorities         .82.98           Tolerance of immigrants         .84.62	66 n/a 35 120 n/a 56 45 6
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5	External Openness         46.17           Attract Business         FDI regulatory restrictiveness         .n/a           Financial globalisation         .75.72           Attract People	66 n/a 35 120 n/a 56 45
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.1	External Openness         46.17           Attract Business         FDI regulatory restrictiveness           FDI regulatory restrictiveness        n/a           Financial globalisation         .75.72           Attract People         Migrant stock         .11.41           International students        n/a           Brain gain         .51.39           Internal Openness         .61.20           Social Inclusion         .82.98           Tolerance of minorities         .82.98           Tolerance of immigrants         .84.62           Social mobility         .40.02           Gender Equality	66 n/a 35 120 n/a 56 45 6 16 82
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3 2.2.4	External Openness         46.17           Attract Business         FDI regulatory restrictiveness         .n/a           Financial globalisation         .75.72           Attract People         Migrant stock         .11.41           International students         .n/a           Brain gain         .51.39           Internal Openness         .61.20           Social Inclusion         .82.98           Tolerance of minorities         .82.98           Tolerance of immigrants         .84.62           Social mobility         .40.02           Gender Equality         Economic empowerment of women         .63.72	66 n/a 35 120 n/a 56 45 6 16 82
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3	External Openness         46.17           Attract Business         FDI regulatory restrictiveness           FDI regulatory restrictiveness        n/a           Financial globalisation         .75.72           Attract People         Migrant stock         .11.41           International students        n/a           Brain gain         .51.39           Internal Openness         .61.20           Social Inclusion         .82.98           Tolerance of minorities         .82.98           Tolerance of immigrants         .84.62           Social mobility         .40.02           Gender Equality	66 n/a 35 120 n/a 56 45 6 16 82

	per capita (PPP US\$)	
GTCI	score	43.5
GTCI	score (income group average)	43.5
	Score	Ranl
3	GROW31.73	81
3.1	Formal Education	83
	Enrolment	
3.1.1 3.1.2	Vocational enrolment	n/a 88
5.1.2	Tertiary enrolment	00
3.1.3	Tertiary education expenditure	70
3.1.4	Reading, maths, and science	n/
3.1.5	University ranking	7
3.2	Lifelong Learning	11
3.2.1 3.2.2	Business masters education	5 n/
3.2.3	Prevalence of training in firms	8
3.3	Access to Growth Opportunities	6
	Empowerment	
3.3.1	Delegation of authority	3
3.3.2	Youth inclusion	9
	Collaboration	
3.3.3	Use of virtual social networks	8
3.3.4	Use of virtual professional networks	3
<b>4</b> 4.1	RETAIN	7
+. I 4.1.1	Sustainability	8
4.1.2	Social protection	8
4.1.3	Brain retention	7
4.1.4	Environmental performance	5
4.1.5	Vulnerable employment	8
4.2	Lifestyle	6
4.2.1 4.2.2	Personal rights         .86.98           Personal safety         .69.27	4 5
4.2.3	Physician density	10
4.2.4	Sanitation	8
5	VOCATIONAL AND TECHNICAL SKILLS51.30	5
5.1	Mid-Level Skills	7
5.1.1	Workforce with secondary education	2
5.1.2	Population with secondary educationn/a	n/
5.1.3	Technicians and associate professionals	7
5.1.4	Labour productivity per employee	9
5.2.1	Ease of finding skilled employees	6
5.2.2	Relevance of education system to the economy53.06	4
5.2.3	Skills matching86.42	
5.2.4	Highly educated unemployment	_
5	GLOBAL KNOWLEDGE SKILLS21.75	7
5.1	High-Level Skills	6
5.1.1 5.1.2	Workforce with tertiary education	3
5.1.3	Professionals	n,
5.1.4	Researchers	n,
5.1.5	Senior officials and managers	2
5.1.6	Digital skills4.70	7
5.2	Talent Impact	8
5.2.1 5.2.2	Innovation output	-
5.2.3	High-value exports	9
5.2.4	New business density	6
		-

#### **JAPAN**

Key Indicators

2.2.4

2.2.5

Gender Equality

_		•	26			
	(out of 134)				per capita (PPP US\$)	
	ne group	•			(US\$ billions)	
-	onal group Eastern, Southeastern Asia a				score	
Popu	lation (millions)	1	25.12	GTCI	score (income group average)	61.91
GT	CI 2023 Country Profile by Pillar				Score	Rank
	Enable			3	GROW 56.32	21
	<b>L</b> 100 <b>1</b> 90			3.1	Formal Education	18
	80			3.1.1	Vocational enrolment	65
	Global 60 Attra	act		3.1.2	Tertiary enrolment	47
Kno	owledge Skills	act		3.1.3	Quality Tertiary education expenditure71.37	35
	30			3.1.4	Reading, maths, and science	4
	$\int_{10}^{20}$			3.1.5	University ranking	7
				3.2	Lifelong Learning	20
				3.2.1	Business masters education	26
				3.2.2	Prevalence of training in firms	n/a
17	ocational and			3.2.3	Employee development	31
	echnical Skills Grov	N		3.3	Access to Growth Opportunities55.67	43
10					Empowerment	
	†			3.3.1	Delegation of authority50.32	57
	•			3.3.2	Youth inclusion	1
	Retain			2.2.2	Collaboration	
	<ul> <li>Japan</li> <li>Income group avera</li> </ul>	ισе		3.3.3	Use of virtual social networks	44
	• bapan • meome group avera			3.3.4	Use of virtual professional networks	120
		Score	Rank	4	RETAIN	23
1	ENABLE		9	4.1	Sustainability	22
1.1	Regulatory Landscape		16	4.1.1	Pension coverage	1
1.1.1	Government effectiveness		16	4.1.2	Social protection	29
1.1.2	Rule of law		15	4.1.3	Brain retention	40
1.1.3	Political stability.		10 18	4.1.4	Environmental performance	25
1.1.4 1.1.5	Regulatory quality  Corruption		17	4.1.5	Vulnerable employment	21
1.2	Market Landscape		3	4.2	Lifestyle	22
1.2.1	Extent of market dominance		5	4.2.1	Personal rights	7
1.2.2	Domestic credit to private sector		3	4.2.2	Personal safety	2
1.2.3	Cluster development		19	4.2.3	Physician density40.99	59
1.2.4	R&D expenditure	61.08	6	4.2.4	Sanitation	15
1.2.5	ICT infrastructure		8			
1.2.6	Urbanisation		10	5	VOCATIONAL AND TECHNICAL SKILLS59.04	39
1.3	Business and Labour Landscape	66.94	18	5.1	Mid-Level Skills69.08	5
1 2 1	Labour Market	05.10	F1	5.1.1	Workforce with secondary education	31
1.3.1	Labour rights		51 5	5.1.2	Population with secondary education	n/a
1.5.2	Management Practice	0/.10	Э	5.1.3	Technicians and associate professionals	1
1.3.3	Professional management	76 30	19	5.1.4 5.2	Labour productivity per employee	37 93
1.3.4	Relationship of pay to productivity		59	5.2 5.2.1	Employability	93 71
	Technology Adoption			5.2.2	Relevance of education system to the economy	57
1.3.5	Enterprise software	56.73	17	5.2.3	Skills matching	n/a
1.3.6	Cloud computing	39.90	20	5.2.4	Highly educated unemploymentn/a	n/a
1.3.7	Firms with website	n/a	n/a			
	ATTRACT	F7 F1	43	6	GLOBAL KNOWLEDGE SKILLS40.31	33
<b>2</b> 2.1	ATTRACT		<b>42</b>	6.1	High-Level Skills	38
۷.1	External Openness	۲۱.۱۷	53	6.1.1	Workforce with tertiary education	8
2.1.1	FDI regulatory restrictiveness	87.03	31	6.1.2 6.1.3	Population with tertiary education	n/a 33
2.1.2	Financial globalisation		47	6.1.4	Researchers	13
_	Attract People			6.1.5	Senior officials and managers	101
2.1.3	Migrant stock	25.78	95	6.1.6	Digital skills	64
2.1.4	International students	20.80	45	6.2	Talent Impact42.79	35
2.1.5	Brain gain	50.15	61	6.2.1	Innovation output73.76	12
2.2	Internal Openness	63.93	35	6.2.2	High-value exports32.41	26
	Social Inclusion			6.2.3	Software development	36
2.2.1	Tolerance of minorities		9	6.2.4	New business density	101
2.2.2	Tolerance of immigrants		72	6.2.5	Scientific journal articles	36
2.2.3	Social mobility	/4.68	20			

86

67

#### **JORDAN**

Key Inc	licators			
Rank	(out of 134)	70	GDP	per capita (PPP US\$)
	ne group Lower-middle in	come		(US\$ billions)
	nal groupNorthern Africa and Western			score
	lation (millions)			score (income group ave
-		11.29	GICI	score (income group aver
GT	CI 2023 Country Profile by Pillar			CDOW/
	Enable		<b>3</b> 3.1	<b>GROW</b> Formal Education
	<b>T</b> 100		5.1	Enrolment
	<b>+</b> 90 <b>+</b> 80		3.1.1	Vocational enrolment
	<b>1</b> 70		3.1.2	Tertiary enrolment
	Global 60 Attract			Quality
Kno	wledge Skills		3.1.3	Tertiary education expenditu
	130		3.1.4	Reading, maths, and science
	10		3.1.5	University ranking
	/ <b>*</b> /		3.2	Lifelong Learning
			3.2.1	Business masters education.
			3.2.2	Prevalence of training in firm
V	ocational and Grow		3.2.3	Employee development
Τe	chnical Skills		3.3	Access to Growth Opportu
	+		2.21	Empowerment
	İ		3.3.1 3.3.2	Delegation of authority Youth inclusion
	Retain		3.3.2	Collaboration
	Ketain		3.3.3	Use of virtual social network
	<ul> <li>Jordan</li> <li>Income group average</li> </ul>		3.3.4	Use of virtual professional ne
	Score	Rank		·
	ENABLE	45	4	RETAIN
.1	Regulatory Landscape	58	4.1	Sustainability
.1.1	Government effectiveness	58	4.1.1	Pension coverage
.1.2	Rule of law50.95	54	4.1.2 4.1.3	Social protection Brain retention
.1.3	Political stability54.00	80	4.1.3	Environmental performance
.1.4	Regulatory quality	62	4.1.5	Vulnerable employment
1.5	Corruption	49	4.2	Lifestyle
2	Market Landscape	28	4.2.1	Personal rights
.2.1	Extent of market dominance	22	4.2.2	Personal safety
.2.2 .2.3	Domestic credit to private sector	33 26	4.2.3	Physician density
.2.3 .2.4	R&D expenditure	49	4.2.4	Sanitation
.2.5	ICT infrastructure	98		
.2.6	Urbanisation	13	5	VOCATIONAL AND TECH
.3	Business and Labour Landscape	40	<b>5</b> .1	Mid-Level Skills
	Labour Market		5.1.1	Workforce with secondary e
3.1	Labour rights	n/a	5.1.1	Population with secondary e
.3.2	Labour-employer cooperation	46	5.1.3	Technicians and associate pr
	Management Practice		5.1.4	Labour productivity per emp
.3.3	Professional management59.37	48	5.2	Employability
3.4	Relationship of pay to productivity	35	5.2.1	Ease of finding skilled emplo
	Technology Adoption		5.2.2	Relevance of education syste
3.5	Enterprise software	42	5.2.3	Skills matching
.3.6	Cloud computing	63	5.2.4	Highly educated unemployr
.3.7	Firms with website	24		

1.3.1	Labour rightsn/a	n/a
1.3.2	Labour-employer cooperation	40
1.3.3	Professional management59.37	48
1.3.4	Relationship of pay to productivity	3.
1.3.5	Enterprise software	4
1.3.6	Cloud computing16.64	6
1.3.7	Firms with website	24
2	ATTRACT	7
2.1	External Openness	4.
2.1.1	FDI regulatory restrictiveness	7.
2.1.2	Financial globalisation	7
2.1.3	Migrant stock	13
2.1.4	International students	20
2.1.5	Brain gain	6.
2.2	Internal Openness	115
2.2.1	Tolerance of minorities	113
2.2.2	Tolerance of immigrants	7:
2.2.3	Social mobility	60
2.2.4	Economic empowerment of women24.78	129
2.2.5	Gender parity in high-skilled jobs	100
2.2.6	Leadership opportunities for women	32

GDP	per capita (PPP US\$)	
	score	
	score (income group average)	
	Score	Ran
<u> </u>	GROW	8
1.1	Formal Education. 20.11	9
	Enrolment	
.1.1	Vocational enrolment	10
.1.2	Tertiary enrolment	8
	Quality	
.1.3	Tertiary education expenditure24.72	10
.1.4	Reading, maths, and science	5
.1.5	University ranking16.31	6
.2	Lifelong Learning	6
.2.1	Business masters education	4
.2.2	Prevalence of training in firms	8
i.2.3	Employee development	8
.5	Empowerment	0
.3.1	Delegation of authority	5
.3.2	Youth inclusion	11
.5.2	Collaboration	
.3.3	Use of virtual social networks	8
.3.4	Use of virtual professional networks	6
	RETAIN 60.02	6
.1	Sustainability55.97	6
.1.1	Pension coverage	8
.1.2	Social protection58.47	5
.1.3	Brain retention	5
.1.4	Environmental performance	6
.1.5	Vulnerable employment	2
.2	Lifestyle	6
.2.1	Personal rights         53.35           Personal safety         66.75	5
.2.3	Physician density	6
.2.4	Sanitation	5
i .1	VOCATIONAL AND TECHNICAL SKILLS         .42.13           Mid-Level Skills         .27.28	<b>7</b> 8
.1.1	Workforce with secondary education	9
.1.2	Population with secondary education	5
.1.3	Technicians and associate professionals	ç
.1.4	Labour productivity per employee24.85	6
.2	Employability56.98	7
.2.1	Ease of finding skilled employees	1
.2.2	Relevance of education system to the economy63.28	2
.2.3	Skills matching	8
.2.4	Highly educated unemployment	11
	GLOBAL KNOWLEDGE SKILLS21.25	8
	High-Level Skills	7
	Workforce with tertiary education	6
		4
1.1	Population with tertiary education29.13	
.1.1 .1.2 .1.3	Professionals	3
.1.1 .1.2 .1.3 .1.4	Professionals 42.14 Researchers 6.73	6
.1.1 .1.2 .1.3 .1.4 .1.5	Professionals         42.14           Researchers         6.73           Senior officials and managers         0.97	12 12
1.1 1.2 1.3 1.4 1.5	Professionals         .42.14           Researchers         .6.73           Senior officials and managers         0.97           Digital skills         .n/a	12 n,
.1.1 .1.2 .1.3 .1.4 .1.5 .1.6	Professionals         .42.14           Researchers         .6.73           Senior officials and managers         0.97           Digital skills         .n/a           Talent Impact         .20.74	6 12 n, 8
.1.1 .1.2 .1.3 .1.4 .1.5 .1.6 .2	Professionals         .42.14           Researchers         .6.73           Senior officials and managers         0.97           Digital skills         .n/a           Talent Impact         .20.74           Innovation output         .27.06	6 12 n, 8 7
1.1 1.2 1.3 1.4 1.5 1.6 2 2.1 2.2	Professionals         .42.14           Researchers         6.73           Senior officials and managers         0.97           Digital skills         .n/a           Talent Impact         20.74           Innovation output         27.06           High-value exports         2.61	6 12 n, 8 7 10
.1 .1.1 .1.2 .1.3 .1.4 .1.5 .1.6 .2 .2.1 .2.2	Professionals         .42.14           Researchers         .6.73           Senior officials and managers         0.97           Digital skills         .n/a           Talent Impact         .20.74           Innovation output         .27.06	3 6 12 n, 8 7 10 6

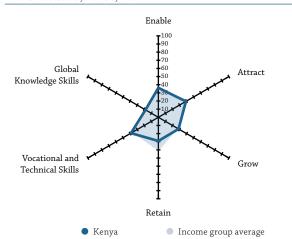
### **KAZAKHSTAN**

Incon Regio	(out of 134).  ne group	e ind	Asia	GDP GTCI	per capita (PPP US\$)	<b>2</b> 2	20.62 43.01
GT	CI 2023 Country Profile by Pillar				S	core	Rank
				3	GROW35	.65	70
	Enable			3.1	Formal Education		58
	<b>T</b> <sup>100</sup>				Enrolment		
	<b>+</b> 90			3.1.1	Vocational enrolment	5.05	69
	70			3.1.2	Tertiary enrolment	6.34	34
17	Global 60 Attract				Quality		
Kno	wledge Skills			3.1.3	Tertiary education expenditure		83
	20			3.1.4	Reading, maths, and science		63
	10			3.1.5	University ranking		33
				3.2	Lifelong Learning		103
				3.2.1	Business masters education		46
				3.2.2 3.2.3	Prevalence of training in firms		74 120
	ocational and Grow			3.2.3	Access to Growth Opportunities		71
Te	chnical Skills			5.5	Empowerment	0.02	7.1
	İ			3.3.1	Delegation of authority	3.46	97
	I			3.3.2	Youth inclusion		21
	Retain				Collaboration		
	• W 11			3.3.3	Use of virtual social networks	6.52	78
	<ul> <li>Kazakhstan</li> <li>Income group average</li> </ul>			3.3.4	Use of virtual professional networks	9.63	96
	Sc	core	Rank				
				4	RETAIN63	.42	54
1	ENABLE		93	4.1	Sustainability		55
1.1	Regulatory Landscape		76	4.1.1	Pension coverage9		41
1.1.1 1.1.2	Government effectiveness		62 94	4.1.2	Social protection5		68
1.1.2	Political stability		78	4.1.3	Brain retention	5.05	76
1.1.4	Regulatory quality		65	4.1.4	Environmental performance		70
1.1.5	Corruption		81	4.1.5	Vulnerable employment		59
1.2	Market Landscape		101	4.2	Lifestyle		56
1.2.1	Extent of market dominance		104	4.2.1	Personal rights		104
1.2.2	Domestic credit to private sector	0.20	103	4.2.2 4.2.3	Personal safety		63
1.2.3	Cluster development		122	4.2.3	Physician density		25 50
1.2.4	R&D expenditure		101	4.2.4	Satillation	7.00	50
1.2.5	ICT infrastructure		48				
1.2.6 1.3	Urbanisation		81 101	5	VOCATIONAL AND TECHNICAL SKILLS 26		122
1.5	Labour Market	3.04	101	5.1	Mid-Level Skills		79
1.3.1	Labour rights	9 57	76	5.1.1	Workforce with secondary education		104
1.3.2	Labour-employer cooperation		106	5.1.2 5.1.3	Population with secondary education		58 59
	Management Practice			5.1.4	Labour productivity per employee		50
1.3.3	Professional management	2.98	119	5.2	Employability		132
1.3.4	Relationship of pay to productivity49	9.54	79	5.2.1	Ease of finding skilled employees		91
	Technology Adoption			5.2.2	Relevance of education system to the economy2	2.91	105
1.3.5	Enterprise software		81	5.2.3	Skills matching		n/a
1.3.6 1.3.7	Cloud computing		76 65	5.2.4	Highly educated unemployment	0.44	123
				6	GLOBAL KNOWLEDGE SKILLS 42	2.27	30
2	ATTRACT53		56	6.1	High-Level Skills		14
2.1	External Openness	7.52	35	6.1.1	Workforce with tertiary education		1
2.1.1	Attract Business FDI regulatory restrictiveness	154	53	6.1.2	Population with tertiary education		1
2.1.1	Financial globalisation		55 44	6.1.3 6.1.4	Professionals		21 63
	Attract People			6.1.5	Senior officials and managers		37
2.1.3	Migrant stock	3.49	16	6.1.6	Digital skills		32
2.1.4	International students19		46	6.2	Talent Impact		53
2.1.5	Brain gain50	0.97	57	6.2.1	Innovation output1		96
2.2	Internal Openness	9.51	89	6.2.2	High-value exports5		8
	Social Inclusion		40:	6.2.3	Software development5		82
2.2.1	Tolerance of immigrants		104	6.2.4	New business density		40
2.2.2	Tolerance of immigrants		95 51	6.2.5	Scientific journal articles	J.YU	73
	Gender Equality						
2.2.4	Economic empowerment of women		96 85				
2.2.5							

#### **KENYA**

Rank (out of 134)	8
Income group Lower-middle income	ome
Regional group	rica
Population (millions)	1.03

GTCI 2023 Country Profile by Pillar



	Score	Rank
1	ENABLE36.21	95
1.1	Regulatory Landscape30.70	104
1.1.1	Government effectiveness	90
1.1.2	Rule of law	87
1.1.3	Political stability	120
1.1.4	Regulatory quality	95
1.1.5	Corruption	102
1.2	Market Landscape	92
1.2.1	Extent of market dominance	99
1.2.2	Domestic credit to private sector	94
1.2.3	Cluster development	69
1.2.4	R&D expenditure	n/a
1.2.5	ICT infrastructure	68
1.2.6	Urbanisation	124
1.3	Business and Labour Landscape. 40.78	81
1.5	· · · · · · · · · · · · · · · · · · ·	01
	Labour Market	,
1.3.1	Labour rightsn/a	n/a
1.3.2	Labour-employer cooperation	91
	Management Practice	
1.3.3	Professional management	58
1.3.4	Relationship of pay to productivity	94
	Technology Adoption	
1.3.5	Enterprise software	70
1.3.6	Cloud computing	15
1.3.7	Firms with website	72
2	ATTRACT39.03	105
2.1		117
2.1	External Openness	117
	Attract Business	,
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation	129
2.1.3	Migrant stock	87
2.1.4	International students	85
2.1.5	Brain gain	35
2.1.3	Internal Openness	83
2.2	the state of the s	03
	Social Inclusion	
2.2.1	Tolerance of minorities	106
2.2.2	Tolerance of immigrants	48
2.2.3	Social mobility	87
	Gender Equality	
2.2.4	Economic empowerment of women72.57	78
2.2.5	Gender parity in high-skilled jobs	70
2.2.6	Leadership opportunities for women	94

	(US\$ billions)1	
	score	
GTCI	score (income group average)	32.0
	Score	Rai
3	GROW	9
3.1	Formal Education. 19.09	
.1.1	Enrolment Vocational enrolment	r
.1.2	Tertiary enrolment	
	Quality	
.1.3	Tertiary education expenditure	
.1.4 .1.5	Reading, maths, and science	
.1.5	Lifelong Learning	
.2.1	Business masters education	
.2.2	Prevalence of training in firms	
.2.3	Employee development	
.3	Access to Growth Opportunities	
.3.1	Delegation of authority	
.3.2	Youth inclusion	
	Collaboration	
.3.3	Use of virtual social networks	
.3.4	Use of virtual professional networks	
	RETAIN	1
.1	Sustainability	
.1.1	Pension coverage	
.1.2	Social protection	
.1.3	Brain retention	
.1.4	Environmental performance	1
.1.5	Vulnerable employment	1
.2	Lifestyle	
.2.1	Personal rights	
.2.2	Personal safety	
.2.4	Sanitation	
	VOCATIONAL AND TECHNICAL SKILLS	
.1	Mid-Level Skills	
.1.1 .1.2	Workforce with secondary education	
.1.2	Technicians and associate professionals8.01	
.1.4	Labour productivity per employee	
.2	Employability	
.2.1	Ease of finding skilled employees82.32	
.2.2	Relevance of education system to the economy	
.2.3	Skills matching49.77	
.2.4	Highly educated unemployment	
	GLOBAL KNOWLEDGE SKILLS	
.1	High-Level Skills	
.1.1	Workforce with tertiary education	1
.1.2	Population with tertiary educationn/a	
.1.3	Professionals	
.1.4	Researchers	
.1.5 .1.6	Senior officials and managers	
.1.6 .2	Digital skills	
.2 .2.1	Innovation output	
.2.1	High-value exports	
.2.2	Software development	
.2.4	New business density	

# KOREA, REP.

ncon	ne group	High in	come		(US\$ billions)	
_	nal group <b>Eastern, Southeaste</b>			GTCI	score	62.2
opul	ation (millions)	5	51.63	GTCI	score (income group average)	61.9
GT	El 2023 Country Profile by Pillar				Score	Ran
	Enable			3	GROW51.98	
	<b>∓</b> 100			3.1	Formal Education	1
	<b>-</b> 90			211	Enrolment	-
	‡80 70			3.1.1 3.1.2	Vocational enrolment	7
	Global	. Attract		J.1.2	Quality	
Kno	wledge Skills	Arra Caraca		3.1.3	Tertiary education expenditure	4
				3.1.4	Reading, maths, and science	
	120			3.1.5	University ranking	
	<b>**</b>			3.2	Lifelong Learning44.71	
				3.2.1	Business masters education	
	t /	•		3.2.2	Prevalence of training in firms	
Vo	ocational and	Grow		3.2.3	Employee development	
Te	chnical Skills	Glow		3.3	Access to Growth Opportunities	
	¥			3.3.1	Empowerment Delegation of authority	
	İ			3.3.2	Youth inclusion	
	Retain			2.2.2	Collaboration	
				3.3.3	Use of virtual social networks	
	<ul><li>Korea, Rep.</li><li>Income</li></ul>	group average		3.3.4	Use of virtual professional networks	
		Score	Rank			
	ENABLE	65.88	21	4	RETAIN77.88	
	Regulatory Landscape	73.04	23	4.1	Sustainability	
	Government effectiveness	77.93	15	4.1.1	Pension coverage	
2	Rule of law		23	4.1.2 4.1.3	Social protection	
3	Political stability		34	4.1.4	Environmental performance	
	Regulatory quality		27	4.1.5	Vulnerable employment	
	Corruption		25	4.2	Lifestyle	
	Market Landscape		9 68	4.2.1	Personal rights94.55	
	Domestic credit to private sector		6	4.2.2	Personal safety93.31	
3	Cluster development.		21	4.2.3	Physician density39.29	
4	R&D expenditure		2	4.2.4	Sanitation	
5	ICT infrastructure	87.60	12			
6	Urbanisation		29	5	VOCATIONAL AND TECHNICAL SKILLS 62.93	
	Business and Labour Landscape	50.45	44	5.1	Mid-Level Skills	
-	Labour Market	,	,	5.1.1	Workforce with secondary education	
.1 .2	Labour rights		n/a 117	5.1.2	Population with secondary education50.86	
2	Labour-employer cooperation	24./ 1	117	5.1.3	Technicians and associate professionals	
.3	Professional management	52 78	62	5.1.4 5.2	Labour productivity per employee	
4	Relationship of pay to productivity		25	5.2.1	Employability	
	Technology Adoption			5.2.2	Relevance of education system to the economy	
.5	Enterprise software	46.78	23	5.2.3	Skills matching56.55	
6 7	Cloud computing		23 34	5.2.4	Highly educated unemployment91.07	
				6	GLOBAL KNOWLEDGE SKILLS	
	ATTRACT	52.58	59	6.1	High-Level Skills	
	External Openness	41.80	75	6.1.1	Workforce with tertiary education	
	Attract Business			6.1.2	Population with tertiary education	
1	FDI regulatory restrictiveness		59	6.1.3	Professionals	
2	Financial globalisation	49.88	91	6.1.4	Researchers	
,	Attract People	20.22	0.4	6.1.5	Senior officials and managers	
3 4	Migrant stock		84 58	6.1.6 6.2	Digital skills         .34.56           Talent Impact         .72.01	
5	Brain gain		59	6.2.1	Innovation output	
	Internal Openness		38	6.2.2	High-value exports	
	Social Inclusion			6.2.3	Software development	
.1	Tolerance of minorities		19	6.2.4	New business density	
2	Tolerance of immigrants		66	6.2.5	Scientific journal articles	
3	Social mobility	29.81	111			
4	Gender Equality	70.70	50			
	Economic empowerment of women		59			
	Gender parity in high-skilled jobs	05.05	12			

## **KUWAIT**

Key Indicators

Vocational and Technical Skills

		63
Rank (out of 134)		
Income group	Northern Af	rica and Western Asia
GTCI 2023 Country Profile by I	Pillar	
	Enable	
Global Knowledge Skills	100 -90 -80 -70 -60 -55 -40 -30	Attract

		Retain	
•	Kuwait	•	Income group average

	Score	Rank
1	ENABLE46.16	60
1.1	Regulatory Landscape48.79	57
1.1.1	Government effectiveness	72
1.1.2	Rule of law	52
1.1.3	Political stability	49
1.1.4	Regulatory quality	61
1.1.5	Corruption	63
1.2	Market Landscape54.11	38
1.2.1	Extent of market dominance	73
1.2.2	Domestic credit to private sector	36
1.2.3	Cluster development	39
1.2.4	R&D expenditure	91
1.2.5	ICT infrastructure	59
1.2.6	Urbanisation	1
1.3	Business and Labour Landscape	105
	Labour Market	
1.3.1	Labour rights	81
1.3.2	Labour-employer cooperation	68
1.5.2	Management Practice	00
1.3.3	Professional management	101
1.3.4	Relationship of pay to productivity	64
1.5.4	Technology Adoption	04
1.3.5	Enterprise software	122
1.3.5	Cloud computing	125
1.3.7	Firms with website	n/a
1.5./	THITIS WITH WEDSITE	11/4
2	ATTRACT	30
2.1	External Openness	6
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation	10
	Attract People	
2.1.3	Migrant stock	3
2.1.4	International students	n/a
2.1.5	Brain gain	50
2.2	Internal Openness	107
2.2	Social Inclusion	107
2.2.1	Tolerance of minorities	48
2.2.2	Tolerance of immigrants	47
2.2.3	Social mobility	75
	Gender Equality	, ,
2.2.4	Economic empowerment of women	132
2.2.5	Gender parity in high-skilled jobs	90
2.2.6	Leadership opportunities for women	98

	score (income group average)	
GICI	Score	Ran
<b>3</b> 3.1	<b>GROW</b>	<b>8</b> 4
5.1	Enrolment 18.48	9
3.1.1	Vocational enrolment	10
3.1.2	Tertiary enrolment	5
J	Quality	_
3.1.3	Tertiary education expenditure	n/
3.1.4	Reading, maths, and science	n/
3.1.5	University ranking	6
3.2	Lifelong Learning	10
3.2.1	Business masters education	5
3.2.2	Prevalence of training in firms	n/
3.2.3	Employee development	6
3.3	Access to Growth Opportunities	6
3.3.1	Empowerment Delegation of authority	8
3.3.2	Youth inclusion	n/
J.J.Z	Collaboration	11/
3.3.3	Use of virtual social networks	1
3.3.4	Use of virtual professional networks	4
4	RETAIN	6
4.1	Sustainability	6
4.1.1	Pension coverage	9
4.1.2 4.1.3	Social protection	5
4.1.3 4.1.4	Environmental performance	6
4.1.5	Vulnerable employment	
4.2	Lifestyle	5
4.2.1	Personal rights	ç
4.2.2	Personal safety73.78	4
4.2.3	Physician density35.87	6
4.2.4	Sanitation	
5	VOCATIONAL AND TECHNICAL SKILLS	7
5.1	Mid-Level Skills	6
5.1.1	Workforce with secondary education	11
5.1.2	Population with secondary education	7
5.1.3	Technicians and associate professionals	6
5.1.4	Labour productivity per employee	
5.2 5.2.1	Employability	2
5.2.1	Relevance of education system to the economy	7
5.2.3	Skills matching	n,
5.2.4	Highly educated unemployment	n,
5	GLOBAL KNOWLEDGE SKILLS	7
5.1 5.1.1	High-Level Skills	
6.1.2	Population with tertiary education	6
5.1.3	Professionals	6
5.1.4	Researchers	8
6.1.5	Senior officials and managers	5
6.1.6	Digital skills	
5.2	Talent Impact	7
6.2.1	Innovation output	6
5.2.2	High-value exports	10
5.2.3	Software development	2
6.2.4		

## **KYRGYZSTAN**

Incon Regio	(out of 134)         Lower-m           ne group         Lower-m           onal group         Central and S           lation (millions)	iddle in outhern	Asia	GDP GTCI	per capita (PPP US\$)	3	10.93 38.58
GT	CI 2023 Country Profile by Pillar				Sc	core	Rank
	n 11			3	GROW25	5.18	105
	Enable			3.1	Formal Education	5.00	111
	$\mathbf{I}_{90}^{100}$				Enrolment		
	<b>1</b> 80			3.1.1	Vocational enrolment	2.19	79
	Global 70			3.1.2	Tertiary enrolment	4.82	64
Kno	owledge Skills At	tract			Quality		
Idic	Wiedge oknis			3.1.3	Tertiary education expenditure		110
	20			3.1.4 3.1.5	Reading, maths, and science		n/a
	100			3.1.5	University ranking		76 107
				3.2.1	Business masters education		57
				3.2.1	Prevalence of training in firms		31
				3.2.3	Employee development		127
	ocational and Gr	ow		3.3	Access to Growth Opportunities		90
1'e	chnical Skills				Empowerment		
	‡			3.3.1	Delegation of authority	2.04	102
	1			3.3.2	Youth inclusion		53
	Retain				Collaboration		
	Kyrgyzstan     Income group ave	rage		3.3.3	Use of virtual social networks		99
	Kyrgyzstan	age		3.3.4	Use of virtual professional networks	4.30	114
		Score	Rank				
1	ENABLE	31.58	112	4	RETAIN 55	.40	76
1.1	Regulatory Landscape		112	4.1	Sustainability		78
1.1.1	Government effectiveness		109	4.1.1	Pension coverage		1
1.1.2	Rule of law		124	4.1.2	Social protection		88
1.1.3	Political stability	50.10	89	4.1.3	Brain retention		115
1.1.4	Regulatory quality	27.11	102	4.1.4 4.1.5	Environmental performance		92 75
1.1.5	Corruption		114	4.1.3	Lifestyle		69
1.2	Market Landscape		117	4.2.1	Personal rights		101
1.2.1	Extent of market dominance		91	4.2.2	Personal safety		64
1.2.2	Domestic credit to private sector		106 113	4.2.3	Physician density		72
1.2.4	R&D expenditure		106	4.2.4	Sanitation	7.68	49
1.2.5	ICT infrastructure.		96				
1.2.6	Urbanisation		114	5	VOCATIONAL AND TECHNICAL SKILLS 44	36	72
1.3	Business and Labour Landscape	41.44	76	5.1	Mid-Level Skills		64
	Labour Market			5.1.1	Workforce with secondary education		2
1.3.1	Labour rights		20	5.1.2	Population with secondary education	.n/a	n/a
1.3.2	Labour-employer cooperation	26.89	113	5.1.3	Technicians and associate professionals20		83
1 2 2	Management Practice	25.12	115	5.1.4	Labour productivity per employee		99
1.3.3 1.3.4	Professional management		115 48	5.2	Employability		90
1.5.1	Technology Adoption		10	5.2.1 5.2.2	Ease of finding skilled employees		89 101
1.3.5	Enterprise software	17.60	86	5.2.3	Skills matching		n/a
1.3.6	Cloud computing	10.32	98	5.2.4	Highly educated unemployment80		57
1.3.7	Firms with website	55.11	57				
				6	GLOBAL KNOWLEDGE SKILLS21	.08	81
2	ATTRACT	53.91	52	6.1	High-Level Skills		77
2.1	External Openness	55.59	41	6.1.1	Workforce with tertiary education		69
	Attract Business			6.1.2	Population with tertiary education		n/a
2.1.1	FDI regulatory restrictiveness		60	6.1.3	Professionals		64
2.1.2	Financial globalisation	52.48	87	6.1.4	Researchers		n/a
212	Attract People	20.62	70	6.1.5	Senior officials and managers		100
2.1.3	Migrant stock		70 7	6.1.6 6.2	Digital skills		n/a
2.1.5	Brain gain		90	6.2.1	Innovation output		82 104
2.2	Internal Openness		79	6.2.2	High-value exports		31
	Social Inclusion			6.2.3	Software development		71
2.2.1	Tolerance of minorities	15.96	113	6.2.4	New business density	5.84	79
2.2.2	Tolerance of immigrants		51	6.2.5	Scientific journal articles	1.07	103
2.2.3	Social mobility		61				
2.2.4	Economic empowerment of women		93				
2.2.5	Gender parity in high-skilled jobs	63.07	82				

L,	AO PDI	R				
Kev Inc	dicators					
Rank Incor	t (out of 134)ne groupEaster	Lower-middle in	eania	GDP GTCI	per capita (PPP US\$)	15.72 30.83
GT	CI 2023 Country Profile by Pillar				Score	Rank
		Enable T <sup>100</sup>		<b>3</b> 3.1	GROW	<b>115</b> 122
	Global	990 -800 -70 -60 -60 Attract		3.1.1 3.1.2	Vocational enrolment	115 105
Kno	owledge Skills	150 40 130		3.1.3 3.1.4	Tertiary education expenditure	101 n/a
	**	10		3.1.5 3.2	University ranking	76
	L			3.2.1	Lifelong Learning	102 57
	L. L. L. L. L. L. L. L. L. L. L. L. L. L			3.2.1	Prevalence of training in firms	67
	JANA,	<b>*</b>		3.2.2	Employee development	69
	ocational and	Grow		3.2.3	Access to Growth Opportunities 31.08	104
Te	echnical Skills	Į als		5.5	Empowerment	104
		†		3.3.1	Delegation of authority	90
		I		3.3.2	Youth inclusion	92
		Retain			Collaboration	94
	<ul> <li>Lao PDR</li> </ul>	<ul> <li>Income group average</li> </ul>		3.3.3 3.3.4	Use of virtual social networks	121
	- Edo i Ei		D 1	3.3.4	Use of virtual professional networks	121
1	ENADLE	Score	Rank	4	RETAIN	116
			86	4.1	Sustainability	115
1.1 1.1.1			88 102	4.1.1	Pension coverage5.35	125
1.1.2			102	4.1.2	Social protection	84
1.1.3			31	4.1.3	Brain retention	46
1.1.4			121	4.1.4	Environmental performance	109
1.1.5			104	4.1.5	Vulnerable employment	122
1.2			60	4.2	Lifestyle	114
1.2.1	·	52.24	41	4.2.1	Personal rights	132
1.2.2	Domestic credit to private se	ector	n/a	4.2.2	Personal safety	104
1.2.3		49.02	52	4.2.3	Physician density4.43	109
1.2.4	R&D expenditure	n/a	n/a	4.2.4	Sanitation77.47	93
1.2.5		60.21	73			
1.2.6		25.26	118	5	VOCATIONAL AND TECHNICAL SKILLS35.53	99
1.3		cape34.06	110	5.1	Mid-Level Skills	111
	Labour Market			5.1.1	Workforce with secondary education	106
1.3.1		n/a	n/a	5.1.2	Population with secondary educationn/a	n/a
1.3.2	Labour-employer cooperation	on	58	5.1.3	Technicians and associate professionals	123

	Enrolment
3.1.1	Vocational enrolment
3.1.2	Tertiary enrolment
	Quality
3.1.3	Tertiary education expenditure
3.1.4	Reading, maths, and science
3.1.5	University ranking0.00
3.2	Lifelong Learning26.00
3.2.1	Business masters education0.00
3.2.2	Prevalence of training in firms27.22
3.2.3	Employee development50.79
3.3	Access to Growth Opportunities
	Empowerment
3.3.1	Delegation of authority
3.3.2	Youth inclusion
	Collaboration
3.3.3	Use of virtual social networks
3.3.4	Use of virtual professional networks
4	RETAIN
4.1	Sustainability
4.1.1	Pension coverage5.35
4.1.2	Social protection
4.1.3	Brain retention
4.1.4	Environmental performance
4.1.5	Vulnerable employment
4.2	Lifestyle
4.2.1	Personal rights
4.2.2	Personal safety
4.2.3 4.2.4	Physician density
4.2.4	Sanitation
5	VOCATIONAL AND TECHNICAL SKILLS35.53
<b>5</b> 5.1	VOCATIONAL AND TECHNICAL SKILLS35.53Mid-Level Skills13.44
_	Mid-Level Skills
5.1 5.1.1 5.1.2	Mid-Level Skills     13.44       Workforce with secondary education     20.80       Population with secondary education     .n/a
5.1 5.1.1 5.1.2 5.1.3	Mid-Level Skills13.44Workforce with secondary education20.80Population with secondary education.n/aTechnicians and associate professionals6.08
5.1 5.1.1 5.1.2 5.1.3 5.1.4	Mid-Level Skills     13.44       Workforce with secondary education     20.80       Population with secondary education     .n/a       Technicians and associate professionals     6.08       Labour productivity per employee     .n/a
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2	Mid-Level Skills13.44Workforce with secondary education20.80Population with secondary education.n/aTechnicians and associate professionals6.08
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2	Mid-Level Skills         13.44           Workforce with secondary education         .20.80           Population with secondary education         .n/a           Technicians and associate professionals         .6.08           Labour productivity per employee         .n/a           Employability         .57.63           Ease of finding skilled employees         .56.49
5.1 5.1.1 5.1.2 5.1.3	Mid-Level Skills         13.44           Workforce with secondary education         .20.80           Population with secondary education         .n/a           Technicians and associate professionals         .6.08           Labour productivity per employee         .n/a           Employability         .57.63           Ease of finding skilled employees         .56.49           Relevance of education system to the economy         .47.05
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2 5.2.2	Mid-Level Skills         13.44           Workforce with secondary education         .20.80           Population with secondary education         .n/a           Technicians and associate professionals         .6.08           Labour productivity per employee         .n/a           Employability         57.63           Ease of finding skilled employees         .56.49           Relevance of education system to the economy         .47.05           Skills matching         .40.23
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2	Mid-Level Skills         13.44           Workforce with secondary education         20.80           Population with secondary education         n/a           Technicians and associate professionals         6.08           Labour productivity per employee         n/a           Employability         57.63           Ease of finding skilled employees         56.49           Relevance of education system to the economy         47.05
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2 5.2.2 5.2.3	Mid-Level Skills         13.44           Workforce with secondary education         20.80           Population with secondary education         .n/a           Technicians and associate professionals         6.08           Labour productivity per employee         .n/a           Employability         57.63           Ease of finding skilled employees         56.49           Relevance of education system to the economy         47.05           Skills matching         40.23
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2 5.2.2	Mid-Level Skills         13.44           Workforce with secondary education         .20.80           Population with secondary education         .n/a           Technicians and associate professionals         .6.08           Labour productivity per employee         .n/a           Employability         57.63           Ease of finding skilled employees         .56.49           Relevance of education system to the economy         .47.05           Skills matching         .40.23
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2 5.2.3 5.2.4	Mid-Level Skills     13.44       Workforce with secondary education     20.80       Population with secondary education     .n/a       Technicians and associate professionals     6.08       Labour productivity per employee     .n/a       Employability     57.63       Ease of finding skilled employees     .56.49       Relevance of education system to the economy     .47.05       Skills matching     .40.23       Highly educated unemployment     .86.73
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2 5.2.3 5.2.4	Mid-Level Skills         13.44           Workforce with secondary education         20.80           Population with secondary education         .n/a           Technicians and associate professionals         6.08           Labour productivity per employee         .n/a           Employability         57.63           Ease of finding skilled employees         56.49           Relevance of education system to the economy         47.05           Skills matching         40.23           Highly educated unemployment         86.73
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2 5.2.3 5.2.4	Mid-Level Skills         13.44           Workforce with secondary education         20.80           Population with secondary education         .n/a           Technicians and associate professionals         .6.08           Labour productivity per employee         .n/a           Employability         57.63           Ease of finding skilled employees         .56.49           Relevance of education system to the economy         .47.05           Skills matching         .40.23           Highly educated unemployment         .86.73           GLOBAL KNOWLEDGE SKILLS         18.69           High-Level Skills         .21.22
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2 5.2.3 5.2.4 <b>6</b> 6.1 6.1.1	Mid-Level Skills         13.44           Workforce with secondary education         20.80           Population with secondary education         .n/a           Technicians and associate professionals         6.08           Labour productivity per employee         .n/a           Employability         57.63           Ease of finding skilled employees         56.49           Relevance of education system to the economy         47.05           Skills matching         40.23           Highly educated unemployment         86.73           GLOBAL KNOWLEDGE SKILLS         18.69           High-Level Skills         21.22           Workforce with tertiary education         10.89
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2 5.2.3 5.2.4 <b>6</b> 6.1 6.1.1 6.1.2	Mid-Level Skills         13.44           Workforce with secondary education         20.80           Population with secondary education         .n/a           Technicians and associate professionals         6.08           Labour productivity per employee         .n/a           Employability         57.63           Ease of finding skilled employees         56.49           Relevance of education system to the economy         47.05           Skills matching         40.23           Highly educated unemployment         .86.73           GLOBAL KNOWLEDGE SKILLS         18.69           High-Level Skills         21.22           Workforce with tertiary education         10.89           Population with tertiary education         .n/a
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2 5.2.3 5.2.4 <b>6</b> 6.1 6.1.1 6.1.2 6.1.3	Mid-Level Skills         13.44           Workforce with secondary education         .20.80           Population with secondary education         .n/a           Technicians and associate professionals         .6.08           Labour productivity per employee         .n/a           Employability         .57.63           Ease of finding skilled employees         .56.49           Relevance of education system to the economy         .47.05           Skills matching         .40.23           Highly educated unemployment         .86.73           GLOBAL KNOWLEDGE SKILLS         18.69           High-Level Skills         .21.22           Workforce with tertiary education         .10.89           Population with tertiary education         .n/a           Professionals         .11.59
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2 5.2.3 5.2.4 <b>6</b> 6.1 6.1.1 6.1.2 6.1.3 6.1.4	Mid-Level Skills
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2 5.2.3 5.2.4 <b>6</b> 6.1 6.1.1 6.1.2 6.1.3 6.1.4 6.1.5	Mid-Level Skills
5.1 5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2 5.2.3 5.2.4 <b>6</b> 6.1.1 6.1.2 6.1.3 6.1.4 6.1.5 6.1.6	Mid-Level Skills         13.44           Workforce with secondary education         20.80           Population with secondary education         .n/a           Technicians and associate professionals         6.08           Labour productivity per employee         .n/a           Employability         57.63           Ease of finding skilled employees         .56.49           Relevance of education system to the economy         .47.05           Skills matching         .40.23           Highly educated unemployment         .86.73           GLOBAL KNOWLEDGE SKILLS         18.69           High-Level Skills         21.22           Workforce with tertiary education         10.89           Population with tertiary education         .n/a           Professionals         .11.59           Researchers         .n/a           Senior officials and managers         .41.18
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2 5.2.3 5.2.4 <b>6</b> 6.1 6.1.2 6.1.3 6.1.4 6.1.5 6.1.6 6.1.6	Mid-Level Skills         13.44           Workforce with secondary education         .20.80           Population with secondary education         .n/a           Technicians and associate professionals         .6.08           Labour productivity per employee         .n/a           Employability         .57.63           Ease of finding skilled employees         .56.49           Relevance of education system to the economy         .47.05           Skills matching         .40.23           Highly educated unemployment         .86.73           GLOBAL KNOWLEDGE SKILLS         18.69           High-Level Skills         .21.22           Workforce with tertiary education         .10.89           Population with tertiary education         .n/a           Professionals         .11.59           Researchers         .n/a           Senior officials and managers         .41.18           Digital skills         .n/a           Talent Impact         .16.15
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2 5.2.2 6 6.1 6.1.1 6.1.2 6.1.4 6.1.5 6.1.6 6.1.6 6.1.6 6.1.6 6.1.6 6.1.6 6.2 6.2 6.2 6.2	Mid-Level Skills         13.44           Workforce with secondary education         .20.80           Population with secondary education         .n/a           Technicians and associate professionals         .6.08           Labour productivity per employee         .n/a           Employability         .57.63           Ease of finding skilled employees         .56.49           Relevance of education system to the economy         .47.05           Skills matching         .40.23           Highly educated unemployment         .86.73           GLOBAL KNOWLEDGE SKILLS         18.69           High-Level Skills         .21.22           Workforce with tertiary education         .n/a           Population with tertiary education         .n/a           Professionals         .11.59           Researchers         .n/a           Senior officials and managers         .41.18           Digital skills         .n/a           Talent Impact         .16.15           Innovation output         .8.25
5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2 5.2.3 5.2.4 <b>6</b> 6.1 6.1.1 6.1.2 6.1.3 6.1.4 6.1.5 6.1.6 6.1.5 6.1.6 6.1.6	Mid-Level Skills
5.1. 5.1.2 5.1.3 5.1.2 5.1.3 5.1.4 5.2.2 5.2.1 5.2.2 5.2.3 5.2.4 <b>6</b> 6.1.6 6.1.2 6.1.3 6.1.4 6.1.5 6.1.6 6.2.2 6.2.1 6.2.1 6.2.2 6.2.3	Mid-Level Skills         13.44           Workforce with secondary education         20.80           Population with secondary education         .n/a           Technicians and associate professionals         .6.08           Labour productivity per employee         .n/a           Employability         .57.63           Ease of finding skilled employees         .56.49           Relevance of education system to the economy         .47.05           Skills matching         .40.23           Highly educated unemployment         .86.73           GLOBAL KNOWLEDGE SKILLS         18.69           High-Level Skills         .21.22           Workforce with tertiary education         .n/a           Population with tertiary education         .n/a           Professionals         .11.59           Researchers         .n/a           Senior officials and managers         .41.18           Digital skills         .n/a           Talent Impact         .16.15           Innovation output         .8.25           High-value exports         .41.80           Software development         .29.68
5.1. 5.1.2 5.1.3 5.1.4 5.1.2 5.1.3 5.1.4 5.2.2 5.2.3 5.2.4 <b>6</b> 6.1.6 6.1.2 6.1.3 6.1.4 6.1.5 6.1.6 6.2 6.2 6.2.1 6.2.2 6.2.2 6.2.3 6.2.4	Mid-Level Skills         13.44           Workforce with secondary education         20.80           Population with secondary education         .n/a           Technicians and associate professionals         6.08           Labour productivity per employee         .n/a           Employability         57.63           Ease of finding skilled employees         .56.49           Relevance of education system to the economy         .47.05           Skills matching         .40.23           Highly educated unemployment         .86.73           GLOBAL KNOWLEDGE SKILLS         18.69           High-Level Skills         21.22           Workforce with tertiary education         10.89           Population with tertiary education         .n/a           Professionals         11.59           Researchers         .n/a           Senior officials and managers         41.18           Digital skills         .n/a           Talent Impact         16.15           Innovation output         8.25           High-value exports         41.80           Software development         29.68           New business density         0.62
5.1. 5.1.2 5.1.3 5.1.4 5.1.2 5.1.3 5.1.4 5.2.2 5.2.3 5.2.4 <b>6</b> 6.1 6.1.2 6.1.3 6.1.4 6.1.5 6.1.6 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6	Mid-Level Skills         13.44           Workforce with secondary education         20.80           Population with secondary education         .n/a           Technicians and associate professionals         6.08           Labour productivity per employee         .n/a           Employability         57.63           Ease of finding skilled employees         .56.49           Relevance of education system to the economy         .47.05           Skills matching         .40.23           Highly educated unemployment         .86.73           GLOBAL KNOWLEDGE SKILLS         18.69           High-Level Skills         21.22           Workforce with tertiary education         10.89           Population with tertiary education         .n/a           Professionals         11.59           Researchers         .n/a           Senior officials and managers         41.18           Digital skills         .n/a           Talent Impact         16.15           Innovation output         8.25           High-value exports         41.80           Software development         29.68           New business density         0.62
5.1. 5.1.2 5.1.3 5.1.4 5.1.2 5.1.3 5.1.4 5.2.2 5.2.3 5.2.4 <b>6</b> 6.1.6 6.1.2 6.1.3 6.1.4 6.1.5 6.1.6 6.2 6.2 6.2.1 6.2.2 6.2.2 6.2.3 6.2.4	Mid-Level Skills         13.44           Workforce with secondary education         20.80           Population with secondary education         .n/a           Technicians and associate professionals         6.08           Labour productivity per employee         .n/a           Employability         57.63           Ease of finding skilled employees         .56.49           Relevance of education system to the economy         .47.05           Skills matching         .40.23           Highly educated unemployment         .86.73           GLOBAL KNOWLEDGE SKILLS         18.69           High-Level Skills         21.22           Workforce with tertiary education         10.89           Population with tertiary education         .n/a           Professionals         11.59           Researchers         .n/a           Senior officials and managers         41.18           Digital skills         .n/a           Talent Impact         16.15           Innovation output         8.25           High-value exports         41.80           Software development         29.68           New business density         0.62
5.1. 5.1.2 5.1.3 5.1.4 5.1.2 5.1.3 5.1.4 5.2.2 5.2.1 5.2.2 5.2.3 5.2.4 <b>6</b> 6.1.1 6.1.2 6.1.3 6.1.4 6.1.5 6.1.6 6.2.2 6.2.1 6.2.2 6.2.1 6.2.2 6.2.3 6.2.4	Mid-Level Skills         13.44           Workforce with secondary education         20.80           Population with secondary education         .n/a           Technicians and associate professionals         6.08           Labour productivity per employee         .n/a           Employability         57.63           Ease of finding skilled employees         .56.49           Relevance of education system to the economy         .47.05           Skills matching         .40.23           Highly educated unemployment         .86.73           GLOBAL KNOWLEDGE SKILLS         18.69           High-Level Skills         21.22           Workforce with tertiary education         10.89           Population with tertiary education         .n/a           Professionals         11.59           Researchers         .n/a           Senior officials and managers         41.18           Digital skills         .n/a           Talent Impact         16.15           Innovation output         8.25           High-value exports         41.80           Software development         29.68           New business density         0.62

77

90

57

75

n/a

70

63

55

94

31

92

102

107

28

n/a

98

118

15

116

116

117

Relationship of pay to productivity......47.99

Enterprise software .......24.46

Management Practice

Technology Adoption

133

1.3.4

1.3.5

1.3.6

## **LATVIA**

Vocational and Technical Skills

Ney indicators		
Rank (out of 134)		33
Income group		
Regional group		_
Population (millions)		_
GTCI 2023 Country Profile by F	Pillar Enable	
Global Knowledge Skills	100 -90 -80 -70 -60 -30	Attract

	Ketain	
<ul><li>Latvia</li></ul>	Income group average	۵

	Score	Rank
1	ENABLE 54.68	36
1.1	Regulatory Landscape69.29	30
1.1.1	Government effectiveness	34
1.1.2	Rule of law	27
1.1.3	Political stability79.05	33
1.1.4	Regulatory quality73.85	24
1.1.5	Corruption	32
1.2	Market Landscape	67
1.2.1	Extent of market dominance	51
1.2.2	Domestic credit to private sector35.14	93
1.2.3	Cluster development	65
1.2.4	R&D expenditure	50
1.2.5	ICT infrastructure	51
1.2.6	Urbanisation	59
1.3	Business and Labour Landscape	49
	Labour Market	
1.3.1	Labour rights	1
1.3.2	Labour-employer cooperation	63
	Management Practice	05
1.3.3	Professional management	86
1.3.4	Relationship of pay to productivity	68
1.5.1	Technology Adoption	00
1.3.5	Enterprise software	78
1.3.5	Cloud computing	65
1.3.7	Firms with website	40
1.5.7	Timis with website	40
2	ATTRACT	35
2.1	External Openness	26
	Attract Business	
2.1.1	FDI regulatory restrictiveness95.41	12
2.1.2	Financial globalisation	33
	Attract People	
2.1.3	Migrant stock	32
2.1.4	International students	18
2.1.5	Brain gain	79
2.2	Internal Openness	67
	Social Inclusion	0,
2.2.1	Tolerance of minorities	106
2.2.1	Tolerance of immigrants	119
2.2.2	Social mobility	46
۷.۷.۷	Gender Equality	40
2.2.4	Economic empowerment of women	1
2.2.5	Gender parity in high-skilled jobs	87
2.2.6	Leadership opportunities for women	23
	r err er er er er er er er er er er er e	

3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 3.2 3.2.1 3.2.2 3.2.3 3.3 3.3 3.3.1	GROW         48.03           Formal Education.         46.18           Enrolment         30.82           Tertiary enrolment         .62.29           Quality         -62.07           Reading, maths, and science         .62.57           University ranking.         13.17           Lifelong Learning.         .40.03           Business masters education         0.00           Prevalence of training in firms         .65.07           Employee development         .55.01	Ran 40 33 35 55 28 66
3.1 3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 3.2 3.2.1 3.2.2 3.2.1 3.2.2 3.2.3 3.3.3	Formal Education.         46.18           Enrolment         30.82           Vocational enrolment         .62.29           Quality         -62.07           Reading, maths, and science         .62.57           University ranking         .13.17           Lifelong Learning         .40.03           Business masters education         .0.00           Prevalence of training in firms         .65.07	33. 33. 45. 26.
3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 3.2 3.2.1 3.2.2 3.2.3 3.3.3	Enrolment         30.82           Vocational enrolment         .30.82           Tertiary enrolment         .62.29           Quality         .62.07           Reading, maths, and science         .62.57           University ranking         .13.17           Lifelong Learning         .40.03           Business masters education         .0.00           Prevalence of training in firms         .65.07	3: 5: 2: 6:
3.1.2 3.1.3 3.1.4 3.1.5 3.2 3.2.1 3.2.2 3.2.3 3.3.3	Vocational enrolment         .30.82           Tertiary enrolment         .62.29           Quality         .62.07           Reading, maths, and science         .62.57           University ranking         .13.17           Lifelong Learning         .40.03           Business masters education         .0.00           Prevalence of training in firms         .65.07	5: 28 60
3.1.2 3.1.3 3.1.4 3.1.5 3.2 3.2.1 3.2.2 3.2.2 3.2.3 3.3.3	Tertiary enrolment         .62.29           Quality         Fertiary education expenditure         .62.07           Reading, maths, and science         .62.57           University ranking         .13.17           Lifelong Learning         .40.03           Business masters education         .0.00           Prevalence of training in firms         .65.07	5: 28 60
3.1.3 3.1.4 3.1.5 3.2 3.2.1 3.2.2 3.2.3 3.3	Quality         62.07           Tertiary education expenditure         62.07           Reading, maths, and science         62.57           University ranking         13.17           Lifelong Learning         40.03           Business masters education         .0.00           Prevalence of training in firms         .65.07	5: 28 60
3.1.4 3.1.5 3.2 3.2.1 3.2.2 3.2.3 3.3	Reading, maths, and science       .62.57         University ranking       .13.17         Lifelong Learning       .40.03         Business masters education       .0.00         Prevalence of training in firms       .65.07	28
3.1.5 3.2 3.2.1 3.2.2 3.2.3 3.3	University ranking.         .13.17           Lifelong Learning.         .40.03           Business masters education.         .0.00           Prevalence of training in firms.         .65.07	6
3.2 3.2.1 3.2.2 3.2.3 3.3	Lifelong Learning.     40.03       Business masters education.     0.00       Prevalence of training in firms.     .65.07	
3.2.1 3.2.2 3.2.3 3.3	Business masters education	
3.2.2 3.2.3 3.3	Prevalence of training in firms65.07	4.5 5.
3.2.3 3.3	9	18
		60
3 3 1	Access to Growth Opportunities	3
3 3 1	Empowerment	
J.J.1	Delegation of authority	9
3.3.2	Youth inclusion86.59	18
	Collaboration	
3.3.3	Use of virtual social networks	3
3.3.4	Use of virtual professional networks	40
4	RETAIN	3:
4.1	Sustainability70.26	3
4.1.1	Pension coverage91.92	5
4.1.2	Social protection	3
4.1.3	Brain retention	9
4.1.4	Environmental performance	1
4.1.5	Vulnerable employment	2.
4.2 4.2.1	Lifestyle       79.17         Personal rights       95.74	3i 1
4.2.2	Personal safety	4
4.2.3	Physician density52.68	3
4.2.4	Sanitation	7
5	VOCATIONAL AND TECHNICAL SKILLS	34
5.1	Mid-Level Skills	1:
5.1.1	Workforce with secondary education	20
5.1.2	Population with secondary education	_
5.1.3	Technicians and associate professionals58.01	28
5.1.4	Labour productivity per employee42.51	4
5.2	Employability59.29	6
5.2.1	Ease of finding skilled employees	9
5.2.2 5.2.3	Relevance of education system to the economy	6. 2
5.2.4	Skills matching         .77.25           Highly educated unemployment         .75.99	6
5	GLOBAL KNOWLEDGE SKILLS 42.37	2
б.1 б.1.1	High-Level Skills	3 2
6.1.2	Population with tertiary education	2
6.1.3	Professionals	3
6.1.4	Researchers	3
6.1.5	Senior officials and managers	
6.1.6	Digital skills	6
5.2	Talent Impact	3
5.2.1	Innovation output	4
5.2.2	High-value exports	2
5.2.3 5.2.4	Software development	2
5.2.4 5.2.5	New business density	3

#### **LEBANON**

Key Inc	dicators					
Rank	(out of 134)		77	GDP	per capita (PPP US\$)	330.52
	·	Lower-middle in	come		(US\$ billions)	
-		Northern Africa and Western			score	
Popu	lation (millions)		.5.49	GTCI	score (income group average)	32.03
GT	CI 2023 Country Profile by Pillar				Score	Rank
				3	GROW37.85	66
		Enable ▼100		3.1	Formal Education	
		90		3.1.1	Vocational enrolment	1 52
		<b>I</b> 70		3.1.2	Tertiary enrolment	
	Global	60 50 Attract			Quality	
Kno	owledge Skills	40		3.1.3	Tertiary education expenditure55.66	69
	**************************************	30 20		3.1.4	Reading, maths, and science	72
	7	10		3.1.5	University ranking28.47	
	1			3.2	Lifelong Learning34.20	
	<i>*</i>			3.2.1	Business masters education	
	XXXXX	1		3.2.2	Prevalence of training in firms	
V	ocational and	Grow		3.2.3	Employee development	
Te	echnical Skills	‡ Grow		3.3	Access to Growth Opportunities	8 65
		†		3.3.1	Empowerment Delegation of authority	5 111
		Ī		3.3.2	Youth inclusion	
		Retain		3.3.2	Collaboration	07
		retain		3.3.3	Use of virtual social networks	6
	<ul><li>Lebanon</li></ul>	<ul> <li>Income group average</li> </ul>		3.3.4	Use of virtual professional networks	
		Score	Rank			
1	ENADIE	36.04	07	4	RETAIN 45.99	89
<b>1</b>		36.04	<b>97</b> 128	4.1	Sustainability	116
1.1.1			131	4.1.1	Pension coverage8.89	116
1.1.2			123	4.1.2	Social protection	
1.1.3			127	4.1.3	Brain retention	
1.1.4			120	4.1.4	Environmental performance	
1.1.5		9.59	123	4.1.5	Vulnerable employment	
1.2	Market Landscape	55.69	32	4.2	Lifestyle	
1.2.1	Extent of market dominance	e21.34	108	4.2.1 4.2.2	Personal rights         .64.10           Personal safety         .58.62	
1.2.2		sector66.18	20	4.2.3	Physician density	
1.2.3	· ·	31.51	100	4.2.4	Sanitation	
1.2.4		n/a	n/a		34.1.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	32
1.2.5 1.2.6			50 15			
1.3		scape	98	5	VOCATIONAL AND TECHNICAL SKILLS 46.28	
1.5	Labour Market	scape	50	5.1	Mid-Level Skills	
1.3.1		n/a	n/a	5.1.1 5.1.2	Workforce with secondary education	
1.3.2		ion	93	5.1.2	Technicians and associate professionals	
	Management Practice			5.1.4	Labour productivity per employee	
1.3.3	Professional management .		106	5.2	Employability	
1.3.4	Relationship of pay to prod	uctivity45.30	99	5.2.1	Ease of finding skilled employees	
	Technology Adoption			5.2.2	Relevance of education system to the economy	
1.3.5			37	5.2.3	Skills matching	
1.3.6		9.75 	99 45	5.2.4	Highly educated unemployment	110
1.3.7	i iiiiis witti wedsite	02.38	45			
2	ATTRACT	47.83	79	<b>6</b> 6.1	<b>GLOBAL KNOWLEDGE SKILLS</b>	
2.1			34	6.1.1	Workforce with tertiary education	
	Attract Business			6.1.2	Population with tertiary education	
2.1.1	9 ,	ss61.08	62	6.1.3	Professionals	
2.1.2	3	83.51	22	6.1.4	Researchers	
	Attract People			6.1.5	Senior officials and managers	
2.1.3			17	6.1.6	Digital skills	
2.1.4			19	6.2	Talent Impact28.26	
2.1.5	-		109 123	6.2.1	Innovation output	
۷.۷	Social Inclusion		123	6.2.2 6.2.3	High-value exports	
	JUCIAI II ICIUSIUI I			0.2.3	Dortware development	3 51

6.2.4

6.2.5

n/a

2.2.1

2.2.2

2.2.3

2.2.4

2.2.5

2.2.6

Gender Equality

## **LESOTHO**

 2.2.4
 Economic empowerment of women
 .69.03

 2.2.5
 Gender parity in high-skilled jobs
 .72.97

 2.2.6
 Leadership opportunities for women
 .5.03

Rank Incor	t (out of 134)	Lower-middle in . Sub-Saharan A	Africa	GDP GTCl	per capita (PPP US\$)	2.5 24.9
•	clation (millions)		2.31	GTC1	I score (income group average)	
GI	CI 2023 Country Profile by Pillar				Score	Rank
	Enable <b>T</b> <sup>100</sup>			<b>3</b> 3.1	GROW         14.51           Formal Education         12.08           Enrolment         12.08	<b>129</b>
	90 +80 +70 Global	. Attract		3.1.1 3.1.2	Vocational enrolment	101 111
Kne	owledge Skills 40	A THEATER		3.1.3	Tertiary education expenditure	98
	30	×		3.1.4	Reading, maths, and science	n/a
	10			3.1.5	University ranking	76
				3.2	Lifelong Learning	122
				3.2.1	Business masters education	57
		ν.		3.2.2	Prevalence of training in firms	55
V	ocational and	<b>*</b>		3.2.3	Employee development	130
Te	echnical Skills	Grow		3.3	Access to Growth Opportunities	129
	t			3.3.1	Delegation of authority	134
	D-+-:			3.3.2	Youth inclusion	119
	Retain			3.3.3	Use of virtual social networks	108
	<ul><li>Lesotho</li><li>Income</li></ul>	group average		3.3.4	Use of virtual professional networks	107
		Score	Rank	_	DETAIN 42.62	
1	ENABLE	22.30	128	<b>4</b> 4.1	RETAIN	<b>96</b>
1.1	Regulatory Landscape		99	4.1.1	Sustainability	48
1.1.1	Government effectiveness		123	4.1.2	Social protection	64
1.1.2	Rule of law		88	4.1.3	Brain retention	50
1.1.3	Political stability		75	4.1.4	Environmental performance	103
1.1.4 1.1.5	Regulatory quality Corruption		113 79	4.1.5	Vulnerable employment	100
1.1.3	Market Landscape		131	4.2	Lifestyle	108
1.2.1	Extent of market dominance		115	4.2.1	Personal rights	59
1.2.2	Domestic credit to private sector		113	4.2.2	Personal safety14.84	127
1.2.3	Cluster development		129	4.2.3	Physician density6.47	105
1.2.4	R&D expenditure	0.76	112	4.2.4	Sanitation	111
1.2.5	ICT infrastructure		115			
1.2.6	Urbanisation		123	5	VOCATIONAL AND TECHNICAL SKILLS23.47	128
1.3	Business and Labour Landscape	17.41	133	5.1	Mid-Level Skills	121
1 2 1	Labour Market	00.70		5.1.1	Workforce with secondary education	132
1.3.1 1.3.2	Labour rights		57 134	5.1.2	Population with secondary education	n/a
1.3.2	Labour-employer cooperation	0.00	134	5.1.3	Technicians and associate professionals	100
1.3.3	Professional management	1.70	133	5.1.4	Labour productivity per employee	n/a
1.3.4	Relationship of pay to productivity		122	5.2 5.2.1	Employability	121 125
	Technology Adoption			5.2.2	Relevance of education system to the economy18.23	117
1.3.5	Enterprise software	0.00	127	5.2.3	Skills matching	62
1.3.6 1.3.7	Cloud computing		126 111	5.2.4	Highly educated unemployment	100
				6	GLOBAL KNOWLEDGE SKILLS8.75	118
2	ATTRACT		111	6.1	High-Level Skills	109
2.1	External Openness	26.83	118	6.1.1	Workforce with tertiary education	115
2.1.1	FDI regulatory restrictiveness	n/a	n/a	6.1.2	Professionals 14.73	n/a
2.1.1	Financial globalisation		59	6.1.3 6.1.4	Professionals	91 104
∠	Attract People			6.1.5	Senior officials and managers	94
2.1.3	Migrant stock	12.23	116	6.1.6	Digital skills	57
2.1.4	International students		108	6.2	Talent Impact	125
2.1.5	Brain gain	30.01	102	6.2.1	Innovation outputn/a	n/a
2.2	Internal Openness	47.36	100	6.2.2	High-value exports0.06	131
	Social Inclusion			6.2.3	Software development	125
2.2.1	Tolerance of minorities		24	6.2.4	New business density	73
2.2.2	Tolerance of immigrants		76 120	6.2.5	Scientific journal articles	112
2.2.3	Social mobility	10.46	128			

## **LITHUANIA**

Key Indicators

ricy in	arcator 3						
Rank	(out of 134)		<b>31</b>	GDP	per capita (PPP US\$)	3,39	6.69
Incor	ne group	High in	come	GDP	(US\$ billions)	7	70.33
Regional group <b>Europe</b>					score	5	8.73
Popu	lation (millions)		2.83	GTCI	score (income group average)	6	61.91
GT	CI 2023 Country Profile by Pillar				Sco	ore	Rank
				3	GROW		36
	Enable			3.1	Formal Education		47
	<b>1</b> 00 90			211	Enrolment	c =	00
	<b>1</b> 80			3.1.1 3.1.2	Vocational enrolment		80 32
	Clabal 60	ttract		3.1.2	Quality	.41	32
Kno	owledge Skills			3.1.3	Tertiary education expenditure	.83	42
	130			3.1.4	Reading, maths, and science59		31
				3.1.5	University ranking	.26	55
				3.2	Lifelong Learning42.		39
				3.2.1	Business masters education		51
				3.2.2 3.2.3	Prevalence of training in firms		61
	ocational and	row		3.2.3	Employee development		12 27
Te	echnical Skills	1011		3.3	Empowerment	00	21
	Ĭ			3.3.1	Delegation of authority	.52	17
	1			3.3.2	Youth inclusion80.		33
	Retain				Collaboration		
	■ T:d1			3.3.3	Use of virtual social networks		38
	Lithuania	erage		3.3.4	Use of virtual professional networks	.92	44
		Score	Rank				
1	ENABLE	61.08	27	4	RETAIN		27
1.1	Regulatory Landscape	72.65	24	4.1 4.1.1	Sustainability71.		29 44
1.1.1	Government effectiveness		29	4.1.1	Pension coverage		11
1.1.2	Rule of law		25	4.1.3	Brain retention		106
1.1.3	Political stability.		27 22	4.1.4	Environmental performance		30
1.1.4 1.1.5	Regulatory quality		27	4.1.5	Vulnerable employment89	.36	28
1.1.5	Market Landscape		49	4.2	Lifestyle86.	48	16
1.2.1	Extent of market dominance		34	4.2.1	Personal rights		29
1.2.2	Domestic credit to private sector		83	4.2.2	Personal safety		33
1.2.3	Cluster development	43.92	68	4.2.3 4.2.4	Physician density		9 65
1.2.4	R&D expenditure		36	4.2.4	Salitation93.	.54	03
1.2.5	ICT infrastructure.		44				
1.2.6 1.3	Urbanisation		61 24	5	VOCATIONAL AND TECHNICAL SKILLS 56.		46
1.3	Labour Market		24	5.1	Mid-Level Skills		32
1.3.1	Labour rights	97.59	14	5.1.1 5.1.2	Workforce with secondary education		34 15
1.3.2	Labour-employer cooperation		18	5.1.2	Population with secondary education		50
	Management Practice			5.1.4	Labour productivity per employee		35
1.3.3	Professional management		14	5.2	Employability		65
1.3.4	Relationship of pay to productivity	60.38	47	5.2.1	Ease of finding skilled employees	.07	113
125	Technology Adoption	16.41	00	5.2.2	Relevance of education system to the economy		67
1.3.5	Enterprise software		90 74	5.2.3	Skills matching83.		14
1.3.6 1.3.7	Firms with website		23	5.2.4	Highly educated unemployment	.8/	63
2	ATTRACT	63 17	31	6	GLOBAL KNOWLEDGE SKILLS43.		27
2.1	External Openness		42	6.1 6.1.1	High-Level Skills		22 13
	Attract Business			6.1.2	Population with tertiary education		34
2.1.1	FDI regulatory restrictiveness	95.95	9	6.1.3	Professionals		7
2.1.2	Financial globalisation		53	6.1.4	Researchers		27
	Attract People			6.1.5	Senior officials and managers	.11	11
2.1.3	Migrant stock		63	6.1.6	Digital skills		48
2.1.4	International students		42	6.2	Talent Impact		38
2.1.5	Brain gain		72	6.2.1	Innovation output		46
2.2	Internal Openness	/ 1.40	22	6.2.2 6.2.3	High-value exports.         20.           Software development         .81.		41 28
2.2.1	Tolerance of minorities	71 28	24	6.2.4	New business density		26 46
2.2.2	Tolerance of immigrants		114	6.2.5	Scientific journal articles		33
2.2.3	Social mobility	81.07	11				
	Gender Equality						

29

 2.2.4
 Economic empowerment of women.
 91.15

 2.2.5
 Gender parity in high-skilled jobs.
 61.73

 2.2.6
 Leadership opportunities for women.
 89.62

## **LUXEMBOURG**

	(out of 134)		LL		per capita (PPP US\$)		
Income group High income				82 <b>.2</b> '			
Regio	nal group	Eu	ırope	GTCI	score		72.8
opu	ation (millions)		0.65	GTCI	score (income group average) $\ldots \ldots \ldots$	(	61.9
GT	El 2023 Country Profile by Pillar					Score	Rar
				3	GROW	55.82	2
	Enable			3.1	Formal Education.		3
	<b>I</b> <sup>100</sup>				Enrolment		
	<b>I</b> 80			3.1.1	Vocational enrolment		1
	Global			3.1.2	Tertiary enrolment	11.90	9
Kno	ld cl-:11- <b>\</b>	Attract		212	Quality	100.00	
	30			3.1.3 3.1.4	Tertiary education expenditure		3
	120	/		3.1.5	University ranking.		7
		/		3.2	Lifelong Learning		2
				3.2.1	Business masters education		5
		ν.		3.2.2	Prevalence of training in firms		
V	ocational and	Grow		3.2.3	Employee development		
Te	chnical Skills	Grow		3.3	Access to Growth Opportunities	69.0/	
	<del>\</del>			3.3.1	Empowerment Delegation of authority	5206	4
	Ĭ			3.3.2	Youth inclusion		
	Retain			3.3.2	Collaboration		
				3.3.3	Use of virtual social networks		
	<ul><li>Luxembourg</li><li>Income</li></ul>	group average		3.3.4	Use of virtual professional networks		
		Score	Rank				
	ENABLE	74.06		4	RETAIN	88.16	
	Regulatory Landscape		<b>13</b> 7	4.1	Sustainability	93.33	
1	Government effectiveness		7	4.1.1	Pension coverage	100.00	
2	Rule of law		8	4.1.2	Social protection		
3	Political stability	92.54	4	4.1.3	Brain retention		
4	Regulatory quality		2	4.1.4 4.1.5	Environmental performance		
5	Corruption		10	4.1.3	Lifestyle		
1	Market Landscape		23	4.2.1	Personal rights		
.1	Extent of market dominance  Domestic credit to private sector		27 21	4.2.2	Personal safety		
.3	Cluster development		32	4.2.3	Physician density	46.92	
.4	R&D expenditure.		37	4.2.4	Sanitation	97.36	
.5	ICT infrastructure	80.13	29				
.6	Urbanisation		12	5	VOCATIONAL AND TECHNICAL SKILLS	66.64	
3	Business and Labour Landscape	71.55	12	5.1	Mid-Level Skills	60.80	
1	Labour Market	07.45	17	5.1.1	Workforce with secondary education		
i.1	Labour rights		17 7	5.1.2	Population with secondary education		
.∠	Management Practice	02.30	,	5.1.3 5.1.4	Technicians and associate professionals		
.3	Professional management	70.83	28	5.1.4	Employability		
.4	Relationship of pay to productivity	72.43	24	5.2.1	Ease of finding skilled employees		
	Technology Adoption			5.2.2	Relevance of education system to the economy		
.5	Enterprise software		18	5.2.3	Skills matching		
3.6 3.7	Cloud computing Firms with website		14 17	5.2.4	Highly educated unemployment	84.76	
				6	GLOBAL KNOWLEDGE SKILLS		
	ATTRACT		1	6.1	High-Level Skills		
	External Openness	96.49	1	6.1.1	Workforce with tertiary education		
.1	FDI regulatory restrictiveness		1	6.1.2 6.1.3	Population with tertiary education Professionals		
.2	Financial globalisation		1	6.1.4	Researchers		
	Attract People			6.1.5	Senior officials and managers		
3	Migrant stock		5	6.1.6	Digital skills		
4	International students		1	6.2	Talent Impact		
5	Brain gain		3	6.2.1	Innovation output		
	Internal Openness	86./4	5	6.2.2 6.2.3	High-value exports		
.1	Tolerance of minorities	84 04	5	6.2.4	Software development		
	Tolerance of immigrants		3	6.2.5	Scientific journal articles		
.2	Social mobility		10				
.2 .3							
.3	Gender Equality						
	Gender Equality Economic empowerment of women Gender parity in high-skilled jobs		1 25				

Vocational and Technical Skills

## **MADAGASCAR**

Key Indicators	
Rank (out of 134)	125
Income group	Low income
Regional group	Sub-Saharan Africa
Population (millions)	
GTCI 2023 Country Profile by Pillar	
Enable	
Global 50 Knowledge Skills 40	Attract

	Retain	
Madagascar		Income group averag

Score Rank

1	ENABLE	124
1.1	Regulatory Landscape23.59	120
1.1.1	Government effectiveness	126
1.1.2	Rule of law	114
1.1.3	Political stability	100
1.1.4	Regulatory quality	116
1.1.5	Corruption	116
1.2	Market Landscape	124
1.2.1	Extent of market dominance	111
1.2.2	Domestic credit to private sector23.02	114
1.2.3	Cluster development	112
1.2.4	R&D expenditure0.05	114
1.2.5	ICT infrastructure	124
1.2.6	Urbanisation	111
1.3	Business and Labour Landscape	114
	Labour Market	
1.3.1	Labour rights	62
1.3.2	Labour-employer cooperation	98
	Management Practice	
1.3.3	Professional management	120
1.3.4	Relationship of pay to productivity	128
	Technology Adoption	.20
1.3.5	Enterprise software	55
1.3.6	Cloud computing	72
1.3.7	Firms with website	100
1.5./	Tillis with website	100
2	ATTRACT36.79	113
2.1	External Openness	121
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation	105
	Attract People	
2.1.3	Migrant stock	130
2.1.4	International students	77
2.1.5	Brain gain	70
2.2	Internal Openness	88
2.2	Social Inclusion	00
2.2.1	Tolerance of minorities	36
2.2.2	Tolerance of immigrants	109
2.2.3	Social mobility	113
	Gender Equality	
2.2.4	Economic empowerment of women	111
2.2.5	Gender parity in high-skilled jobs	65
2.2.5	Leadership opportunities for women	99
2.2.0	Ecoccising apportunities for women	23

	score	
GTCI	score (income group average)	22.8 Ran
3	GROW. 19.94	11
3.1	Formal Education	12
3.1.1 3.1.2	Vocational enrolment 3.84 Tertiary enrolment 2.75	10 12
3.1.3	Quality Tertiary education expenditure	9
3.1.4	Reading, maths, and science	n/
3.1.5	University ranking	10
3.2 3.2.1	Lifelong Learning	12
3.2.1	Prevalence of training in firms 8.76	9
3.2.3	Employee development	11
3.3	Access to Growth Opportunities	9
2 2 1	Empowerment	1.0
3.3.1 3.3.2	Delegation of authority	10
J.J.Z	Collaboration	
3.3.3	Use of virtual social networks 6.91	12
3.3.4	Use of virtual professional networks	12
1	RETAIN	12
1.1	Sustainability	12
4.1.1 4.1.2	Pension coverage	n 10
1.1.3	Brain retention	10
1.1.4	Environmental performance	1.
1.1.5	Vulnerable employment	1.
4.2 4.2.1	Lifestyle	12
1.2.2	Personal safety	1
1.2.3	Physician density2.32	1
1.2.4	Sanitation3.73	13
5	VOCATIONAL AND TECHNICAL SKILLS	11
5.1 5.1.1	Mid-Level Skills	12
5.1.2	Population with secondary education	8
5.1.3	Technicians and associate professionals2.64	12
5.1.4	Labour productivity per employee	1
5.2.1	Employability	10
5.2.2	Relevance of education system to the economy15.82	1
5.2.3	Skills matching43.00	8
5.2.4	Highly educated unemployment	
5	GLOBAL KNOWLEDGE SKILLS	12
5.1 5.1.1	High-Level Skills3.78Workforce with tertiary education5.64	12
5.1.2	Population with tertiary education	
5.1.3	Professionals	12
5.1.4	Researchers	10 1
5.1.5 5.1.6	Senior officials and managers	n,
5.2	Talent Impact	11
5.2.1	Innovation output	8
5.2.2	High-value exports	1
5.2.3	Software development	1
5.2.4	Scientific journal articles	1:

### **MALAWI**

Key Inc	dicators					
		4	20			
Rank	(out of 134)	<b>1</b> 2	20	GDP	per capita (PPP US\$)	732.03
		Low in	come		(US\$ billions)	
		Sub-Saharan A			score	
0	0 1	Sub-Sanaran F			score (income group average)	
Popu	iation (millions)		20.41	GICI	score (income group average)	22.85
GT	CI 2023 Country Profile by Pillar				Score	e Rank
	F.	nable		3	GROW17.72	
	1.	<b>T</b> 100		3.1	Formal Education	5 134
		90		3.1.1	Enrolment Vocational enrolment	a n/a
		*80 *70		3.1.1	Tertiary enrolment	
	Global	60 50 Attract		32	Quality	
Kno	owledge Skills	40		3.1.3	Tertiary education expenditure	a n/a
	***	20		3.1.4	Reading, maths, and science	
	~*>	H <sup>10</sup>		3.1.5 3.2	University ranking	
		<b>1</b> %.		3.2.1	Business masters education	
		<b>*</b>		3.2.2	Prevalence of training in firms	
V	ocational and	‡ ~~		3.2.3	Employee development	) 97
	echnical Skills	Grow		3.3	Access to Growth Opportunities	3 113
		Ţ		2.21	Empowerment  Palacetics of subscripts	
		İ		3.3.1 3.3.2	Delegation of authority	
	R	etain		3.3.2	Collaboration	, , , ,
				3.3.3	Use of virtual social networks	
	<ul><li>Malawi</li></ul>	<ul> <li>Income group average</li> </ul>		3.3.4	Use of virtual professional networks	7 126
		Score	Rank			
1	FNARIF	30.23	115	4	RETAIN	112
1.1			95	4.1	Sustainability	
1.1.1	9 /	23.69	115	4.1.1	Pension coverage	
1.1.2			75	4.1.2 4.1.3	Social protection	
1.1.3	· · · · · · · · · · · · · · · · · · ·		67	4.1.4	Environmental performance	
1.1.4 1.1.5	, , ,		115 90	4.1.5	Vulnerable employment	2 107
1.2			132	4.2	Lifestyle	
1.2.1		15.77	119	4.2.1	Personal rights	
1.2.2	· ·	or2.79	130	4.2.2 4.2.3	Personal safety	
1.2.3	· ·	32.68	96	4.2.4	Sanitation	
1.2.4 1.2.5		n/a	n/a 122			
1.2.6		4.49	133	5	VOCATIONAL AND TECHNICAL SKILLS 32.49	108
1.3	Business and Labour Landscap	e41.09	78	5.1	Mid-Level Skills	
	Labour Market			5.1.1	Workforce with secondary education	113
1.3.1 1.3.2	~	95.04	23 104	5.1.2	Population with secondary education	
1.3.2	Management Practice	32.50	104	5.1.3 5.1.4	Technicians and associate professionals	
1.3.3	9	51.63	65	5.1.4	Labour productivity per employee	
1.3.4		vity44.37	101	5.2.1	Ease of finding skilled employees	
	Technology Adoption			5.2.2	Relevance of education system to the economy	
1.3.5			101	5.2.3	Skills matching	
1.3.6 1.3.7			108 75	5.2.4	Highly educated unemployment	3
				6	CLODAL KNOWLEDGE SVILLS	120
2	ATTRACT	37.59	109	6.1	GLOBAL KNOWLEDGE SKILLS	
2.1	External Openness		103	6.1.1	Workforce with tertiary education	
2	Attract Business		,	6.1.2	Population with tertiary education	a n/a
2.1.1	,	n/a	n/a 125	6.1.3	Professionals	
∠.1.∠	Attract People		123	6.1.4 6.1.5	Researchers	
2.1.3	· ·	21.98	104	6.1.6	Digital skills	
2.1.4		n/a	n/a	6.2	Talent Impact8.76	
2.1.5	-	49.80	62	6.2.1	Innovation output	
2.2		43.70	111	6.2.2	High-value exports. 4.98	
2.2.1	Social Inclusion Tolerance of minorities		48	6.2.3 6.2.4	Software development	
2.2.1			123	6.2.5	Scientific journal articles	
2.2.3			92		•	
	Gender Equality					
2.2.4		omen71.68	81 111			
2.2.5		os34.01 omen37.01	111 101			
2.2.0	reagership opportunities for we	JIIICII	101			

#### **MALAYSIA**

MALAIS	) LA
Key Indicators	
Regional group <b>Easter</b>	42 Upper-middle incom n, Southeastern Asia and Oceani
GTCI 2023 Country Profile by Pillar	
	Enable
Global Knowledge Skills	100 90 80 70 60 40 130 10
Vocational and Technical Skills	Grow
	Retain
<ul><li>Malaysia</li></ul>	<ul> <li>Income group average</li> </ul>
	Score Ran

1	ENABLE	35
1.1	Regulatory Landscape58.89	42
1.1.1	Government effectiveness	30
1.1.2	Rule of law60.12	39
1.1.3	Political stability	56
1.1.4	Regulatory quality	42
1.1.5	Corruption	49
1.2	Market Landscape	27
1.2.1	Extent of market dominance	45
1.2.2	Domestic credit to private sector	15
1.2.3	Cluster development	30
1.2.4	R&D expenditure	42
1.2.5	ICT infrastructure	37
1.2.6	Urbanisation	42
1.3	Business and Labour Landscape	51
	Labour Market	
1.3.1	Labour rights	n/a
1.3.2	Labour-employer cooperation	25
	Management Practice	23
1.3.3	Professional management	43
1.3.4	Relationship of pay to productivity	46
1.5.1	Technology Adoption	10
1.3.5	Enterprise software	33
1.3.6	Cloud computing	40
1.3.7	Firms with website	70
1.5./	Tillis with website	70
2	ATTRACT	71
2.1	External Openness	52
	Attract Business	
2.1.1	FDI regulatory restrictiveness	74
2.1.2	Financial globalisation	48
	Attract People	
2.1.3	Migrant stock	45
2.1.4	International students	32
2.1.5	Brain gain	20
2.2	Internal Openness	98
	Social Inclusion	,,,,
2.2.1	Tolerance of minorities	56
2.2.2	Tolerance of immigrants	128
2.2.3	Social mobility	25
2.2.3	Gender Equality	23
2.2.4	Economic empowerment of women	126
2.2.4	Gender parity in high-skilled jobs	80
2.2.5	Leadership opportunities for women	26
2.2.0	Leadership opportunities for women	20

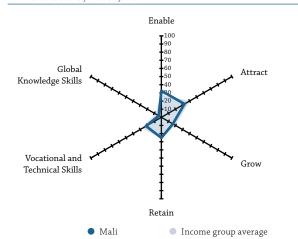
	(US\$ billions)	
	score	
GTCI	score (income group average)	43.5
	Score	Rar
3	GROW45.98	4
3.1	Formal Education	5
	Enrolment	
3.1.1 3.1.2	Vocational enrolment	-
5.1.2	Tertiary enrolment	
3.1.3	Tertiary education expenditure	
3.1.4	Reading, maths, and science	
3.1.5	University ranking	
3.2	Lifelong Learning	
.2.1	Business masters education	
.2.2	Prevalence of training in firms	
.2.3	Employee development	
3.3	Access to Growth Opportunities60.35	
	Empowerment	
3.3.1	Delegation of authority	
.3.2	Youth inclusion	
	Collaboration	
3.3.3	Use of virtual social networks	
3.3.4	Use of virtual professional networks	
ŀ	RETAIN 58.77	(
l.1	Sustainability	
.1.1	Pension coverage	1
.1.2 .1.3	Social protection	
1.1.4	Environmental performance	
1.1.5	Vulnerable employment	
.2	Lifestyle	
1.2.1	Personal rights	
1.2.2	Personal safety67.02	
1.2.3	Physician density34.82	
1.2.4	Sanitation	
<u> </u>	VOCATIONAL AND TECHNICAL SKILLS59.16	
) i.1	Mid-Level Skills	
.1.1	Workforce with secondary education	
.1.1	Population with secondary education	
.1.3	Technicians and associate professionals	
.1.4	Labour productivity per employee	
.2	Employability	
.2.1	Ease of finding skilled employees	
.2.2	Relevance of education system to the economy58.96	
.2.3	Skills matching	r
.2.4	Highly educated unemploymentn/a	r
,	GLOBAL KNOWLEDGE SKILLS	-
5.1	High-Level Skills	
5.1.1	Workforce with tertiary education	
.1.2	Population with tertiary education	
.1.3	Professionals	
.1.4	Researchers8.39	
.1.5	Senior officials and managers	
.1.6	Digital skills52.83	
.2	Talent Impact	
.2.1	Innovation output	
.2.2	High-value exports	
2.3	Software development	
5.2.4	New business density	

#### **MALI**

Key Indicators

Rank (out of 134)	127
Income group	Low income
Regional group	Sub-Saharan Africa
Population (millions)	22.59

GTCI 2023 Country Profile by Pillar



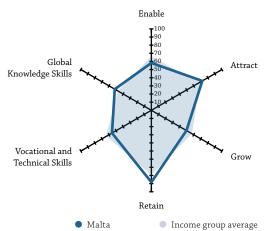
	Score	Rank
1	ENABLE	110
1.1	Regulatory Landscape	129
1.1.1	Government effectiveness	129
1.1.2	Rule of law	118
1.1.3	Political stability0.00	134
1.1.4	Regulatory quality25.97	107
1.1.5	Corruption	111
1.2	Market Landscape	103
1.2.1	Extent of market dominance	29
1.2.2	Domestic credit to private sector	96
1.2.3	Cluster development	93
1.2.4	R&D expenditure. 3.09	92
1.2.5	ICT infrastructure	120
1.2.6	Urbanisation	109
1.3	Business and Labour Landscape	47
1.5	Labour Market	
1.3.1	Labour rights	42
1.3.2	Labour-employer cooperation	72
1.J.Z	Management Practice	12
1.3.3	Professional management	116
1.3.3	Relationship of pay to productivity	65
1.3.4	Technology Adoption	00
1.3.5	Enterprise softwaren/a	n/a
1.3.6	Cloud computingn/a	n/a
1.3.7	Firms with website	80
2	ATTRACT32.77	123
2.1	External Openness	108
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation	115
2.1.2	Attract People	113
2.1.3	Migrant stock	72
2.1.4	International students	94
2.1.5	Brain gain	64
2.7	Internal Openness	125
2.2	Social Inclusion	123
2.2.1	Tolerance of minorities	113
2.2.1	Tolerance of immigrants	51
2.2.2	Social mobility	79
2.2.3		79
2.2.4	Gender Equality Economic empowerment of women	118
2.2.4		118
	Gender parity in high-skilled jobs	111
2.2.6	Leadership opportunities for women	111

GTCI	score (income group average)	22.
	Score	Ra
3	GROW	1
<b>3</b> .1	Formal Education	1
J.1	Enrolment	
3.1.1	Vocational enrolment	1
3.1.2	Tertiary enrolment	1
	Quality	
3.1.3	Tertiary education expenditure56.32	
3.1.4	Reading, maths, and science	1
3.1.5	University ranking0.00	
3.2	Lifelong Learning	1
3.2.1	Business masters education0.00	
3.2.2	Prevalence of training in firms	
3.2.3	Employee development	1
3.3	Access to Growth Opportunities	1
2.2.1	Empowerment 1744	
3.3.1 3.3.2	Delegation of authority	1
3.3.2	Youth inclusion	1
3.3.3	Use of virtual social networks	1
3.3.4	Use of virtual professional networks	1
J.J. <del>+</del>	ose of virtual professional fletworks	
_		
4	RETAIN	1
4.1	Sustainability	1
4.1.1	Pension coverage	1
4.1.2 4.1.3	Social protection	
4.1.3 4.1.4	Brain retention	
4.1.5	Vulnerable employment	
4.2	Lifestyle	
4.2.1	Personal rights	
4.2.2	Personal safety	1
4.2.3	Physician density	1
4.2.4	Sanitation	
5	VOCATIONAL AND TECHNICAL SKILLS21.67	1
5.1	Mid-Level Skills	
5.1.1	Workforce with secondary education	1
5.1.2	Population with secondary education2.30	
5.1.3	Technicians and associate professionals	1
5.1.4	Labour productivity per employee2.02	
5.2	Employability39.63	1
5.2.1	Ease of finding skilled employees	
5.2.2	Relevance of education system to the economy18.69	
5.2.3	Skills matching	
5.2.4	Highly educated unemployment	
5	GLOBAL KNOWLEDGE SKILLS3.75	1
6.1	High-Level Skills	1
6.1.1	Workforce with tertiary education	
6.1.2 6.1.3	Population with tertiary education. 1.02	
5.1.3 5.1.4	Professionals 3.50 Researchers 0.23	1
5.1.4	Senior officials and managers	
5.1.6	Digital skills	
5.1.0	Talent Impact. 6.05	1
5.2.1	Innovation output 9.08	
5.2.2	High-value exports. 9.75	
5.2.3	Software development	
5.2.4	New business density	1
5.2.5	Scientific journal articles	1

## **MALTA**

Key Indicators

Rank (out of 134)
Income group
Regional group
Population (millions)
GTCI 2023 Country Profile by Pillar



	Score	Rank
1	ENABLE	33
1.1	Regulatory Landscape65.93	34
1.1.1	Government effectiveness	33
1.1.2	Rule of law	34
1.1.3	Political stability86.46	13
1.1.4	Regulatory quality	38
1.1.5	Corruption	43
1.2	Market Landscape	50
1.2.1	Extent of market dominance	72
1.2.2	Domestic credit to private sector	41
1.2.3	Cluster development	61
1.2.4	R&D expenditure	52
1.2.5	ICT infrastructure	82
1.2.5	Urbanisation	6
1.3		26
1.5	Business and Labour Landscape	20
1.3.1	Labour rights	67
1.3.2	Labour-employer cooperation	40
1.3.3	Professional management	59
1.3.4	Relationship of pay to productivity	57
	Technology Adoption	
1.3.5	Enterprise software43.31	27
1.3.6	Cloud computing	27
1.3.7	Firms with website	11
2	ATTRACT72.14	20
2.1	External Openness	12
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation97.96	5
	Attract People	
2.1.3	Migrant stock	15
2.1.4	International students	15
2.1.5	Brain gain	12
2.2	Internal Openness	28
2.2.1	Tolerance of minorities	13
2.2.2	Tolerance of immigrants	34
2.2.3	Social mobility	38
	Gender Equality	
2.2.4	Economic empowerment of women87.61	35
2.2.5	Gender parity in high-skilled jobs	89
2.2.6	Leadership opportunities for women47.08	71

	per capita (PPP US\$)	
	(US\$ billions)	
	score	
GICI	score (income group average)	61.91
	Score	Rank
3	GROW49.73	33
<b>3</b> .1	Formal Education	44
٥.١	Enrolment 41.75	77
3.1.1	Vocational enrolment	51
3.1.2	Tertiary enrolment	30
	Quality	
3.1.3	Tertiary education expenditure	8
3.1.4	Reading, maths, and science50.93	41
3.1.5	University ranking0.00	76
3.2	Lifelong Learning40.80	42
3.2.1	Business masters education0.00	57
3.2.2	Prevalence of training in firms	21
3.2.3	Employee development	50
3.3	Access to Growth Opportunities	21
2 2 1	Empowerment Delegation of authority	F.4
3.3.1 3.3.2	Youth inclusion	54 42
3.3.2	Collaboration 74.09	42
3.3.3	Use of virtual social networks	35
3.3.4	Use of virtual professional networks	13
4	RETAIN	8
<b>4.</b> 1	Sustainability	12
4.1.1	Pension coverage 100.00	12
4.1.2	Social protection	31
4.1.3	Brain retention	30
4.1.4	Environmental performance	4
4.1.5	Vulnerable employment	40
4.2	Lifestyle	4
4.2.1	Personal rights91.36	32
4.2.2	Personal safety	10
4.2.3	Physician density	3
4.2.4	Sanitation	12
5	VOCATIONAL AND TECHNICAL SKILLS55.81	40
<b>5</b> .1	Mid-Level Skills	<b>49</b> 52
5.1.1	Workforce with secondary education	54
5.1.2	Population with secondary education	59
5.1.3	Technicians and associate professionals53.95	33
5.1.4	Labour productivity per employee	28
5.2	Employability64.29	45
5.2.1	Ease of finding skilled employees	109
5.2.2	Relevance of education system to the economy52.45	44
5.2.3	Skills matching	22
5.2.4	Highly educated unemployment90.93	13
	CLODAL VNOWLEDGE CVILLS 51 00	10
<b>6</b> 6.1	<b>GLOBAL KNOWLEDGE SKILLS</b>	<b>19</b> 29
6.1.1	Workforce with tertiary education	38
6.1.2	Population with tertiary education	
6.1.3	Professionals	29
6.1.4	Researchers	
6.1.5	Senior officials and managers	7
6.1.6	Digital skills	25
6.2	Talent Impact	14
	Innovation output73.10	13
	1 link and a new new new new new new new new new new	7
6.2.2	High-value exports59.92	
6.2.2 6.2.3	Software development82.75	25
6.2.1 6.2.2 6.2.3 6.2.4 6.2.5		

## **MAURITANIA**

egio	ne group	Sub-Saharan A			score (income group average)	
_	CI 2023 Country Profile by Pillar		.4.74	GICI	Score (income group average)	
GIV	er 2025 Country Frome by Final					
	Enable			3	GROW	
	<b>▼</b> 100			3.1	Formal Education	0 10
	90			3.1.1	Vocational enrolment	8 10
	<b>1</b> 80			3.1.2	Tertiary enrolment	
	Global †60	Attract			Quality	
Kno	wledge Skills			3.1.3	Tertiary education expenditure54.6	5
	130			3.1.4	Reading, maths, and sciencen/	'a n
	110			3.1.5	University ranking0.0	
				3.2	Lifelong Learning	
		<b>X</b>		3.2.1	Business masters education	
		***		3.2.2 3.2.3	Prevalence of training in firms	
	ocational and	Grow		3.3	Access to Growth Opportunities 6.9	
Te	chnical Skills				Empowerment	
	‡			3.3.1	Delegation of authority	9 1:
	1			3.3.2	Youth inclusion	
	Retain			_	Collaboration	
	Mauritania	come group average		3.3.3	Use of virtual social networks	
		come group average		3.3.4	Use of virtual professional networks	1 1
		Score	Rank	_		
	ENABLE	22.44	127	4	RETAIN	
	Regulatory Landscape	25.66	114	4.1	Sustainability 21.7 Pension coverage 8.3	
.1	Government effectiveness		112	4.1.1 4.1.2	Social protection	
2	Rule of law		109	4.1.3	Brain retention	
3	Political stability		103	4.1.4	Environmental performance	
4 5	Regulatory quality		128 108	4.1.5	Vulnerable employment	0 1
	Market Landscape		130	4.2	Lifestyle30.1	
2.1	Extent of market dominance		134	4.2.1	Personal rights	
.2	Domestic credit to private sector		108	4.2.2	Personal safety	
2.3	Cluster development		127	4.2.3 4.2.4	Physician density2.2 Sanitation44.9	
.4	R&D expenditure		115	4.2.4	Salitation	ا د
2.5 2.6	ICT infrastructure		n/a 93			
3	Business and Labour Landscape		129	5	VOCATIONAL AND TECHNICAL SKILLS	
	Labour Market		123	5.1 5.1.1	Mid-Level Skills	
3.1	Labour rights	75.47	67	5.1.2	Population with secondary education	
.2	Labour-employer cooperation	6.58	131	5.1.3	Technicians and associate professionals	
	Management Practice			5.1.4	Labour productivity per employeen/	
1.3	Professional management		134	5.2	Employability	
3.4	Relationship of pay to productivity Technology Adoption	0.00	134	5.2.1	Ease of finding skilled employees	
3.5	Enterprise software	n/a	n/a	5.2.2 5.2.3	Relevance of education system to the economy	
3.6	Cloud computing		n/a	5.2.3	Skills matching	
.7	Firms with website		84	3.2.1	riigiliy caacacca ahempioyment	
				6	GLOPAL KNOWLEDGE SKILLS 6.7	0 1
	ATTRACT	28.70	129	<b>6</b> 6.1	GLOBAL KNOWLEDGE SKILLS6.7 High-Level Skills8.5	
	External Openness	30.78	109	6.1.1	Workforce with tertiary education	
	Attract Business			6.1.2	Population with tertiary education1.6	8
.1	FDI regulatory restrictiveness		n/a	6.1.3	Professionals	
.2	Financial globalisation	46.98	94	6.1.4	Researchers	
3	Attract People Migrant stock	27 77	75	6.1.5 6.1.6	Senior officials and managers	
د. 4	International students		82	6.1.0	Talent Impact	
5	Brain gain		100	6.2.1	Innovation output	
	Internal Openness		133	6.2.2	High-value exports	
	Social Inclusion			6.2.3	Software development	
.1	Tolerance of minorities		101	6.2.4	New business density	
.2	Tolerance of immigrants		102	6.2.5	Scientific journal articles	4 1
.3	Social mobility	38.33	86			
	Economic empowerment of women	26.55	128			
4						

## **MAURITIUS**

	(out of 134)				per capita (PPP US\$)	=	
	ne group				(US\$ billions)		
-	onal group				score		
Popul	lation (millions)		1.26	GTCI	score (income group average)		43.53
GT	CI 2023 Country Profile by Pillar					Score	Rank
				3	GROW	32.68	78
	Enable			3.1	Formal Education.		88
	<b>I</b> <sup>100</sup> 90				Enrolment		
	<b>I</b> 80			3.1.1	Vocational enrolment	11.33	81
	70 Global +60			3.1.2	Tertiary enrolment	29.35	69
17	Global	→ Attract			Quality		
Knc	owledge Skills			3.1.3	Tertiary education expenditure		88
	120			3.1.4	Reading, maths, and science		n/a
	110			3.1.5	University ranking.		76
				3.2 3.2.1	Lifelong Learning.		70 57
				3.2.1	Business masters education  Prevalence of training in firms		n/a
		<b>X</b>		3.2.3	Employee development		44
	ocational and	Grow		3.3	Access to Growth Opportunities		75
Te	echnical Skills			3.3	Empowerment		
	<b>†</b>			3.3.1	Delegation of authority	44.53	70
	1			3.3.2	Youth inclusion		11
	Retain				Collaboration		
	Mauritius Income			3.3.3	Use of virtual social networks		6.5
	Mauritius Income	group average		3.3.4	Use of virtual professional networks	41.56	28
		Score	Rank				
	ENABLE	E4.00	39	4	RETAIN	68.99	4
1	Regulatory Landscape.		<b>39</b> 32	4.1	Sustainability	64.77	4
.1	Government effectiveness		35	4.1.1	Pension coverage	100.00	
.2	Rule of law		33	4.1.2	Social protection		6
1.3	Political stability.		25	4.1.3	Brain retention		5
1.4	Regulatory quality		26	4.1.4	Environmental performance		5
1.5	Corruption	45.21	46	4.1.5	Vulnerable employment		5
2	Market Landscape	37.83	88	4.2	Lifestyle		5
2.1	Extent of market dominance	21.67	106	4.2.1 4.2.2	Personal rights		5
2.2	Domestic credit to private sector		38	4.2.2	Physician density		5
2.3	Cluster development		53	4.2.4	Sanitation		6
2.4	R&D expenditure		69	1.2.1	Sumation		02
2.5 2.6	ICT infrastructure		75 110				
2.0 3	Business and Labour Landscape		27	5	VOCATIONAL AND TECHNICAL SKILLS		52
)	Labour Market		21	5.1	Mid-Level Skills		40
3.1	Labour rights	71.45	74	5.1.1 5.1.2	Workforce with secondary education		1
3.2	Labour-employer cooperation		51	5.1.2	Population with secondary education  Technicians and associate professionals		n/ 4
	Management Practice			5.1.4	Labour productivity per employee		5
3.3	Professional management	50.04	68	5.2	Employability.		7
3.4	Relationship of pay to productivity	57.13	56	5.2.1	Ease of finding skilled employees		8
	Technology Adoption			5.2.2	Relevance of education system to the economy		7
3.5	Enterprise software		4	5.2.3	Skills matching	64.35	5
3.6	Cloud computing		30	5.2.4	Highly educated unemployment	70.36	8
3.7	Firms with website	n/a	n/a				
				6	GLOBAL KNOWLEDGE SKILLS	22.92	77
	ATTRACT		37	6.1	High-Level Skills		92
1	External Openness	53.77	47	6.1.1	Workforce with tertiary education		74
1 1	Attract Business	/	n /-	6.1.2	Population with tertiary education		n/
1.1 1.2	FDI regulatory restrictiveness		n/a 2	6.1.3	Professionals		7
1.∠	Attract People	99.20	2	6.1.4	Researchers		6
1.3	Migrant stock	28.78	91	6.1.5 6.1.6	Senior officials and managers		8 6
1.4	International students.		37	6.2	Talent Impact.		6
1.5	Brain gain		28	6.2.1	Innovation output		5
2	Internal Openness		32	6.2.2	High-value exports		12
	Social Inclusion			6.2.3	Software development		5
2.1	Tolerance of minorities		52	6.2.4	New business density		2
2.2	Tolerance of immigrants		16	6.2.5	Scientific journal articles	5.85	7
2.3	Social mobility		57				
_	Gender Equality						
.4	Economic empowerment of women		41				
2.5	Gender parity in high-skilled jobs		41				
2.6	Leadership opportunities for women		89				

## **MEXICO**

Key Indicators

	(out of 134)		<b>'4</b>		per capita (PPP US\$)		
Incon	ne group	Upper-middle inc	ome	GDP	(US\$ billions)	1,41	14.19
_	nal group <b>Lati</b>				score		
Popul	lation (millions)	12	7.50	GTCI	score (income group average)	4	13.5
GT	CI 2023 Country Profile by Pillar				Sci	core	Rank
	r 11			3	GROW47	.09	41
	Enable			3.1	Formal Education	1.96	43
	<b>I</b> <sup>10</sup> 90			244	Enrolment		
	‡80 70			3.1.1 3.1.2	Vocational enrolment		2) 7)
	Global	Attract		3.1.2	Quality	9.03	/
Kno	owledge Skills	A PARA SILLIAN		3.1.3	Tertiary education expenditure	0.91	5
	130			3.1.4	Reading, maths, and science		5
	10			3.1.5	University ranking		2
		<b>x</b> .		3.2	Lifelong Learning		2
	1			3.2.1 3.2.2	Business masters education		2
	The second second			3.2.2	Employee development		n/ 6
	ocational and 🗸	Grow		3.3	Access to Growth Opportunities		6
16	t I				Empowerment		
	Ŧ			3.3.1	Delegation of authority		8
	1			3.3.2	Youth inclusion	5.36	6
	Retair	1		3.3.3	Collaboration Use of virtual social networks	Q 77	4
	<ul><li>Mexico</li></ul>	Income group average		3.3.4	Use of virtual professional networks		5
		Score	Pank				
			Rank	4	RETAIN58	.88	6
,	ENABLE		81	4.1	Sustainability		6
l l.1	Regulatory Landscape Government effectiveness		101 88	4.1.1	Pension coverage		
.2	Rule of law		110	4.1.2	Social protection		11
.3	Political stability		101	4.1.3	Brain retention		-
.4	Regulatory quality		84	4.1.4 4.1.5	Environmental performance		5
1.5	Corruption		104	4.2	Lifestyle		6
2 2.1	Market Landscape		68 96	4.2.1	Personal rights		7
z.1 2.2	Extent of market dominance  Domestic credit to private sector		86	4.2.2	Personal safety4	7.24	9
2.3	Cluster development		41	4.2.3	Physician density		6
2.4	R&D expenditure		76	4.2.4	Sanitation9	1.68	7
2.5	ICT infrastructure		61				
2.6	Urbanisation		35	5	VOCATIONAL AND TECHNICAL SKILLS41		7
3	Business and Labour Landscape Labour Market	40.34	82	5.1	Mid-Level Skills		8
3.1	Labour rights	73.99	72	5.1.1 5.1.2	Workforce with secondary education		8 7
3.2	Labour-employer cooperation		54	5.1.2	Technicians and associate professionals		6
	Management Practice			5.1.4	Labour productivity per employee2		6
3.3	Professional management		89	5.2	Employability55		7
3.4	Relationship of pay to productivity Technology Adoption	43.01	103	5.2.1	Ease of finding skilled employees		8
3.5	Enterprise software	18.09	84	5.2.2 5.2.3	Relevance of education system to the economy		11
3.6	Cloud computing		38	5.2.4	Highly educated unemployment		3
3.7	Firms with website	36.91	82		5 , , . ,		
				6	GLOBAL KNOWLEDGE SKILLS24	.31	7
	ATTRACT	41.79	98	6.1	High-Level Skills20		8
.1	External Openness	31.32	104	6.1.1	Workforce with tertiary education		7
1.1	Attract Business  FDI regulatory restrictiveness	50.27	67	6.1.2	Population with tertiary education		6
1.2	Financial globalisation		80	6.1.3 6.1.4	Professionals		7
	Attract People		00	6.1.5	Senior officials and managers		7
1.3	Migrant stock		126	6.1.6	Digital skills		2
1.4	International students		93	6.2	Talent Impact		6
1.5	Brain gain		84	6.2.1	Innovation output		5
2	Internal Openness	52.26	78	6.2.2	High-value exports		7
2.1	Tolerance of minorities	35 11	82	6.2.3 6.2.4	Software development		8
2.2	Tolerance of immigrants		66	6.2.5	Scientific journal articles		7
2.3	Social mobility		114				
	Gender Equality						
2.4	Economic empowerment of womer Gender parity in high-skilled jobs		43 35				
2.5							

# MOLDOVA, REP.

Key Indicators

Vocational and Technical Skills

Rank (out of 134) Income group Regional group		Upper-middle income
Population (millions)		-
GTCI 2023 Country Profile by Pil	lar	
	Enable	
Global Knowledge Skills	100 90 80 70 60 50	Attract

Retain

Moldova, Rep.

Income group average

Score Rank

1.1       Regulatory Landscape       39.53         1.1.1       Government effectiveness       32.76         1.1.2       Rule of law       36.47         1.1.3       Political stability       .55.83         1.1.4       Regulatory quality       .42.46         1.1.5       Corruption       .30.14         1.2       Market Landscape       .32.90         1.2.1       Extent of market dominance       .34.64         1.2.2       Domestic credit to private sector       .32.18         1.2.3       Cluster development       .18.51         1.2.4       R&D expenditure       .41.5         1.2.5       ICT infrastructure       .73.86         1.2.6       Urbanisation       .34.03         1.3       Business and Labour Landscape       .42.11         Labour Market       .31.1       Labour rights       .88.07         1.3.2       Labour-employer cooperation       .20.13         Management Practice       .33.4       Relationship of pay to productivity       .48.77         Technology Adoption       .35.       Enterprise software       .26.68         1.3.6       Cloud computing       .23.46         1.3.7       Firms with website       .44.59		30010	riarini
1.1.1       Government effectiveness       .32.76         1.1.2       Rule of law       .36.47         1.1.3       Political stability       .55.83         1.1.4       Regulatory quality       .42.46         1.1.5       Corruption       .30.14         1.2       Market Landscape       .32.90         1.2.1       Extent of market dominance       .34.64         1.2.2       Domestic credit to private sector       .32.18         1.2.3       Cluster development       .18.51         1.2.4       R&D expenditure       .41.5         1.2.5       ICT infrastructure       .73.86         1.2.6       Urbanisation       .34.03         1.3       Business and Labour Landscape       .42.11         1.2abour Market       .26.00       .42.11         1.3.1       Labour rights       .88.07         1.3.2       Labour employer cooperation       .20.13         Management Practice       .32.13         1.3.4       Relationship of pay to productivity       .48.77         Technology Adoption       .35.       Enterprise software       .26.68         1.3.6       Cloud computing       .23.46         1.3.7       Firms with website <t< th=""><th>1</th><th>ENABLE38.18</th><th>88</th></t<>	1	ENABLE38.18	88
1.1.1       Government effectiveness       .32.76         1.1.2       Rule of law       .36.47         1.1.3       Political stability       .55.83         1.1.4       Regulatory quality       .42.46         1.1.5       Corruption       .30.14         1.2       Market Landscape       .32.90         1.2.1       Extent of market dominance       .34.64         1.2.2       Domestic credit to private sector       .32.18         1.2.3       Cluster development       .18.51         1.2.4       R&D expenditure       .41.5         1.2.5       ICT infrastructure       .73.86         1.2.6       Urbanisation       .34.03         1.3       Business and Labour Landscape       .42.11         Labour Market       .26.00       .20.13         1.3.1       Labour rights       .88.07         1.3.2       Labour employer cooperation       .20.13         Management Practice       .20.13         1.3.4       Relationship of pay to productivity       .48.77         Technology Adoption       .35       Enterprise software       .26.68         1.3.6       Cloud computing       .23.46         1.3.7       Firms with website       .	1.1	Regulatory Landscape	79
1.1.2       Rule of law       .36.47         1.1.3       Political stability       .55.83         1.1.4       Regulatory quality       .42.46         1.1.5       Corruption       .30.14         1.2       Market Landscape       .32.90         1.2.1       Extent of market dominance       .34.64         1.2.2       Domestic credit to private sector       .32.18         1.2.3       Cluster development       .18.51         1.2.4       R&D expenditure       .41.5         1.2.5       ICT infrastructure       .73.86         1.2.6       Urbanisation       .34.03         1.3       Business and Labour Landscape       .42.11         Labour Market       .88.07         1.3.1       Labour rights       .88.07         1.3.2       Labour-employer cooperation       .20.13         Management Practice       .88.07         1.3.4       Relationship of pay to productivity       .48.77         Technology Adoption       .26.68         1.3.6       Cloud computing       .23.46         1.3.7       Firms with website       .44.59              2       ATTRACT       52.09         2.1       Ex	1.1.1		93
1.1.4       Regulatory quality.       .42.46         1.1.5       Corruption       .30.14         1.2       Market Landscape       .32.90         1.2.1       Extent of market dominance       .34.64         1.2.2       Domestic credit to private sector       .32.18         1.2.3       Cluster development       .18.51         1.2.4       R&D expenditure       .415         1.2.5       ICT infrastructure       .73.86         1.2.6       Urbanisation       .34.03         1.3       Business and Labour Landscape       .42.11         Labour Market       .88.07         1.3.1       Labour rights       .88.07         1.3.2       Labour-employer cooperation       .20.13         Management Practice       .33         1.3.4       Relationship of pay to productivity       .48.77         Technology Adoption       .35         1.3.5       Enterprise software       .26.68         1.3.6       Cloud computing       .23.46         1.3.7       Firms with website       .44.59             2       ATTRACT       52.09         2.1       External Openness       .48.99         Attract People       .21.3 </td <td>1.1.2</td> <td>Rule of law</td> <td>82</td>	1.1.2	Rule of law	82
1.1.5       Corruption       30.14         1.2       Market Landscape       32.90         1.2.1       Extent of market dominance       34.64         1.2.2       Domestic credit to private sector       32.18         1.2.3       Cluster development       18.51         1.2.4       R&D expenditure       4.15         1.2.5       ICT infrastructure       73.86         1.2.6       Urbanisation       34.03         1.3       Business and Labour Landscape       42.11         Labour Market       42.11         1.3.1       Labour rights       88.07         1.3.2       Labour-employer cooperation       20.13         Management Practice       20.13         1.3.3       Professional management       43.04         1.3.4       Relationship of pay to productivity       48.77         Technology Adoption       1.3.5       Enterprise software       26.68         1.3.6       Cloud computing       23.46         1.3.7       Firms with website       44.59             2       ATTRACT       52.09         2.1       External Openness       48.99         Attract Business       48.99         Attr	1.1.3	Political stability55.83	73
1.1.5       Corruption       30.14         1.2       Market Landscape       32.90         1.2.1       Extent of market dominance       34.64         1.2.2       Domestic credit to private sector       32.18         1.2.3       Cluster development       18.51         1.2.4       R&D expenditure       4.15         1.2.5       ICT infrastructure       73.86         1.2.6       Urbanisation       34.03         1.3       Business and Labour Landscape       42.11         Labour Market       42.11         1.3.1       Labour rights       88.07         1.3.2       Labour-employer cooperation       20.13         Management Practice       20.13         1.3.3       Professional management       43.04         1.3.4       Relationship of pay to productivity       48.77         Technology Adoption       1.3.5       Enterprise software       26.68         1.3.6       Cloud computing       23.46         1.3.7       Firms with website       44.59             2       ATTRACT       52.09         2.1       External Openness       48.99         Attract Business       48.99         Attr	1.1.4	Regulatory quality	71
1.2.1       Extent of market dominance       .34.64         1.2.2       Domestic credit to private sector       .32.18         1.2.3       Cluster development       .18.51         1.2.4       R&D expenditure       .41.5         1.2.5       ICT infrastructure       .73.86         1.2.6       Urbanisation       .34.03         1.3       Business and Labour Landscape       .42.11         Labour Market       .88.07         1.3.1       Labour rights       .88.07         1.3.2       Labour-employer cooperation       .20.13         Management Practice       .20.13         1.3.3       Professional management       .43.04         1.3.4       Relationship of pay to productivity       .48.77         Technology Adoption       .26.68         1.3.5       Enterprise software       .26.68         1.3.6       Cloud computing       .23.46         1.3.7       Firms with website       .44.59             2       ATTRACT       52.09         2.1       External Openness       .48.99         Attract Business       .28.59         2.1.1       Financial globalisation       .58.99         Attract People       .2	1.1.5		71
1.2.2       Domestic credit to private sector       32.18         1.2.3       Cluster development.       .18.51         1.2.4       R&D expenditure.       .415         1.2.5       ICT infrastructure.       .73.86         1.2.6       Urbanisation       .34.03         1.3       Business and Labour Landscape.       .42.11         Labour Market       .88.07         1.3.1       Labour-employer cooperation       .20.13         Management Practice       .43.04         1.3.3       Professional management       .43.04         1.3.4       Relationship of pay to productivity       .48.77         Technology Adoption       .26.68         1.3.5       Enterprise software       .26.68         1.3.6       Cloud computing       .23.46         1.3.7       Firms with website       .44.59         2       ATTRACT       52.09         2.1       External Openness       .48.99         Attract Business       .84.86         2.1.2       Financial globalisation       .58.99         Attract People       .23.51         2.1.3       Migrant stock       .28.59         2.1.4       International students       .23.51      <	1.2	Market Landscape32.90	104
1.2.3       Cluster development.       18.51         1.2.4       R&D expenditure.       4.15         1.2.5       ICT infrastructure.       73.86         1.2.6       Urbanisation       34.03         1.3       Business and Labour Landscape.       42.11         Labour Market	1.2.1	Extent of market dominance	81
1.2.3       Cluster development.       18.51         1.2.4       R&D expenditure.       4.15         1.2.5       ICT infrastructure.       73.86         1.2.6       Urbanisation       34.03         1.3       Business and Labour Landscape.       42.11         Labour Market       1.3.1       Labour rights.       88.07         1.3.2       Labour-employer cooperation       20.13         Management Practice       3.3       Professional management       43.04         1.3.4       Relationship of pay to productivity       48.77         Technology Adoption       23.46         1.3.5       Enterprise software       26.68         1.3.6       Cloud computing       23.46         1.3.7       Firms with website       44.59             2       ATTRACT       52.09         2.1       External Openness       48.99         Attract Business       48.86         2.1.1       FDI regulatory restrictiveness       84.86         2.1.2       Financial globalisation       58.99         Attract People       21.3       Migrant stock       28.59         2.1.4       International students       23.51         2.1.5	1.2.2	Domestic credit to private sector	101
1.2.5       ICT infrastructure.       .73.86         1.2.6       Urbanisation       .34.03         1.3       Business and Labour Landscape.       .42.11         Labour Market       .88.07         1.3.1       Labour rights.       .88.07         1.3.2       Labour-employer cooperation       .20.13         Management Practice       .88.07         1.3.3       Professional management       .43.04         1.3.4       Relationship of pay to productivity       .48.77         Technology Adoption       .3.5       Enterprise software       .26.68         1.3.6       Cloud computing       .23.46         1.3.7       Firms with website       .44.59         2       ATTRACT       52.09         2.1       External Openness       .48.99         Attract Business       .21.1         2.1.1       FDI regulatory restrictiveness       .84.86         2.1.2       Financial globalisation       .58.99         Attract People       .21.3       Migrant stock       .28.59         2.1.4       International students       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20	1.2.3	Cluster development	124
1.2.6       Urbanisation       .34.03         1.3       Business and Labour Landscape       .42.11         Labour Market       .88.07         1.3.1       Labour-employer cooperation       .20.13         Management Practice       .20.13         1.3.4       Relationship of pay to productivity       .48.77         Technology Adoption       .26.68         1.3.5       Enterprise software       .26.68         1.3.7       Firms with website       .44.59         2       ATTRACT       52.09         2.1       External Openness       .48.99         Attract Business       .48.99         2.1.1       FDI regulatory restrictiveness       .84.86         2.1.2       Financial globalisation       .58.99         Attract People       .21.3       Migrant stock       .28.59         2.1.4       International students       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion	1.2.4	R&D expenditure4.15	86
1.3         Business and Labour Landscape.         42.11           Labour Market         88.07           1.3.1         Labour-employer cooperation         20.13           Management Practice         43.04           1.3.3         Professional management         43.04           1.3.4         Relationship of pay to productivity         48.77           Technology Adoption         26.68           1.3.5         Enterprise software         26.68           1.3.6         Cloud computing         23.46           1.3.7         Firms with website         44.59           2         ATTRACT         52.09           2.1         External Openness         48.99           Attract Business         21.1           2.1.1         FDI regulatory restrictiveness         84.86           2.1.2         Financial globalisation         58.99           Attract People         21.3           2.1.3         Migrant stock         28.59           2.1.4         International students         23.51           2.1.5         Brain gain         n/a           2.2         Internal Openness         55.20           Social Inclusion	1.2.5	ICT infrastructure	46
Labour Market         1.3.1       Labour rights.       .88.07         1.3.2       Labour-employer cooperation       .20.13         Management Practice       .3.3       Professional management       .43.04         1.3.4       Relationship of pay to productivity.       .48.77         Technology Adoption       .23.46         1.3.5       Enterprise software       .26.68         1.3.6       Cloud computing       .23.46         1.3.7       Firms with website       .44.59            2       ATTRACT       52.09         2.1       External Openness       .48.99         Attract Business       .48.99         Attract Business       .84.86         2.1.1       FDI regulatory restrictiveness       .84.86         2.1.2       Financial globalisation       .58.99         Attract People       .21.3         2.1.3       Migrant stock       .28.59         2.1.4       International students       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion	1.2.6	Urbanisation	108
1.3.1       Labour rights.       .88.07         1.3.2       Labour-employer cooperation       .20.13         Management Practice       .20.13         1.3.3       Professional management       .43.04         1.3.4       Relationship of pay to productivity       .48.77         Technology Adoption       .26.68         1.3.6       Cloud computing       .23.46         1.3.7       Firms with website       .44.59         2       ATTRACT       52.09         2.1       External Openness       .48.99         Attract Business       .48.99         2.1.1       FDI regulatory restrictiveness       .84.86         2.1.2       Financial globalisation       .58.99         Attract People       .21.3       Migrant stock       .28.59         2.1.4       International students       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion       .55.20	1.3	Business and Labour Landscape	72
1.3.2       Labour-employer cooperation Management Practice       .20.13         1.3.3       Professional management Manageme		Labour Market	
Management Practice         1.3.3       Professional management       .43.04         1.3.4       Relationship of pay to productivity       .48.77         Technology Adoption       .26.68         1.3.5       Enterprise software       .26.68         1.3.6       Cloud computing       .23.46         1.3.7       Firms with website       .44.59         2       ATTRACT       52.09         2.1       External Openness       .48.99         Attract Business       .48.99         2.1.1       FDI regulatory restrictiveness       .84.86         2.1.2       Financial globalisation       .58.99         Attract People       .21.3       Migrant stock       .28.59         2.1.4       International students       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion	1.3.1	Labour rights	43
1.3.3       Professional management       43.04         1.3.4       Relationship of pay to productivity.       48.77         Technology Adoption       26.68         1.3.5       Enterprise software       26.68         1.3.6       Cloud computing       23.46         1.3.7       Firms with website       44.59         2       ATTRACT       52.09         2.1       External Openness       48.99         Attract Business       21.1         2.1.1       FDI regulatory restrictiveness       .84.86         2.1.2       Financial globalisation       .58.99         Attract People       21.3       Migrant stock       .28.59         2.1.4       International students       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion	1.3.2	Labour-employer cooperation	118
1.3.3       Professional management       43.04         1.3.4       Relationship of pay to productivity.       48.77         Technology Adoption       26.68         1.3.5       Enterprise software       26.68         1.3.6       Cloud computing       23.46         1.3.7       Firms with website       44.59         2       ATTRACT       52.09         2.1       External Openness       48.99         Attract Business       21.1         2.1.1       FDI regulatory restrictiveness       .84.86         2.1.2       Financial globalisation       .58.99         Attract People       21.3       Migrant stock       .28.59         2.1.4       International students       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion		Management Practice	
1.3.4       Relationship of pay to productivity.       .48.77         Technology Adoption       .26.68         1.3.5       Enterprise software       .26.68         1.3.6       Cloud computing       .23.46         1.3.7       Firms with website       .44.59         2       ATTRACT       52.09         2.1       External Openness       .48.99         Attract Business       .21.1         2.1.1       FDI regulatory restrictiveness       .84.86         2.1.2       Financial globalisation       .58.99         Attract People       .21.3         2.1.4       International students       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion	1.3.3	2	78
Technology Adoption         1.3.5 Enterprise software       .26.68         1.3.6 Cloud computing       .23.46         1.3.7 Firms with website       .44.59         2 ATTRACT       .52.09         2.1 External Openness       .48.99         Attract Business       .84.86         2.1.2 Financial globalisation       .58.99         Attract People       .21.3 Migrant stock       .28.59         2.1.4 International students       .23.51         2.1.5 Brain gain       .n/a         2.2 Internal Openness       .55.20         Social Inclusion	1.3.4	9	84
1.3.5       Enterprise software       26.68         1.3.6       Cloud computing       23.46         1.3.7       Firms with website       .44.59         2       ATTRACT       52.09         2.1       External Openness       .48.99         Attract Business       .84.86         2.1.2       Financial globalisation       .58.99         Attract People       .21.3         2.1.4       International students       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion			
1.3.6       Cloud computing       23.46         1.3.7       Firms with website       .44.59         2       ATTRACT       52.09         2.1       External Openness       .48.99         Attract Business       .48.99         2.1.1       FDI regulatory restrictiveness       .84.86         2.1.2       Financial globalisation       .58.99         Attract People       .21.3       Migrant stock       .28.59         2.1.4       International students       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion	135		53
1.3.7       Firms with website       .44.59         2       ATTRACT       .52.09         2.1       External Openness       .48.99         Attract Business       .84.86         2.1.2       Financial globalisation       .58.99         Attract People       .21.3         2.1.3       Migrant stock       .28.59         2.1.4       International students       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion		· ·	34
2.1       External Openness       48.99         Attract Business       84.86         2.1.1       FDI regulatory restrictiveness       84.86         2.1.2       Financial globalisation       58.99         Attract People       2.1.3       Migrant stock       .28.59         2.1.4       International students       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion			71
2.1       External Openness       48.99         Attract Business       84.86         2.1.1       FDI regulatory restrictiveness       84.86         2.1.2       Financial globalisation       58.99         Attract People       2.1.3       Migrant stock       .28.59         2.1.4       International students       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion			
Attract Business  2.1.1 FDI regulatory restrictiveness	2	ATTRACT 52.09	60
2.1.1       FDI regulatory restrictiveness       .84.86         2.1.2       Financial globalisation       .58.99         Attract People	2.1	External Openness	59
2.1.2       Financial globalisation       .58.99         Attract People       .28.59         2.1.3       Migrant stock       .28.59         2.1.4       International students       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion		Attract Business	
2.1.2       Financial globalisation       .58.99         Attract People       .28.59         2.1.3       Migrant stock       .28.59         2.1.4       International students       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion	2.1.1	FDI regulatory restrictiveness	40
2.1.3       Migrant stock       .28.59         2.1.4       International students       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion	2.1.2		73
2.1.4       International students.       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion       .55.20		Attract People	
2.1.4       International students.       .23.51         2.1.5       Brain gain       .n/a         2.2       Internal Openness       .55.20         Social Inclusion       .55.20	2.1.3	Migrant stock	92
2.2 Internal Openness	2.1.4	9	40
2.2 Internal Openness	2.1.5	Brain gain	n/a
Social Inclusion	2.2	3	69
		· · · · · · · · · · · · · · · · · · ·	-
	221		78
2.2.2 Tolerance of immigrants			98
2.2.3 Social mobility			85
Gender Equality			0.5
2.2.4 Economic empowerment of women82.30	224		52
2.2.5 Gender parity in high-skilled jobs			99
2.2.6 Leadership opportunities for women			9
2.2.0 Leadership opportunities for women	2.2.0	zeadership opportunities for Women	9

GTCI	score	44.3
	score (income group average)	
	Score	Ra
3	GROW	7
3.1	Formal Education	
	Enrolment	
3.1.1	Vocational enrolment	
3.1.2	Tertiary enrolment41.00	
	Quality	
3.1.3	Tertiary education expenditure57.01	
3.1.4	Reading, maths, and science	
3.1.5	University ranking	
3.2	Lifelong Learning	
3.2.1	Business masters education	
3.2.2 3.2.3	Employee development	
3.3	Access to Growth Opportunities	
))	Empowerment 59.65	
3.3.1	Delegation of authority	
3.3.2	Youth inclusion	
	Collaboration	
3.3.3	Use of virtual social networks	
3.3.4	Use of virtual professional networks	
<b>l</b> l.1	<b>RETAIN.</b>	
+. i 1.1.1	Pension coverage	
1.1.2	Social protection	
1.1.3	Brain retention	1
1.1.4	Environmental performance	
4.1.5	Vulnerable employment	
1.2	Lifestyle	
4.2.1	Personal rights	
4.2.2	Personal safety	
4.2.3	Physician density	
1.2.4	Sanitation	
5	VOCATIONAL AND TECHNICAL SKILLS50.79	
5.1	Mid-Level Skills	
5.1.1	Workforce with secondary education	
5.1.2	Population with secondary education	
5.1.3	Technicians and associate professionals	
5.1.4	Labour productivity per employee16.31	
5.2	Employability62.41	
5.2.1	Ease of finding skilled employees	1
5.2.2	Relevance of education system to the economy38.36	
5.2.3	Skills matching	
5.2.4	Highly educated unemployment	
	GLOBAL KNOWLEDGE SKILLS27.57	
5.1	High-Level Skills	
5.1.1	Workforce with tertiary education	
5.1.2	Population with tertiary education	
5.1.3	Professionals	
5.1.4	Researchers8.93	
5.1.5	Senior officials and managers	
5.1.6	Digital skills	r
5.2	Talent Impact	
5.2.1	Innovation output	
5.2.2	High-value exports	
5.2.3	Software development	
1/4	New business densityn/a	r

## **MONGOLIA**

	134)	· · · · · · · · · · · · · · · · · · ·	<b>76</b>		per capita (PPP US\$)	
	p				(US\$ billions)	
	up <b>Eastern, Sout</b>				score	
(r	millions)		3.40	GTCI	score (income group average)	32.03
Cc	ountry Profile by Pillar				Score	Rank
	r 11			3	GROW 33.50	73
	Enable			3.1	Formal Education	110
	$\mathbf{I}_{90}^{100}$				Enrolment	
	<b>+</b> 80			3.1.1	Vocational enrolment	
Gl	lobal   170	. Attract		3.1.2	Tertiary enrolment	39
	kills 50	Attract		3.1.3	Quality Tertiary education expenditure	111
	30			3.1.3	Reading, maths, and science	
	20	4		3.1.5	University ranking	
		/		3.2	Lifelong Learning43.05	
		<b>L</b> .		3.2.1	Business masters education0.00	57
				3.2.2	Prevalence of training in firms	
al	and V	<b>*</b>		3.2.3	Employee development	
S	kills <b>İ</b>	Grow		3.3	Access to Growth Opportunities	76
	Į			2.21	Empowerment 22.50	110
	İ			3.3.1 3.3.2	Delegation of authority	113 59
	Retain			5.5.2	Youth inclusion	59
	Retaili			3.3.3	Use of virtual social networks	54
	<ul><li>Mongolia</li></ul>	Income group average		3.3.4	Use of virtual professional networks	
		Score	Rank		·	
RI	LE	41 50	72	4	RETAIN 56.57	73
	tory Landscape		73	4.1	Sustainability45.63	84
	ment effectiveness		98	4.1.1	Pension coverage	
	law		74	4.1.2	Social protection45.07	
	ll stability		35	4.1.3	Brain retention	
	tory quality		83	4.1.4	Environmental performance	
pt	tion	21.92	95	4.1.5 4.2	Vulnerable employment	55 55
	Landscape		107	4.2.1	Personal rights	
	of market dominance		128	4.2.2	Personal safety	
	tic credit to private sector		73	4.2.3	Physician density60.90	
	development penditure		120 99	4.2.4	Sanitation	
	astructure		86			
	sation		58	5	VOCATIONAL AND TECHNICAL SKILLS33.91	100
es	ss and Labour Landscape	50.45	43	5.1	Mid-Level Skills	
ur	Market			5.1.1	Workforce with secondary education	
	rights		12	5.1.2	Population with secondary education	
	employer cooperation	35.02	96	5.1.3	Technicians and associate professionals11.96	104
	ement Practice			5.1.4	Labour productivity per employeen/a	n/a
	ional management		91	5.2	Employability43.01	112
	nship of pay to productivity blogy Adoption	40.36	87	5.2.1	Ease of finding skilled employees	
	rise software	80.09	5	5.2.2 5.2.3	Relevance of education system to the economy	
	computing		48	5.2.4	Highly educated unemployment	
	vith website		90	3.2.	g.n/ caddata dilen.p.o/en	, 0
_				6	GLOBAL KNOWLEDGE SKILLS 32.56	48
	ACT		69	6.1	High-Level Skills	
	al Openness	41.21	79	6.1.1	Workforce with tertiary education	
	: Business Julatory restrictiveness	91.62	43	6.1.2	Population with tertiary education	
_	al globalisation		30	6.1.3 6.1.4	Professionals 39.23 Researchers 3.68	
	: People		30	6.1.5	Senior officials and managers	
	t stock	12.75	115	6.1.6	Digital skills	
	tional students		88	6.2	Talent Impact	
g	ain	27.74	108	6.2.1	Innovation output	
	l Openness	58.39	56	6.2.2	High-value exports	
	Inclusion			6.2.3	Software development	
	ice of minorities		13	6.2.4	New business density	
	nce of immigrants		119	6.2.5	Scientific journal articles	91
	mobility r Equality	51.90	50			
	r Equality nic empowerment of women	86.73	38			
	r parity in high-skilled jobs		95			
	ship opportunities for women		74			

### **MONTENEGRO**

Rank	(out of 134)	<b>50</b>	GDP	per capita (PPP US\$)	26,9	84.0
	ne group	income		(US\$ billions)		
	onal group			score		
_	lation (millions)	-		score (income group average)		
•		0.02	010.	seere (meeme group average)		
GT	CI 2023 Country Profile by Pillar				Score	Rank
	Enable		<b>3</b> 3.1	GROWFormal Education		<b>86</b>
	<b>I</b> <sup>100</sup>		244	Enrolment	50.40	
	<b>1</b> 80		3.1.1 3.1.2	Vocational enrolment		16 58
	Global +60 Attract		3.1.2	Ouality	30.20	30
Kno	owledge Skills		3.1.3	Tertiary education expenditure	n/a	n/a
	30 20		3.1.4	Reading, maths, and science		54
			3.1.5	University ranking	0.00	76
	/ <b>X</b> /		3.2	Lifelong Learning	16.62	126
			3.2.1	Business masters education		57
			3.2.2	Prevalence of training in firms		92
	ocational and Grow		3.2.3	Employee development		116
Те	chnical Skills		3.3	Access to Growth Opportunities Empowerment	44.42	74
	†		3.3.1	Delegation of authority	26.45	110
	I		3.3.2	Youth inclusion		78
	Retain			Collaboration		
			3.3.3	Use of virtual social networks	70.72	42
	<ul> <li>Montenegro</li> <li>Income group average</li> </ul>		3.3.4	Use of virtual professional networks	24.35	5
	Score	e Rank				
	ENABLE		4	RETAIN	67.80	42
1	Regulatory Landscape		4.1	Sustainability	60.79	5
1.1	Government effectiveness		4.1.1	Pension coverage		55
1.2	Rule of law		4.1.2	Social protection		73
.1.3	Political stability57.30	71	4.1.3	Brain retention		78
1.4	Regulatory quality53.28		4.1.4 4.1.5	Environmental performance		4 <u>9</u>
.1.5	Corruption		4.2	Lifestyle		44
.2	Market Landscape		4.2.1	Personal rights		53
.2.1 .2.2	Extent of market dominance		4.2.2	Personal safety		42
.2.2	Cluster development		4.2.3	Physician density	43.45	56
.2.4	R&D expenditure6.6		4.2.4	Sanitation	97.55	51
.2.5	ICT infrastructure51.7					
.2.6	Urbanisation	4 62	5	VOCATIONAL AND TECHNICAL SKILLS	57.68	42
.3	Business and Labour Landscape	2 54	5.1	Mid-Level Skills		10
	Labour Market		5.1.1	Workforce with secondary education	76.69	13
.3.1	Labour rights83.78		5.1.2	Population with secondary education	n/a	n/a
.3.2	Labour-employer cooperation	2 122	5.1.3	Technicians and associate professionals		34
.3.3	Professional management	1 107	5.1.4	Labour productivity per employee		n/a
.3.4	Relationship of pay to productivity		5.2 5.2.1	Employability  Ease of finding skilled employees		89 98
	Technology Adoption		5.2.2	Relevance of education system to the economy		9:
.3.5	Enterprise software	5 2	5.2.3	Skills matching		2
.3.6 .3.7	Cloud computing		5.2.4	Highly educated unemployment		115
				CLODAL VAIOWIED CE CALLE	24.70	
	ATTRACT62.4	1 33	<b>6</b> 6.1	GLOBAL KNOWLEDGE SKILLS		<b>49</b> 54
.1	External Openness		6.1.1	Workforce with tertiary education		45
	Attract Business		6.1.2	Population with tertiary education		n/a
.1.1	FDI regulatory restrictiveness		6.1.3	Professionals		36
.1.2	Financial globalisation	4 28	6.1.4	Researchers		59
	Attract People	_	6.1.5	Senior officials and managers		4.5
.1.3	Migrant stock		6.1.6	Digital skills		3
.1.4	International students		6.2	Talent Impact		4
.1.5 .2	Brain gain		6.2.1	Innovation output		7(
.∠	Internal Openness	۱٥ د	6.2.2 6.2.3	High-value exports		50 51
.2.1	Tolerance of minorities	2 125	6.2.4	New business density		18
.2.2	Tolerance of immigrants		6.2.5	Scientific journal articles		4
223	Social mobility 31.84					

108

59

42

Gender Equality

## **MOROCCO**

ıcon	ne group	. Lower-middle in	come	GDP	(US\$ billions) 1	L <b>34</b> .
	nal group			GTCI	score	31.
_	ation (millions)				score (income group average)	
GTO	CI 2023 Country Profile by Pillar				Score	Ra
				3	GROW23.73	1
	Enable <b>T</b> 100			3.1	Formal Education	
	90			3.1.1	Vocational enrolment	
	Global +70 -60	A., .		3.1.2	Tertiary enrolment	
Kno	wledge Skills 50	Attract		3.1.3	Quality Tertiary education expendituren/a	1
				3.1.4	Reading, maths, and science	
	120			3.1.5	University ranking	
				3.2	Lifelong Learning29.84	
		<b>L</b>		3.2.1	Business masters education	
		***		3.2.2	Prevalence of training in firms	
Vo	ocational and	Grow		3.2.3 3.3	Employee development	
Te	chnical Skills	GIOW		3.3	Empowerment 26.05	
	İ			3.3.1	Delegation of authority	
	I			3.3.2	Youth inclusion	
	Retain				Collaboration	
	<ul><li>Morocco</li><li>Inco</li></ul>	me group average		3.3.3	Use of virtual social networks	
	Molocco	inic group average		3.3.4	Use of virtual professional networks	
		Score	Rank	4	RETAIN	1
	ENABLE		79	4.1	Sustainability	
1	Regulatory Landscape		78 73	4.1.1	Pension coveragen/a	
2	Rule of law		73 78	4.1.2	Social protection	
3	Political stability		86	4.1.3	Brain retention	
1	Regulatory quality		79	4.1.4	Environmental performance	
5	Corruption	28.77	74	4.1.5	Vulnerable employment	
	Market Landscape		54	4.2 4.2.1	Lifestyle	
1	Extent of market dominance		93	4.2.2	Personal safety	
2	Domestic credit to private sector		34 88	4.2.3	Physician density	
د. 4	R&D expenditure		n/a	4.2.4	Sanitation	
5	ICT infrastructure.		67			
6	Urbanisation	56.83	71	5	VOCATIONAL AND TECHNICAL SKILLS27.39	
	Business and Labour Landscape	29.33	122	5.1	Mid-Level Skills	
	Labour Market			5.1.1	Workforce with secondary education	
1	Labour rights		n/a	5.1.2	Population with secondary educationn/a	
2	Labour-employer cooperation	17.26	123	5.1.3	Technicians and associate professionals	
3	Management Practice Professional management	28 73	111	5.1.4	Labour productivity per employee	
4	Relationship of pay to productivity		110	5.2 5.2.1	Employability	
	Technology Adoption			5.2.2	Relevance of education system to the economy	
5	Enterprise software	18.64	79	5.2.3	Skills matchingn/a	
6 7	Cloud computing		60 60	5.2.4	Highly educated unemployment55.59	
				6	GLOBAL KNOWLEDGE SKILLS	
	ATTRACT		108	6.1	High-Level Skills	
	External Openness	34.14	96	6.1.1	Workforce with tertiary education	
	Attract Business FDI regulatory restrictiveness	02.07	41	6.1.2	Population with tertiary education	
2	Financial globalisation		102	6.1.3 6.1.4	Professionals	
	Attract People		. 02	6.1.5	Senior officials and managers	
3	Migrant stock	5.21	128	6.1.6	Digital skills	
4	International students	6.55	79	6.2	Talent Impact	
5	Brain gain		n/a	6.2.1	Innovation output	
	Internal Openness	42.22	117	6.2.2	High-value exports	
1	Social Inclusion Tolerance of minorities	11 70	120	6.2.3 6.2.4	Software development	
2	Tolerance of minorities		120 104	6.2.4	Scientific journal articles	
.3	Social mobility		97	0.2.5		
	Gender Equality					
4 5	Economic empowerment of women		96			
	Gender parity in high-skilled jobs		81			

## **MOZAMBIQUE**

Ranl	(out of 134)	13	1	GDD .	per capita (PPP US\$)	1 /	67 77
		· · · · · · · · · · · · · · · · · · ·	_		(US\$ billions)	-	
	ne group						
Regio	onal group	Sub-Saharan Af	rica		score		
Popu	lation (millions)		2.97	GTCI	score (income group average)		22.85
GT	CI 2023 Country Profile by Pillar					Score	Rank
	Enable			3	GROW		132
	$\mathbf{I}_{90}^{100}$			3.1	Formal Education		117
	-80			3.1.1	Vocational enrolment		86
	Global 60 50	Attract		3.1.2	Tertiary enrolment	3.94	117
Kn	owledge Skills	A CONTRACTOR OF THE PARTY OF TH		3.1.3	Tertiary education expenditure	40.78	93
	130			3.1.4	Reading, maths, and science		n/a
	10			3.1.5	University ranking		76
				3.2	Lifelong Learning		129
		×.		3.2.1	Business masters education		57
	I I	***		3.2.2	Prevalence of training in firms		79
V	ocational and	<b>*</b>		3.2.3	Employee development		131
T	echnical Skills	Grow		3.3	Access to Growth Opportunities	6.63	133
	Į				Empowerment		
						12.05	126
	†			3.3.1	Delegation of authority		
	I			3.3.1	Youth inclusion		n/a
	<b>Ì</b> Retain			3.3.2	Youth inclusion	n/a	n/a
				3.3.2	Youth inclusion	n/a 4.67	n/a 125
		ome group average		3.3.2	Youth inclusion	n/a 4.67	n/a
	● Mozambique   ● Inc	Score I	Rank_	3.3.2 3.3.3 3.3.4	Youth inclusion	n/a 4.67 2.27	n/a 125 121
	● Mozambique ● Inco	Score   23.38	126	3.3.2 3.3.3 3.3.4	Youth inclusion		n/a 125 121
1.1	● Mozambique ● Inco  ENABLE	Score 1 23.38 21.00	<b>126</b> 123	3.3.2 3.3.3 3.3.4 <b>4</b>	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability		n/a 125 121 <b>115</b> 109
<b>1</b> 1.1 1.1.1	● Mozambique ● Inco  ENABLE	Score 1 23.38 21.00 23.78	<b>126</b> 123 114	3.3.2 3.3.3 3.3.4 4 4.1 4.1.1	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability Pension coverage		n/a 125 121  115 109 81
1.1 1.1.1 1.1.2	Mozambique     Inco  ENABLE  Regulatory Landscape  Government effectiveness  Rule of law	Score 1 23.38 21.00 23.78 17.78	<b>126</b> 123 114 121	3.3.2 3.3.3 3.3.4 4 4.1 4.1.1 4.1.2	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability Pension coverage Social protection		n/a 125 121 115 109 81 90
1.1 1.1.1 1.1.2 1.1.3	Mozambique     Inco  ENABLE Regulatory Landscape Government effectiveness Rule of law Political stability.	Score 1 23.38 21.00 23.78 17.78 29.23	126 123 114 121 123	3.3.2 3.3.3 3.3.4 4 4.1 4.1.1	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability Pension coverage Social protection Brain retention		n/a 125 121  115 109 81 90 95
1.1 1.1.1 1.1.2 1.1.3 1.1.4	Mozambique     Inco  ENABLE Regulatory Landscape. Government effectiveness Rule of law Political stability. Regulatory quality.	Score 1 23.38 21.00 23.78 23.78 17.78 29.23 21.90	126 123 114 121 123 114	3.3.2 3.3.3 3.3.4 4 4.1 4.1.1 4.1.2 4.1.3 4.1.4	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability Pension coverage Social protection Brain retention Environmental performance		n/a 125 121 115 109 81 90 95 106
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5	Mozambique Inco  ENABLE Regulatory Landscape. Government effectiveness Rule of law Political stability. Regulatory quality. Corruption	Score 1 23.38 21.00 23.78 23.78 17.78 29.23 21.90 12.33	126 123 114 121 123 114 116	3.3.2 3.3.3 3.3.4 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN. Sustainability Pension coverage Social protection. Brain retention Environmental performance Vulnerable employment		n/a 125 121 115 109 81 90 95 106 127
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5	Mozambique Inco  ENABLE Regulatory Landscape. Government effectiveness Rule of law Political stability Regulatory quality. Corruption Market Landscape.	Score 1  23.38  21.00  23.78  17.78  29.23  21.90  12.33  20.67	126 123 114 121 123 114 116 121	3.3.2 3.3.3 3.3.4 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN. Sustainability Pension coverage Social protection. Brain retention Environmental performance Vulnerable employment Lifestyle		n/a 125 121 115 109 81 90 95 106
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.2	Mozambique Inco  ENABLE Regulatory Landscape. Government effectiveness Rule of law Political stability Regulatory quality Corruption Market Landscape Extent of market dominance	Score 1 23.38 21.00 23.78 17.78 29.23 21.90 12.33 20.67 13.24	126 123 114 121 123 114 116 121 122	3.3.2 3.3.3 3.3.4 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 4.2.1	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability Pension coverage Social protection Brain retention Environmental performance Vulnerable employment Lifestyle Personal rights		n/a 125 121 115 109 81 90 95 106 127 120 98
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.2 1.2.1 1.2.2	Mozambique Inco  ENABLE Regulatory Landscape Government effectiveness Rule of law Political stability Regulatory quality Corruption Market Landscape Extent of market dominance Domestic credit to private sector	Score 1 23.38 21.00 23.78 17.78 29.23 21.90 12.33 20.67 13.24 26.39	126 123 114 121 123 114 116 121 122 109	3.3.2 3.3.3 3.3.4 4 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 4.2.1 4.2.2	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability Pension coverage Social protection Brain retention Environmental performance Vulnerable employment Lifestyle Personal rights Personal safety		n/a 125 121 115 109 81 90 95 106 127 120 98 117
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.2 1.2.1 1.2.2 1.2.2	Mozambique Inco  ENABLE Regulatory Landscape Government effectiveness Rule of law Political stability Regulatory quality Corruption Market Landscape Extent of market dominance Domestic credit to private sector Cluster development.	Score   Score	126 123 114 121 123 114 116 121 122 109 126	3.3.2 3.3.3 3.3.4 4 4.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 4.2.1 4.2.2 4.2.3	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability Pension coverage Social protection Brain retention Environmental performance Vulnerable employment Lifestyle Personal rights Personal safety Physician density.		n/a 125 121 115 109 81 90 95 106 127 120 98
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.2 1.2.1 1.2.2 1.2.3 1.2.4	Mozambique Inco  ENABLE Regulatory Landscape. Government effectiveness Rule of law Political stability. Regulatory quality. Corruption Market Landscape. Extent of market dominance. Domestic credit to private sector Cluster development. R&D expenditure.	Score 1 23.38 21.00 23.78 23.78 17.78 29.23 21.90 12.33 20.67 13.24 26.39 17.45 5.67	126 123 114 121 123 114 116 121 122 109 126 74	3.3.2 3.3.3 3.3.4 4 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 4.2.1 4.2.2	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability Pension coverage Social protection Brain retention Environmental performance Vulnerable employment Lifestyle Personal rights Personal safety		n/a 125 121 115 109 81 90 95 106 127 120 98 117 128
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.2 1.2.1 1.2.2 1.2.3 1.2.4 1.2.5	Mozambique Inco  ENABLE Regulatory Landscape Government effectiveness Rule of law Political stability Regulatory quality Corruption Market Landscape Extent of market dominance Domestic credit to private sector Cluster development R&D expenditure ICT infrastructure.	Score 1  23.38 21.00 23.78 27.78 29.23 21.90 21.90 21.33 20.67 21.324 26.39 27.45 26.39 27.45 27.567 27.48 27.48 27.48 28.48	126 123 114 121 123 114 116 121 122 109 126 74 112	3.3.2 3.3.3 3.3.4 4 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 4.2.1 4.2.2 4.2.3 4.2.4	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability Pension coverage Social protection Brain retention Environmental performance Vulnerable employment Lifestyle Personal rights Personal safety Physician density. Sanitation		n/a 125 121 115 109 81 90 95 106 127 120 98 117 128 118
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.2 1.2.1 1.2.2 1.2.3 1.2.4 1.2.5 1.2.6	Mozambique Inco  ENABLE  Regulatory Landscape. Government effectiveness Rule of law Political stability Regulatory quality Corruption Market Landscape Extent of market dominance Domestic credit to private sector Cluster development R&D expenditure. ICT infrastructure. Urbanisation	23.38 21.00 23.78 23.78 17.78 29.23 21.90 12.33 20.67 13.24 26.39 17.45 5.67 34.88 26.40	126 123 114 121 123 114 116 121 122 109 126 74 112 116	3.3.2 3.3.3 3.3.4 4.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 4.2.1 4.2.2 4.2.3 4.2.4	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability Pension coverage Social protection Brain retention Environmental performance Vulnerable employment Lifestyle Personal rights Personal safety Physician density. Sanitation		n/a 125 121 115 109 81 90 95 106 127 120 98 117 128 118
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.2 1.2.1 1.2.2 1.2.3 1.2.4 1.2.5 1.2.6	Mozambique  Inco  ENABLE  Regulatory Landscape  Government effectiveness  Rule of law  Political stability  Regulatory quality  Corruption  Market Landscape  Extent of market dominance  Domestic credit to private sector  Cluster development  R&D expenditure  ICT infrastructure  Urbanisation  Business and Labour Landscape	23.38 21.00 23.78 23.78 17.78 29.23 21.90 12.33 20.67 13.24 26.39 17.45 5.67 34.88 26.40	126 123 114 121 123 114 116 121 122 109 126 74 112	3.3.2 3.3.3 3.3.4 4 4.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 4.2.1 4.2.2 4.2.3 4.2.4 5 5.1	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability Pension coverage Social protection Brain retention Environmental performance Vulnerable employment Lifestyle Personal rights Personal safety. Physician density. Sanitation  VOCATIONAL AND TECHNICAL SKILLS Mid-Level Skills		n/a 125 121 115 109 81 90 95 106 127 120 98 117 128 118
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.2 1.2.1 1.2.2 1.2.3 1.2.4 1.2.5 1.2.6	Mozambique  Inco  ENABLE  Regulatory Landscape  Government effectiveness  Rule of law  Political stability  Regulatory quality  Corruption  Market Landscape  Extent of market dominance  Domestic credit to private sector  Cluster development  R&D expenditure  ICT infrastructure  Urbanisation  Business and Labour Landscape  Labour Market	Score 1  23.38 21.00 23.78 23.78 17.78 29.23 21.90 12.33 20.67 13.24 26.39 17.45 5.67 34.88 26.40 28.48	126 1123 114 121 123 114 121 123 116 116 121 122 109 126 74 112 1116 127	3.3.2 3.3.3 3.3.4 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 4.2.1 4.2.2 4.2.3 4.2.4 5.1 5.1	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability Pension coverage Social protection Brain retention Environmental performance Vulnerable employment Lifestyle Personal rights Personal safety Physician density. Sanitation  VOCATIONAL AND TECHNICAL SKILLS Mid-Level Skills Workforce with secondary education		n/a 125 121 115 109 81 90 95 106 127 120 98 117 128 118 132 126 119
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.2 1.2.1 1.2.2 1.2.3 1.2.4 1.2.5 1.2.6	Mozambique  Inco  ENABLE Regulatory Landscape Government effectiveness Rule of law Political stability Regulatory quality Corruption Market Landscape Extent of market dominance Domestic credit to private sector Cluster development R&D expenditure ICT infrastructure. Urbanisation Business and Labour Landscape Labour Market Labour rights.	Score 1  23.38 21.00 23.78 17.78 29.23 21.90 12.33 20.67 13.24 26.39 17.45 5.67 34.88 26.40 28.48	126 1123 114 121 123 114 116 116 121 122 109 126 74 112 116 117 117 117 117 117 117 117 117 117	3.3.2 3.3.3 3.3.4 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 4.2.1 4.2.2 4.2.3 4.2.4 5.1 5.1 5.1,5.1.2	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN. Sustainability Pension coverage Social protection. Brain retention Environmental performance Vulnerable employment Lifestyle Personal rights Personal safety. Physician density. Sanitation  VOCATIONAL AND TECHNICAL SKILLS. Mid-Level Skills Workforce with secondary education Population with secondary education		n/a 125 121 115 109 81 900 95 106 127 120 98 117 128 118 132 118 132 83
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.2 1.2.1 1.2.2 1.2.3 1.2.4 1.2.5 1.2.6 1.3	Mozambique  Inco  ENABLE  Regulatory Landscape Government effectiveness Rule of law Political stability Regulatory quality Corruption Market Landscape Extent of market dominance Domestic credit to private sector Cluster development R&D expenditure ICT infrastructure Urbanisation Business and Labour Landscape Labour Market Labour rights Labour-employer cooperation	Score 1  23.38 21.00 23.78 17.78 29.23 21.90 12.33 20.67 13.24 26.39 17.45 5.67 34.88 26.40 28.48	126 1123 114 121 123 114 121 123 116 116 121 122 109 126 74 112 1116 127	3.3.2 3.3.3 3.3.4 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2.1 4.2.2 4.2.3 4.2.4 5 5.1 5.1,1 5.1.2 5.1.3	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN. Sustainability Pension coverage Social protection. Brain retention Environmental performance Vulnerable employment Lifestyle Personal rights. Personal safety. Physician density. Sanitation.  VOCATIONAL AND TECHNICAL SKILLS Mid-Level Skills Workforce with secondary education Population with secondary education Technicians and associate professionals.		n/a 125 121 115 109 81 900 95 106 127 120 98 117 128 118 132 126 83 124
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.2 1.2.1 1.2.2 1.2.3 1.2.4 1.2.5 1.2.6 1.3	Mozambique  Inco  ENABLE  Regulatory Landscape Government effectiveness Rule of law  Political stability  Regulatory quality  Corruption  Market Landscape  Extent of market dominance  Domestic credit to private sector  Cluster development  R&D expenditure  ICT infrastructure  Urbanisation  Business and Labour Landscape  Labour Market Labour rights  Labour-employer cooperation  Management Practice	Score 1  23.38 21.00 23.78 23.78 17.78 29.23 21.90 12.33 20.67 13.24 26.39 17.45 5.67 34.88 26.40 28.48 75.47 12.49	126 114 121 123 114 121 123 114 116 121 122 109 126 74 112 116 127 67	3.3.2 3.3.3 3.3.4 4 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 4.2.1 4.2.2 4.2.3 4.2.4 5 5.1 5.1.1 5.1.2 5.1.3 5.1.4	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN. Sustainability Pension coverage Social protection. Brain retention Environmental performance Vulnerable employment Lifestyle Personal rights Personal safety. Physician density. Sanitation.  VOCATIONAL AND TECHNICAL SKILLS Mid-Level Skills Workforce with secondary education Peopulation with secondary education Technicians and associate professionals Labour productivity per employee.		n/a 125 121  115 109 81 90 95 116 127 120 98 117 128 118 132 126 119 83 124 115
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.2 1.2.1 1.2.2 1.2.3 1.2.4 1.2.5 1.2.6 1.3	Mozambique  Inco  ENABLE  Regulatory Landscape. Government effectiveness  Rule of law Political stability Regulatory quality. Corruption  Market Landscape. Extent of market dominance. Domestic credit to private sector Cluster development.  R&D expenditure. ICT infrastructure. Urbanisation Business and Labour Landscape Labour Market Labour employer cooperation. Management Practice Professional management	Score 1  23.38 21.00 23.78 23.78 17.78 29.23 21.90 21.90 12.33 20.67 13.24 26.39 17.45 5.67 34.88 26.40 28.48 75.47 12.49	126 114 121 123 114 116 121 122 109 126 74 112 116 127 67 126	3.3.2 3.3.3 3.3.4 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 4.2.1 4.2.2 4.2.3 4.2.4 5.1 5.1,1 5.1.2 5.1.3 5.1.4 5.2	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability Pension coverage Social protection Brain retention Environmental performance Vulnerable employment Lifestyle Personal rights Personal safety. Physician density. Sanitation  VOCATIONAL AND TECHNICAL SKILLS Mid-Level Skills Workforce with secondary education Population with secondary education Population with secondary education Technicians and associate professionals Labour productivity per employee. Employability		n/a 125 121 115 109 81 90 95 106 127 120 98 117 128 118 112 126 119 83 124 115 130
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.2 1.2.1 1.2.2 1.2.3 1.2.4 1.2.5 1.2.6 1.3	Mozambique  Inco  ENABLE  Regulatory Landscape. Government effectiveness Rule of law Political stability Regulatory quality Corruption Market Landscape Extent of market dominance. Domestic credit to private sector Cluster development. R&D expenditure. ICT infrastructure. Urbanisation Business and Labour Landscape Labour market Labour rights. Labour-employer cooperation Management Practice Professional management Relationship of pay to productivity.	Score 1  23.38 21.00 23.78 23.78 17.78 29.23 21.90 21.90 12.33 20.67 13.24 26.39 17.45 5.67 34.88 26.40 28.48 75.47 12.49	126 114 121 123 114 121 123 114 116 121 122 109 126 74 112 116 127 67	3.3.2 3.3.3 3.3.4 4 4.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 4.2.1 4.2.2 4.2.3 4.2.4 5.1 5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2 5.2.1	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability Pension coverage Social protection Brain retention Environmental performance Vulnerable employment Lifestyle Personal rights Personal safety. Physician density. Sanitation  VOCATIONAL AND TECHNICAL SKILLS Mid-Level Skills Workforce with secondary education Population with secondary education Technicians and associate professionals Labour productivity per employee Employability Ease of finding skilled employees		n/a 125 121 115 109 81 90 95 106 127 120 98 118 118 118 132 126 119 83 124 115 130 128
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.2 1.2.1 1.2.2 1.2.3 1.2.4 1.2.5 1.2.6 1.3 1.3.1 1.3.2	Mozambique  Inco  ENABLE Regulatory Landscape Government effectiveness Rule of law Political stability Regulatory quality Corruption Market Landscape Extent of market dominance Domestic credit to private sector Cluster development R&D expenditure ICT infrastructure Urbanisation Business and Labour Landscape Labour Market Labour rights Labour-employer cooperation Management Practice Professional management Relationship of pay to productivity Technology Adoption	Score	126 1123 114 121 123 114 121 123 114 121 120 116 121 122 109 126 74 112 1116 127 67 126 130 130	3.3.2 3.3.3 3.3.4 4.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 4.2.1 4.2.2 4.2.3 4.2.4 5.1 5.1,5.1.2 5.1.3 5.1.4 5.2 5.2.1 5.2.2	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability Pension coverage Social protection Brain retention Environmental performance Vulnerable employment Lifestyle Personal rights Personal safety Physician density. Sanitation  VOCATIONAL AND TECHNICAL SKILLS Mid-Level Skills Workforce with secondary education Population with secondary education Technicians and associate professionals Labour productivity per employee Employability. Ease of finding skilled employees Relevance of education system to the economy		n/a 125 121 115 109 81 90 95 106 127 120 98 117 128 118 126 119 83 124 115 130 128 130
1.1 1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.2 1.2.1 1.2.2 1.2.3 1.2.4	Mozambique  Inco  ENABLE  Regulatory Landscape. Government effectiveness Rule of law Political stability Regulatory quality Corruption Market Landscape Extent of market dominance. Domestic credit to private sector Cluster development. R&D expenditure. ICT infrastructure. Urbanisation Business and Labour Landscape Labour market Labour rights. Labour-employer cooperation Management Practice Professional management Relationship of pay to productivity.	Score 1  23.38  21.00 23.78 23.78 17.78 29.23 21.90 12.33 20.67 13.24 26.39 17.45 5.67 34.88 26.40 28.48  75.47 12.49  12.31 23.00	126 114 121 123 114 116 121 122 109 126 74 112 116 127 67 126	3.3.2 3.3.3 3.3.4 4 4.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 4.2.1 4.2.2 4.2.3 4.2.4 5.1 5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.2 5.2 5.2.1	Youth inclusion Collaboration Use of virtual social networks Use of virtual professional networks  RETAIN Sustainability Pension coverage Social protection Brain retention Environmental performance Vulnerable employment Lifestyle Personal rights Personal safety. Physician density. Sanitation  VOCATIONAL AND TECHNICAL SKILLS Mid-Level Skills Workforce with secondary education Population with secondary education Technicians and associate professionals Labour productivity per employee Employability Ease of finding skilled employees		n/a 125 121 115 109 81 90 95 106 127 120 98 118 118 118 132 126 119 83 124 115 130 128

1.3	Business and Labour Landscape	127
1.3.1	Labour rights	67
1.3.2	Labour-employer cooperation	126
1.3.2	Management Practice	120
1.3.3	Professional management	130
1.3.4	Relationship of pay to productivity23.00	130
	Technology Adoption	
1.3.5	Enterprise software	65
1.3.6	Cloud computing18.95	55
1.3.7	Firms with website	85
2	ATTRACT 36.59	114
2.1	External Openness	95
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation71.07	49
	Attract People	
2.1.3	Migrant stock	103
2.1.4	International students	106
2.1.5	Brain gain	75
2.2	Internal Openness	122
	Social Inclusion	
2.2.1	Tolerance of minorities	90
2.2.2	Tolerance of immigrants	58
2.2.3	Social mobility	133
2.2.4	Economic empowerment of women	69
2.2.5	Gender parity in high-skilled jobs	108
2.2.6	Leadership opportunities for women	121

GDP (	(US\$ billions)	17.85
GTCI	score	20.40
	score (income group average)	
0101	score (income group average)	
	Score	Rank
3	GROW11.22	132
3.1	Formal Education	117
	Enrolment	
3.1.1	Vocational enrolment	86
3.1.2	Tertiary enrolment	117
	Quality	
3.1.3	Tertiary education expenditure	93
3.1.4	Reading, maths, and science	n/a
3.1.5	University ranking0.00	76
3.2	Lifelong Learning	129
3.2.1	Business masters education	57
3.2.2	Prevalence of training in firms22.31	79
3.2.3	Employee development	131
3.3	Access to Growth Opportunities6.63	133
	Empowerment	
3.3.1	Delegation of authority	126
3.3.2	Youth inclusion	n/a
	Collaboration	
3.3.3	Use of virtual social networks	125
3.3.4	Use of virtual professional networks	121
4	RETAIN	115
4.1	Sustainability	109
4.1.1	Pension coverage	81
4.1.2	Social protection	90
4.1.3	Brain retention	95
4.1.4	Environmental performance	106
4.1.5	Vulnerable employment	127
4.2	Lifestyle	120
4.2.1	Personal rights	98
4.2.2	Personal safety	117
4.2.3	Physician density	128
4.2.4	Sanitation	118
5	VOCATIONAL AND TECHNICAL SKILLS18.22	132
5.1	Mid-Level Skills	126
5.1.1	Workforce with secondary education	119
5.1.2	Population with secondary education	83
5.1.3	Technicians and associate professionals5.20	124
5.1.4	Labour productivity per employee0.30	115
5.2	Employability	130
5.2.1	Ease of finding skilled employees	128
5.2.2	Relevance of education system to the economy 6.59	130
5.2.3	Skills matching	106
5.2.4	Highly educated unemployment	27
6	GLOBAL KNOWLEDGE SKILLS	131
6.1	High-Level Skills	131
6.1.1	Workforce with tertiary education	127
6.1.2	Population with tertiary education	92
6.1.3	Professionals 4.71	
6.1.4	Researchers	127 98
6.1.5	Senior officials and managers	126
6.1.6	Digital skills	n/a
6.2		11/a 127
6.2.1	Talent Impact	114
6.2.2	Innovation output	113
6.2.3	Software development 19.07	
6.2.4	New business density	127 110
6.2.5	Scientific journal articles	126
J.L.J	Selenane journal articles	120

#### **NAMIBIA**

2.2.5

Gender Equality

Key Indicators

		_	\ <u>\</u>			
Rank	(out of 134)	5	<del>)</del> 3	GDP	per capita (PPP US\$)	205.71
Incor	ne group	e inc	come	GDP	(US\$ billions)	12.61
Regio	onal group Sub-Sahara	n A	frica	GTCI	score	36.67
Popu	lation (millions)		2.57	GTCI	score (income group average)	43.53
GT	Cl 2023 Country Profile by Pillar				Score	e Rank
				3	GROW30.16	89
	Enable			3.1	Formal Education	73
	<b>I</b> <sup>100</sup>				Enrolment	
	<b>1</b> 80			3.1.1	Vocational enrolment	
	Global 60 Attract			3.1.2	Tertiary enrolment	9 87
Kno	owledge Skills 50			3.1.3	Tertiary education expenditure	2 36
	30 20			3.1.4	Reading, maths, and science	
	10			3.1.5	University ranking	
				3.2	Lifelong Learning	
				3.2.1	Business masters education	
				3.2.2 3.2.3	Prevalence of training in firms	
	ocational and Grow			3.3	Access to Growth Opportunities	
Te	echnical Skills				Empowerment	-
	‡			3.3.1	Delegation of authority55.04	43
	1			3.3.2	Youth inclusion	110
	Retain				Collaboration	
	Namibia			3.3.3	Use of virtual social networks	
	ivalifibla income group average			3.3.4	Use of virtual professional networks	2 60
	Sc	ore	Rank		DETAIN 47.00	
1	ENABLE 43.		68	<b>4</b> 4.1	RETAIN	
1.1	Regulatory Landscape52		51	4.1.1	Pension coverage	
1.1.1	Government effectiveness		63	4.1.2	Social protection	
1.1.2 1.1.3	Rule of law		47 41	4.1.3	Brain retention	
1.1.3	Regulatory quality		72	4.1.4	Environmental performance	1 37
1.1.5	Corruption		48	4.1.5	Vulnerable employment	
1.2	Market Landscape		94	4.2	Lifestyle	
1.2.1	Extent of market dominance	.72	89	4.2.1	Personal rights	
1.2.2	Domestic credit to private sector51		51	4.2.2 4.2.3	Personal safety	
1.2.3	Cluster development		77	4.2.4	Sanitation	
1.2.4 1.2.5	R&D expenditure		71 108			
1.2.5	Urbanisation		99	_	VOCATIONAL AND TECHNICAL SKILLS38.74	- 01
1.3	Business and Labour Landscape		71	<b>5</b> 5.1	Mid-Level Skills	
	Labour Market			5.1.1	Workforce with secondary education	
1.3.1	Labour rights90	).21	38	5.1.2	Population with secondary education	
1.3.2	Labour-employer cooperation	3.76	86	5.1.3	Technicians and associate professionals21.98	3 79
1 2 2	Management Practice	- 01	E 4	5.1.4	Labour productivity per employee	
1.3.3 1.3.4	Professional management		54 69	5.2	Employability40.35	
1.5.4	Technology Adoption	).I <del>~</del>	09	5.2.1 5.2.2	Ease of finding skilled employees	
1.3.5	Enterprise software	.26	97	5.2.3	Skills matching	
1.3.6	Cloud computing8	3.95	105	5.2.4	Highly educated unemployment	
1.3.7	Firms with website	1.54	87		, ,	
				6	GLOBAL KNOWLEDGE SKILLS9.92	115
2	ATTRACT50.	.92	64	6.1	High-Level Skills	
2.1	External Openness42	.36	72	6.1.1	Workforce with tertiary education	5 95
211	Attract Business	- /	- 1	6.1.2	Population with tertiary education	
2.1.1	FDI regulatory restrictiveness		n/a	6.1.3	Professionals	
2.1.2	Financial globalisation	1.UÖ	69	6.1.4	Researchers	
2.1.3	Migrant stock	7.38	53	6.1.5 6.1.6	Digital skills	
2.1.3	International students		62	6.2	Talent Impact. 4.19	
2.1.5	Brain gain50		60	6.2.1	Innovation output	
2.2	Internal Openness	9.47	51	6.2.2	High-value exports	
	Social Inclusion			6.2.3	Software developmentn/a	a n/a
2.2.1	Tolerance of minorities		44	6.2.4	New business density	
2.2.2	Tolerance of immigrants50	).//	82	6.2.5	Scientific journal articles	5 87

93

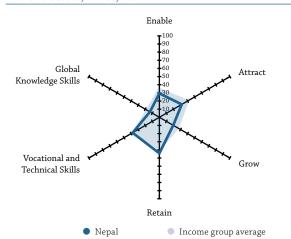
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### **NEPAL**

Key Indicators

Rank (out of 134)	<b>107</b>
Income group	Lower-middle income
Regional group	Central and Southern Asia
Population (millions)	30.55

GTCI 2023 Country Profile by Pillar



	Score	Rank
1	ENABLE	116
1.1	Regulatory Landscape31.65	102
1.1.1	Government effectiveness	121
1.1.2	Rule of law	93
1.1.3	Political stability54.85	77
1.1.4	Regulatory quality	105
1.1.5	Corruption	90
1.2	Market Landscape	113
1.2.1	Extent of market dominance	113
1.2.2	Domestic credit to private sector	29
1.2.3	Cluster development	106
1.2.4	R&D expendituren/a	n/a
1.2.5	ICT infrastructure31.39	119
1.2.6	Urbanisation	130
1.3	Business and Labour Landscape	128
	Labour Market	
1.3.1	Labour rights	n/a
1.3.2	Labour-employer cooperation	108
1.3.3	Professional management	110
1.3.4	Relationship of pay to productivity	78
	Technology Adoption	
1.3.5	Enterprise software	77
1.3.6	Cloud computing11.05	90
1.3.7	Firms with website	97
2	ATTRACT31.70	124
2.1	External Openness	129
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation	132
2.1.3	Migrant stock	89
2.1.4	International studentsn/a	n/a
2.1.5	Brain gain	110
2.2	Internal Openness	112
	Social Inclusion	
2.2.1	Tolerance of minorities	124
2.2.2	Tolerance of immigrants	16
2.2.3	Social mobility	117
2.2.4	Economic empowerment of women72.57	78
2.2.5	Gender parity in high-skilled jobs	105
2.2.6	Leadership opportunities for women	115

GDP (	per capita (PPP US\$)	40.83
	score (income group average)	
	Score	Rank
3	GROW19.62	120
3.1	Formal Education. 8.61 Enrolment	126
3.1.1	Vocational enrolment	116
3.1.2	Tertiary enrolment	101
3.1.3	Tertiary education expenditure22.33	108
3.1.4 3.1.5	Reading, maths, and science	n/a 76
3.1.5	Lifelong Learning	104
3.2.1	Business masters education	57
3.2.2	Prevalence of training in firms	53
3.2.3	Employee development	108
3.3	Access to Growth Opportunities	116
3.3.1	Empowerment Delegation of authority	94
3.3.2	Youth inclusion	117
	Collaboration	
3.3.3	Use of virtual social networks	100
3.3.4	Use of virtual professional networks	109
4	RETAIN	94
4.1	Sustainability	102
4.1.1	Pension coverage	67
4.1.2	Social protection	106
4.1.3 4.1.4	Brain retention	108 122
4.1.5	Vulnerable employment	121
4.2	Lifestyle	81
4.2.1	Personal rights	76
4.2.2	Personal safety	54
4.2.3 4.2.4	Physician density. 13.07 Sanitation 74.32	90 98
4.2.4	Jantauon /4.J2	
<b>5</b> 5.1	VOCATIONAL AND TECHNICAL SKILLS37.97 Mid-Level Skills	<b>94</b> 85
5.1.1	Workforce with secondary education	71
5.1.2	Population with secondary educationn/a	n/a
5.1.3	Technicians and associate professionals16.92	94
5.1.4	Labour productivity per employee	n/a
5.2 5.2.1	Employability	101 88
5.2.2	Relevance of education system to the economy	84
5.2.3	Skills matching51.06	81
5.2.4	Highly educated unemployment	108
6	GLOBAL KNOWLEDGE SKILLS	103
6.1	High-Level Skills	104
6.1.1	Workforce with tertiary education	101
6.1.2 6.1.3	Population with tertiary education	n/a 80
6.1.4	Researchers	n/a
6.1.5	Senior officials and managers	108
6.1.6	Digital skills	n/a
6.2	Talent Impact	105
6.2.1 6.2.2	Innovation output	106 111
6.2.3	Software development	83
6.2.4	New business density	76
6.2.5	Scientific journal articles	94

## **NETHERLANDS**

Key Indicators

	(out of 134)		5		per capita (PPP US\$)		
	ne group	_			(US\$ billions)		
	nal group				score		
Popu.	ation (millions)		17.70	GTCI	score (income group average)	6	31.91
GT	CI 2023 Country Profile by Pillar				Sc	ore	Rank
	r II			3	GROW	89	4
	Enable			3.1	Formal Education	3.16	4
	<b>I</b> <sup>100</sup>				Enrolment		
	170			3.1.1 3.1.2	Vocational enrolment		11
	Global	Attract		3.1.2	Quality	1.02	
Kno	wledge Skills	Art IIIIII		3.1.3	Tertiary education expenditure	.89	1
	30 20	ſ		3.1.4	Reading, maths, and science68		14
	10			3.1.5	University ranking		1.
				3.2	Lifelong Learning		
				3.2.1 3.2.2	Business masters education		15
		<b>*</b>		3.2.2	Employee development		
	ocational and chnical Skills	Grow		3.3	Access to Growth Opportunities		2
16	CHIHCAI JAIIIS				Empowerment		
	¥			3.3.1	Delegation of authority		
	<b>.</b>			3.3.2	Youth inclusion	5.19	
	Retain			3.3.3	Collaboration Use of virtual social networks	. 07	
	<ul><li>Netherlands</li><li>Income</li></ul>	group average		3.3.4	Use of virtual professional networks		
		Score	Dank		·		
			Rank	4	RETAIN86	77	10
	ENABLE		5	4.1	Sustainability		
l l.1	Regulatory Landscape		9 6	4.1.1	Pension coverage		
1.2	Rule of law		10	4.1.2	Social protection88		1
.3	Political stability		19	4.1.3	Brain retention		
1.4	Regulatory quality		7	4.1.4 4.1.5	Environmental performance		1
1.5	Corruption		8	4.1.3	Lifestyle		1:
2	Market Landscape		10	4.2.1	Personal rights		1.
2.1 2.2	Extent of market dominance  Domestic credit to private sector		12 27	4.2.2	Personal safety92	.58	1.
2.3	Cluster development		6	4.2.3	Physician density		3
2.4	R&D expenditure	42.93	15	4.2.4	Sanitation97	.46	5.
2.5	ICT infrastructure		17				
2.6 3	Urbanisation		11 5	5	VOCATIONAL AND TECHNICAL SKILLS 68.		1.
)	Labour Market		5	5.1	Mid-Level Skills		2
3.1	Labour rights	94.91	24	5.1.1 5.1.2	Workforce with secondary education		5 3
3.2	Labour-employer cooperation	90.86	4	5.1.3	Technicians and associate professionals		1
	Management Practice		_	5.1.4	Labour productivity per employee	3.01	1
3.3 3.4	Professional management		2 9	5.2	Employability		1
J. <del>4</del>	Technology Adoption		ý	5.2.1 5.2.2	Ease of finding skilled employees		2.
3.5	Enterprise software	77.43	8	5.2.3	Skills matching		4
.3.6 .3.7	Cloud computing Firms with website		7 3	5.2.4	Highly educated unemployment		2
J.,	The state of the s				CLODAL KNOWLEDGE CKILLS	00	
	ATTRACT	78.12	8	<b>6</b> 6.1	GLOBAL KNOWLEDGE SKILLS		10
1	External Openness		11	6.1.1	Workforce with tertiary education		2
	Attract Business			6.1.2	Population with tertiary education	.54	20
1.1	FDI regulatory restrictiveness		5	6.1.3	Professionals		
1.2	Financial globalisation	96.4/	7	6.1.4 6.1.5	Researchers		4
1.3	Migrant stock	62.21	35	6.1.6	Digital skills		2
1.4	International students		17	6.2	Talent Impact		1
1.5	Brain gain		10	6.2.1	Innovation output86	.80	
2	Internal Openness	79.31	14	6.2.2	High-value exports		1
<b>7</b> 1	Social Inclusion Tolerance of minorities	60.00	20	6.2.3 6.2.4	Software development		4
2.1 2.2	Tolerance of minorities		28 29	6.2.4	Scientific journal articles		4
.2.3	Social mobility		13	2.5	· · · · · · · · · · · · · · · · · · ·		
	Gender Equality						
		100.00	1				
2.4 2.5	Economic empowerment of women  Gender parity in high-skilled jobs		32				

## **NEW ZEALAND**

Key Indicators

		10			
	(	<b>18</b>		per capita (PPP US\$)	
	ne group			(US\$ billions)	
_	onal group Eastern, Southeastern Asia and O			I score	
Popu	lation (millions)	. 5.12	GTC	I score (income group average)	61.91
GT	CI 2023 Country Profile by Pillar			Score	Rank
	Enable		3	GROW59.98	
	100 190		3.1	Formal Education	
	80		3.1.1	Vocational enrolment	
	Global Attract		3.1.2	Tertiary enrolment	24
Kno	owledge Skills 40 Attract		3.1.3	Tertiary education expenditure	24
	$\frac{1}{20}$		3.1.4	Reading, maths, and science	12
	10		3.1.5	University ranking47.82	
			3.2	Lifelong Learning	
			3.2.1	Business masters education	
			3.2.2	Prevalence of training in firms	
V	ocational and Grow		3.2.3	Employee development	
Te	echnical Skills		3.3	Access to Growth Opportunities	13
	Y		3.3.1	Delegation of authority	13
	1		3.3.2	Youth inclusion	
	Retain			Collaboration	
	• N. 77 1 1 • 1		3.3.3	Use of virtual social networks	
	New Zealand     Income group average		3.3.4	Use of virtual professional networks	12
	Score	Rank		PETAIN	
1	ENABLE	11	<b>4</b> 4.1	RETAIN	
1.1	Regulatory Landscape90.73		4.1.1	Pension coverage	
1.1.1	Government effectiveness		4.1.2	Social protection	17
1.1.2	Rule of law		4.1.3	Brain retention	
1.1.3	Political stability		4.1.4	Environmental performance	
1.1.4	Regulatory quality		4.1.5	Vulnerable employment85.17	48
1.2	Market Landscape		4.2	Lifestyle82.40	
1.2.1	Extent of market dominance		4.2.1	Personal rights	
1.2.2	Domestic credit to private sector		4.2.2	Personal safety	
1.2.3	Cluster development	2 44	4.2.3 4.2.4	Physician density	36 1
1.2.4	R&D expenditure		4.2.4	Sanitation	'
1.2.5	ICT infrastructure				
1.2.6	Urbanisation		5	VOCATIONAL AND TECHNICAL SKILLS51.32	
1.3	Business and Labour Landscape	9	5.1	Mid-Level Skills	
1.3.1	Labour rightsn/a	n/a	5.1.1	Workforce with secondary education	
1.3.2	Labour-employer cooperation		5.1.2 5.1.3	Population with secondary education	
	Management Practice		5.1.4	Labour productivity per employee	
1.3.3	Professional management	5	5.2	Employability50.88	
1.3.4	Relationship of pay to productivity51.39	72	5.2.1	Ease of finding skilled employees	
	Technology Adoption		5.2.2	Relevance of education system to the economy	58
1.3.5	Enterprise software		5.2.3	Skills matchingn/a	
1.3.6 1.3.7	Cloud computing		5.2.4	Highly educated unemploymentn/a	n/a
			6	GLOBAL KNOWLEDGE SKILLS	11
2	ATTRACT75.46	12	6.1	High-Level Skills	
2.1	External Openness	25	6.1.1	Workforce with tertiary education	
	Attract Business	_	6.1.2	Population with tertiary education	
2.1.1	FDI regulatory restrictiveness		6.1.3	Professionals	
2.1.2	Financial globalisation	5 52	6.1.4	Researchers	
2.1.3	Attract People Migrant stock	14	6.1.5	Senior officials and managers	
2.1.3	International students		6.1.6 6.2	Talent Impact	
2.1.5	Brain gain		6.2.1	Innovation output	
2.2	Internal Openness		6.2.2	High-value exports	
	Social Inclusion		6.2.3	Software development	
2.2.1	Tolerance of minorities		6.2.4	New business density	
2.2.2	Tolerance of immigrants		6.2.5	Scientific journal articles	11
2.2.3	Social mobility83.95 Gender Equality	9			

15

 2.2.4
 Economic empowerment of women.
 .96.46

 2.2.5
 Gender parity in high-skilled jobs.
 .n/a

 2.2.6
 Leadership opportunities for women.
 .75.05

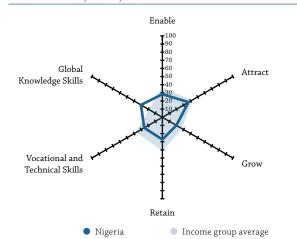
## **NICARAGUA**

Rank	(out of 134)	11	15	GDP	per capita (PPP US\$)	874.81
		Lower-middle in			(US\$ billions)	
	0 1	atin America and the Carib			score	
-		· · · · · · · · · · · · · · · · · · ·			score (income group average)	
_					0 1 0	
GI	CI 2023 Country Profile by Pillar				Score	
	En	aable		3	GROW	
		▼100		3.1	Formal Education. 5.91	128
		90		3.1.1	Vocational enrolment	n/a
		<b>1</b> 70		3.1.2	Tertiary enrolment	
Vno	Global	50 Attract			Quality	
KIIC	owledge Skills	140		3.1.3	Tertiary education expenditure	
	***	20		3.1.4 3.1.5	Reading, maths, and science	
	<b>*</b>	**/		3.1.5	Lifelong Learning	
		174		3.2.1	Business masters education	
	A Property of the Control of the Con	The state of the s		3.2.2	Prevalence of training in firms	12
V	ocational and	<b>1</b> • • • • • • • • • • • • • • • • • • •		3.2.3	Employee development	
Te	echnical Skills	Grow		3.3	Access to Growth Opportunities	101
		†		3.3.1	Empowerment Delegation of authority	3 114
		I		3.3.2	Youth inclusion	
	Re	etain			Collaboration	
	NI:			3.3.3	Use of virtual social networks	
	<ul><li>Nicaragua</li></ul>	<ul> <li>Income group average</li> </ul>		3.3.4	Use of virtual professional networks	83
		Score	Rank			
1	ENABLE	24.90	125	4	RETAIN34.71	
1.1	Regulatory Landscape		124	4.1	Sustainability	
1.1.1	Government effectiveness	21.61	119	4.1.1 4.1.2	Pension coverage	
1.1.2			133	4.1.2	Brain retention	
1.1.3 1.1.4	· · · · · · · · · · · · · · · · · · ·		91 117	4.1.4	Environmental performance	
1.1.5	2 , , ,		131	4.1.5	Vulnerable employment	
1.2			123	4.2	Lifestyle	
1.2.1	Extent of market dominance	4.70	131	4.2.1 4.2.2	Personal rights	
1.2.2	·	r	98	4.2.2	Personal safety	
1.2.3 1.2.4		9.05 1.82	131 104	4.2.4	Sanitation	
1.2.4		n/a	n/a			
1.2.6		52.31	78	5	VOCATIONAL AND TECHNICAL SKILLS 30.88	111
1.3	Business and Labour Landscap	e33.91	111	5.1	Mid-Level Skills	
	Labour Market			5.1.1	Workforce with secondary education	96
1.3.1		95.17	21	5.1.2	Population with secondary education	
1.3.2	Management Practice		75	5.1.3	Technicians and associate professionals	
1.3.3		15.53	127	5.1.4 5.2	Labour productivity per employee	
1.3.4		ity31.32	124	5.2.1	Ease of finding skilled employees	
	Technology Adoption			5.2.2	Relevance of education system to the economy0.00	
1.3.5			110	5.2.3	Skills matching	
1.3.6 1.3.7	, ,		116 86	5.2.4	Highly educated unemployment71.65	5 77
				6	GLOBAL KNOWLEDGE SKILLS12.75	105
2		41.49	99	6.1	High-Level Skills	
2.1	· · · · · · · · · · · · · · · · · · ·		114	6.1.1	Workforce with tertiary education	
2.1.1	Attract Business  FDI regulatory restrictiveness	n/a	n/a	6.1.2 6.1.3	Population with tertiary education	
2.1.2			63	6.1.4	Researchers	
	Attract People			6.1.5	Senior officials and managers	
2.1.3	3		117	6.1.6	Digital skillsn/a	n/a
2.1.4		n/a	n/a	6.2	Talent Impact	
2.1.5	9		126 74	6.2.1	Innovation output	
۷.۷	Social Inclusion		/4	6.2.2 6.2.3	Software development	
2.2.1		42.55	67	6.2.4	New business density	
2.2.2	Tolerance of immigrants	70.77	43	6.2.5	Scientific journal articles	
2.2.3	· · · · · · · · · · · · · · · · · · ·	9.41	129			
2.2.4	Gender Equality  Economic empowerment of wo	men80.53	55			
2.2.4		is91.44	21			
2.2.6		men30.07	112			

### **NIGERIA**

114
wer-middle income
ub-Saharan Africa
218.54

GTCI 2023 Country Profile by Pillar



	Score	Rank
1	ENABLE 28.39	119
1.1	Regulatory Landscape	127
1.1.1	Government effectiveness	125
1.1.2	Rule of law	113
1.1.3	Political stability14.90	132
1.1.4	Regulatory quality17.90	125
1.1.5	Corruption	123
1.2	Market Landscape	97
1.2.1	Extent of market dominance	101
1.2.2	Domestic credit to private sector14.72	121
1.2.3	Cluster development	97
1.2.4	R&D expendituren/a	n/a
1.2.5	ICT infrastructure	84
1.2.6	Urbanisation	98
1.3	Business and Labour Landscape	108
1 2 1	Labour Market Labour rights	0.4
1.3.1	9	84
1.3.2	Labour-employer cooperation	95
1.3.3	Professional management	41
1.3.4	Relationship of pay to productivity	102
	Technology Adoption	
1.3.5	Enterprise software	96
1.3.6	Cloud computing	88
1.3.7	Firms with website	105
2	ATTRACT	112
_	ATTRACT37.07	
2.1	External Openness	105
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation	122
2.1.3	Migrant stock	112
2.1.4	International students	n/a
2.1.5	Brain gain	53
2.2	Internal Openness	113
	Social Inclusion	
2.2.1	Tolerance of minorities8.51	122
2.2.2	Tolerance of immigrants	60
2.2.3	Social mobility	103
	Gender Equality	
2.2.4	Economic empowerment of women	114
2.2.5	Gender parity in high-skilled jobs	79
2.2.5	Leadership apportunities for women 36.02	104

	(US\$ billions)	
	score (income group average)	
	Score	Ra
	GROW19.80	1
.1	Formal Education	1
	Enrolment	
1.1	Vocational enrolment	
1.2	Quality Quality	1
1.3	Tertiary education expenditure	
1.4	Reading, maths, and science	
1.5	University ranking	
2	Lifelong Learning34.16	
2.1	Business masters education	
2.2	Prevalence of training in firms	
2.3	Employee development	
.3	Access to Growth Opportunities	
	Empowerment 50.63	
3.1	Delegation of authority	
3.2	Youth inclusion	
3.3	Use of virtual social networks	
3.4	Use of virtual professional networks	
	osc of medal professional nections	
	RETAIN27.30	1
1	Sustainability	
1.1	Pension coverage	
1.2 1.3	Social protection	
1.3	Environmental performance	
1.5	Vulnerable employment	
2	Lifestyle	
2.1	Personal rights	
2.2	Personal safety44.46	
2.3	Physician density5.52	
2.4	Sanitation	
	VOCATIONAL AND TECHNICAL SKILLS25.77	1
1	Mid-Level Skills	
1.1	Workforce with secondary education	
1.2	Population with secondary educationn/a	
1.3	Technicians and associate professionals	
1.4	Labour productivity per employee	
2 2.1	Employability	
2.1	Ease of finding skilled employees	
2.3	Skills matching	
2.4	Highly educated unemployment	
1	<b>GLOBAL KNOWLEDGE SKILLS</b> 30.38 High-Level Skills 45.78	
1.1	Workforce with tertiary education	
1.2	Population with tertiary education	
1.3	Professionals	
1.4	Researchersn/a	
1.5	Senior officials and managers	
1.6	Digital skillsn/a	
.2	Talent Impact14.98	
2.1	Innovation output12.05	
2.2	High-value exports	
.2.3	Software development	
2.4		

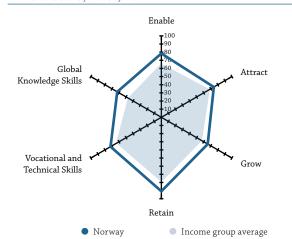
## **NORTH MACEDONIA**

	nal group				score (income group average)	
•	CI 2023 Country Profile by Pillar				Score	
				3	GROW30.30	88
	Enable			3.1	Formal Education	
	T <sup>100</sup>				Enrolment	
	<b>1</b> 80			3.1.1	Vocational enrolment	1 23
	Global +70 -60			3.1.2	Tertiary enrolment	3 74
Kno	wledge Skills	Attract			Quality	
raic	Wiledge Billing			3.1.3	Tertiary education expenditure	
	20			3.1.4 3.1.5	Reading, maths, and science	
				3.1.5	Lifelong Learning	
				3.2.1	Business masters education	
				3.2.2	Prevalence of training in firms	
17.	ocational and	~		3.2.3	Employee development	
	chnical Skills	Grow		3.3	Access to Growth Opportunities	81
10	timicai Skins				Empowerment	
	Į			3.3.1	Delegation of authority	
	1			3.3.2	Youth inclusion	) 68
	Retain			2.2.2	Collaboration	
	North Macedonia     Income gr	oup average		3.3.3	Use of virtual social networks	
	6			3.3.4	Use of virtual professional networks	) 00
		Score	Rank		DETAIN CO.O.	
	ENABLE	39.38	80	4	RETAIN         63.01           Sustainability         51.60	
	Regulatory Landscape	46.58	60	4.1 4.1.1	Pension coverage	
.1	Government effectiveness		75	4.1.1	Social protection	
2	Rule of law		64	4.1.3	Brain retention	
3	Political stability		58	4.1.4	Environmental performance	
4 5	Regulatory quality  Corruption		51 68	4.1.5	Vulnerable employment85.29	4
J	Market Landscape		105	4.2	Lifestyle	3 46
.1	Extent of market dominance		125	4.2.1	Personal rights	
2.2	Domestic credit to private sector		56	4.2.2	Personal safety80.20	
.3	Cluster development		102	4.2.3	Physician density	
2.4	R&D expenditure	6.87	67	4.2.4	Sanitation	5 41
2.5	ICT infrastructure		100			
2.6	Urbanisation		80	5	VOCATIONAL AND TECHNICAL SKILLS 50.45	61
3	Business and Labour Landscape	38./8	89	5.1	Mid-Level Skills	
3.1	Labour Market Labour rights	02.02	29	5.1.1	Workforce with secondary education	
3.2	Labour rights.  Labour-employer cooperation		116	5.1.2	Population with secondary education	
	Management Practice		110	5.1.3 5.1.4	Technicians and associate professionals	
.3	Professional management	14.42	128	5.1.4	Employability	
.4	Relationship of pay to productivity		112	5.2.1	Ease of finding skilled employees	
	Technology Adoption			5.2.2	Relevance of education system to the economy22.21	
3.5	Enterprise software		43	5.2.3	Skills matching	
3.6 3.7	Cloud computing  Firms with website		110 45	5.2.4	Highly educated unemployment53.94	109
				6	GLOBAL KNOWLEDGE SKILLS	67
	ATTRACT	46.69	83	6.1	High-Level Skills	
	External Openness	45.39	68	6.1.1	Workforce with tertiary education	
	Attract Business		4.5	6.1.2	Population with tertiary education	
.1	FDI regulatory restrictiveness		16	6.1.3	Professionals	
.2	Financial globalisation	61.5/	66	6.1.4	Researchers	
.3	Attract People Migrant stock	<b>15 55</b>	57	6.1.5 6.1.6	Senior officials and managers	
د. 4	International students.		48	6.2	Digital skills         .22.13           Talent Impact         .25.39	
.5	Brain gain		129	6.2.1	Innovation output	
	Internal Openness		96	6.2.2	High-value exports	
	Social Inclusion			6.2.3	Software development65.54	
.1	Tolerance of minorities		67	6.2.4	New business density	
.2	Tolerance of immigrants		109	6.2.5	Scientific journal articles	65
.3	Social mobility	17.96	125			
	(-onder Fauglity)					
,	Gender Equality	70.70	F.C.			
.4 .5	Economic empowerment of women		59 11			

## **NORWAY**

e
e
6
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GTCI 2023 Country Profile by Pillar



	Score	Rank
1	ENABLE 78.35	8
1.1	Regulatory Landscape90.41	6
1.1.1	Government effectiveness	5
1.1.2	Rule of law	2
1.1.3	Political stability	7
1.1.4	Regulatory quality	10
1.1.5	Corruption	4
1.2	Market Landscape	11
1.2.1	Extent of market dominance	18
1.2.2	Domestic credit to private sector67.81	18
1.2.3	Cluster development	17
1.2.4	R&D expenditure	16
1.2.5	ICT infrastructure	2
1.2.6	Urbanisation	28
1.3	Business and Labour Landscape	11
1.3.1	Labour rights	1
1.3.2	Labour-employer cooperation	6
1.3.3	Professional management	10
1.3.4	Relationship of pay to productivity	27
1.3.5	Enterprise software	32
1.3.6	Cloud computing	25
1.3.7	Firms with website	9
2	ATTRACT	14
2.1	External Openness	27
2.1.1	Attract Business FDI regulatory restrictiveness	49
2.1.1	Financial globalisation	15
	Attract People	
2.1.3	Migrant stock	28
2.1.4	International students	54
2.1.5	Brain gain	27
2.2	Internal Openness	6
2.2.1	Tolerance of minorities	32
2.2.2	Tolerance of immigrants	3
2.2.3	Social mobility	8

GDP	per capita (PPP US\$)	79.27
	score (income group average)	
	Score	Rank
3	GROW65.69	12
3.1	Formal Education	14
3.1.1	Vocational enrolment	22
3.1.2	Tertiary enrolment	17
3.1.3	Tertiary education expenditure	4
3.1.4	Reading, maths, and science	21
3.1.5	University ranking	26 19
3.2.1	Business masters education	33
3.2.2	Prevalence of training in firms	n/a
3.2.3	Employee development	16
3.3	Access to Growth Opportunities	5
3.3.1	Delegation of authority	2
3.3.2	Youth inclusion	8
3.3.3	Use of virtual social networks	13
3.3.4	Use of virtual professional networks	15
4	RETAIN90.77	3
4.1	Sustainability	5
4.1.1	Pension coverage	1
4.1.2	Social protection	2
4.1.3	Brain retention	11
4.1.4	Environmental performance	20
4.1.5	Vulnerable employment96.06	8
4.2	Lifestyle	3
4.2.1	Personal rights	11
4.2.2	Personal safety         .94.78           Physician density         .81.82	6 7
4.2.4	Sanitation	44
5	VOCATIONAL AND TECHNICAL SKILLS	7
5.1	Mid-Level Skills	22
5.1.1	Workforce with secondary education	68
5.1.2	Population with secondary education55.80	29
5.1.3	Technicians and associate professionals	22
5.1.4 5.2	Labour productivity per employee	6 5
5.2.1	Employability	6
5.2.2	Relevance of education system to the economy	17
5.2.3	Skills matching	16
5.2.4	Highly educated unemployment90.19	15
6	GLOBAL KNOWLEDGE SKILLS	7
6.1	High-Level Skills	6
6.1.1	Workforce with tertiary education56.14	
6.1.2	Population with tertiary education	15
6.1.3	Professionals	5
6.1.4 6.1.5	Researchers	6 18
	Digital skills	9
6.1.6	Talent Impact	12
6.1.6 6.2		
	Innovation output59.08	28
6.2		
6.2 6.2.1 6.2.2 6.2.3	Innovation output         59.08           High-value exports         37.24           Software development         91.79	
6.2 6.2.1 6.2.2	Innovation output	20 4 15

2.2.5

20

3

8

## **OMAN**

Gender Equality

Key Indicators

		50			
	(0 ac 01 25 2)	<b>59</b>		per capita (PPP US\$)	
	ne group High ir			(US\$ billions)	
-	nal groupNorthern Africa and Western			score	
Popul	ation (millions)	. <b>4.58</b>	GTCI	score (income group average)	61.91
GTO	Il 2023 Country Profile by Pillar			Score	e Rank
	P 11		3	GROW41.30	56
	Enable		3.1	Formal Education	5 59
	<b>1</b> 90		211	Enrolment 0.00	120
	80 70		3.1.1 3.1.2	Vocational enrolment	
	Global 60 Attract			Quality	
Kno	wledge Skills		3.1.3	Tertiary education expenditure	
	130 20		3.1.4	Reading, maths, and science	
	10.		3.1.5 3.2	University ranking	
			3.2.1	Business masters education	
			3.2.2	Prevalence of training in firms	
Vo	ocational and		3.2.3	Employee development	46
	chnical Skills Grow		3.3	Access to Growth Opportunities	40
	<b>T</b>		2.21	Empowerment 500	7 20
	İ		3.3.1 3.3.2	Delegation of authority	
	Retain		3.3.2	Collaboration	1 11/4
			3.3.3	Use of virtual social networks	1 6
	<ul> <li>Oman</li> <li>Income group average</li> </ul>		3.3.4	Use of virtual professional networks	5 51
	Score	Rank			
1	ENABLE	49	4	RETAIN59.05	64
1.1	Regulatory Landscape	52	4.1	Sustainability	
1.1.1	Government effectiveness	77	4.1.1	Pension coverage	
1.1.2	Rule of law56.08	46	4.1.2 4.1.3	Social protection	
1.1.3	Political stability74.35	45	4.1.3	Environmental performance	
1.1.4	Regulatory quality	53	4.1.5	Vulnerable employment	
1.1.5 1.2	Corruption         36.99           Market Landscape         57.15	55 30	4.2	Lifestyle53.90	
1.2.1	Extent of market dominance	33	4.2.1	Personal rights	
1.2.2	Domestic credit to private sector	60	4.2.2	Personal safety	
1.2.3	Cluster development	20	4.2.3 4.2.4	Physician density	
1.2.4	R&D expenditure5.23	78	4.2.4	Satillation99.2.	20
1.2.5 1.2.6	ICT infrastructure	52 24			
1.2.0	Business and Labour Landscape	66	5	VOCATIONAL AND TECHNICAL SKILLS50.81	
1.5	Labour Market	00	5.1 5.1.1	Mid-Level Skills	
1.3.1	Labour rights	n/a	5.1.1	Population with secondary education	
1.3.2	Labour-employer cooperation	17	5.1.3	Technicians and associate professionals	
	Management Practice		5.1.4	Labour productivity per employee	5 40
1.3.3	Professional management	36 18	5.2	Employability69.06	
1.3.4	Technology Adoption	10	5.2.1	Ease of finding skilled employees	
1.3.5	Enterprise software	124	5.2.2 5.2.3	Relevance of education system to the economy	
1.3.6	Cloud computing4.92	123	5.2.4	Highly educated unemployment	
1.3.7	Firms with website	n/a			
			6	GLOBAL KNOWLEDGE SKILLS20.74	
2 1	ATTRACT	61	6.1	High-Level Skills	
2.1	External Openness	38	6.1.1	Workforce with tertiary education	
2.1.1	FDI regulatory restrictiveness	n/a	6.1.2 6.1.3	Population with tertiary education	
2.1.2	Financial globalisation	76	6.1.4	Researchers	
	Attract People		6.1.5	Senior officials and managers	9 27
2.1.3	Migrant stock	6	6.1.6	Digital skills35.95	
2.1.4	International students	63 19	6.2	Talent Impact	
2.1.5 2.2	Internal Openness 47.06	104	6.2.1 6.2.2	Innovation output	
	Social Inclusion	.01	6.2.3	Software development	
2.2.1	Tolerance of minorities	19	6.2.4	New business density	7 71
2.2.2	Tolerance of immigrantsn/a	n/a	6.2.5	Scientific journal articles	62
2.2.3	Social mobility	40			

131

117

30

#### **PAKISTAN**

Enable  Global nowledge Skills  Vocational and Fechnical Skills  Retain	ome group	Lower-middle inc	come Asia
Global nowledge Skills  Vocational and Fechnical Skills  Retain			
Global 60 Attract 50 Attract 40 Provided By Skills Wocational and Fechnical Skills Retain		Enable	
	Global Knowledge Skills  Vocational and Technical Skills		
		t	
■ D 1 :		Retain	
<ul> <li>Pakistan</li> <li>Income group average</li> </ul>	<ul><li>Pakis</li></ul>	an Income group average	
Score Rank		Score	Rank

1	ENABLE	111
1.1	Regulatory Landscape	121
1.1.1	Government effectiveness	92
1.1.2	Rule of law	105
1.1.3	Political stability17.83	131
1.1.4	Regulatory quality23.11	112
1.1.5	Corruption	114
1.2	Market Landscape	85
1.2.1	Extent of market dominance	28
1.2.2	Domestic credit to private sector	119
1.2.3	Cluster development57.31	38
1.2.4	R&D expenditure2.89	96
1.2.5	ICT infrastructure	66
1.2.6	Urbanisation	112
1.3	Business and Labour Landscape	107
	Labour Market	
1.3.1	Labour rights	97
1.3.2	Labour-employer cooperation	84
	Management Practice	0.
1.3.3	Professional management	96
1.3.4	Relationship of pay to productivity	31
1.5.7	Technology Adoption	51
1.3.5	Enterprise software	117
1.3.5	·	117
1.3.7	Cloud computing	68
1.5.7	Timis with website	00
2	ATTRACT 30.66	
2.1	711 111716 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	125
Z.I	External Openness	<b>125</b> 113
2.1	External Openness	
	External Openness	
2.1.1	External Openness 29.03 Attract Business FDI regulatory restrictivenessn/a	113 n/a
2.1.1	External Openness 29.03 Attract Business FDI regulatory restrictiveness .n/a Financial globalisation 18.08	113
2.1.1 2.1.2	External Openness 29.03 Attract Business FDI regulatory restrictivenessn/a Financial globalisation	113 n/a 127
2.1.1 2.1.2 2.1.3	External Openness 29.03 Attract Business FDI regulatory restrictivenessn/a Financial globalisation	113 n/a 127 90
2.1.1 2.1.2 2.1.3 2.1.4	External Openness 29.03 Attract Business FDI regulatory restrictiveness	113 n/a 127 90 n/a
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5	External Openness         29.03           Attract Business         FDI regulatory restrictiveness         .n/a           Financial globalisation         18.08           Attract People         Migrant stock         28.99           International students         .n/a           Brain gain         .40.01	113 n/a 127 90 n/a 83
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5	External Openness         29.03           Attract Business         .n/a           FDI regulatory restrictiveness         .n/a           Financial globalisation         .18.08           Attract People         Migrant stock           International students         .n/a           Brain gain         .40.01           Internal Openness         .32.29	113 n/a 127 90 n/a
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2	External Openness         29.03           Attract Business         .n/a           FDI regulatory restrictiveness         .n/a           Financial globalisation         .18.08           Attract People	113 n/a 127 90 n/a 83 127
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2	External Openness         29.03           Attract Business         n/a           FDI regulatory restrictiveness         n/a           Financial globalisation         18.08           Attract People         32.99           International students         n/a           Brain gain         40.01           Internal Openness         32.29           Social Inclusion           Tolerance of minorities         8.51	113 n/a 127 90 n/a 83 127
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.1	External Openness         29.03           Attract Business         ro/a           FDI regulatory restrictiveness         n/a           Financial globalisation         18.08           Attract People         description           Migrant stock         28.99           International students         n/a           Brain gain         40.01           Internal Openness         32.29           Social Inclusion           Tolerance of minorities         8.51           Tolerance of immigrants         36.92	113 n/a 127 90 n/a 83 127 122 108
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.1	External Openness         29.03           Attract Business         FDI regulatory restrictiveness           FDI regulatory restrictiveness         .n/a           Financial globalisation         18.08           Attract People	113 n/a 127 90 n/a 83 127
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.1 2.2.2	External Openness         29.03           Attract Business         n/a           FDI regulatory restrictiveness         n/a           Financial globalisation         18.08           Attract People         Migrant stock         28.99           International students         n/a           Brain gain         40.01           Internal Openness         32.29           Social Inclusion         30.20           Tolerance of minorities         8.51           Tolerance of immigrants         36.92           Social mobility         58.35           Gender Equality	113 n/a 127 90 n/a 83 127 122 108 45
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3	External Openness 29.03 Attract Business FDI regulatory restrictivenessn/a Financial globalisation	113 n/a 127 90 n/a 83 127 122 108 45
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.1 2.2.2	External Openness         29.03           Attract Business         n/a           FDI regulatory restrictiveness         n/a           Financial globalisation         18.08           Attract People         Migrant stock         28.99           International students         n/a           Brain gain         40.01           Internal Openness         32.29           Social Inclusion         30.20           Tolerance of minorities         8.51           Tolerance of immigrants         36.92           Social mobility         58.35           Gender Equality	113 n/a 127 90 n/a 83 127 122 108 45

	per capita (PPP US\$)	
	score	
GTCI	score (income group average)	32.0
	Score	Ran
3	GROW	9
.1	Formal Education	8
	Enrolment	
.1.1	Vocational enrolment	10
.1.2	Tertiary enrolment	10
.1.3	Quality Tertiary education expenditure	7
.1.3	Reading, maths, and science	n,
.1.5	University ranking	4
.2	Lifelong Learning	7
.2.1	Business masters education	4
.2.2	Prevalence of training in firms	10
.2.3	Employee development	3
.3	Access to Growth Opportunities	11
	Empowerment	_
.3.1	Delegation of authority	11
.3.2	Youth inclusion	11
.3.3	Use of virtual social networks	10
.3.4	Use of virtual professional networks	10
	RETAIN	10
.1	Sustainability35.67	9
1.1.1	Pension coverage	10
1.1.2	Social protection58.07	5
1.1.3	Brain retention53.50	4
1.1.4	Environmental performance	13
1.1.5	Vulnerable employment	10
l.2 l.2.1	Lifestyle       .41.71         Personal rights       .43.06	10 10
1.2.2	Personal safety	10
1.2.3	Physician density	8
1.2.4	Sanitation	10
	VOCATIONAL AND TECHNICAL SKILLS31.85	10
.1	Mid-Level Skills	10
.1.1	Population with secondary education	9
.1.3	Technicians and associate professionals	9
.1.4	Labour productivity per employee	g
5.2	Employability	9
5.2.1	Ease of finding skilled employees	8
5.2.2	Relevance of education system to the economy	5
.2.3	Skills matching	9
.2.4	Highly educated unemployment	9
,	GLOBAL KNOWLEDGE SKILLS	10
.1	High-Level Skills 8.73	11
5.1.1	Workforce with tertiary education	g
.1.2	Population with tertiary education	8
.1.3	Professionals	10
.1.4	Researchers4.74	7
.1.5	Senior officials and managers	8
.1.6	Digital skills6.56	6
.2	Talent Impact	10
.2.1	Innovation output	10
	High-value exports	10
	and water development 47.37	10
.2.3		11
5.2.3 5.2.4 5.2.5	New business density	1

#### **PANAMA**

Key Indicators

D 1	((124)	\$	87	CDD	(DDD Liet)	
	(out of 134)		-		per capita (PPP US\$)	
	0 1	High in			(US\$ billions)	
_		Latin America and the Carib			score	
Popu	lation (millions)		.4.41	GTCI	score (income group average)	61.91
GT	CI 2023 Country Profile by Pillar				Score	Rank
		P 11		3	GROW 32.96	76
		Enable		3.1	Formal Education	76
		<b>I</b> <sup>100</sup> <sub>90</sub>			Enrolment	
		80 70		3.1.1	Vocational enrolment	44
	Global	60 Attract		3.1.2	Tertiary enrolment	71
Kno	owledge Skills	t <sub>40</sub> Attract		3.1.3	Quality Tertiary education expenditure	54
	****	30		3.1.4	Reading, maths, and science	75
	**			3.1.5	University ranking8.00	73
		<b>X</b> .		3.2	Lifelong Learning20.67	120
		·   X		3.2.1	Business masters education0.00	57
	Arriva.			3.2.2	Prevalence of training in firms	n/a
	ocational and	Grow		3.2.3 3.3	Employee development	102 54
Te	echnical Skills	Į diow		٥.٥	Empowerment So.39	24
		Ť		3.3.1	Delegation of authority	89
		I		3.3.2	Youth inclusion	64
		Retain			Collaboration	
	• •			3.3.3	Use of virtual social networks59.82	74
	<ul><li>Panama</li></ul>	<ul> <li>Income group average</li> </ul>		3.3.4	Use of virtual professional networks	32
		Score	Rank			
1	ENABLE	38.48	87	4	RETAIN	63
1.1	Regulatory Landscape	45.46	63	4.1 4.1.1	Sustainability	75 77
1.1.1			60	4.1.1	Social protection	108
1.1.2		38.72	77	4.1.3	Brain retention	33
1.1.3			50 60	4.1.4	Environmental performance	
1.1.4 1.1.5	2 , , ,		81	4.1.5	Vulnerable employment54.24	90
1.2			75	4.2	Lifestyle65.80	59
1.2.1	·		88	4.2.1	Personal rights	40
1.2.2	Domestic credit to private se	ctor	24	4.2.2	Personal safety	
1.2.3	Cluster development		95	4.2.3 4.2.4	Physician density	81 88
1.2.4		2.90	94	4.2.4	Salitation	00
1.2.5		50.29	94			
1.2.6 1.3			60 123	5	VOCATIONAL AND TECHNICAL SKILLS 33.56	101
1.5	Labour Market	арс25.07	123	5.1	Mid-Level Skills	84
1.3.1		39.68	95	5.1.1 5.1.2	Workforce with secondary education	
1.3.2		n	88	5.1.2	Technicians and associate professionals	101
	Management Practice			5.1.4	Labour productivity per employee	
1.3.3			98	5.2	Employability	124
1.3.4		tivity34.14	121	5.2.1	Ease of finding skilled employees	104
125	Technology Adoption	12.57	100	5.2.2	Relevance of education system to the economy8.80	128
1.3.5 1.3.6	'		109 78	5.2.3	Skills matching	92
1.3.7		n/a	n/a	5.2.4	Highly educated unemployment	92
				6	GLOBAL KNOWLEDGE SKILLS18.50	93
2	ATTRACT	48.81	76	6.1	High-Level Skills	93
2.1	External Openness	46.95	64	6.1.1	Workforce with tertiary education	80
	Attract Business			6.1.2	Population with tertiary education	41
2.1.1	9 ,	n/a	n/a	6.1.3	Professionals	108
2.1.2	9	75.21	37	6.1.4	Researchers	99
212	Attract People	40.00	EO	6.1.5	Senior officials and managers	91
2.1.3 2.1.4			50 64	6.1.6 6.2	Digital skills	n/a 86
2.1.4		52.47	52	6.2.1	Talent Impact	86 79
2.2	•		85	6.2.2	High-value exports	129
	Social Inclusion			6.2.3	Software development	90

76

95

68

83

94

6.2.4

6.2.5

Economic empowerment of women......70.80

2.2.1

2.2.2

2.2.4

2.2.5

Gender Equality

### **PARAGUAY**

Key Indicators

	(out of 134)		91		per capita (PPP US\$)	
	onal groupLatin America and the				score	
	lation (millions)				score (income group average)	
GT	CI 2023 Country Profile by Pillar				Score	e Rank
	Enable			3	GROW 26.62	2 101
	100 190			3.1	Formal Education. 10.43 Enrolment	
	<b>+</b> 80			3.1.1	Vocational enrolment	
Global + 70 60 Attract			3.1.2	Tertiary enrolment	) 131	
Kno	owledge Skills			3.1.3	Tertiary education expenditure	
	20			3.1.4	Reading, maths, and science	
	10			3.1.5	University ranking9.32	
				3.2	Lifelong Learning	
				3.2.1 3.2.2	Business masters education	
				3.2.3	Employee development	
	ocational and Grow			3.3	Access to Growth Opportunities	
Te	chnical Skills				Empowerment	
	‡			3.3.1	Delegation of authority	1 124
	1			3.3.2	Youth inclusion	
	Retain				Collaboration	
	Danier	_		3.3.3	Use of virtual social networks	
	<ul> <li>Paraguay</li> <li>Income group average</li> </ul>			3.3.4	Use of virtual professional networks	7 76
		Score	Rank	4	RETAIN	2 67
1	ENABLE 3		104	4.1	Sustainability	
1.1	Regulatory Landscape		90	4.1.1	Pension coverage	
1.1.1 1.1.2	Government effectiveness		104 97	4.1.2	Social protection14.76	
1.1.2	Political stability.		64	4.1.3	Brain retention	
1.1.4	Regulatory quality		82	4.1.4	Environmental performance	
1.1.5	Corruption		111	4.1.5	Vulnerable employment	
1.2	Market Landscape		112	4.2	Lifestyle	
1.2.1	Extent of market dominance	11.51	126	4.2.1	Personal rights	
1.2.2	Domestic credit to private sector	47.30	66	4.2.2 4.2.3	Personal safety	
1.2.3	Cluster development		111	4.2.4	Sanitation	
1.2.4	R&D expenditure		97		544	. , ,
1.2.5 1.2.6	ICT infrastructure		105 72			
1.3	Business and Labour Landscape.		103	5	VOCATIONAL AND TECHNICAL SKILLS 36.05	
1.5	Labour Market	33.50	103	5.1	Mid-Level Skills	
1.3.1	Labour rights	56.84	88	5.1.1 5.1.2	Workforce with secondary education	
1.3.2	Labour-employer cooperation		92	5.1.2	Technicians and associate professionals	
	Management Practice			5.1.4	Labour productivity per employee	
1.3.3	Professional management		121	5.2	Employability41.99	
1.3.4	Relationship of pay to productivity	33.00	123	5.2.1	Ease of finding skilled employees	5 119
	Technology Adoption			5.2.2	Relevance of education system to the economy	7 132
1.3.5	Enterprise software		80	5.2.3	Skills matching	
1.3.6 1.3.7	Cloud computing		77 30	5.2.4	Highly educated unemployment83.42	2 45
				6	GLOBAL KNOWLEDGE SKILLS17.00	99
2	ATTRACT 5	2.59	58	6.1	High-Level Skills	
2.1	External Openness	39.31	85	6.1.1	Workforce with tertiary education	
	Attract Business		,	6.1.2	Population with tertiary education	
2.1.1	FDI regulatory restrictiveness		n/a	6.1.3	Professionals	
2.1.2	Financial globalisation	41.2/	103	6.1.4	Researchers 1.33	
2.1.3	Attract People Migrant stock	31.66	82	6.1.5 6.1.6	Senior officials and managers	
2.1.3	International students.		n/a	6.1.6	Talent Impact	
2.1.5	Brain gain		71	6.2.1	Innovation output	
2.2	Internal Openness		33	6.2.2	High-value exports	
	Social Inclusion			6.2.3	Software development	
2.2.1	Tolerance of minorities		52	6.2.4	New business density	5 120
2.2.2	Tolerance of immigrants		13	6.2.5	Scientific journal articles	1 107
2.2.3	Social mobility	35.68	99			
	Gender Equality					

27

2.2.4Economic empowerment of women..92.042.2.5Gender parity in high-skilled jobs..98.15

### **PERU**

Key Indicators

	( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	5	32	25.5	(777 1104)	
	(out of 134)		_		per capita (PPP US\$)	
	ne group				(US\$ billions)	
	nal group				score	
Popul	ation (millions)		34.05	GTCI	score (income group average)	43.53
GTC	I 2023 Country Profile by Pillar				Score	Rank
	Enable			3	GROW	48
	<b>∓</b> 100			3.1	Formal Education	78
	90			211	Enrolment 200	110
	‡ <sup>80</sup> 70			3.1.1 3.1.2	Vocational enrolment	110 33
	Global +60 50	. Attract		3.1.2	Quality	33
Kno	wledge Skills	JANA TO THE STATE OF THE STATE		3.1.3	Tertiary education expenditure	96
	130	A Company of the Comp		3.1.4	Reading, maths, and science27.52	65
				3.1.5	University ranking21.07	52
				3.2	Lifelong Learning55.26	21
		<b>X</b> .		3.2.1	Business masters education	22
	A A A A A A A A A A A A A A A A A A A	***		3.2.2 3.2.3	Prevalence of training in firms	6 110
	ocational and	Grow		3.2.3	Employee development	64
Teo	chnical Skills			5.5	Empowerment	04
	‡			3.3.1	Delegation of authority	92
	1			3.3.2	Youth inclusion	83
	Retain				Collaboration	
	• Peru • Ii	ncome group average		3.3.3	Use of virtual social networks	50
	• reru • n	icoille group average		3.3.4	Use of virtual professional networks	36
		Score	Rank			
1	ENABLE	39.05	83	4	RETAIN	88
1.1	Regulatory Landscape		82	4.1 4.1.1	Sustainability	99 89
1.1.1	Government effectiveness		87	4.1.2	Social protection	123
1.1.2	Rule of law		95	4.1.3	Brain retention	65
1.1.3	Political stability		87 67	4.1.4	Environmental performance	76
1.1.4 1.1.5	Corruption		81	4.1.5	Vulnerable employment	102
1.2	Market Landscape		81	4.2	Lifestyle	71
1.2.1	Extent of market dominance		102	4.2.1	Personal rights	55
1.2.2	Domestic credit to private sector	45.78	72	4.2.2	Personal safety	75
1.2.3	Cluster development	28.93	109	4.2.3 4.2.4	Physician density	80 96
1.2.4	R&D expenditure		93	4.2.4	34111411011	90
1.2.5 1.2.6	ICT infrastructure		72 39			
1.2.0	Business and Labour Landscape		84	5	VOCATIONAL AND TECHNICAL SKILLS39.98	85
1.5	Labour Market		04	5.1	Mid-Level Skills	67
1.3.1	Labour rights	43.70	91	5.1.1 5.1.2	Workforce with secondary education	44 49
1.3.2	Labour-employer cooperation	32.27	105	5.1.3	Technicians and associate professionals30.40	63
	Management Practice			5.1.4	Labour productivity per employee	85
1.3.3	Professional management		80	5.2	Employability44.38	110
1.3.4	Relationship of pay to productivity	44.45	100	5.2.1	Ease of finding skilled employees	110
1.3.5	Technology Adoption Enterprise software	2775	48	5.2.2	Relevance of education system to the economy14.19	120
1.3.6	Cloud computing		54	5.2.3 5.2.4	Skills matching	n/a 41
1.3.7	Firms with website		37	3.2.4	riigiiiy educated diienipioyinent	41
				6	GLOBAL KNOWLEDGE SKILLS 20.49	86
2	ATTRACT	49.89	68	6.1	High-Level Skills	87
2.1	External Openness	48.33	62	6.1.1	Workforce with tertiary education	68
	Attract Business	00.07		6.1.2	Population with tertiary education28.05	54
2.1.1	FDI regulatory restrictiveness		45	6.1.3	Professionals	86
2.1.2	Financial globalisation Attract People	44.24	99	6.1.4	Researchers	n/a
2.1.3	Migrant stock	32.50	81	6.1.5 6.1.6	Senior officials and managers	124 58
2.1.4	International students		n/a	6.2	Talent Impact	76
2.1.5	Brain gain		94	6.2.1	Innovation output	80
2.2	Internal Openness		82	6.2.2	High-value exports8.51	78
	Social Inclusion			6.2.3	Software development	68
2.2.1	Tolerance of minorities		115	6.2.4	New business density	37
2.2.2	Tolerance of immigrants		82	6.2.5	Scientific journal articles	86
2.2.3	Social mobility Gender Equality	44.09	70			
2.2.4	Economic empowerment of women	97 97	25			
2.2.5	Gender parity in high-skilled jobs		76			
2.2.6	Leadership opportunities for women		97			

### **PHILIPPINES**

Key Indicators

	( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	5	34	<b></b> .	(222.774)	
	(out of 134)		_		per capita (PPP US\$)	
	ne group Lower-midonal group Eastern, Southeastern Asia a				score	
_	lation (millions)				score (income group average)	
•				0101		
GI	CI 2023 Country Profile by Pillar				Score	
	Enable			<b>3</b> 3.1	<b>GROW</b>	
	$\mathbf{I}_{00}^{100}$			5.1	Enrolment	10.
	80			3.1.1	Vocational enrolment	
Global 60 Attract			3.1.2	Tertiary enrolment	8	
Kno	owledge Skills $\frac{50}{40}$	100		3.1.3	Tertiary education expenditure	n/
	130			3.1.4	Reading, maths, and science	
				3.1.5	University ranking	
				3.2	Lifelong Learning60.03	10
				3.2.1	Business masters education	
				3.2.2	Prevalence of training in firms	
V	ocational and Grow			3.2.3	Employee development	
Те	echnical Skills	V		3.3	Access to Growth Opportunities	49
	+			3.3.1	Empowerment Delegation of authority	. 39
	İ			3.3.2	Youth inclusion	
	Retain			3.3.2	Collaboration	0.
				3.3.3	Use of virtual social networks	56
	<ul><li>Philippines</li><li>Income group avera</li></ul>	.ge		3.3.4	Use of virtual professional networks	69
		Score	Rank			
	ENABLE			4	RETAIN	92
1	ENABLE		89	4.1	Sustainability	93
1.1 1.1.1	Regulatory Landscape		87 61	4.1.1	Pension coverage	100
1.1.2	Rule of law		107	4.1.2	Social protection	
1.1.3	Political stability.		113	4.1.3	Brain retention	
1.1.4	Regulatory quality		68	4.1.4	Environmental performance	
1.1.5	Corruption	21.92	95	4.1.5	Vulnerable employment	
1.2	Market Landscape		98	4.2 4.2.1	Lifestyle	
1.2.1	Extent of market dominance		118	4.2.2	Personal safety	
1.2.2	Domestic credit to private sector		68	4.2.3	Physician density	
1.2.3 1.2.4	Cluster development		67 73	4.2.4	Sanitation	
1.2.4	R&D expenditure		89			
1.2.6	Urbanisation		104	5	VOCATIONAL AND TECHNICAL SKILLS 20.70	04
1.3	Business and Labour Landscape		67	<b>5</b> .1	VOCATIONAL AND TECHNICAL SKILLS	
	Labour Market			5.1.1	Workforce with secondary education	
1.3.1	Labour rights	46.78	90	5.1.2	Population with secondary education	
1.3.2	Labour-employer cooperation	66.28	24	5.1.3	Technicians and associate professionals	
	Management Practice			5.1.4	Labour productivity per employee11.80	87
1.3.3	Professional management	53.93	56	5.2	Employability60.98	
1.3.4	Relationship of pay to productivity	61.34	43	5.2.1	Ease of finding skilled employees	
1.3.5	Technology Adoption Enterprise software	16 18	92	5.2.2	Relevance of education system to the economy	
1.3.6	Cloud computing		68	5.2.3 5.2.4	Skills matching         .53.74           Highly educated unemployment         .89.66	
1.3.7	Firms with website		61	J.Z. <del>4</del>	riigriiy educated uriemployment	10
				6	GLOBAL KNOWLEDGE SKILLS 30.22	54
2	ATTRACT		102	6.1	High-Level Skills	73
2.1	External Openness	. 21.37	128	6.1.1	Workforce with tertiary education	
211	Attract Business	0.00	70	6.1.2	Population with tertiary education	
2.1.1 2.1.2	FDI regulatory restrictiveness		79 97	6.1.3	Professionals	
∠.1.∠	Attract People	+J.U4	2/	6.1.4 6.1.5	Researchers	
2.1.3	Migrant stock	3.65	129	6.1.6	Digital skills	
2.1.4	International students.		n/a	6.2	Talent Impact	
2.1.5	Brain gain		93	6.2.1	Innovation output	
2.2	Internal Openness		54	6.2.2	High-value exports	
	Social Inclusion			6.2.3	Software development51.76	
2.2.1	Tolerance of minorities		92	6.2.4	New business density	
1 1 .)	Tolerance of immigrants	63.08	58	6.2.5	Scientific journal articles	105
2.2.2	Social mobility	A2 10	74			

86 66

 2.2.4
 Economic empowerment of women.
 .69.91

 2.2.5
 Gender parity in high-skilled jobs.
 .73.74

 2.2.6
 Leadership opportunities for women.
 .74.58

### **POLAND**

Gender Equality

2.2.4Economic empowerment of women..91.152.2.5Gender parity in high-skilled jobs..75.87

Key Indicators

		-	7				
Rank	(out of 134)	₫	<b>57</b>	GDP :	per capita (PPP US\$)	13,26	68.54
Incon	ne group	h inc	ome		(US\$ billions)		
	onal group				score		
_							
ropu.	lation (millions)	э	7.50	GICI	score (income group average)		91.91
GT	CI 2023 Country Profile by Pillar				<u> </u>	core	Rank
	Enable			3	GROW		37
	I 100 100			3.1	Formal Education		25
	<b>-</b> 80			3.1.1	Vocational enrolment		28
	Global 470			3.1.2	Tertiary enrolment	16.21	35
Kno	owledge Skills Attract			242	Quality		
	130			3.1.3	Tertiary education expenditure		30
	20			3.1.4 3.1.5	Reading, maths, and science		8 41
				3.1.3	Lifelong Learning		36
				3.2.1	Business masters education		17
				3.2.1	Prevalence of training in firms		75
_				3.2.2	Employee development		74
	ocational and Grow			3.3	Access to Growth Opportunities		62
Te	echnical Skills				Empowerment	0	02
	Ĭ			3.3.1	Delegation of authority	36.10	93
	1			3.3.2	Youth inclusion		31
	Retain				Collaboration		
				3.3.3	Use of virtual social networks	51.87	68
	Poland     Income group average			3.3.4	Use of virtual professional networks	17.33	74
	Sc	core	Rank				
	ENABLE53	.07	43	4	RETAIN		40
.1	Regulatory Landscape59	9.54	40	4.1	Sustainability		54
.1.1	Government effectiveness50	0.16	51	4.1.1	Pension coverage		65
.1.2	Rule of law	7.11	44	4.1.2 4.1.3	Social protection		70 80
.1.3	Political stability	4.50	44	4.1.3	Environmental performance		39
1.1.4	Regulatory quality63		36	4.1.5	Vulnerable employment		52
.1.5	Corruption		38	4.2	Lifestyle		35
1.2	Market Landscape		41	4.2.1	Personal rights		62
1.2.1	Extent of market dominance		19	4.2.2	Personal safety		29
1.2.2 1.2.3	Domestic credit to private sector		75 70	4.2.3	Physician density5		32
1.2.3	Cluster development		78 31	4.2.4	Sanitation		1
1.2.4	ICT infrastructure		19				
1.2.5	Urbanisation		75	_	VOCATIONAL AND TECHNICAL CVILLS		
1.3	Business and Labour Landscape		60	5	VOCATIONAL AND TECHNICAL SKILLS		22
	Labour Market	J., J	00	5.1	Morteforce with resemblery education		7
1.3.1	Labour rights	5.25	50	5.1.1 5.1.2	Workforce with secondary education		17 5
1.3.2	Labour-employer cooperation		73	5.1.3	Technicians and associate professionals		29
	Management Practice			5.1.4	Labour productivity per employee		32
1.3.3	Professional management		93	5.2	Employability6		51
1.3.4	Relationship of pay to productivity	8.83	83	5.2.1	Ease of finding skilled employees		73
	Technology Adoption			5.2.2	Relevance of education system to the economy		98
1.3.5	Enterprise software		59	5.2.3	Skills matching		10
1.3.6 1.3.7	Cloud computing		50 32	5.2.4	Highly educated unemployment	39.59	19
				6	GLOBAL KNOWLEDGE SKILLS	R 17	36
2	ATTRACT49	.35	73	6.1	High-Level Skills		35
2.1	External Openness	1.46	77	6.1.1	Workforce with tertiary education		34
	Attract Business			6.1.2	Population with tertiary education		38
2.1.1	FDI regulatory restrictiveness8		43	6.1.3	Professionals		27
2.1.2	Financial globalisation56	6.90	79	6.1.4	Researchers		28
	Attract People			6.1.5	Senior officials and managers		31
2.1.3	Migrant stock		98	6.1.6	Digital skills		49
2.1.4	International students		53	6.2	Talent Impact		41
2.1.5	Brain gain		105	6.2.1	Innovation output		35
2.2	Internal Openness	1.23	63	6.2.2	High-value exports		51
7 7 1	Social Inclusion Talaxance of minorities	6 01	EO	6.2.3 6.2.4	Software development		31
2.2.1 2.2.2	Tolerance of minorities		59 82	6.2.4	New business density		68 34
2.2.3	Social mobility		80	0.2.3	Selection of god that articles		24
	Gender Equality						

## **PORTUGAL**

Key Indicators		
Rank (out of 134) Income group Regional group Population (millions)		High income
GTCI 2023 Country Profile b	y Pillar	
Global Knowledge Skills	Enable  100 990 800 770 600 500 440 300 200 110	Attract
Vocational and Technical Skills		Grow

Retain

Portugal

Income group average

Score Rank

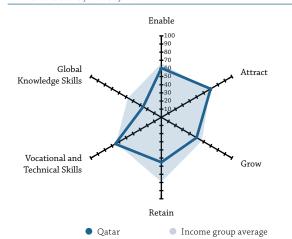
	560.0	riariii
1	ENABLE59.37	30
1.1	Regulatory Landscape	28
1.1.1	Government effectiveness	31
1.1.2	Rule of law75.42	22
1.1.3	Political stability85.95	16
1.1.4	Regulatory quality61.20	40
1.1.5	Corruption	27
1.2	Market Landscape54.80	34
1.2.1	Extent of market dominance	57
1.2.2	Domestic credit to private sector	25
1.2.3	Cluster development	51
1.2.4	R&D expenditure30.01	24
1.2.5	ICT infrastructure	28
1.2.6	Urbanisation	67
1.3	Business and Labour Landscape	36
1.3.1	Labour rights	26
1.3.2	Labour-employer cooperation	55
	Management Practice	33
1.3.3	Professional management	63
1.3.4	Relationship of pay to productivity	82
1.3.5	Enterprise software	54
1.3.6	Cloud computing	21
1.3.7	Firms with website	50
2	ATTRACT	16
2.1	External Openness	21
2.1.1	FDI regulatory restrictiveness	2
2.1.2	Financial globalisation	27
2.1.2	Attract People	27
2.1.3	Migrant stock54.49	47
2.1.4	International students	23
2.1.5	Brain gain53.53	47
2.2	Internal Openness	13
2.2.1	Tolerance of minorities	4
2.2.2	Tolerance of immigrants92.31	8
2.2.3	Social mobility	62
2.2.4	Gender Equality Economic empowerment of women	1
2.2.4	Gender parity in high-skilled jobs	17
2.2.5	Leadership opportunities for women	46
2.2.6	Leadership opportunities for women	4

GTCI	score	61.
GTCI	score (income group average)	61.
	Score	Ra
<u> </u>	GROW	
i.1	Formal Education. 49.75	
1.1	Fnrolment 49.73	
.1.1	Vocational enrolment	
3.1.2	Tertiary enrolment	
, <u>.</u>	Quality	
3.1.3	Tertiary education expenditure	
3.1.4	Reading, maths, and science	
3.1.5	University ranking	
3.2	Lifelong Learning50.22	
3.2.1	Business masters education	
3.2.2	Prevalence of training in firms	
3.2.3	Employee development59.78	
3.3	Access to Growth Opportunities	
	Empowerment	
3.3.1	Delegation of authority	
3.3.2	Youth inclusion89.08	
	Collaboration	
3.3.3	Use of virtual social networks	
3.3.4	Use of virtual professional networks	
Ļ	RETAIN 80.86	
1.1	Sustainability	
1.1.1	Pension coverage90.30	
1.1.2	Social protection	
1.1.3	Brain retention	
1.1.4	Environmental performance	
1.1.5	Vulnerable employment	
1.2	Lifestyle	
1.2.1	Personal rights95.32	
1.2.2	Personal safety87.92	
4.2.3	Physician density	
1.2.4	Sanitation	
	V061=10111 1112 == 611111611 611116	
5	VOCATIONAL AND TECHNICAL SKILLS55.98	
5.1	Mid-Level Skills	
5.1.1	Workforce with secondary education	
5.1.3	Population with secondary education	
5.1.4	Labour productivity per employee	
5.2	Employability71.77	
5.2.1	Ease of finding skilled employees	
5.2.2	Relevance of education system to the economy	
5.2.3	Skills matching	
5.2.4	Highly educated unemployment	
,	GLOBAL KNOWLEDGE SKILLS45.41	
5.1	High-Level Skills	
5.1.1	Workforce with tertiary education41.61	
5.1.2	Population with tertiary education28.93	
5.1.3	Professionals55.03	
5.1.4	Researchers	
5.1.5	Senior officials and managers	
5.1.6	Digital skills	
5.2	Talent Impact	
5.2.1	Innovation output	
5.2.2	High-value exports11.15	
5.2.3	Software development	
5.2.4	New business density	
5.2.5		

# **QATAR**

Rank (out of 134)	35
Income group	High income
Regional group	.Northern Africa and Western Asia
Population (millions)	

GTCI 2023 Country Profile by Pillar

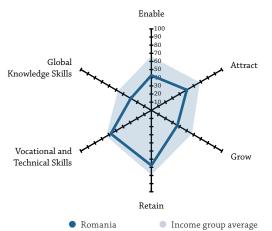


	Score	Rank
1	ENABLE 60.45	28
1.1	Regulatory Landscape69.47	29
1.1.1	Government effectiveness	27
1.1.2	Rule of law	29
1.1.3	Political stability	14
1.1.4	Regulatory quality64.51	33
1.1.5	Corruption56.16	33
1.2	Market Landscape	21
1.2.1	Extent of market dominance	25
1.2.2	Domestic credit to private sector	23
1.2.3	Cluster development	16
1.2.4	R&D expenditure12.55	51
1.2.5	ICT infrastructure	20
1.2.6	Urbanisation99.01	3
1.3	Business and Labour Landscape	65
1.3.1	Labour rightsn/a	n/a
1.3.2	Labour-employer cooperation	34
1.3.3	Professional management65.52	35
1.3.4	Relationship of pay to productivity	7
1.3.5	Enterprise software	118
1.3.6	Cloud computing6.65	119
1.3.7	Firms with website	n/a
2	ATTRACT69.82	23
2.1	External Openness	3
2.1.1	Attract Business	- /-
2.1.1	FDI regulatory restrictiveness         .n/a           Financial globalisation         .85.90           Attract People	n/a 17
2.1.3	Migrant stock	2
2.1.3	International students. 90.92	1
2.1.4	Brain gain	8
2.1.3 2.2	9	97
	Internal Openness 47.85 Social Inclusion	
2.2.1	Tolerance of minorities	26
2.2.2	Tolerance of immigrants83.08	21
2.2.3	Social mobility	31
2.2.4	Economic empowerment of women	134
2.2.5	Gender parity in high-skilled jobs	128
2.2.6	Leadership opportunities for women	28

	(US\$ billions)	
	score (income group average)	
	Score	Rar
<u> </u>	GROW	3
B.1	Formal Education	8
3.1.1	Enrolment Vocational enrolment	1
3.1.2	Tertiary enrolment	٥
3.1.3	Quality Tertiary education expenditure	n,
3.1.4	Reading, maths, and science	
3.1.5	University ranking	3
3.2	Lifelong Learning54.74	2
3.2.1	Business masters education	3
3.2.2	Prevalence of training in firms	n,
3.2.3	Employee development	
3.3	Access to Growth Opportunities	
3.3.1	Delegation of authority	2
3.3.2	Youth inclusionn/a	n,
	Collaboration	
3.3.3	Use of virtual social networks	
3.3.4	Use of virtual professional networks	
4	RETAIN55.21	7
4.1	Sustainability	6
4.1.1	Pension coverage	10
4.1.2	Social protection	-
4.1.3	Brain retention	10
4.1.4 4.1.5	Environmental performance	10
4.2	Lifestyle	8
4.2.1	Personal rights	1.
4.2.2	Personal safety	
4.2.3	Physician density39.15	6
4.2.4	Sanitation	
5	VOCATIONAL AND TECHNICAL SKILLS65.31	
5.1	Mid-Level Skills	5
5.1.1	Workforce with secondary education	10
5.1.2	Population with secondary education	n,
5.1.3	Technicians and associate professionals	
5.1.4	Labour productivity per employee	
5.2	Employability85.76	
5.2.1	Ease of finding skilled employees	
5.2.2 5.2.3	Relevance of education system to the economy	n,
5.2.4	Highly educated unemployment	n,
5	GLOBAL KNOWLEDGE SKILLS	6
5.1	High-Level Skills	-
6.1.1	Workforce with tertiary education	
5.1.2	Population with tertiary educationn/a	n,
5.1.3	Professionals	6
5.1.4	Researchers	
5.1.5	Senior officials and managers	3
5.1.6	Digital skills	3
5.2 5.2.1	Talent Impact	-
5.2.1	High-value exports. 2.92	10
5.2.3	Software development	(
5.2.4	New business density	2
	Scientific journal articles	3
6.2.5		

### **ROMANIA**

Rank (out of 134). 54
Income group High income
Regional groupEurope
Population (millions)
GTCI 2023 Country Profile by Pillar
Fnable



	Score	Rank
1	ENABLE 42.87	69
1.1	Regulatory Landscape	50
1.1.1	Government effectiveness	78
1.1.2	Rule of law	45
1.1.3	Political stability	43
1.1.4	Regulatory quality50.12	54
1.1.5	Corruption	51
1.2	Market Landscape	82
1.2.1	Extent of market dominance	64
1.2.2	Domestic credit to private sector	104
1.2.3	Cluster development	76
1.2.4	R&D expenditure8.52	61
1.2.5	ICT infrastructure	56
1.2.6	Urbanisation	91
1.3	Business and Labour Landscape	97
	Labour Market	
1.3.1	Labour rights	73
1.3.2	Labour-employer cooperation	99
1.5.2	Management Practice	,,,
1.3.3	Professional management	95
1.3.4	Relationship of pay to productivity	97
1.5.4	Technology Adoption	97
1.3.5	Enterprise software9.58	114
1.3.6	Cloud computing	95
1.3.7	Firms with website	63
2	ATTRACT 50.20	66
2.1	External Openness	73
2.1	Attract Business	, ,
2.1.1	FDI regulatory restrictiveness	5
2.1.1	Financial globalisation	89
2.1.2	Attract People	0,5
2.1.3	Migrant stock	94
2.1.4	International students21.77	43
2.1.5	Brain gain	122
2.2	Internal Openness	57
	Social Inclusion	
2.2.1	Tolerance of minorities	67
2.2.2	Tolerance of immigrants	109
2.2.3	Social mobility	55
2.2.4	Economic empowerment of women	38
2.2.4	'	56
2.2.5	Gender parity in high-skilled jobs	42
2.2.0	Leadership opportunities for women	42

	score (income group average)	
	Score	Rank
3	GROW	67
3.1	Formal Education	49
	Enrolment	
3.1.1	Vocational enrolment	24
3.1.2	Tertiary enrolment	65
	Quality	
3.1.3	Tertiary education expenditure	31
3.1.4	Reading, maths, and science	48 72
3.1.5 3.2	University ranking	113
3.2.1	Business masters education	57
3.2.2	Prevalence of training in firms	80
3.2.3	Employee development	79
3.3	Access to Growth Opportunities	67
	Empowerment	
3.3.1	Delegation of authority	86
3.3.2	Youth inclusion63.65	67
	Collaboration	
3.3.3 3.3.4	Use of virtual social networks	65 56
5.5.4	ose of virtual professional networks	50
	RETAIN	43
1.1	Sustainability	52
4.1.1	Pension coverage	50
1.1.2	Social protection	49
1.1.3	Brain retention	13
1.1.4	Environmental performance	29
4.1.5	Vulnerable employment	49
4.2	Lifestyle	47
4.2.1 4.2.2	Personal rights         82.96           Personal safety         81.84	48 3!
4.2.3	Physician density	49
4.2.4	Sanitation	82
5	VOCATIONAL AND TECHNICAL SKILLS	45
5.1	Mid-Level Skills	29
5.1.1	Workforce with secondary education	12
5.1.2	Population with secondary education	13
5.1.3	Technicians and associate professionals28.48	69
5.1.4	Labour productivity per employee	4.
5.2	Employability	69
5.2.1	Ease of finding skilled employees	123
5.2.3	Relevance of education system to the economy	96
5.2.4	Highly educated unemployment	3.5
5	GLOBAL KNOWLEDGE SKILLS29.18	56
<b>5</b> .1	High-Level Skills	8
5.1.1	Workforce with tertiary education	6
5.1.2	Population with tertiary education	6
.1.3	Professionals	3
5.1.4	Researchers	5
5.1.5	Senior officials and managers	7.
5.1.6	Digital skills	6
5.2.1	Talent Impact	4.
5.2.2	Innovation output	4.
5.2.3	Software development	4.
5.2.4	New business density	2
5.2.5	Scientific journal articles	4

### **RUSSIAN FEDERATION**

	(out of 134) ne group		com c		(US\$ billions)		84.6
	0 1						
	onal group				score		
opu	lation (millions)	14	13.56	GTCI	score (income group average)		43.5
GT	CI 2023 Country Profile by Pillar					Score	Rar
				3	GROW		3
	Enable			3.1	Formal Education.		
	<b>T</b> 100			5.1	Enrolment	50.52	
	190			3.1.1	Vocational enrolment	22 27	
	70			3.1.2	Tertiary enrolment		
	Global †60 50	Attract			Quality		
Kno	owledge Skills			3.1.3	Tertiary education expenditure	63.43	
	130 20			3.1.4	Reading, maths, and science	60.11	
	10			3.1.5	University ranking	48.94	
	/ <b>X</b>			3.2	Lifelong Learning	34.08	
				3.2.1	Business masters education		
		<b>^</b>		3.2.2	Prevalence of training in firms		
V	ocational and	<b>*</b>		3.2.3	Employee development		
Те	echnical Skills	Grow		3.3	Access to Growth Opportunities	65.59	
	Ŧ			2 2 1	Empowerment  Paleonting of authority	E0.74	
	İ			3.3.1	Delegation of authority		
	D			3.3.2	Youth inclusion	//.50	
	Retain			3.3.3	Use of virtual social networks	68.68	
	<ul><li>Russian Federation</li><li>Incon</li></ul>	ne group average		3.3.4	Use of virtual professional networks		
_		Score	Rank	4	RETAIN	62.75	
	ENABLE		78	4.1	Sustainability		
	Regulatory Landscape		107	4.1.1	Pension coverage		
	Government effectiveness		82	4.1.2	Social protection		
	Rule of law		115	4.1.3	Brain retention		
	Political stability		102 100	4.1.4	Environmental performance	31.53	
	Corruption		111	4.1.5	Vulnerable employment	94.30	
	Market Landscape		43	4.2	Lifestyle	59.06	
	Extent of market dominance		69	4.2.1	Personal rights		
	Domestic credit to private sector		58	4.2.2	Personal safety		
	Cluster development		60	4.2.3	Physician density		
	R&D expenditure	20.27	38	4.2.4	Sanitation	88.35	
	ICT infrastructure		10				
•	Urbanisation		46	5	VOCATIONAL AND TECHNICAL SKILLS	.57.66	
	Business and Labour Landscape	37.44	96	5.1	Mid-Level Skills	48.91	
	Labour Market	,	,	5.1.1	Workforce with secondary education		
	Labour rights		n/a	5.1.2	Population with secondary education		
	Labour-employer cooperation	39.80	81	5.1.3	Technicians and associate professionals		
	Management Practice Professional management	40.00	84	5.1.4	Labour productivity per employee		
}	Relationship of pay to productivity		38	5.2	Employability		
	Technology Adoption		50	5.2.1	Ease of finding skilled employees		
	Enterprise software	10.13	113	5.2.2 5.2.3	Skills matching		
5	Cloud computing		85	5.2.3	Highly educated unemployment		
	Firms with website		54		5 7 F 7 F 7 F 7 F 7 F 7 F 7 F 7 F 7 F 7		
				6	GLOBAL KNOWLEDGE SKILLS	25 71	_
	ATTRACT	46.43	84	<b>6</b> .1	High-Level Skills		
	External Openness		83	6.1.1	Workforce with tertiary education		
	Attract Business			6.1.2	Population with tertiary education		
	FDI regulatory restrictiveness	30.27	75	6.1.3	Professionals		
	Financial globalisation	56.94	78	6.1.4	Researchers	31.15	
	Attract People			6.1.5	Senior officials and managers		
	Migrant stock		48	6.1.6	Digital skills		
	International students		49	6.2	Talent Impact		
	Brain gain		78 76	6.2.1	Innovation output		
	Internal Openness	53.04	76	6.2.2 6.2.3	High-value exports		
	Tolerance of minorities	17.02	110	6.2.4	Software development		
)	Tolerance of immigrants		39	6.2.5	Scientific journal articles		
3	Social mobility		66	0.2.3	22.2. Gree journal and electrical an		
	Gender Equality						
	Economic empowerment of women	61.95	106				
	Gender parity in high-skilled jobs		92				
	Leadership opportunities for women		33				

#### **RWANDA**

Key Indicators

Rank (out of 134)		110
Income group		Low income
Regional group		Sub-Saharan Africa
Population (millions) $\dots$		13.78
GTCI 2023 Country Profile by	Pillar	
	Enable	
Global Knowledge Skille	100 90 80 70 60	Attract

Vocational and Grow Technical Skills Retain Rwanda Income group average

Score Rank

1	ENABLE39.02	84
1.1	Regulatory Landscape51.23	53
1.1.1	Government effectiveness	54
1.1.2	Rule of law	55
1.1.3	Political stability	53
1.1.4	Regulatory quality	69
1.1.5	Corruption	43
1.2	Market Landscape	119
1.2.1	Extent of market dominance	75
1.2.2	Domestic credit to private sector	107
1.2.3	Cluster development	72
1.2.4	R&D expenditure	47
1.2.5	ICT infrastructure	116
1.2.6	Urbanisation	132
1.3	Business and Labour Landscape. 39.49	85
1.5	Labour Market	05
1.3.1	Labour rights	n/a
1.3.1	9	49
1.5.2	Labour-employer cooperation	49
400	Management Practice	
1.3.3	Professional management	29
1.3.4	Relationship of pay to productivity55.23	62
	Technology Adoption	
1.3.5	Enterprise software	102
1.3.6	Cloud computing8.47	109
1.3.7	Firms with website	77
2		
2.1	ATTRACT 45.66	87
	<b>ATTRACT. 45.66</b> External Openness 3713	
2.1	External Openness	<b>87</b>
	External Openness	88
2.1.1	External Openness	88 n/a
	External Openness	88
2.1.1 2.1.2	External Openness	88 n/a 119
2.1.1 2.1.2 2.1.3	External Openness	88 n/a 119
2.1.1 2.1.2 2.1.3 2.1.4	External Openness	88 n/a 119 71 55
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5	External Openness         .37.13           Attract Business         FDI regulatory restrictiveness         .n/a           Financial globalisation         .29.58           Attract People         Migrant stock         .39.01           International students         .15.16           Brain gain         .64.79	88 n/a 119 71 55 26
2.1.1 2.1.2 2.1.3 2.1.4	External Openness	88 n/a 119 71 55
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5	External Openness         .37.13           Attract Business         .n/a           FDI regulatory restrictiveness         .n/a           Financial globalisation         .29.58           Attract People         Migrant stock         .39.01           International students         .15.16           Brain gain         .64.79           Internal Openness         .54.18	88 n/a 119 71 55 26
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2	External Openness         .37.13           Attract Business         .n/a           FDI regulatory restrictiveness         .n/a           Financial globalisation         .29.58           Attract People         Migrant stock           International students         .15.16           Brain gain         .64.79           Internal Openness         .54.18           Social Inclusion	88 n/a 119 71 55 26 73
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2	External Openness         .37.13           Attract Business         .n/a           FDI regulatory restrictiveness         .n/a           Financial globalisation         .29.58           Attract People         .39.01           International students         .15.16           Brain gain         .64.79           Internal Openness         .54.18           Social Inclusion           Tolerance of minorities         .4.26	88 n/a 119 71 55 26 73
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2	External Openness         .37.13           Attract Business         FDI regulatory restrictiveness         .n/a           Financial globalisation         .29.58           Attract People         .39.01           Migrant stock         .39.01           International students         .15.16           Brain gain         .64.79           Internal Openness         .54.18           Social Inclusion         Tolerance of minorities         .4.26           Tolerance of immigrants         .41.54           Social mobility         .58.79	88 n/a 119 71 55 26 73 128 98
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.2	External Openness         .37.13           Attract Business         FDI regulatory restrictiveness         .n/a           Financial globalisation         .29.58           Attract People         Migrant stock         .39.01           International students         .15.16           Brain gain         .64.79           Internal Openness         .54.18           Social Inclusion         .01.00           Tolerance of minorities         .4.26           Tolerance of immigrants         .41.54           Social mobility         .58.79           Gender Equality	88 n/a 119 71 55 26 73 128 98 41
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3 2.2.4	External Openness         .37.13           Attract Business         FDI regulatory restrictiveness         .n/a           Financial globalisation         .29.58           Attract People         Migrant stock         .39.01           International students         .15.16           Brain gain         .64.79           Internal Openness         .54.18           Social Inclusion         .426           Tolerance of immigrants         .41.54           Social mobility         .58.79           Gender Equality         Economic empowerment of women         .76.99	88 n/a 119 71 55 26 73 128 98 41
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3	External Openness         .37.13           Attract Business         FDI regulatory restrictiveness         .n/a           Financial globalisation         .29.58           Attract People         Migrant stock         .39.01           International students         .15.16           Brain gain         .64.79           Internal Openness         .54.18           Social Inclusion         .01.00           Tolerance of minorities         .4.26           Tolerance of immigrants         .41.54           Social mobility         .58.79           Gender Equality	88 n/a 119 71 55 26 73 128 98 41

	score (income group average)	
	Score	Ran
3	GROW23.11	11
3.1	Formal Education	10
	Enrolment	
3.1.1	Vocational enrolment	6
3.1.2	Tertiary enrolment	11
	Quality	
3.1.3	Tertiary education expenditure	8
3.1.4 3.1.5	Reading, maths, and science	n/ 7
3.2	Lifelong Learning	8
3.2.1	Business masters education	5
3.2.2	Prevalence of training in firms	4
3.2.3	Employee development	8
3.3	Access to Growth Opportunities	12
	Empowerment	
3.3.1	Delegation of authority	6
3.3.2	Youth inclusion	10
3.3.3	Use of virtual social networks	12
3.3.4	Use of virtual professional networks	11
	RETAIN	11
1.1	Sustainability	10
1.1.1	Pension coverage	12
1.1.2	Social protection	10
1.1.3	Brain retention	10
1.1.4 1.1.5	Environmental performance	10 11
1.7	Lifestyle	12
1.2.1	Personal rights	11
1.2.2	Personal safety11.16	13
4.2.3	Physician density1.07	12
1.2.4	Sanitation	10
5	VOCATIONAL AND TECHNICAL SKILLS 24.96	12
5.1	Mid-Level Skills	12
5.1.1	Workforce with secondary education	11
5.1.2	Population with secondary education6.25	8
5.1.3	Technicians and associate professionals	12
5.1.4	Labour productivity per employee	10
5.2.1	Employability	11
5.2.2	Relevance of education system to the economy	6
5.2.3	Skills matching	5
5.2.4	Highly educated unemployment	11
<u> </u>	GLOBAL KNOWLEDGE SKILLS	11
5.1	High-Level Skills	12
5.1.1	Workforce with tertiary education8.35	10
5.1.2	Population with tertiary education	8
5.1.3	Professionals	11
5.1.4	Researchers	9
5.1.5	Senior officials and managers	11 n
5.1.6 5.2	Digital skills	n, 10
5.2.1	Talent Impact	11
5.2.2	High-value exports. 9.05	7
.2.3	Software development	10
5.2.4	New business density	5
5.2.5	Scientific journal articles	11

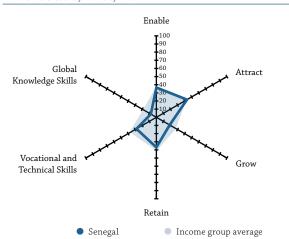
#### **SAUDI ARABIA**

	(out of 134)		FO		per capita (PPP US\$)	
ıcon	ne group	High in	come		(US\$ billions)	
_	onal group				score	
opul	lation (millions)		86.41	GTCI	score (income group average)	61.9
GTO	CI 2023 Country Profile by Pillar				Score	e Rai
				3	GROW41.65	5 5
	Enable			3.1	Formal Education	
	${f I}_{90}^{100}$				Enrolment	
	<b>1</b> 80			3.1.1	Vocational enrolment	
	70 Global			3.1.2	Tertiary enrolment	3
Kno	vylodgo Chillo	Attract		212	Quality	
	30	~		3.1.3 3.1.4	Tertiary education expenditure	
	120			3.1.5	University ranking	
	/ <b>*</b> /			3.2	Lifelong Learning	
				3.2.1	Business masters education	
		_		3.2.2	Prevalence of training in firms	
Vo	ocational and	Grow		3.2.3	Employee development	
Te	chnical Skills	Grow		3.3	Access to Growth Opportunities	9
	Ŧ			3.3.1	Empowerment Delegation of authority	5
	İ			3.3.2	Youth inclusion	
	Retain			3.3.2	Collaboration	-
				3.3.3	Use of virtual social networks	1
	<ul> <li>Saudi Arabia</li> <li>Income</li> </ul>	group average		3.3.4	Use of virtual professional networks	7
		Score	Rank			
	ENABLE	51.40	48	4	RETAIN53.41	ı
	Regulatory Landscape		<b>46</b> 54	4.1	Sustainability	9
	Government effectiveness		45	4.1.1	Pension coverage32.53	
	Rule of law		53	4.1.2	Social protection	
;	Political stability	45.99	97	4.1.3 4.1.4	Brain retention	
ļ	Regulatory quality		52	4.1.4	Vulnerable employment	
5	Corruption		43	4.2	Lifestyle	
1	Market Landscape		25 7	4.2.1	Personal rights	
1 2	Extent of market dominance  Domestic credit to private sector		64	4.2.2	Personal safety	4
3	Cluster development		8	4.2.3	Physician density43.78	
4	R&D expenditure		62	4.2.4	Sanitation	)
5	ICT infrastructure		31			
6	Urbanisation		25	5	VOCATIONAL AND TECHNICAL SKILLS 65.36	5
	Business and Labour Landscape	40.89	80	5.1	Mid-Level Skills	1
1	Labour Market	n/a	n/a	5.1.1	Workforce with secondary education	
.1	Labour rights Labour-employer cooperation		n/a 42	5.1.2	Population with secondary education	
_	Management Practice		42	5.1.3 5.1.4	Technicians and associate professionals	
3	Professional management	63.86	37	5.1.4	Labour productivity per employee	
4	Relationship of pay to productivity		5	5.2.1	Ease of finding skilled employees	
	Technology Adoption			5.2.2	Relevance of education system to the economy81.89	
5	Enterprise software		120	5.2.3	Skills matching	a
6 7	Cloud computing Firms with website		97 95	5.2.4	Highly educated unemployment56.07	7
				6	GLOBAL KNOWLEDGE SKILLS	3
	ATTRACT	58.42	39	6.1	High-Level Skills	
	External Openness	59.21	32	6.1.1	Workforce with tertiary education	
,	Attract Business	44.05	70	6.1.2	Population with tertiary education	
1 2	FDI regulatory restrictiveness		70 58	6.1.3 6.1.4	Professionals	
-	Attract People		50	6.1.5	Senior officials and managers	
3	Migrant stock	86.05	8	6.1.6	Digital skills	
1	International students		56	6.2	Talent Impact	
5	Brain gain		6	6.2.1	Innovation output	3
	Internal Openness	57.63	59	6.2.2	High-value exports	
1	Social Inclusion		120	6.2.3	Software development	
1 2	Tolerance of minorities  Tolerance of immigrants		128 26	6.2.4 6.2.5	New business density	
2 3	Social mobility		26 17	U.Z.J	Selentine journal articles	,
_	Gender Equality		17			
4	Economic empowerment of women	59.29	108			
т .						

### **SENEGAL**

Rank (out of 134)	<b>112</b>
Income group	Lower-middle income
Regional group	Sub-Saharan Africa
Population (millions)	17.32

GTCI 2023 Country Profile by Pillar



	Score	Rank
1	ENABLE 36.55	94
1.1	Regulatory Landscape	74
1.1.1	Government effectiveness	64
1.1.2	Rule of law	85
1.1.3	Political stability56.76	72
1.1.4	Regulatory quality34.00	87
1.1.5	Corruption	58
1.2	Market Landscape	108
1.2.1	Extent of market dominance	85
1.2.2	Domestic credit to private sector	90
1.2.3	Cluster development	108
1.2.4	R&D expenditure10.61	55
1.2.5	ICT infrastructure	101
1.2.6	Urbanisation	103
1.3	Business and Labour Landscape	99
	Labour Market	
1.3.1	Labour rights	62
1.3.1	Labour-employer cooperation	94
1.3.2		94
1 2 2	Management Practice	100
1.3.3	Professional management	102
1.3.4	Relationship of pay to productivity	104
1.3.5	Enterprise software	67
1.3.6	Cloud computing	82
1.3.7	Firms with website	92
2	ATTRACT	93
2.1	External Openness	76
2.1	Attract Business	, 0
2.1.1	FDI regulatory restrictiveness	n/a
2.1.1	Financial globalisation	75
2.1.2	Attract People	/3
2.1.3	Migrant stock	97
2.1.4	International students	41
2.1.5	Brain gain	34
2.2	Internal Openness	109
2.2	Social Inclusion	105
2.2.1	Tolerance of minorities	59
2.2.1	Tolerance of immigrants	37
2.2.2	3	106
۷.۷.۵	Social mobility	100
2.2.4	Economic empowerment of women	107
2.2.5	Gender parity in high-skilled jobs	118
2.2.6	Leadership opportunities for women	106
	255 25 25 25 25 25 25 25 25 25 25 25 25	100

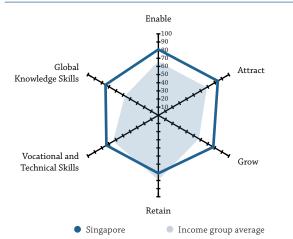
GDP (	(US\$ billions)	27.6
	score	
	score (income group average)	
	Score	Ran
	GROW 18.84	12:
.1	Formal Education	9
1.1	Vocational enrolment	8
1.1	Tertiary enrolment	10
1.2	Ouality	10
1.3	Tertiary education expenditure	5
1.4	Reading, maths, and science	n/
1.5	University ranking	7
2	Lifelong Learning	12
2.1	Business masters education	5
2.2	Prevalence of training in firms	8
2.3	Employee development	10
3	Access to Growth Opportunities	12
	Empowerment	
3.1	Delegation of authority	11
3.2	Youth inclusion	11
	Collaboration	
3.3	Use of virtual social networks	11
3.4	Use of virtual professional networks	ç
	RETAIN 36.87	10
1	Sustainability	11
1.1	Pension coverage	9
1.2	Social protection21.81	11
1.3	Brain retention	8
1.4	Environmental performance	9
1.5	Vulnerable employment	11
2	Lifestyle	9
2.1	Personal rights	6
2.2	Personal safety	8
2.3 2.4	Physician density	12 10
	VOCATIONAL AND TECHNICAL SKILLS 28.25	11
1	Mid-Level Skills	12
1.1	Workforce with secondary education	12
1.2	Population with secondary education	8
1.3	Technicians and associate professionals	12
1.4	Labour productivity per employee5.90	10
2	Employability50.55	8
2.1	Ease of finding skilled employees	1
2.2	Relevance of education system to the economy	9
2.3 2.4	Skills matching	10 9
	, ,	
	GLOBAL KNOWLEDGE SKILLS7.82	12
1	High-Level Skills	12
1.1	Workforce with tertiary education4.57	12
1.2	Population with tertiary education	8
1.3	Professionals	11
1.4	Researchers	10
1.5	Senior officials and managers	12 n
1.6	Digital skills	n,
2 2.1	Talent Impact	11 10
2.1 2.2	Innovation output	10
2.2 2.3	Software development	11
2.3 2.4	New business density	9
	14C44 DUSINGSS UCHSINY	>
2.4	Scientific journal articles	10

#### **SERBIA**

Rank	(out of 134)	5	53	GDP	per capita (PPP US\$)	911.20
	ne group				(US\$ billions)	
	0 1				score	
	onal group					
Popu	lation (millions)		.6.76	GTCI	score (income group average)	43.53
GT	CI 2023 Country Profile by Pillar				Score	e Rank
	p. 11			3	GROW41.25	5 58
	Enable			3.1	Formal Education	41
	${f I}_{90}^{100}$				Enrolment	
	<b>+</b> 80			3.1.1	Vocational enrolment	
	Global To Global	A., .		3.1.2	Tertiary enrolment	41
Kno	owledge Skills	Attract		212	Quality  Testian advertion expenditure  62.45	
	30	And the second		3.1.3 3.1.4	Tertiary education expenditure	
		7		3.1.5	University ranking	
		/		3.2	Lifelong Learning	
				3.2.1	Business masters education	
		<b>**</b> **		3.2.2	Prevalence of training in firms	
17	ocational and	***		3.2.3	Employee development	1 94
	echnical Skills	Grow		3.3	Access to Growth Opportunities50.70	53
10	†				Empowerment	
	+			3.3.1	Delegation of authority	
	•			3.3.2	Youth inclusion	7 54
	Retain			2.2.2	Collaboration	
	<ul> <li>Serbia</li> <li>In</li> </ul>	.come group average		3.3.3 3.3.4	Use of virtual social networks	
				3.3.4	Use of virtual professional networks	5 62
		Score	Rank	4	RETAIN	58
1	ENABLE		62	4.1	Sustainability	
1.1	Regulatory Landscape		69	4.1.1	Pension coverage	
1.1.1	Government effectiveness		65	4.1.2	Social protection	
1.1.2 1.1.3	Rule of law		67 70	4.1.3	Brain retention	
1.1.3	Regulatory quality		70	4.1.4	Environmental performance	7 60
1.1.5	Corruption		81	4.1.5	Vulnerable employment	1 58
1.2	Market Landscape		72	4.2	Lifestyle	
1.2.1	Extent of market dominance		65	4.2.1	Personal rights	
1.2.2	Domestic credit to private sector	41.60	79	4.2.2	Personal safety	
1.2.3	Cluster development		75	4.2.3 4.2.4	Physician density	
1.2.4	R&D expenditure		40	4.2.4	3drittation97.05	40
1.2.5	ICT infrastructure		64			
1.2.6	Urbanisation		85	5	VOCATIONAL AND TECHNICAL SKILLS58.14	
1.3	Business and Labour Landscape	47.22	55	5.1	Mid-Level Skills	
1.3.1	Labour Market Labour rights	81.10	56	5.1.1	Workforce with secondary education	
1.3.1	Labour-employer cooperation		102	5.1.2 5.1.3	Population with secondary education	
	Management Practice		.02	5.1.3	Technicians and associate professionals	
1.3.3	Professional management		85	5.1.4	Employability	
1.3.4	Relationship of pay to productivity		81	5.2.1	Ease of finding skilled employees	
	Technology Adoption			5.2.2	Relevance of education system to the economy	
1.3.5	Enterprise software		83	5.2.3	Skills matching	31
1.3.6	Cloud computing		28 21	5.2.4	Highly educated unemployment	) 91
1.3.7	THITIS WITH WEDSITE	00.41	∠1			
2	ATTRACT	54 79	48	6	GLOBAL KNOWLEDGE SKILLS	
2.1	External Openness		63	6.1 6.1.1	High-Level Skills	
	Attract Business		03	6.1.1	Workforce with tertiary education	
2.1.1	FDI regulatory restrictiveness	87.57	30	6.1.3	Professionals	
2.1.2	Financial globalisation		64	6.1.4	Researchers	
	Attract People			6.1.5	Senior officials and managers	
2.1.3	Migrant stock		43	6.1.6	Digital skills15.42	
2.1.4	International students		52	6.2	Talent Impact	
2.1.5	Brain gain		124	6.2.1	Innovation output	
2.2	Internal Openness	62.02	42	6.2.2	High-value exports	
221	Social Inclusion	20.05	0.4	6.2.3	Software development	
2.2.1 2.2.2	Tolerance of minorities  Tolerance of immigrants		84 51	6.2.4 6.2.5	New business density	
2.2.2	Social mobility		73	0.2.3	Scientific journal articles	. 39
5	Gender Equality		. 5			
2.2.4	Economic empowerment of women	91.15	29			
2.2.5	Gender parity in high-skilled jobs		31			
2.2.6	Leadership opportunities for women	53.09	57			

## **SINGAPORE**

Rank (out of 134)
Income group High income
Regional group Eastern, Southeastern Asia and Oceania
Population (millions)
GTCI 2023 Country Profile by Pillar



	Score	Rank
1	ENABLE	7
1.1	Regulatory Landscape	1
1.1.1	Government effectiveness	1
1.1.2	Rule of law94.68	4
1.1.3	Political stability	1
1.1.4	Regulatory quality	1
1.1.5	Corruption	5
1.2	Market Landscape	8
1.2.1	Extent of market dominance	31
1.2.2	Domestic credit to private sector	14
1.2.3	Cluster development	11
1.2.4	R&D expenditure	19
1.2.5	ICT infrastructure	6
1.2.6	Urbanisation	1
1.3	Business and Labour Landscape	14
1.5	Labour Market	14
1.3.1	Labour rights	- /-
	3	n/a
1.3.2	Labour-employer cooperation	3
	Management Practice	
1.3.3	Professional management	6
1.3.4	Relationship of pay to productivity	13
1.3.5	Enterprise software	50
1.3.6	Cloud computing	9
1.3.7	Firms with website	n/a
2	ATTRACT84.26	
2.1	External Openness	4
2.1	Attract Business	
2.1.1	FDI regulatory restrictiveness	37
2.1.2	Financial globalisation	3
2.1.2	Attract People	5
2.1.3	Migrant stock	7
2.1.4	International students	9
2.1.5	Brain gain	1
2.2	Internal Openness	11
	Social Inclusion	
2.2.1	Tolerance of minorities	16
2.2.2	Tolerance of immigrants	16
2.2.3	Social mobility	6
2.2.4	Economic empowerment of women	69
2.2.5	Gender parity in high-skilled jobs	52
2.2.6	Leadership opportunities for women	7

3         GROW.         77.8           3.1         Formal Education.         .77.8           5.1.1         Vocational enrolment            3.1.2         Tertiary enrolment            3.1.2         Tertiary enrolment            3.1.3         Tertiary education expenditure            3.1.3         Tertiary education expenditure            3.1.2         University ranking.            3.1.2         Business masters education            3.2.1         Business masters education            3.2.2         Prevalence of training in firms            3.2.3         Employee development            3.3         Access to Growth Opportunities            Employee development             3.3.1         Delegation of authority             3.3.2         Youth inclusion             3.3.3         Use of virtual social networks             3.3.1         Delegation of authority             3.3.2         Use of virtual social networks <th></th> <th>\$ billions)</th> <th></th>		\$ billions)	
Scot   Scot			
GROW	16 (1		
Formal Education.   773		Score	Rar
Enrolment  1.1.1.1.2. Vocational enrolment			
3.1.1       Vocational enrolment      n.         3.1.2       Tertiary enrolment			
3.1.2       Tertiary enrolment       .61         Quality       .87         3.1.3       Tertiary education expenditure       .87         3.1.4       Reading, maths, and science       .90         3.1.5       University ranking       .68         3.2.1       Business masters education       .69         3.2.2       Prevalence of training in firms       .n         3.2.3       Employee development       .83         3.3       Access to Growth Opportunities       .79         Empowerment       .83         3.3.1       Delegation of authority       .66         3.3.2       Youth inclusion       .92         Collaboration       .92         Collaboration       .92         Lose of virtual social networks       .79         3.3.4       Use of virtual professional networks       .80         4.1       Sustainability       .68         4.1.1       Persoin coverage       .32         4.1.2       Social protection       .77         4.1.3       Brain retention       .89         4.2.1       Personal rights       .56         4.2.1       Personal rights       .56			
Quality         8.1.3         Tertiary education expenditure         8.7.           3.1.4         Reading, maths, and science         .90.           3.1.5         University tanking         .68.           3.2.1         Business masters education         .69.           3.2.1         Business masters education         .69.           3.2.2         Prevalence of training in firms         .n           3.3.3         Access to Growth Opportunities         .79.           Empowerment         .66.           3.3.1         Delegation of authority         .66.           3.3.2         Youth inclusion         .92.           Collaboration         .92.           3.3.3         Use of virtual social networks         .79.           3.3.4         Use of virtual professional networks         .80.           4         RETAIN         .71.1           4.1         Sustainability         .68.           4.1.1         Pension coverage         .32.           4.1.2         Social protection         .77.           4.1.3         Brain retention         .89.           4.1.4         Environmental performance         .54.           4.2.1         Personal rights         .56.			n,
3.1.3       Tertiary education expenditure       .87.         3.1.4       Reading, maths, and science       .90.         3.1.5       University ranking       .68.         3.2       Lifelong Learning       .76.         3.2.1       Business masters education       .69.         3.2.2       Prevalence of training in firms       .n         3.2.3       Employee development       .83.         3.3.1       Delegation of authority       .66.         3.3.2       Youth inclusion       .92.         Collaboration       .92.       .92.         3.3.3       Use of virtual social networks       .79.         3.3.4       Use of virtual professional networks       .79.         3.3.4       Use of virtual professional networks       .80.         4       RETAIN.       .71.         4.1       Sustainability       .68.         4.1.1       Pension coverage       .32.         4.1.2       Social protection       .77.         4.1.3       Brain retention       .89.         4.1.4       Environmental performance       .54.         4.1.5       Vulnerable employment       .90.         4.2.1       Personal rights       .56. <td></td> <td>,</td> <td></td>		,	
8.1.4         Reading, maths, and science         .90.           3.1.5         University ranking         .68.           3.2.1         Business masters education         .69.           3.2.2         Prevalence of training in firms         .n           3.2.3         Employee development         .83.           3.3.3         Access to Growth Opportunities         .79.           Empowerment         .66.           3.3.1         Delegation of authority         .66.           3.3.2         Youth inclusion         .92.           Collaboration         .92.	-	,	
1.15   University ranking			
3.2. Lifelong Learning   76.65     3.2.1   Business masters education   69.52     3.2.2   Prevalence of training in firms         3.2.3   Employee development   8.3.5     3.2.3   Access to Growth Opportunities   79.6     Empowerment   8.3.1   Delegation of authority       66.5   Sa.3.2   Youth inclusion       Collaboration         Collaboration         3.3.3   Use of virtual social networks         3.3.4   Use of virtual professional networks         3.3.4   Use of virtual professional networks         4   RETAIN           4.1   Sustainability         4.1.1   Pension coverage           4.1.2   Social protection         4.1.3   Brain retention           4.1.4   Environmental performance         4.1.5   Vulnerable employment           4.2   Lifestyle           4.2.1   Personal rights           4.2.2   Personal safety           4.2.3   Physician density           5.4   Workforce with secondary education         5.1   Mid-Level Skills         5.2   Employability         5.2   Ease of finding skilled employees         5.2   Relevance of education system to the economy         5.2   Ease of finding skilled employees         5.2   Relevance of education system to the economy         5.2   Ease of finding skilled employees         5.2   Relevance of education system to the economy         5.2   Relevance of education system to the economy         5.2   Relevance of education system to the economy         5.2   Relevance of education system to the economy         5.2   Relevance of education system to the economy         5.2   Relevance of education system to the economy         5.3   High-Level Skills         5.4   Highly educated unemployment           5.5   GLOBAL KNOWLEDGE SKILLS           5.1   Popu			
3.2.1       Business masters education.       .69.         3.2.2       Prevalence of training in firms.       n.         3.2.3       Employee development       .83.         3.3.1       Access to Growth Opportunities       .79.         Empowerment       .66.         3.3.1       Delegation of authority       .66.         3.3.2       Youth inclusion       .92.         Collaboration       .70.         3.3.3       Use of virtual social networks       .79.         3.3.4       Use of virtual professional networks       .80.         4       RETAIN       .71.         4.1       Sustainability       .68.         4.1.1       Pension coverage       .32.         4.1.2       Social protection       .77.         4.1.3       Brain retention       .89.         4.1.4       Environmental performance       .54.         4.2.1       Personal rights       .56.         4.2.2       Personal rights       .56.         4.2.1       Personal rights       .56.         4.2.2       Personal rights       .56.         5.1       Mid-Level Skills       .38.         5.1.1       Workforce with secondary education		, 3	
3.2.2         Prevalence of training in firms.        n.           3.2.3         Employee development        83.           3.3         Access to Growth Opportunities        79.           Empowerment        66.           3.3.1         Delegation of authority        66.           3.3.2         Youth inclusion        92.           Collaboration			
3.2.3       Employee development       83.3         3.3       Access to Growth Opportunities       79.8         Empowerment       66.         3.3.1       Delegation of authority       66.         3.3.2       Youth inclusion       92.5         Collaboration       79.         3.3.4       Use of virtual social networks       79.         3.3.4       Use of virtual professional networks       80.         3.3.4       Use of virtual professional networks       80.         3.3.4       Use of virtual professional networks       80.         3.3.4       Use of virtual professional networks       80.         3.3.4       Use of virtual professional networks       80.         3.3.4       Use of virtual professional networks       80.         3.3.4       Use of virtual professional networks       80.         3.3.1       Use of virtual professional networks       80.         3.3.1       Use of virtual professional networks       80.         3.3.2       Your and professional networks       80.         3.3.2       Your and professional networks       80.         3.4       Environmental performance       52.         4.1.2       Personal reservation       73. <t< td=""><td></td><td></td><td>n.</td></t<>			n.
### Access to Growth Opportunities			
Empowerment  3.3.1 Delegation of authority			
8.3.1       Delegation of authority       .66.6.         8.3.2       Youth inclusion       .92.6         8.3.3       Use of virtual social networks       .79.         8.3.4       Use of virtual professional networks       .80.6         8.3.4       Use of virtual professional networks       .80.6         8.3.4       Use of virtual professional networks       .80.6         8.3.4       Use of virtual professional networks       .80.6         8.3.4       Use of virtual professional networks       .80.6         8.3.4       Use of virtual professional networks       .80.6         8.1       Pension coverage       .32.7         8.1.1       Pension coverage       .32.7         8.1.2       Social protection       .77.7         8.1.3       Brain retention       .89.         8.1.4       Environmental performance       .54.4         8.1.5       Vulnerable employment       .90.1         8.1.2       Dersonal rights       .56.1         8.2.1       Personal rights       .56.1         8.2.2       Personal rights       .56.1         8.2.1       Personal rights       .56.1         8.2.2       Physician density       .38.1         8.3.1 </td <td></td> <td></td> <td></td>			
VOCATIONAL AND TECHNICAL SKILLS   73.6			
Collaboration   Use of virtual social networks   79.3.3.4   Use of virtual professional networks   80.3.3.4   Use of virtual professional networks   80.3.3.4   Use of virtual professional networks   80.3.3.4   Use of virtual professional networks   80.3.3.4   Use of virtual professional networks   80.3.4   Use of virtual professional networks   80.3.4   Use of virtual professional networks   80.3.4   Use of virtual professional networks   80.3.4   Use of virtual professional networks   80.3.4   Use of virtual professional networks   80.3.4   Use of virtual professional networks   80.3.4   Use of virtual professional networks   80.3.4   Use of virtual professional networks   80.3.4   Use of virtual professional networks   80.3.4   Use of virtual professional networks   80.3.4   Use of virtual professional networks   80.3.4   Use of virtual professional networks   80.3.4   Use of virtual professional networks   80.3.4   Use of virtual professional networks   80.3.4   Use of virtual professional networks   80.3.4   Use of virtual professional networks   80.3.5   Use of virtual professional networks   80.3.5   Use of virtual professional networks   80.3.5   Use of virtual professional networks   80.3.5   Use of virtual professional networks   80.3.5   Use of virtual professional networks   80.3.5   Use of virtual professional networks   80.3.5   Use of virtual professional networks   80.3.5   Use of virtual professional networks   80.3.5   Use of virtual professional networks   80.3.5   Use of virtual professional networks   80.3.5   Use of virtual professional networks   80.3.5   Use of virtual professional networks   Use of virtual professional networks   Use of virtual professional networks   Use of virtual professional networks   Use of virtual professional networks   Use of virtual professional networks   Use of virtual professional networks   Use of virtual professional networks   Use of virtual professional networks   Use of virtual professional networks   Use of virtual professional networks   Use of virt	_	,	•
3.3.3       Use of virtual social networks       79.         3.3.4       Use of virtual professional networks       80.         3.3.4       Use of virtual professional networks       80.         3.3.4       Use of virtual professional networks       80.         3.3.4       Use of virtual professional networks       80.         4.1       Personal coverage       32.         4.1.2       Social protection       77.         4.1.3       Brain retention       89.         4.1.4       Environmental performance       54.         4.1.5       Vulnerable employment       90.         4.2       Lifestyle       73.         4.2.1       Personal rights       55.         4.2.2       Personal safety       100.         4.2.3       Physician density       38.         4.2.4       Sanitation       100.0         5       VOCATIONAL AND TECHNICAL SKILLS       73.6         5.1       Mid-Level Skills       58.         5.1.1       Workforce with secondary education       11.         5.1.2       Population with secondary education       36.         5.1.3       Technicians and associate professionals       85.         5.1.4       Labour pro			
RETAIN.   71.1			
RETAIN			
4.1       Sustainability       68.         4.1.1       Pension coverage       32.         4.1.2       Social protection       77.         4.1.3       Brain retention       89.         4.1.4       Environmental performance       54.         4.1.5       Vulnerable employment       90.         4.2       Lifestyle       73.         4.2.1       Personal rights       56.         4.2.2       Personal safety       100.         4.2.3       Physician density       38.         4.2.4       Sanitation       100.         5       VOCATIONAL AND TECHNICAL SKILLS       73.6         5.1       Mid-Level Skills       58.         5.1       Workforce with secondary education       11.0         5.1.1       Workforce with secondary education       11.0         5.1.2       Population with secondary education       85.         5.1.3       Technicians and associate professionals       85.         5.1.2       Employability       89.         5.2.1       Ease of finding skilled employees       89.         5.2.2       Relevance of education system to the economy       89.         5.2.3       Skills matching       n			
Sustainability   Sast	TAI	ETAIN 71 17	
1.1.1   Pension coverage			3
1.1.2   Social protection   77.     1.1.3   Brain retention   89.     1.1.4   Environmental performance   54.     1.1.5   Vulnerable employment   90.     1.2.1   Personal rights   56.     1.2.2   Personal safety   100.0     1.2.3   Physician density   38.     1.2.4   Sanitation   100.0     1.2.5   VOCATIONAL AND TECHNICAL SKILLS   73.6     1.2.6   Mid-Level Skills   58.3     1.1.1   Workforce with secondary education   11.     1.1.2   Population with secondary education   36.     1.1.3   Technicians and associate professionals   85.     1.1.4   Labour productivity per employee   100.0     1.2.6   Employability   89.0     1.2.1   Ease of finding skilled employees   89.0     1.2.2   Relevance of education system to the economy   89.0     1.2.3   Skills matching   n   n     1.2.4   High-Level Skills   68.6     1.3   Professionals   52.     1.4   Researchers   83.6     1.5   Senior officials and managers   100.0     1.6   Digital skills   36.0     1.6   Digital skills   36.0     1.7   Talent Impact   81.5     1.8   Talent Impact   81.5     1.9   Talent Impact   81.5     1.1   High-value exports   100.0     1.2   High-value exports   100.0     1.3   Talent Impact   81.5     1.4   High-value exports   100.0     1.5   Talent Impact   81.5     1.6   Talent Impact   81.5     1.7   Talent Impact   81.5     1.8   Talent Impact   81.5     1.9   Talent Impact   81.5     1.9   Talent Impact   81.5     1.9   Talent Impact   81.5     1.0   Talent Impact   81.5     1.1   High-value exports   100.0     1.1   Talent Impact   81.5     1.2   Talent Impact   81.5     1.3   Talent Impact   81.5     1.4   Talent Impact   81.5     1.5   Talent Impact   81.5     1.5   Talent Impact   81.5     1.5   Talent Impact   81.5     1.5   Talent Impact   81.5     1.5   Talent Impact   81.5     1.5   Talent Impact   81.5     1.5   Talent Impact   81.5     1.5   Talent Impact   81.5     1.5   Talent Impact   81.5     1.5   Talent Impact   81.5     1.5   Talent Impact   81.5     1.5   Talent Impact   81.5     1.5   Talent Impact   81.5     1.5   T			-
4.1.3       Brain retention       89         4.1.4       Environmental performance       .54.         4.1.5       Vulnerable employment       .90.         4.2       Lifestyle       .73.         4.2.1       Personal rights       .56.         4.2.2       Personal safety       .100.         4.2.3       Physician density       .38.         4.2.4       Sanitation       .100.         5       VOCATIONAL AND TECHNICAL SKILLS       73.6         6.1       Mid-Level Skills       .58.         5.1.1       Workforce with secondary education       .11.         5.1.2       Population with secondary education       .36.         5.1.3       Technicians and associate professionals       .85.         5.1.4       Labour productivity per employee       .100.         5.2.1       Ease of finding skilled employees       .89.         5.2.2       Relevance of education system to the economy       .89.         5.2.2       Relevance of education system to the economy       .89.         5.2.3       Skills matching       .n         5.1.1       Workforce with tertiary education       .75.         5.5.1       High-Level Skills       .64.         5.1.		9	
Environmental performance		·	
4.1.5       Vulnerable employment       .90.         4.2       Lifestyle       .73.4         4.2.1       Personal rights       .56.         4.2.2       Personal safety       .100.0         4.2.3       Physician density       .38.         4.2.4       Sanitation       .100.0         5       VOCATIONAL AND TECHNICAL SKILLS       .73.6         5.1       Mid-Level Skills       .58.3         5.1.1       Workforce with secondary education       .11.0         5.1.2       Population with secondary education       .36.         5.1.3       Technicians and associate professionals       .85.         5.1.4       Labour productivity per employee       .100.0         5.2.2       Employability       .89.0         5.2.1       Ease of finding skilled employees       .89.         5.2.2       Relevance of education system to the economy       .89.         5.2.3       Skills matching       .n         5.1.4       High-Level Skills       .68.         5.1.1       Workforce with tertiary education       .75.         5.1.2       Population with tertiary education       .64.         5.1.3       Professionals       .52.         5.1.4       <			
4.2       Lifestyle       73.0         4.2.1       Personal rights       56.         4.2.2       Personal safety       100.0         4.2.3       Physician density       38.         4.2.4       Sanitation       100.0         5       VOCATIONAL AND TECHNICAL SKILLS       73.6         5.1       Mid-Level Skills       58.         5.1.1       Workforce with secondary education       11.0         5.1.2       Population with secondary education       36.         5.1.3       Technicians and associate professionals       85.         5.1.4       Labour productivity per employee       100.0         5.2.2       Employability       89.0         5.2.1       Ease of finding skilled employees       89.0         5.2.2       Relevance of education system to the economy       89.0         5.2.3       Skills matching       n         5.2.4       Highly educated unemployment       88.0         5.5.1       High-Level Skills       68.6         5.5.1       Workforce with tertiary education       75.         5.5.1.2       Population with tertiary education       75.         5.5.1.3       Professionals       52.         5.5.1.4       R		·	
4.2.1       Personal rights       56.         4.2.2       Personal safety       100.0         4.2.3       Physician density       38.         4.2.4       Sanitation       100.0         5       VOCATIONAL AND TECHNICAL SKILLS       73.6         5.1       Mid-Level Skills       58.         5.1.1       Workforce with secondary education       11.0         5.1.2       Population with secondary education       36.         5.1.3       Technicians and associate professionals       85.         5.1.4       Labour productivity per employee       100.0         5.2.2       Employability       89.0         5.2.1       Ease of finding skilled employees       89.         5.2.2       Relevance of education system to the economy       89.         5.2.3       Skills matching       n         5.2.4       Highly educated unemployment       88.6         5.5       GLOBAL KNOWLEDGE SKILLS       74.5         5.6.1       High-Level Skills       64.5         5.6.1       Hoph-Level Skills       65.         5.6.1       Hoph-Level Skills       64.5         5.6.1       Professionals       52.         5.1.2       Population with tertiary ed			
4.2.2       Personal safety       100.0         4.2.3       Physician density       38         4.2.4       Sanitation       100.0         5       VOCATIONAL AND TECHNICAL SKILLS       73.6         5.1       Mid-Level Skills       58.3         5.1.1       Workforce with secondary education       11.0         5.1.2       Population with secondary education       36.1         5.1.3       Technicians and associate professionals       85.1         5.1.4       Labour productivity per employee       100.0         5.2.1       Ease of finding skilled employees       89.2         5.2.2       Relevance of education system to the economy       89.2         5.2.3       Skills matching       n         5.2.4       Highly educated unemployment       88.6         5.5       GLOBAL KNOWLEDGE SKILLS       74.5         5.1.1       Workforce with tertiary education       64.5         5.1.2       Population with tertiary education       64.5         5.1.3       Professionals       52.5         5.1.4       Researchers       83.6         5.1.5       Senior officials and managers       100.0         5.1.6       Digital skills       36.0 <t< td=""><td></td><td></td><td></td></t<>			
4.2.3       Physician density.       38.         4.2.4       Sanitation.       100.0         5.1       Wocational and Technical skills.       73.6         5.1.1       Workforce with secondary education.       11.         5.1.2       Population with secondary education.       36.         5.1.3       Technicians and associate professionals.       85.         5.1.4       Labour productivity per employee.       100.0         5.2.1       Ease of finding skilled employees.       89.         5.2.2.1       Relevance of education system to the economy.       89.         5.2.2.3       Skills matching.       n         4.1       Highly educated unemployment.       88.0         5.1       High-Level Skills.       68.0         5.1.1       Workforce with tertiary education.       64.1         5.1.2       Population with tertiary education.       64.1         5.1.3       Professionals.       52.         5.1.4       Researchers.       83.         5.1.5       Senior officials and managers.       100.0         5.1.6       Digital skills.       36.0         5.2.1       Innovation output.       70.0         5.2.2       High-value exports.       100.0		9	
4.2.4         Sanitation         100.0           5         VOCATIONAL AND TECHNICAL SKILLS         73.6           5.1.1         Mid-Level Skills         58.2           5.1.2         Population with secondary education         11.0           5.1.2         Population with secondary education         36.           5.1.3         Technicians and associate professionals         85.           5.1.4         Labour productivity per employee         100.0           5.2.1         Ease of finding skilled employees         89.           5.2.2.1         Relevance of education system to the economy         89.           5.2.2         Relevance of education system to the economy         89.           5.2.2         Relevance of education system to the economy         89.           5.2.4         Highly educated unemployment         88.           5.5         GLOBAL KNOWLEDGE SKILLS         74.5           5.1.1         Workforce with tertiary education         75.           5.1.2         Population with tertiary education         64.           5.1.3         Professionals         52.           5.1.4         Researchers         83.           5.1.5         Senior officials and managers         100.           5.1.6         Dig		· ·	
5.1       Mid-Level Skills       58.         5.1.1       Workforce with secondary education       11.0         5.1.2       Population with secondary education       36.         5.1.3       Technicians and associate professionals       85.         5.1.4       Labour productivity per employee       100.0         5.2       Employability       89.0         5.2.1       Ease of finding skilled employees       89.         5.2.2       Relevance of education system to the economy       89.         5.2.3       Skills matching       n         6.2.4       Highly educated unemployment       88.         5       GLOBAL KNOWLEDGE SKILLS       74.9         5.1       High-Level Skills       68.         5.1.1       Workforce with tertiary education       75.         5.1.2       Population with tertiary education       64.         5.1.3       Professionals       52.         5.1.4       Researchers       83.         5.1.5       Senior officials and managers       100.0         5.1.6       Digital skills       36.         5.2       Talent Impact       81.         5.2.2       High-value exports       100.0		nitation	
5.1       Mid-Level Skills       58.         5.1.1       Workforce with secondary education       11.         5.1.2       Population with secondary education       36.         5.1.3       Technicians and associate professionals       85.         5.1.4       Labour productivity per employee       100.         5.2       Employability       89.         5.2.1       Ease of finding skilled employees       89.         5.2.2       Relevance of education system to the economy       89.         5.2.3       Skills matching       n         6.2.4       Highly educated unemployment       88.         6.5       GLOBAL KNOWLEDGE SKILLS       74.9         6.1.1       Workforce with tertiary education       75.         6.1.2       Population with tertiary education       64.         6.1.3       Professionals       52.         6.1.4       Researchers       83.         6.1.5       Senior officials and managers       100.         6.1.6       Digital skills       36.         6.2       Talent Impact       81.         6.2.2       High-value exports       100.			
5.1.1       Workforce with secondary education       11.6         5.1.2       Population with secondary education       36.         5.1.3       Technicians and associate professionals       .85.         6.1.4       Labour productivity per employee       100.0         6.2       Employability       .89.0         6.2.1       Ease of finding skilled employees       .89.2         6.2.2       Relevance of education system to the economy       .89.2         6.2.3       Skills matching       n         6.2.4       Highly educated unemployment       .88.6         6       GLOBAL KNOWLEDGE SKILLS       .74.5         6.1       High-Level Skills       .68.6         6.1.1       Workforce with tertiary education       .75.         6.1.2       Population with tertiary education       .64.4         6.1.3       Professionals       .52.         6.1.4       Researchers       .83.6         6.1.5       Senior officials and managers       .100.0         6.1.6       Digital skills       .36.0         6.2       Talent Impact       .81.         6.2.2       High-value exports       .100.0			
5.1.2       Population with secondary education       .36.         5.1.3       Technicians and associate professionals       .85.         5.1.4       Labour productivity per employee       .100.0         5.2       Employability       .89.0         5.2.1       Ease of finding skilled employees       .89.0         5.2.2       Relevance of education system to the economy       .89.0         5.2.3       Skills matching       .n         6.2.4       Highly educated unemployment       .88.0         6.5       GLOBAL KNOWLEDGE SKILLS       .74.5         6.1       High-Level Skills       .68.6         6.1.1       Workforce with tertiary education       .75.0         6.1.2       Population with tertiary education       .64.0         6.1.3       Professionals       .52.0         6.1.4       Researchers       .83.0         6.1.5       Senior officials and managers       .100.0         6.1.6       Digital skills       .36.0         6.2       Talent Impact       .81.5         6.2.1       Innovation output       .70.0         6.2.2       High-value exports       .100.0			
5.1.3       Technicians and associate professionals       .85         5.1.4       Labour productivity per employee.       .100.0         5.2       Employability.       .89.0         5.2.1       Ease of finding skilled employees       .89.0         5.2.2       Relevance of education system to the economy       .89.0         5.2.3       Skills matching.       .n         5.2.4       Highly educated unemployment       .88.0         5.5       GLOBAL KNOWLEDGE SKILLS       .74.5         5.1       High-Level Skills       .68.0         5.1.1       Workforce with tertiary education       .75.0         5.1.2       Population with tertiary education       .64.0         5.1.3       Professionals       .52.0         5.1.4       Researchers       .83.0         5.1.5       Senior officials and managers       .100.0         5.2       Talent Impact       .81.1         5.2.1       Innovation output       .70.0         5.2.2       High-value exports       .100.0			1
5.1.4       Labour productivity per employee.       100.0         5.2       Employability.       89.0         5.2.1       Ease of finding skilled employees.       89.0         5.2.2       Relevance of education system to the economy.       89.0         5.2.3       Skills matching.       nn.         5.2.4       Highly educated unemployment.       88.0         5.1       High-Level Skills.       68.0         5.1.1       Workforce with tertiary education.       75.2         5.1.2       Population with tertiary education.       64.2         5.1.3       Professionals.       52.2         5.1.4       Researchers.       83.6         5.1.5       Senior officials and managers.       100.0         5.1.6       Digital skills.       36.0         5.2       Talent Impact.       81.5         5.2.1       Innovation output.       70.0         5.2.2       High-value exports.       100.0			
5.2       Employability.       89.0         5.2.1       Ease of finding skilled employees       89.0         5.2.2       Relevance of education system to the economy       89.0         5.2.3       Skills matching       n         6.2.4       Highly educated unemployment       88.0         5       GLOBAL KNOWLEDGE SKILLS       74.5         6.1       High-Level Skills       68.0         6.1.1       Workforce with tertiary education       75.1         6.1.2       Population with tertiary education       6.44.5         6.1.3       Professionals       52.2         6.1.4       Researchers       83.3         6.1.5       Senior officials and managers       100.0         6.1.6       Digital skills       36.0         6.2       Talent Impact       81.3         6.2.1       Innovation output       70.0         6.2.2       High-value exports       100.0		•	
5.2.1       Ease of finding skilled employees       89.         5.2.2       Relevance of education system to the economy       89.         5.2.3       Skills matching       n         6.2.4       Highly educated unemployment       88.         6.1       High-Level Skills       68.         6.1.1       Workforce with tertiary education       75.         6.1.2       Population with tertiary education       64.         6.1.3       Professionals       52.         6.1.4       Researchers       83.         6.1.5       Senior officials and managers       100.0         6.1.6       Digital skills       36.0         6.2       Talent Impact       81.         6.2.1       Innovation output       70.         6.2.2       High-value exports       100.0			
5.2.2       Relevance of education system to the economy       89.2         5.2.3       Skills matching       n         5.2.4       Highly educated unemployment       88.8         5       GLOBAL KNOWLEDGE SKILLS       74.5         5.1.1       High-Level Skills       68.6         5.1.2       Population with tertiary education       .75.2         5.1.3       Professionals       .52.2         5.1.4       Researchers       .83.0         5.1.5       Senior officials and managers       .100.0         5.1.6       Digital skills       .36.0         5.5.2       Talent Impact       .81.2         5.2.1       Innovation output       .70.0         5.2.2       High-value exports       .100.0			
5.2.3       Skills matching       n         5.2.4       Highly educated unemployment       .88.0         5       GLOBAL KNOWLEDGE SKILLS       .74.5         5.1       High-Level Skills       .68.0         5.1.1       Workforce with tertiary education       .75.1         5.1.2       Population with tertiary education       .64.1         5.1.3       Professionals       .52.1         5.1.4       Researchers       .83.0         5.1.5       Senior officials and managers       .100.0         5.1.6       Digital skills       .36.0         5.5.2       Talent Impact       .81.1         5.2.1       Innovation output       .70.0         5.2.2       High-value exports       .100.0		. ,	
5.2.4       Highly educated unemployment       .88.6         5       GLOBAL KNOWLEDGE SKILLS       .74.5         5.1       High-Level Skills       .68.6         5.1.1       Workforce with tertiary education       .75.2         5.1.2       Population with tertiary education       .64.2         5.1.3       Professionals       .52.3         5.1.4       Researchers       .83.0         5.1.5       Senior officials and managers       .100.0         5.1.6       Digital skills       .36.0         5.2       Talent Impact       .81.1         5.2.1       Innovation output       .70.0         5.2.2       High-value exports       .100.0			n
5.1       High-Level Skills       68.6         5.1.1       Workforce with tertiary education       .75.2         5.1.2       Population with tertiary education       .64.5         5.1.3       Professionals       .52.6         5.1.4       Researchers       .83.6         5.1.5       Senior officials and managers       100.6         5.1.6       Digital skills       .36.6         5.2       Talent Impact       .81.7         5.2.1       Innovation output       .70.6         5.2.2       High-value exports       100.0			
6.1       High-Level Skills       68.6         6.1.1       Workforce with tertiary education       .75.2         6.1.2       Population with tertiary education       .64.3         6.1.3       Professionals       .52.3         6.1.4       Researchers       .83.6         6.1.5       Senior officials and managers       100.0         6.1.6       Digital skills       .36.0         6.2       Talent Impact       .81.2         6.2.1       Innovation output       .70.0         6.2.2       High-value exports       100.0			
5.1.1       Workforce with tertiary education       .75         5.1.2       Population with tertiary education       .64         5.1.3       Professionals       .52         5.1.4       Researchers       .83         5.1.5       Senior officials and managers       .100         5.1.6       Digital skills       .36         5.2       Talent Impact       .81         5.2.1       Innovation output       .70         5.2.2       High-value exports       .100.0			
5.1.2       Population with tertiary education.       .64.         5.1.3       Professionals.       .52.         5.1.4       Researchers.       .83.         5.1.5       Senior officials and managers.       .100.         5.1.6       Digital skills.       .36.         5.2       Talent Impact.       .81.         5.2.1       Innovation output       .70.         5.2.2       High-value exports.       .100.0	_	5	
5.1.3       Professionals       52         5.1.4       Researchers       83.0.         5.1.5       Senior officials and managers       100.0         5.1.6       Digital skills       36.0         5.2       Talent Impact       81         5.2.1       Innovation output       70.0         5.2.2       High-value exports       100.0			
5.1.4       Researchers       .83.6         5.1.5       Senior officials and managers       .100.0         5.1.6       Digital skills       .36.0         5.2       Talent Impact       .81.2         5.2.1       Innovation output       .70.0         5.2.2       High-value exports       .100.0			
5.1.5       Senior officials and managers       100.0         5.1.6       Digital skills       .36.0         5.2       Talent Impact       .81.2         5.2.1       Innovation output       .70.0         5.2.2       High-value exports       100.0			
5.1.6       Digital skills       .36.0         5.2       Talent Impact       .81.2         5.2.1       Innovation output       .70.6         5.2.2       High-value exports       .100.0			
5.2     Talent Impact.     81.2       5.2.1     Innovation output     .70.6       5.2.2     High-value exports.     100.0		_	
5.2.1     Innovation output     70.8       5.2.2     High-value exports     100.0	_		
5.2.2 High-value exports			
3			
5.2.3 Software development		oftware development	
· ·		ew business density	
*		cientific journal articles80.46	

### **SLOVAKIA**

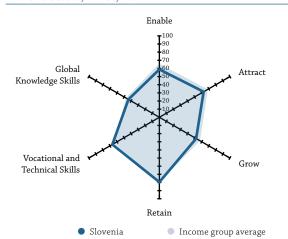
D 1	(-1.6124)	•	36	CDD	DD Lich	150 45
	(out of 134) ne group				per capita (PPP US\$)	
	onal group	•			score	
_	lation (millions)		_		score (income group average)	
ropu	iation (minions)		3.43	GICI	score (mcome group average)	01.51
GT	CI 2023 Country Profile by Pillar				Score	Rank
	p. 11			3	GROW 42.26	52
	Enable			3.1	Formal Education	40
	${f I}_{90}^{100}$				Enrolment	
	80			3.1.1	Vocational enrolment	
	Global +70	Attwo et		3.1.2	Tertiary enrolment	67
Kno	owledge Skills	Attract		3.1.3	Quality Tertiary education expenditure	32
	30			3.1.3	Reading, maths, and science	
	120			3.1.5	University ranking	
	/ <b>*</b> /			3.2	Lifelong Learning31.43	
				3.2.1	Business masters education0.00	57
		***		3.2.2	Prevalence of training in firms	
V	ocational and	Grow		3.2.3	Employee development	
Τe	echnical Skills	Grow		3.3	Access to Growth Opportunities	51
	Ť			3.3.1	Empowerment Delegation of authority	79
	İ			3.3.2	Youth inclusion	29
	Retain			3.3.2	Collaboration	
				3.3.3	Use of virtual social networks	61
	<ul><li>Slovakia</li><li>Incon</li></ul>	ne group average		3.3.4	Use of virtual professional networks	77
		Score	Rank			
1	ENABLE	53.07	42	4	RETAIN	32
1.1	Regulatory Landscape		38	4.1	Sustainability65.85	40
1.1.1	Government effectiveness		44	4.1.1	Pension coverage90.51	
1.1.2	Rule of law		37	4.1.2	Social protection	
1.1.3	Political stability	75.72	40	4.1.3 4.1.4	Brain retention	
1.1.4	Regulatory quality		32	4.1.4	Vulnerable employment	
1.1.5	Corruption		40	4.2	Lifestyle	
1.2	Market Landscape		61	4.2.1	Personal rights	
1.2.1 1.2.2	Extent of market dominance  Domestic credit to private sector		62 48	4.2.2	Personal safety80.11	39
1.2.3	Cluster development		74	4.2.3	Physician density	
1.2.4	R&D expenditure		43	4.2.4	Sanitation	55
1.2.5	ICT infrastructure	77.36	38			
1.2.6	Urbanisation		92	5	VOCATIONAL AND TECHNICAL SKILLS 63.90	24
1.3	Business and Labour Landscape	50.86	41	5.1	Mid-Level Skills	3
1 2 1	Labour Market	100.00	1	5.1.1	Workforce with secondary education	
1.3.1 1.3.2	Labour rights  Labour-employer cooperation		1 85	5.1.2	Population with secondary education	
1.J.Z	Management Practice		03	5.1.3	Technicians and associate professionals	
1.3.3	Professional management	37.68	94	5.1.4 5.2	Labour productivity per employee	
1.3.4	Relationship of pay to productivity		75	5.2.1	Ease of finding skilled employees	
	Technology Adoption			5.2.2	Relevance of education system to the economy22.95	
1.3.5	Enterprise software		36	5.2.3	Skills matching	17
1.3.6 1.3.7	Cloud computing		52 26	5.2.4	Highly educated unemployment	51
			_0			
2	ATTRACT	54.20	51	<b>6</b> 6.1	GLOBAL KNOWLEDGE SKILLS         36.11           High-Level Skills         31.97	<b>39</b> 47
2.1	External Openness		55	6.1.1	Workforce with tertiary education	
	Attract Business			6.1.2	Population with tertiary education	46
2.1.1	FDI regulatory restrictiveness	87.84	28	6.1.3	Professionals	45
2.1.2	Financial globalisation	76.94	32	6.1.4	Researchers	
	Attract People			6.1.5	Senior officials and managers	
2.1.3	Migrant stock		79 26	6.1.6	Digital skills	
2.1.4	Brain gain		26 123	6.2 6.2.1	Talent Impact	
2.1.3	Internal Openness		58	6.2.2	High-value exports	
	Social Inclusion			6.2.3	Software development	
2.2.1	Tolerance of minorities		61	6.2.4	New business density	29
2.2.2	Tolerance of immigrants		104	6.2.5	Scientific journal articles	31
2.2.3	Social mobility	55.79	48			
224	Gender Equality	70.74	50			
2.2.4	Economic empowerment of women  Gender parity in high-skilled jobs		59 46			
2.2.5	Leadership opportunities for women	46.47	73			
	1 11 11 11 11 11 11 11 11 11 11 11 11 1		-			

#### **SLOVENIA**

Key Indicators

Rank (out of 134)	8
Income group	ome
Regional groupEur	ope
Population (millions)	2.11

GTCI 2023 Country Profile by Pillar



	Score	Rank
1	ENABLE 58.80	32
1.1	Regulatory Landscape	31
1.1.1	Government effectiveness	25
1.1.2	Rule of law	26
1.1.3	Political stability	28
1.1.4	Regulatory quality	37
1.1.5	Corruption	34
1.2	Market Landscape	39
1.2.1	Extent of market dominance71.62	16
1.2.2	Domestic credit to private sector	78
1.2.3	Cluster development	70
1.2.4	R&D expenditure39.90	17
1.2.5	ICT infrastructure	40
1.2.6	Urbanisation	90
1.3	Business and Labour Landscape54.39	31
	Labour Market	
1.3.1	Labour rights95.17	21
1.3.2	Labour-employer cooperation	60
	Management Practice	00
1.3.3	Professional management	55
1.3.4	Relationship of pay to productivity	73
1.5.7	Technology Adoption	75
1.3.5	Enterprise software	47
1.3.6	·	58
1.3.7	Cloud computing	12
1.3./	Fillis With Website	12
2	ATTRACT	32
2.1	External Openness	37
	Attract Business	
2.1.1	FDI regulatory restrictiveness	2
2.1.2	Financial globalisation	45
	Attract People	
2.1.3	Migrant stock	37
2.1.4	International students	34
2.1.5	Brain gain	116
2.2	Internal Openness	27
2.2	Social Inclusion	21
2.2.1	Tolerance of minorities	28
2.2.1	Tolerance of immigrants	125
2.2.2	Social mobility	21
۷.۷.۵		21
224	Gender Equality	20
2.2.4	Economic empowerment of women	20 29
2.2.5	Gender parity in high-skilled jobs	29 17

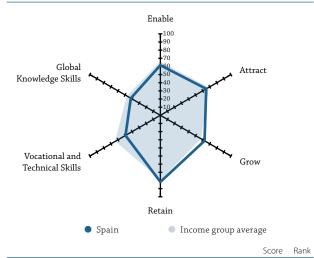
	score (income group average)	
0101	Score	Rank
3	GROW52.12	27
<b>3</b> .1	Formal Education	20
J.1	Enrolment	
3.1.1	Vocational enrolment	_
3.1.2	Tertiary enrolment	23
	Quality	
3.1.3	Tertiary education expenditure	25
3.1.4 3.1.5	Reading, maths, and science	10 63
3.1.3	Lifelong Learning	43
3.2.1	Business masters education	57
3.2.2	Prevalence of training in firms	27
3.2.3	Employee development	36
3.3	Access to Growth Opportunities	35
	Empowerment	
3.3.1	Delegation of authority	58
3.3.2	Youth inclusion	ç
3.3.3	Use of virtual social networks	40
3.3.4	Use of virtual professional networks	50
4	RETAIN79.53	26
4.1	Sustainability	18
4.1.1 4.1.2	Pension coverage	1
4.1.2 4.1.3	Social protection	86
4.1.4	Environmental performance	7
4.1.5	Vulnerable employment	31
4.2	Lifestyle	34
4.2.1	Personal rights	49
4.2.2	Personal safety90.85	14
4.2.3 4.2.4	Physician density	42 42
5	VOCATIONAL AND TECHNICAL SKILLS 66.65	17
5.1	Mid-Level Skills	11
5.1.1 5.1.2	Workforce with secondary education	28 12
5.1.3	Technicians and associate professionals	20
5.1.4	Labour productivity per employee	31
5.2	Employability69.23	31
5.2.1	Ease of finding skilled employees	65
5.2.2	Relevance of education system to the economy	48
5.2.3 5.2.4	Skills matching	13 37
J.Z.4	riigniy educated unemployment	3/
6	GLOBAL KNOWLEDGE SKILLS 43.88	26
6.1	High-Level Skills	27
6.1.1	Workforce with tertiary education	20
6.1.2 6.1.3	Population with tertiary education	37
6.1.4	Researchers	16
6.1.5	Senior officials and managers	61
6.1.6	Digital skills	42
6.2	Talent Impact	30
6.2.1	Innovation output	34
6.2.2	High-value exports	6.5
6.2.3	Software development	22
6.2.4 6.2.5	New business density	53 10
		1/

### **SOUTH AFRICA**

Incor	ne group	. Upper-middle in	come		(US\$ billions)	
Regio	onal group	Sub-Saharan A	frica	GTCI	score	43.0
Popu	lation (millions)		59.89	GTCI	score (income group average) $\ldots \ldots \ldots$	43.5
GT	Cl 2023 Country Profile by Pillar				Score	Ran
	P. 11			3	GROW35.78	69
	Enable ${f I}_{90}^{100}$			3.1	Formal Education	60
	<b>1</b> 90			3.1.1	Vocational enrolment	89
	Global 70 60 50	. Attract		3.1.2	Tertiary enrolment	9:
Kno	owledge Skills	JANA TO THE STATE OF THE STATE		3.1.3	Tertiary education expenditure	3
	130			3.1.4	Reading, maths, and science	
	10,00			3.1.5	University ranking31.81	4
				3.2	Lifelong Learning	
	1 1 1			3.2.1 3.2.2	Business masters education	
		****		3.2.2	Prevalence of training in firms	
	ocational and	Grow		3.3	Access to Growth Opportunities	
Те	echnical Skills			5.5	Empowerment	Ü
	‡			3.3.1	Delegation of authority57.79	4
	1			3.3.2	Youth inclusion	
	Retain				Collaboration	
	South Africa     Inco	me group average		3.3.3	Use of virtual social networks	9
	o bouth firsted			3.3.4	Use of virtual professional networks	4
	ENABLE	Score	Rank	4	RETAIN53.07	8
<b>.</b> 1.1	Regulatory Landscape		<b>57</b> 71	4.1	Sustainability54.28	6
.1.1	Government effectiveness		71	4.1.1	Pension coverage	6
.1.2	Rule of law		57	4.1.2	Social protection	
.1.3	Political stability		105	4.1.3	Brain retention	
1.1.4	Regulatory quality	40.20	74	4.1.4	Environmental performance	
.1.5	Corruption	35.62	58	4.1.5	Vulnerable employment	
.2	Market Landscape	48.78	57	4.2 4.2.1	Lifestyle	
.2.1	Extent of market dominance		70	4.2.2	Personal safety	
.2.2	Domestic credit to private sector		31	4.2.3	Physician density	
1.2.3 1.2.4	Cluster development		47 54	4.2.4	Sanitation	
1.2.5	ICT infrastructure.		60			
1.2.6	Urbanisation		64	5	VOCATIONAL AND TECHNICAL SKILLS 38.20	9
1.3	Business and Labour Landscape		29	5.1	Mid-Level Skills	
	Labour Market			5.1.1	Workforce with secondary education	
1.3.1	Labour rights		47	5.1.2	Population with secondary education76.21	1-
1.3.2	Labour-employer cooperation	16.88	124	5.1.3	Technicians and associate professionals	5
	Management Practice			5.1.4	Labour productivity per employee	5
1.3.3	Professional management		49	5.2	Employability30.86	
1.3.4	Relationship of pay to productivity Technology Adoption	46.91	92	5.2.1	Ease of finding skilled employees	
1.3.5	Enterprise software	41 23	29	5.2.2 5.2.3	Relevance of education system to the economy	
1.3.6	Cloud computing		10	5.2.3	Highly educated unemployment	
1.3.7	Firms with website		20	3.2.1	riigiiiy caacatea alienipioyinen	12
				6	GLOBAL KNOWLEDGE SKILLS 28.66	
2	ATTRACT		53	6.1	High-Level Skills	
2.1	External Openness	48.88	60	6.1.1	Workforce with tertiary education	
2.1.1	Attract Business  FDI regulatory restrictiveness	86 22	34	6.1.2 6.1.3	Population with tertiary education	
2.1.1	Financial globalisation		62	6.1.4	Researchers	
	Attract People		-	6.1.5	Senior officials and managers	
2.1.3	Migrant stock	45.38	58	6.1.6	Digital skills	
2.1.4	International students	10.88	65	6.2	Talent Impact	
2.1.5	Brain gain		85	6.2.1	Innovation output	
2.2	Internal Openness	58.59	55	6.2.2	High-value exports	
	Social Inclusion	. =	7.	6.2.3	Software development	
2.2.1 2.2.2	Tolerance of minorities  Tolerance of immigrants		76 43	6.2.4	New business density	
2.2.2	Social mobility		43 100	6.2.5	ocientine journal articles	6
د.د.ی	Gender Equality		100			
2.2.4	Economic empowerment of women	83.19	47			
	Gender parity in high-skilled jobs		53			
2.2.5	derider parity in ringir skined jobs					

#### **SPAIN**

Rank (out of 134)	)
Income group High incom	
Regional groupEurop	e
Population (millions)	2
GTCI 2023 Country Profile by Pillar	



1	ENABLE	26
1.1	Regulatory Landscape	33
1.1.1	Government effectiveness	32
1.1.2	Rule of law	32
1.1.3	Political stability	38
1.1.4	Regulatory quality63.15	39
1.1.5	Corruption	29
1.2	Market Landscape	24
1.2.1	Extent of market dominance	36
1.2.2	Domestic credit to private sector	22
1.2.3	Cluster development	31
1.2.4	R&D expenditure	29
1.2.5	ICT infrastructure	14
1.2.6	Urbanisation	34
1.3	Business and Labour Landscape54.21	32
	Labour Market	
1.3.1	Labour rights	34
1.3.2	Labour-employer cooperation	67
	Management Practice	
1.3.3	Professional management	44
1.3.4	Relationship of pay to productivity	116
	Technology Adoption	
1.3.5	Enterprise software	51
1.3.6	Cloud computing	19
1.3.7	Firms with website	25
2	ATTRACT	26
_	ATTRACT	
<b>2</b> 2.1	External Openness	<b>26</b> 31
2.1	External Openness 59.49 Attract Business	31
2.1.1	External Openness 59.49 Attract Business FDI regulatory restrictiveness	31
2.1	External Openness 59.49 Attract Business FDI regulatory restrictiveness 95.41 Financial globalisation 83.27	31
2.1.1 2.1.2	External Openness 59.49 Attract Business FDI regulatory restrictiveness 95.41 Financial globalisation 83.27 Attract People	31 12 23
2.1.1 2.1.1 2.1.2 2.1.3	External Openness 59.49 Attract Business FDI regulatory restrictiveness .95.41 Financial globalisation .83.27 Attract People Migrant stock .62.26	31 12 23 34
2.1.1 2.1.1 2.1.2 2.1.3 2.1.4	External Openness 59.49 Attract Business FDI regulatory restrictiveness .95.41 Financial globalisation .83.27 Attract People Migrant stock .62.26 International students .13.80	31 12 23 34 57
2.1.1 2.1.2 2.1.2 2.1.3 2.1.4 2.1.5	External Openness         59.49           Attract Business         95.41           FDI regulatory restrictiveness         .95.41           Financial globalisation         .83.27           Attract People         Migrant stock         .62.26           International students         .13.80           Brain gain         .42.73	31 12 23 34 57 77
2.1.1 2.1.1 2.1.2 2.1.3 2.1.4	External Openness         59.49           Attract Business         95.41           FDI regulatory restrictiveness         95.41           Financial globalisation         83.27           Attract People         Migrant stock         62.26           International students         13.80           Brain gain         42.73           Internal Openness         70.45	31 12 23 34 57
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2	External Openness         59.49           Attract Business         95.41           FDI regulatory restrictiveness         .95.41           Financial globalisation         .83.27           Attract People	31 12 23 34 57 77 24
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2	External Openness         59.49           Attract Business         95.41           FDI regulatory restrictiveness         .95.41           Financial globalisation         .83.27           Attract People         .62.26           International students         .13.80           Brain gain         .42.73           Internal Openness         .70.45           Social Inclusion           Tolerance of minorities         .28.72	31 12 23 34 57 77 24
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2	External Openness         59.49           Attract Business         95.41           FDI regulatory restrictiveness         .95.41           Financial globalisation         .83.27           Attract People         .62.26           International students         .13.80           Brain gain         .42.73           Internal Openness         .70.45           Social Inclusion           Tolerance of minorities         .28.72           Tolerance of immigrants         .87.69	31 12 23 34 57 77 24 92 13
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2	External Openness         59.49           Attract Business         95.41           FDI regulatory restrictiveness         .95.41           Financial globalisation         .83.27           Attract People         .62.26           International students         .13.80           Brain gain         .42.73           Internal Openness         .70.45           Social Inclusion           Tolerance of minorities         .28.72	31 12 23 34 57 77 24
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2	External Openness         59.49           Attract Business         95.41           FDI regulatory restrictiveness         .95.41           Financial globalisation         .83.27           Attract People         .62.26           International students         .13.80           Brain gain         .42.73           Internal Openness         .70.45           Social Inclusion         .28.72           Tolerance of minorities         .28.72           Tolerance of immigrants         .87.69           Social mobility         .58.47	31 12 23 34 57 77 24 92 13
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3	External Openness         59.49           Attract Business         95.41           FDI regulatory restrictiveness         95.41           Financial globalisation         83.27           Attract People         Migrant stock         62.26           International students         13.80           Brain gain         42.73           Internal Openness         70.45           Social Inclusion         28.72           Tolerance of minorities         28.72           Tolerance of immigrants         87.69           Social mobility         58.47           Gender Equality	31 12 23 34 57 77 24 92 13 43
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3 2.2.4	External Openness         59.49           Attract Business         95.41           FDI regulatory restrictiveness         95.41           Financial globalisation         83.27           Attract People         Migrant stock           Migrant stock         62.26           International students         13.80           Brain gain         42.73           Internal Openness         70.45           Social Inclusion         30.22           Tolerance of minorities         28.72           Tolerance of immigrants         87.69           Social mobility         58.47           Gender Equality         Economic empowerment of women         100.00	31 12 23 34 57 77 24 92 13 43
2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3 2.2.4 2.2.5	External Openness         59.49           Attract Business         95.41           FDI regulatory restrictiveness         .95.41           Financial globalisation         .83.27           Attract People	31 12 23 34 57 77 24 92 13 43

97.! 60.:	score
61.9	score (income group average)
Rai	Score
1	GROW 62.64
2	Formal Education
	Enrolment
4	Vocational enrolment
	Tertiary enrolment
3	Quality Tertiary education expenditure
	Reading, maths, and science
	University ranking
	Lifelong Learning
	Business masters education
	Prevalence of training in firms
8	Employee development
2	Access to Growth Opportunities
	Empowerment
-	Delegation of authority
-	Youth inclusion
	Collaboration Use of virtual social networks
	Use of virtual professional networks
•	OSC OF VIRGAL PROFESSIONAL NEEWORDS
1	RETAIN81.74
2	Sustainability
4	Pension coverage98.18
	Social protection
-	Brain retention
	Environmental performance
-	Vulnerable employment
	Lifestyle
-	Personal rights         .93.57           Personal safety         .96.21
	Physician density
	Sanitation
	VOCATIONAL AND TECHNICAL SKILLS
6	Mid-Level Skills
8	Workforce with secondary education
(	Population with secondary education
4	Technicians and associate professionals
2	Labour productivity per employee56.60
(	Employability58.04
4	Ease of finding skilled employees
	Relevance of education system to the economy
9	Skills matching
3	<b>GLOBAL KNOWLEDGE SKILLS</b>
-	Workforce with tertiary education
	Population with tertiary education
	Professionals
3	Researchers
	Senior officials and managers
1	Digital skills32.20
-	Talent Impact
2	Innovation output
	High-value exports
	Software development
1	Scientific journal articles

### **SRI LANKA**

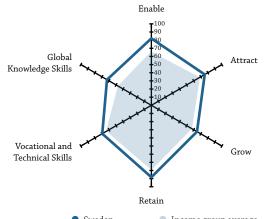
con	ne group	Lower-middle in	come	GDP	(US\$ billions)		)5.4 74.4
	nal group Ce				score		
_	ation (millions)				score (income group average)		
GT	Il 2023 Country Profile by Pillar				Sc	ore	Rai
				3	GROW	40	8
	Enable			3.1	Formal Education		9
	$\mathbf{I}_{\circ o}^{100}$				Enrolment		
	80			3.1.1	Vocational enrolment		
	Global +70 -60			3.1.2	Tertiary enrolment	.89	
Kno	wledge Skills	Attract		212	Quality		
	430	. XXXX		3.1.3 3.1.4	Tertiary education expenditure		
	120	•		3.1.4	University ranking		
				3.2	Lifelong Learning		
				3.2.1	Business masters education		
		<b>^</b>		3.2.2	Prevalence of training in firms.		
17	ocational and	<b>*</b> ***		3.2.3	Employee development64		
	chnical Skills	Grow		3.3	Access to Growth Opportunities	7.79	
16	†				Empowerment		
	Ŧ			3.3.1	Delegation of authority		
	1			3.3.2	Youth inclusion55	5.13	
	Retain			2.2.2	Collaboration		
	Sri Lanka Inco	ome group average		3.3.3 3.3.4	Use of virtual social networks		
		8 11 11 18		3.3.4	ose of virtual professional networks	.09	
		Score	Rank	4	RETAIN	29	
	ENABLE		73	4.1	Sustainability 38		
	Regulatory Landscape		77	4.1.1	Pension coverage		
	Government effectiveness		74 60	4.1.2	Social protection		
	Political stability		82	4.1.3	Brain retention	7.18	
	Regulatory quality.		91	4.1.4	Environmental performance	.78	
	Corruption		81	4.1.5	Vulnerable employment58	.56	
	Market Landscape		99	4.2	Lifestyle58		
	Extent of market dominance		53	4.2.1	Personal rights		
	Domestic credit to private sector	45.42	74	4.2.2 4.2.3	Personal safety		
	Cluster development		45	4.2.3	Sanitation		
	R&D expenditure		102	1.2.1	Samadon	.05	
	ICT infrastructure		92 131				
	Business and Labour Landscape		45	5	VOCATIONAL AND TECHNICAL SKILLS53.		
	Labour Market		15	5.1	Mid-Level Skills		
	Labour rights	67.69	79	5.1.1 5.1.2	Workforce with secondary education		
	Labour-employer cooperation		65	5.1.3	Technicians and associate professionals		
	Management Practice			5.1.4	Labour productivity per employee		
	Professional management		38	5.2	Employability60		
	Relationship of pay to productivity	60.78	44	5.2.1	Ease of finding skilled employees		
	Technology Adoption		20	5.2.2	Relevance of education system to the economy48		
	Enterprise software		28 42	5.2.3	Skills matching		
	Firms with website		n/a	5.2.4	Highly educated unemployment71	.∠۱	
				6	GLOBAL KNOWLEDGE SKILLS17.	.77	
	ATTRACT		122	6.1	High-Level Skills		
	External Openness		130	6.1.1	Workforce with tertiary education		
	Attract Business FDI regulatory restrictiveness	~ <i>!</i> -	n/2	6.1.2	Population with tertiary education		
	Financial globalisation		n/a 117	6.1.3 6.1.4	Professionals		
	Attract People		117	6.1.4	Senior officials and managers		
	Migrant stock	1.87	131	6.1.6	Digital skills		
	International students		107	6.2	Talent Impact		
	Brain gain		68	6.2.1	Innovation output		
	Internal Openness	46.56	106	6.2.2	High-value exports1	.71	
	Social Inclusion			6.2.3	Software development71		
	Tolerance of minorities		110	6.2.4	New business density	.89	
	Tolerance of immigrants		88	6.2.5	Scientific journal articles	3.01	
5	Social mobility  Gender Equality	53.19	49				
	Economic empowerment of women	51.33	116				

#### **SWEDEN**

Key Indicators

Rank (out of 134)	J
Income group High incom	ne
Regional groupEuro	pe
Population (millions)	49

GTCI 20	123 Count	try Profile	by Pillar



)	Sweden	Income group average

Score Rank

6.1.6

6.2.3

6.2.4

6.2.5

6.2 6.2.1 6.2.2

1	ENABLE82.10	6
1.1	Regulatory Landscape	8
1.1.1	Government effectiveness	8
1.1.2	Rule of law	11
1.1.3	Political stability	9
1.1.4	Regulatory quality87.58	8
1.1.5	Corruption	5
1.2	Market Landscape	4
1.2.1	Extent of market dominance	8
1.2.2	Domestic credit to private sector	11
1.2.3	Cluster development	13
1.2.4	R&D expenditure	3
1.2.5	ICT infrastructure	27
1.2.6	Urbanisation85.55	18
1.3	Business and Labour Landscape	6
	Labour Market	
1.3.1	Labour rights	1
1.3.2	Labour-employer cooperation	22
1.5.2	Management Practice	
1.3.3	Professional management	18
1.3.4	Relationship of pay to productivity	19
1.5.7	Technology Adoption	10
1.3.5	Enterprise software	10
1.3.6	Cloud computing	3
1.3.7	Firms with website	5
1.5.7	Timis with website	5
2	ATTRACT75.61	11
2.1	External Openness	22
	Attract Business	
2.1.1	FDI regulatory restrictiveness85.14	37
2.1.2	Financial globalisation	12
	Attract People	
2.1.3	Migrant stock	19
2.1.4	International students	36
2.1.5	Brain gain	36
2.7.2	Internal Openness	8
2.2	Social Inclusion	0
2.2.1	Tolerance of minorities	8
2.2.2	Tolerance of immigrants	8
2.2.3	Social mobility	16
2.2.3	Gender Equality	
2.2.4	Economic empowerment of women	1
2.2.5	Gender parity in high-skilled jobs95.85	10
2.2.6	Leadership opportunities for women	25

GDP (US\$ billions) GTCI score. GTCI score (income group average)  3 GROW. 3.1 Formal Education. Enrolment 3.1.1 Vocational enrolment 3.1.2 Tertiary enrolment Quality 3.1.3 Tertiary education expenditure.	Score	73.8
3.1 Formal Education. Enrolment 3.1.1 Vocational enrolment		
3.1 Formal Education. Enrolment 3.1.1 Vocational enrolment. 3.1.2 Tertiary enrolment. Quality	64.66	Ranl
Enrolment 3.1.1 Vocational enrolment		14
3.1.2 Tertiary enrolment	60.36	13
Quality	31.81	3.5
	55.60	10
	85.96	
3.1.4 Reading, maths, and science		1.
3.1.5 University ranking	59.68	1.
3.2 Lifelong Learning	58.28	1
3.2.1 Business masters education	13.70	5
3.2.2 Prevalence of training in firms	77.03	
3.2.3 Employee development	84.11	
3.3 Access to Growth Opportunities  Empowerment	75.33	1.
3.3.1 Delegation of authority		2
3.3.2 Youth inclusion	95.29	
3.3.3 Use of virtual social networks	77.33	2
3.3.4 Use of virtual professional networks	62.63	1-
RETAIN		
1.1 Sustainability		
I.1.1 Pension coverage		
I.1.2 Social protection		1
I.1.3 Brain retention		1
I.1.4 Environmental performance		
I.1.5 Vulnerable employment		1
I.2 Lifestyle		1
I.2.1 Personal rights		
1.2.2 Personal safety		1
1.2.3 Physician density		1
.2.4 Sanitation	99.22	2
VOCATIONAL AND TECHNICAL SKILLS		1
.1 Mid-Level Skills		1
1.1.1 Workforce with secondary education		5 2
.1.3 Technicians and associate professionals		2
5.1.4 Labour productivity per employee		1
5.2 Employability		1
i.2.1 Ease of finding skilled employees		4
		1
.2.2 Relevance of education system to the econo .2.3 Skills matching		2
.2.4 Highly educated unemployment		5
GLOBAL KNOWLEDGE SKILLS	62.89	
i.1 High-Level Skills	58.53	
5.1.1 Workforce with tertiary education	55.22	1
5.1.2 Population with tertiary education	44.81	2
5.1.3 Professionals		
5.1.4 Researchers	91.00	

 Digital skills
 .45.78

 Talent Impact
 .67.25

 Innovation output
 .91.91

10

36

6

16

### **SWITZERLAND**

Rank	(out of 134)		1	GDP	per capita (PPP US\$)	98.45
Incor	ne group	High in	come		(US\$ billions)	
Regio	onal group	Eu	ırope	GTCI	score	78.96
Popu	lation (millions)		. <b>8.77</b>	GTCI	score (income group average)	61.91
GT	CI 2023 Country Profile by Pillar				Score	Rank
	p. 11			3	GROW75.45	5
	Enable			3.1	Formal Education. 67.75	6
	$\mathbf{I}_{90}^{100}$				Enrolment	
	188			3.1.1	Vocational enrolment	10 46
	Global	Attract		3.1.2	Tertiary enrolment	40
Kno	owledge Skills	A FACTOR		3.1.3	Tertiary education expenditure	3
	30			3.1.4	Reading, maths, and science	20
				3.1.5	University ranking	4
				3.2	Lifelong Learning85.41	4
		1		3.2.1	Business masters education	9
		<u>پلر</u>		3.2.2 3.2.3	Prevalence of training in firms	n/a 2
	ocational and	Grow		3.3	Access to Growth Opportunities	15
Te	echnical Skills			***	Empowerment	
	<b>V</b>			3.3.1	Delegation of authority	15
	1			3.3.2	Youth inclusion83.95	22
	Retain			2.2.2	Collaboration	20
	Switzerland Income	group average		3.3.3 3.3.4	Use of virtual social networks	20 16
				3.3.4	ose of virtual professional networks	10
		Score	Rank	4	RETAIN	1
1	ENABLE		1	4.1	Sustainability	1
1.1 1.1.1	Regulatory Landscape		5 2	4.1.1	Pension coverage	1
1.1.2	Rule of law		6	4.1.2	Social protection	1
1.1.3	Political stability		6	4.1.3	Brain retention	1
1.1.4	Regulatory quality		9	4.1.4	Environmental performance	9
1.1.5	Corruption		7	4.1.5 4.2	Vulnerable employment	29 9
1.2	Market Landscape		2	4.2.1	Personal rights	18
1.2.1 1.2.2	Extent of market dominance		1 7	4.2.2	Personal safety95.96	4
1.2.2	Domestic credit to private sector		3	4.2.3	Physician density70.22	14
1.2.4	R&D expenditure		7	4.2.4	Sanitation	17
1.2.5	ICT infrastructure	85.89	15			
1.2.6	Urbanisation		47	5	VOCATIONAL AND TECHNICAL SKILLS	2
1.3	Business and Labour Landscape	90.41	2	5.1	Mid-Level Skills	8
1.3.1	Labour Market Labour rights	07.50	14	5.1.1	Workforce with secondary education	43
1.3.1	Labour-employer cooperation		1	5.1.2 5.1.3	Population with secondary education	18 16
	Management Practice			5.1.4	Labour productivity per employee	8
1.3.3	Professional management		7	5.2	Employability	4
1.3.4	Relationship of pay to productivity	100.00	1	5.2.1	Ease of finding skilled employees	28
125	Technology Adoption	70.11	7	5.2.2	Relevance of education system to the economy 100.00	1
1.3.5 1.3.6	Enterprise software		7 4	5.2.3 5.2.4	Skills matching         .76.90           Highly educated unemployment         .88.02	28 26
1.3.7	Firms with website		n/a	5.2.4	nigniy educated unemployment	20
				6	GLOBAL KNOWLEDGE SKILLS61.00	10
2	ATTRACT		3	6.1	High-Level Skills	15
2.1	External Openness	83.78	5	6.1.1	Workforce with tertiary education	21
211	Attract Business	70 / 5	40	6.1.2	Population with tertiary education	13
2.1.1	FDI regulatory restrictiveness		48 8	6.1.3 6.1.4	Professionals 59.42 Researchers 63.67	13 12
	Attract People		J	6.1.4	Senior officials and managers	15
2.1.3	Migrant stock	78.47	12	6.1.6	Digital skills	16
2.1.4	International students	66.61	11	6.2	Talent Impact	6
2.1.5	Brain gain		2	6.2.1	Innovation output	1
2.2	Internal Openness	81.31	9	6.2.2	High-value exports	35
2.2.1	Social Inclusion Tolerance of minorities	77.66	13	6.2.3 6.2.4	Software development	2 31
2.2.1	Tolerance of immigrants		29	6.2.5	Scientific journal articles	1
2.2.3	Social mobility		3		,	
_	Gender Equality					
2.2.4	Economic empowerment of women		47			
2.2.5 2.2.6	Gender parity in high-skilled jobs Leadership opportunities for women		49 16			
2.2.0	zeadership opportunites for Wornerr					

# TANZANIA, UNITED REP.

Key Indicators	
Rank (out of 134)	121
Income group	Lower-middle income
Regional group	
Population (millions)	65.50
GTCI 2023 Country Profile by Pillar	
Enable	
Global 50 Knowledge Skills 40	Attract
Vocational and Technical Skills	Grow

Tanzania, United Rep.
 Income group average

	Score	Rank
1	ENABLE 34.47	102
1.1	Regulatory Landscape32.58	97
1.1.1	Government effectiveness	106
1.1.2	Rule of law	96
1.1.3	Political stability49.81	90
1.1.4	Regulatory quality25.83	108
1.1.5	Corruption	74
1.2	Market Landscape	109
1.2.1	Extent of market dominance	60
1.2.2	Domestic credit to private sector12.64	122
1.2.3	Cluster development	43
1.2.4	R&D expenditure9.44	59
1.2.5	ICT infrastructure	97
1.2.6	Urbanisation	120
1.3	Business and Labour Landscape	90
	Labour Market	
1.3.1	Labour rights	66
1.3.2	Labour-employer cooperation	71
	Management Practice	
1.3.3	Professional management	52
1.3.4	Relationship of pay to productivity	54
	Technology Adoption	-
1.3.5	Enterprise software	98
1.3.6	Cloud computing	106
1.3.7	Firms with website	102
	, , , , , , , , , , , , , , , , , , , ,	.02
2	ATTRACT	101
2.1	External Openness	101
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation	124
2.1.2	Attract People	121
2.1.3	Migrant stock	108
2.1.3	International students	n/a
2.1.5	Brain gain	42
2.7.2	Internal Openness	95
2.2	Social Inclusion	93
2.2.1	Tolerance of minorities	56
2.2.1	Tolerance of immigrants	98
	3	
2.2.3	Social mobility	69
2.2.4	Economic empowerment of women	74
2.2.5	Gender parity in high-skilled jobs	114
2.2.6	Leadership opportunities for women	61

GTCI	score	25.3
	score (income group average)	
	Score	Rar
3	GROW	11
3.1	Formal Education	13
	Enrolment	
3.1.1	Vocational enrolment	11
3.1.2	Tertiary enrolment4.29	11
	Quality	
3.1.3	Tertiary education expendituren/a	n,
3.1.4	Reading, maths, and science	n,
3.1.5	University ranking	7
3.2	Lifelong Learning	9
3.2.1	Business masters education	-
3.2.2 3.2.3	Employee development	
3.3	Access to Growth Opportunities	10
5.5	Empowerment	10
3.3.1	Delegation of authority	(
3.3.2	Youth inclusion	
J.J.L	Collaboration	
3.3.3	Use of virtual social networks	1.
3.3.4	Use of virtual professional networks	1
1	RETAIN	1
1.1	Sustainability	1
1.1.1	Pension coverage	1
1.1.2	Social protection	
1.1.3	Brain retention	
1.1.4	Environmental performance	
4.1.5	Vulnerable employment	1.
4.2	Lifestyle	1.
4.2.1	Personal rights56.97	
4.2.2	Personal safety	1
4.2.3 4.2.4	Physician density.         0.00           Sanitation.         .25.09	1. 1
5	VOCATIONAL AND TECHNICAL SKILLS	12
5.1	Mid-Level Skills	1
5.1.1	Workforce with secondary education	1
5.1.2	Population with secondary education	
5.1.3	Technicians and associate professionals	1
5.1.4	Labour productivity per employee2.79	1
5.2	Employability48.05	
5.2.1	Ease of finding skilled employees	
5.2.2	Relevance of education system to the economy	
5.2.3 5.2.4	Skills matching	1
_		
5	GLOBAL KNOWLEDGE SKILLS4.82	13
5.1	High-Level Skills	1.
5.1.1	Workforce with tertiary education	1
5.1.2 5.1.3	Population with tertiary education	1
5.1.4	Researchers 0.10	1
5.1.5	Senior officials and managers	1
5.1.6	Digital skills	r
5.2	Talent Impact8.82	1.
5.2.1	Innovation output14.85	
5.2.2	High-value exports	1
5.2.3	Software development	1
5.2.4	New business density	1
5.2.5	Scientific journal articles	1

### **THAILAND**

Rank	(out of 134)		<b>79</b>	GDP	per capita (PPP US\$)	0,67	1.6
Incon	ne group	Upper-middle in	come		(US\$ billions)		
Regio	onal group <b>Eastern, Southeas</b>	tern Asia and Oce	eania	GTCI	score	4	10.7
Popul	lation (millions)		71.70	GTCI	score (income group average)	4	13.53
GT	CI 2023 Country Profile by Pillar				Sc	ore	Rank
				3	GROW40	.19	61
	Enable			3.1	Formal Education33	.50	63
	<b>I</b> <sup>100</sup> 90				Enrolment		
	180			3.1.1	Vocational enrolment		59 72
	Global +60	Attract		3.1.2	Tertiary enrolment	.40	/.
Kno	owledge Skills 50	Action		3.1.3	Tertiary education expenditure	.56	7
	30 20			3.1.4	Reading, maths, and science		6
				3.1.5	University ranking33		3
	/ <b>X</b>			3.2	Lifelong Learning39	.26	4
				3.2.1	Business masters education		2
		Mark .		3.2.2	Prevalence of training in firms		8
	ocational and	Grow		3.2.3 3.3	Employee development		6
Te	chnical Skills	diow		٥.٥	Empowerment	.00	0
	t			3.3.1	Delegation of authority	.47	7
	I			3.3.2	Youth inclusion		4
	Retain				Collaboration		
	<ul><li>Thailand</li><li>Incon</li></ul>	o group avers		3.3.3	Use of virtual social networks		5
	• manand • Incon	ne group average		3.3.4	Use of virtual professional networks	.91	10
		Score	Rank				
	ENABLE	43.79	65	4	RETAIN		8
	Regulatory Landscape	43.01	68	4.1	Sustainability53		7
.1	Government effectiveness		56	4.1.1 4.1.2	Pension coverage		-
2	Rule of law		58	4.1.3	Brain retention		
.3	Political stability		96	4.1.4	Environmental performance		8
.4 .5	Regulatory quality		64 81	4.1.5	Vulnerable employment45	.81	ç
2	Market Landscape		55	4.2	Lifestyle46		9
2.1	Extent of market dominance		100	4.2.1	Personal rights		11
2.2	Domestic credit to private sector	75.95	9	4.2.2	Personal safety		10
2.3	Cluster development		55	4.2.3 4.2.4	Physician density		8
2.4	R&D expenditure		32	7.2.7	Samtation		-
2.5 2.6	ICT infrastructure		25 100				_
3	Business and Labour Landscape		87	5	VOCATIONAL AND TECHNICAL SKILLS41.		8
-	Labour Market		0,	5.1 5.1.1	Mid-Level Skills		9
3.1	Labour rights	n/a	n/a	5.1.2	Population with secondary education		7
3.2	Labour-employer cooperation	47.64	61	5.1.3	Technicians and associate professionals		8
	Management Practice			5.1.4	Labour productivity per employee18	.36	7
3.3	Professional management		70	5.2	Employability60		6
3.4	Relationship of pay to productivity  Technology Adoption	57.83	55	5.2.1	Ease of finding skilled employees		7
3.5	Enterprise software	15 53	94	5.2.2 5.2.3	Relevance of education system to the economy		8 7
3.6	Cloud computing		36	5.2.4	Highly educated unemployment		/
3.7	Firms with website	41.59	74				
				6	GLOBAL KNOWLEDGE SKILLS25	.16	6
	ATTRACT		92	6.1	High-Level Skills		8
1	External Openness	38.00	86	6.1.1	Workforce with tertiary education21		8
1 1	Attract Business	20.65	76	6.1.2	Population with tertiary education		5
1.1 1.2	FDI regulatory restrictiveness		76 74	6.1.3 6.1.4	Professionals		Š
	Attract People		/-	6.1.4	Senior officials and managers		3
.3	Migrant stock	40.40	67	6.1.6	Digital skills		7
.4	International students		84	6.2	Talent Impact		5
.5	Brain gain		37	6.2.1	Innovation output43	.73	4
2	Internal Openness	50.75	84	6.2.2	High-value exports		
2 1	Social Inclusion	20.7-	63	6.2.3	Software development		
2.1 2.2	Tolerance of minorities  Tolerance of immigrants		92 125	6.2.4 6.2.5	New business density 6 Scientific journal articles 7		
2.2 2.3	Social mobility		81	U.Z.J	Selentine journal articles/	.∠0	(
	Gender Equality		91				
2.4	Economic empowerment of women	69.03	90				
2.5	Gender parity in high-skilled jobs		43				
	Leadership opportunities for women		22				

#### TRINIDAD AND TOBAGO

Incon	ne group H <b>igh in</b>	come	GDP	(US\$ billions)	2	27.90
	onal groupLatin America and the Caril			score		
Popu.	lation (millions)	1.53	GTCI	score (income group average)	6	61.91
GT	CI 2023 Country Profile by Pillar			Sc	core	Rank
	Enable		3	GROW		77
	<b>T</b> 100		3.1	Formal Education	8.15	101
	90 80		3.1.1	Vocational enrolment	n/a	n/a
	<b>+</b> 70		3.1.2	Tertiary enrolment		n/a
	Global 160 Attract			Quality		
Kno	wledge Skills		3.1.3	Tertiary education expenditure		n/a
	20		3.1.4	Reading, maths, and science		53
			3.1.5	University ranking		76
			3.2 3.2.1	Lifelong Learning		108 57
			3.2.2	Prevalence of training in firms.		n/a
7.7			3.2.3	Employee development		78
	ocational and Grow		3.3	Access to Growth Opportunities55		42
16	Cimical Girlio			Empowerment		
	ł		3.3.1	Delegation of authority		68
	-		3.3.2	Youth inclusion69	9.91	52
	Retain		3.3.3	Collaboration Use of virtual social networks	1.00	71
	Trinidad and Tobago     Income group average		3.3.3	Use of virtual professional networks		71 25
		Donle	3.3.1	ose of virtual professional networks	0.00	23
	Score	Rank	4	RETAIN66.	.53	46
1	ENABLE	85	4.1	Sustainability59		56
1.1	Regulatory Landscape	62	4.1.1	Pension coverage9		53
l.1.1 l.1.2	Government effectiveness	59 70	4.1.2	Social protection35	5.26	93
1.1.3	Political stability	54	4.1.3	Brain retention		56
1.1.4	Regulatory quality	77	4.1.4	Environmental performance		47
1.1.5	Corruption	63	4.1.5	Vulnerable employment		56
1.2	Market Landscape	114	4.2 4.2.1	Lifestyle		50 39
1.2.1	Extent of market dominance	132	4.2.1	Personal safety		70
1.2.2	Domestic credit to private sector	82	4.2.3	Physician density		38
1.2.3 1.2.4	Cluster development	89 109	4.2.4	Sanitation		67
1.2.4	R&D expenditure	95				
1.2.6	Urbanisation	94	5	VOCATIONAL AND TECHNICAL SKILLS	20	25
1.3	Business and Labour Landscape	73	5.1	Mid-Level Skills		<b>35</b> 21
	Labour Market		5.1.1	Workforce with secondary education		6
1.3.1	Labour rights	70	5.1.2	Population with secondary education		n/a
1.3.2	Labour-employer cooperation	132	5.1.3	Technicians and associate professionals		25
	Management Practice		5.1.4	Labour productivity per employee	7.85	47
1.3.3	Professional management	73	5.2	Employability60		61
1.3.4	Relationship of pay to productivity	115	5.2.1	Ease of finding skilled employees		57
1.3.5	Enterprise software	n/a	5.2.2 5.2.3	Relevance of education system to the economy		85 75
1.3.6	Cloud computing	n/a	5.2.3	Skills matching		17
1.3.7	Firms with website	n/a	3.2.1	riigiiiy caacaca aheriipioyinen	0.10	17
			6	GLOBAL KNOWLEDGE SKILLS20	.79	84
2	ATTRACT54.74	49	6.1	High-Level Skills		72
2.1	External Openness	57	6.1.1	Workforce with tertiary education		132
2.1.1	Attract Business  FDI regulatory restrictiveness	n/a	6.1.2	Professionals 11		n/a
2.1.1	Financial globalisation	11/a 57	6.1.3 6.1.4	Professionals		89 62
	Attract People	5,	6.1.5	Senior officials and managers		8
2.1.3	Migrant stock	66	6.1.6	Digital skills		n/a
2.1.4	International students	n/a	6.2	Talent Impact		88
2.1.5	Brain gain	76	6.2.1	Innovation output13		101
2.2	Internal Openness	50	6.2.2	High-value exports		132
	Social Inclusion		6.2.3	Software development		76
2.2.1 2.2.2	Tolerance of minorities	28 82	6.2.4 6.2.5	New business density		32 75
2.2.2	Social mobility	82 59	0.2.3	Selentific journal articles	J.U∠	/3
)	30ciai mobility47.20	JJ				

99

59

Gender Equality

#### **TUNISIA**

Vocational and

Tunisia

Technical Skills

Key Indicators	
Income group	92 Lower-middle income Northern Africa and Western Asia 12.36
GTCI 2023 Country Profile by P	illar
Global Knowledge Skills	Enable  100 90 80 70 60 50 Attract

Retain

Grow

Score Rank

117 107

Income group average

1	ENABLE	77
1.1	Regulatory Landscape	80
1.1.1	Government effectiveness	81
1.1.2	Rule of law	59
1.1.3	Political stability43.08	104
1.1.4	Regulatory quality32.02	92
1.1.5	Corruption	68
1.2	Market Landscape	80
1.2.1	Extent of market dominance	124
1.2.2	Domestic credit to private sector59.42	37
1.2.3	Cluster development	110
1.2.4	R&D expenditure	48
1.2.5	ICT infrastructure	69
1.2.6	Urbanisation	56
1.3	Business and Labour Landscape	79
1.3.1	Labour rights	62
1.3.1	Labour rights	107
1.5.2	Management Practice	107
1.3.3	Professional management	87
1.3.4	Relationship of pay to productivity	111
1.3.5	Enterprise software	56
1.3.6	Cloud computing	53
1.3.7	Firms with website	58
2	ATTRACT34.92	121
2.1	External Openness	111
	Attract Business	1111
2.1.1	FDI regulatory restrictiveness54.05	66
2.1.2	Financial globalisation	84
2.1.3	Migrant stock	123
2.1.4	International students	68
2.1.5	Brain gain	119
2.2	Internal Openness	119
	Social Inclusion	
2.2.1	Tolerance of minorities	99
2.2.2	Tolerance of immigrants	91
2.2.3	Social mobility	90
	Gender Equality	

 2.2.4
 Economic empowerment of women.
 .49.56

 2.2.5
 Gender parity in high-skilled jobs.
 .39.64

 2.2.6
 Leadership opportunities for women
 .43.46

	score	
GTCI	score (income group average)	32.0
	Score	Rar
3	GROW	9
3.1	Formal Education23.62	8
	Enrolment	
3.1.1 3.1.2	Vocational enrolment	
3.1.2	Quality	
3.1.3	Tertiary education expenditure	
3.1.4	Reading, maths, and science	
3.1.5	University ranking	
3.2	Lifelong Learning	
3.2.1	Business masters education	
3.2.2	Prevalence of training in firms	
3.2.3 3.3	Employee development	1
5.5	Access to Growth Opportunities	10
3.3.1	Delegation of authority	1
3.3.2	Youth inclusion	1
	Collaboration	
3.3.3	Use of virtual social networks54.18	
3.3.4	Use of virtual professional networks	
4	RETAIN55.62	
4.1	Sustainability	
4.1.1	Pension coverage	1
4.1.2 4.1.3	Social protection	1
4.1.4	Environmental performance	'
4.1.5	Vulnerable employment	
4.2	Lifestyle	
4.2.1	Personal rights	
4.2.2	Personal safety	
4.2.3	Physician density19.36	
4.2.4	Sanitation	
5	VOCATIONAL AND TECHNICAL SKILLS32.91	10
5.1	Mid-Level Skills	
5.1.1	Workforce with secondary education	
5.1.2	Population with secondary education	r
5.1.3	Technicians and associate professionals	
5.1.4	Labour productivity per employee21.31	
5.2	Employability36.62	1
5.2.1	Ease of finding skilled employees	
5.2.2 5.2.3	Relevance of education system to the economy29.53 Skills matching	
5.2.4	Highly educated unemployment	1
5	GLOBAL KNOWLEDGE SKILLS 28.55	
5.1	High-Level Skills	
6.1.1 6.1.2	Workforce with tertiary education	r
6.1.3	Professionals	
6.1.4	Researchers	
6.1.5	Senior officials and managers	
6.1.6	Digital skills67.39	
6.2	Talent Impact	
6.2.1	Innovation output	
6.2.2	High-value exports	
6.2.3 6.2.4	Software development	
5.2.4 5.2.5	New business density	
ر.۷.	Scientific journal articles	

# **TÜRKIYE**

Key Indicators		
Rank (out of 134) Income group		Upper-middle income
Regional group Population (millions)		
GTCI 2023 Country Profile by	y Pillar	
Global Knowledge Skills	Enable  100 90 80 70 60 50 40 10	Attract
Vocational and Technical Skills		Grow

Retain

Income group average

Score Rank

69 104

Türkiye

1	ENABLE37.72	90
1.1	Regulatory Landscape	89
1.1.1	Government effectiveness	76
1.1.2	Rule of law	89
1.1.3	Political stability32.62	121
1.1.4	Regulatory quality39.97	76
1.1.5	Corruption	81
1.2	Market Landscape49.83	51
1.2.1	Extent of market dominance35.16	79
1.2.2	Domestic credit to private sector	57
1.2.3	Cluster development	56
1.2.4	R&D expenditure	39
1.2.5	ICT infrastructure	41
1.2.6	Urbanisation	43
1.3	Business and Labour Landscape28.61	126
	Labour Market	
1.3.1	Labour rights	89
1.3.2	Labour-employer cooperation	121
	Management Practice	
1.3.3	Professional management	100
1.3.4	Relationship of pay to productivity	118
	Technology Adoption	
1.3.5	Enterprise software	126
1.3.6	Cloud computing	111
1.3.7	Firms with website	67
2	ATTRACT38.70	107
2.1	External Openness	78
	Attract Business	
2.1.1	FDI regulatory restrictiveness	37
2.1.2	Financial globalisation41.20	104
	Attract People	
2.1.3	Migrant stock	52
2.1.4	International students8.21	74
2.1.5	Brain gain	115
2.2	Internal Openness	124
	Social Inclusion	
2.2.1	Tolerance of minorities	132
2.2.2	Tolerance of immigrants	94
2.2.3	Social mobility	121
	Gondor Fauglity	

GDP (	(US\$ billions)	05.
	score	
TCI	score (income group average)	43.
	Score	Ra
	GROW42.71	
.1	Formal Education	
	Enrolment	
1.1	Vocational enrolment	
1.2	Ouality	
1.3	Tertiary education expenditure	
1.4	Reading, maths, and science52.41	
1.5	University ranking24.42	
2	Lifelong Learning	
2.1	Business masters education	
2.2 2.3	Prevalence of training in firms	1
3	Access to Growth Opportunities	
	Empowerment	
3.1	Delegation of authority	
3.2	Youth inclusion	
	Collaboration	
3.3	Use of virtual social networks	
3.4	Use of virtual professional networks	
	RETAIN53.08	
1	Sustainability	
1.1	Pension coverage	
1.2	Social protection	
1.3	Brain retention	
1.4	Environmental performance	
1.5	Vulnerable employment	
2	Lifestyle53.79	
2.1	Personal rights	
2.2 2.3	Personal safety         63.54           Physician density         31.74	
2.4	Sanitation	
	VOCATIONAL AND TECHNICAL SKILLS41.37	
1	Mid-Level Skills	
1.1 1.2	Workforce with secondary education	
1.3	Technicians and associate professionals	
1.4	Labour productivity per employee	
2	Employability	
2.1	Ease of finding skilled employees	
2.2	Relevance of education system to the economy	
2.3	Skills matching	
2.4	Highly educated unemployment54.98	
	GLOBAL KNOWLEDGE SKILLS27.64	
1	High-Level Skills	
1.1	Workforce with tertiary education	
1.2	Population with tertiary education	
1.3	Professionals	
1.4 1.5	Researchers	
1.5	Senior officials and managers         32.40           Digital skills         12.69	
2	Talent Impact	
2.1	Innovation output	
2.2	High-value exports5.77	
2.3	Software development58.56	
2.4 2.5	New business density	

2.2.4Economic empowerment of women..75.222.2.5Gender parity in high-skilled jobs..46.24

2.2.6 Leadership opportunities for women .......27.60

Gender Equality

## **UGANDA**

Second   S	Incor Regio	onal group	Low ir	Africa	GDP GTCI	per capita (PPP US\$)	45.56 25.71
Probable   33   GROW   1159   1164   1159   1164   1159   1164   1159   1164	Popu	lation (millions)		47.25	GTCI	score (income group average)	22.85
Semant   S	GT	CI 2023 Country Profile by Pillar				Score	Rank
Section   1999   1998		F	nahla		3		114
March   Marc		<u>n</u>			3.1		121
State   Stat					311		95
Security of State   13   13   Security of State   13   14   Security of State   13   14   Security of State   13   14   Security of State   13   14   Security of State   13   14   Security of State   13   14   Security of State   13   14   Security of State   13   14   Security of State   13   14   Security of State   13   14   Security of State   13   14   Security of State   13   14   Security of State   13   14   Security of State   13   13   Security of State   13   14   Security of State   13   14   Security of State   13   14   Security of State   13   14   Security of State   13   14   Security of State   13   14   Security of State   13   14   Security of State   13   Security			70				
Weatland and   Technical Skills	17					Quality	
Vocational and	Kno	owiedge Skills	140				
Vivcational and		The same of the sa	20				
Vocational and			*/				
Vicational and Technical Skills			The state of the s		3.2.1		57
Technical Skills			1 ***			9	
Retain    Score   Rank   Score   Ran	V	ocational and	- Crow				
Retain  Retain  Retain  1 3.3.1 Delegation of authority. 37.95 45  Collaboration 73.95 45  Score Rank  1 ENBELE 28.60 118  1.1 Regulatory Landscape 39.09 109  1.1 Government effectiveness 28.04 100 4.11  1.1 Government effectiveness 28.04 100 4.11  1.1 Regulatory Landscape 39.09 109  1.2 Market Landscape 39.09 109  1.2 Market Landscape 39.09 109  1.2 Domestic cedit to private sector 59.80 118  1.2 Domestic cedit to private sector 59.80 118  1.2 Domestic Cedit to private sector 59.80 118  1.2 Landscape 39.90 109  1.2 Landscape 39.90 109  1.2 Landscape 39.90 109  1.2 Landscape 39.90 109  1.2 Landscape 39.90 109  1.2 Landscape 39.90 109  1.2 Landscape 39.90 109  1.2 Landscape 39.90 109  1.2 Landscape 39.90 109  1.2 Landscape 39.90 109  1.2 Personal fallsty 109.90 109  1.2 Personal fallsty 109.90 109  1.2 Personal fallsty 109.90 109  1.2 Personal fallsty 109.90 109  1.2 Landscape 39.90 109  1.2 Landscape 39.90 109  1.2 Landscape 39.90 109  1.2 Landscape 39.90 109  1.2 Landscape 39.90 109  1.2 Landscape 39.90 109  1.2 Personal fallsty 109.90 109  1.2 Personal fallsty 109.90 109  1.2 Landscape 39.90 109  1.2 Personal fallsty 109.90 109  1.2 Personal fallsty 109.90 109  1.2 Personal fallsty 109.90 109  1.2 Personal fallsty 109.90 109  1	Te	echnical Skills	‡ Glow		3.3	The state of the s	105
Retain			‡		3.3.1	· ·	74
Score   Fank   Scor			1		3.3.2	Youth inclusion	45
Name		R	etain				
Temporary   Part		<ul> <li>Uganda</li> </ul>	<ul> <li>Income group average</li> </ul>				
ENABLE					3.3.4	ose of virtual professional networks	113
National   Sustainability   25.42   Italia   Sustainability   25.42   Italia   Social protection   3.03   Italia   Social protection   3.04   Italia   Social protection   3.05   Italia   Social protection   3.07   Italia   Italia   Social protection   3.07   Italia   Ita			Score	Rank	_	DETAIN 40.63	
	1	ENABLE	28.60	118			
1.1   Regulatory quality   38.82   10   11.2   Rule of law   5.593   84   1.3   8   11.3   Regulatory quality   38.82   11.3   Political stability   38.82   11.3   Political stability   38.82   11.3   Political stability   38.82   11.3   Political stability   38.82   11.3   Political stability   38.82   11.3   Political stability   38.82   11.3   Political stability   38.82   11.3   Political stability   38.82   11.3   Political stability   38.82   11.3   Political stability   38.82   Political stability   38.82   Political stability   23.3   Political stabil							
1.13   Political stability						9	
1.1.1   Regulatroy quality					4.1.3	Brain retention	98
1.15		*					
Market Landscape	1.1.5	2 , , ,		116			
According to the computing of the computation of		the state of the s					
2.24   August   Aug						9	
1.24							
CT infrastructure					4.2.4	Sanitation	129
1.3   Business and Labour Landscape.   35.93   102   5.1   Micf-Level Skills   1.2.56   114		ICT infrastructure					
Labour Market Labour Market Labour rights					5	VOCATIONAL AND TECHNICAL SKILLS	102
1.3.1   Labour rights.	1.3	· · · · · · · · · · · · · · · · · · ·	De35.93	102			
Labour-employer cooperation	1.3.1		80.43	59			
Management Practice		•					
Relationship of pay to productivity.		Management Practice					
Technology Adoption					5.2	Employability54.43	79
1.3.5       Enterprise software       16.89       88       5.2.3       Skills matching       42.02       88         1.3.6       Cloud computing       7.43       115       5.2.4       Highly educated unemployment       78.10       61         1.3.7       Firms with website       11.21       107       6       GLOBAL KNOWLEDGE SKILLS       8.24       120         2       ATTRACT       42.22       97       6.1       High-Level Skills       5.18       121         2.1       External Openness       40.05       82       6.1.1       Workforce with tertiary education       9.01       78         2.1.1       FDI regulatory restrictiveness       .n/a       n/a       6.1.3       Professionals       5.26       125         2.1.2       Financial globalisation       34.21       114       6.1.4       Researchers       0.20       103         Attract People       6.1.5       Senior officials and managers       2.262       125         2.1.3       Migrant stock       34.38       80       6.1.6       Digital skills       .n/a       n/a         2.1.4       International students       .n/a       n/a       6.2       Talent Impact       11.30       117         2.	1.3.4		vity46./4	93			
1.3.6   Cloud computing	1.3.5	37	16.89	88			
ATTRACT		'					
2       ATTRACT.       42.22       97       6.1       High-Level Skills       5.18       121         2.1       External Openness       40.05       82       6.1.1       Workforce with tertiary education       8.79       106         Attract Business       6.1.2       Population with tertiary education       9.01       78         2.1.1       FDI regulatory restrictiveness       .n/a       n/a       6.1.3       Professionals       5.26       125         2.1.2       Financial globalisation       .34.21       114       6.1.4       Researchers       0.20       103         Attract People       6.1.5       Senior officials and managers       2.62       121         2.1.3       Migrant stock       3.4.38       80       6.1.6       Digital skills       .n/a       n/a         2.1.4       International students       .n/a       n/a       6.2       Talent Impact       11.30       117         2.1.5       Brain gain       .51.55       55       6.2.1       Innovation output       9.08       116         2.2       Internal Openness       .44.38       110       6.2.2       High-value exports       .38.48       110         2.2.1       Tolerance of immigrants	1.3.7	Firms with website	11.21	107			
2       ATTRACT.       42.22       97       6.1       High-Level Skills       5.18       121         2.1       External Openness       40.05       82       6.1.1       Workforce with tertiary education       8.79       106         Attract Business       6.1.2       Population with tertiary education       9.01       78         2.1.1       FDI regulatory restrictiveness       .n/a       n/a       6.1.3       Professionals       5.26       125         2.1.2       Financial globalisation       .34.21       114       6.1.4       Researchers       0.20       103         Attract People       6.1.5       Senior officials and managers       2.62       121         2.1.3       Migrant stock       3.4.38       80       6.1.6       Digital skills       .n/a       n/a         2.1.4       International students       .n/a       n/a       6.2       Talent Impact       11.30       117         2.1.5       Brain gain       .51.55       55       6.2.1       Innovation output       9.08       116         2.2       Internal Openness       .44.38       110       6.2.2       High-value exports       .38.48       110         2.2.1       Tolerance of immigrants					6	GLOBAL KNOWLEDGE SKILLS	120
2.1       External Openness Attract Business       40.05       82       6.1.1       Workforce with tertiary education       8.79       106         2.1.1       FDI regulatory restrictiveness       .n/a       n/a       6.1.2       Population with tertiary education       9.01       78         2.1.2       Financial globalisation       .34.21       114       6.1.4       Researchers       0.20       103         Attract People       6.1.5       Senior officials and managers       2.62       121         2.1.3       Migrant stock       3.4.38       80       6.1.6       Digital skills       .n/a       n/a         2.1.4       International students       .n/a       n/a       6.2       Talent Impact       11.30       117         2.1.5       Brain gain       .51.55       55       6.2.1       Innovation output       9.08       116         2.2       Internal Openness       .44.38       110       6.2.2       High-value exports       .36.3       96         Social Inclusion       .9.15       10.5       6.2.4       New business density       .4.56       86         2.2.1       Tolerance of immigrants       .33.85       114       6.2.5       Scientific journal articles       0.76       11	2	ATTRACT	42.22	97			
2.1.1       FDI regulatory restrictiveness       .n/a       n/a       61.3       Professionals       5.26       125         2.1.2       Financial globalisation       .34.21       114       61.4       Researchers       0.20       103         Attract People       6.1.5       Senior officials and managers       2.62       121         2.1.3       Migrant stock       .34.38       80       61.6       Digital skills       .n/a       n/a         2.1.4       International students       .n/a       n/a       6.2       Talent Impact       .11.30       117         2.1.5       Brain gain       .51.55       55       6.2.1       Innovation output       .90.8       116         2.2       Internal Openness       .44.38       110       6.2.2       High-value exports       .36.3       96         Social Inclusion       6.2.3       Software development       .38.48       110         2.2.1       Tolerance of minorities       .19.15       105       6.2.4       New business density       .4.56       86         2.2.2       Tolerance of immigrants       .33.85       114       6.2.5       Scientific journal articles       .0.76       110         2.2.3       Social mobility	2.1			82	6.1.1	Workforce with tertiary education8.79	106
2.1.2       Financial globalisation       .34.21       114       6.1.4       Researchers       .0.20       103         Attract People       6.1.5       Senior officials and managers       .2.62       121         2.1.3       Migrant stock       .34.38       80       6.1.6       Digital skills       .n/a       n/a         2.1.4       International students       .n/a       n/a       6.2       Talent Impact       .11.30       117         2.1.5       Brain gain       .51.55       55       6.2.1       Innovation output       .9.08       116         2.2       Internal Openness       .44.38       110       6.2.2       High-value exports       .3.63       .96         Social Inclusion       6.2.3       Software development       .38.48       110         2.2.1       Tolerance of minorities       .19.15       105       6.2.4       New business density       .4.56       86         2.2.2       Tolerance of immigrants       .33.85       114       6.2.5       Scientific journal articles       .0.76       110         2.2.3       Social mobility       .45.37       64 <td>211</td> <td></td> <td>- /-</td> <td>- /-</td> <td></td> <td></td> <td></td>	211		- /-	- /-			
Attract People         6.1.5         Senior officials and managers         2.62         121           2.1.3         Migrant stock         .34.38         80         6.1.6         Digital skills         .n/a         n/a           2.1.4         International students         .n/a         n/a         6.2         Talent Impact         .11.30         117           2.1.5         Brain gain         .51.55         55         6.2.1         Innovation output         .9.08         116           2.2         Internal Openness         .44.38         110         6.2.2         High-value exports         .3.63         96           Social Inclusion         6.2.3         Software development         .38.48         110           2.2.1         Tolerance of minorities         .19.15         105         6.2.4         New business density         .45.6         86           2.2.2         Tolerance of immigrants         .33.85         114         6.2.5         Scientific journal articles         .0.76         110           2.2.3         Social mobility         .45.37         64         .62.5         Scientific journal articles         .0.76         100           2.2.4         Economic empowerment of women         .73.45         74         .73.45 </td <td></td> <td>- · · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td>		- · · · · · · · · · · · · · · · · · · ·					
2.1.3       Migrant stock       .34.38       80       61.6       Digital skills       .n/a       n/a         2.1.4       International students       .n/a       n/a       6.2       Talent Impact       .11.30       117         2.1.5       Brain gain       .51.55       55       6.2.1       Innovation output       .908       116         2.2       Internal Openness       .44.38       110       6.2.2       High-value exports       .36.3       .96         Social Inclusion       .51.51       105       6.2.4       New business density       .45.6       86         2.2.1       Tolerance of minorities       .33.85       114       6.2.5       Scientific journal articles       .0.76       110         2.2.2       Tolerance of immigrants       .33.85       114       6.2.5       Scientific journal articles       .0.76       110         2.2.3       Social mobility       .45.37       64       .5	2.11.2	_					
2.1.5     Brain gain     .51.55     55     6.2.1     Innovation output     .9.08     116       2.2     Internal Openness     .44.38     110     6.2.2     High-value exports     .3.63     .96       Social Inclusion     6.2.3     Software development     .38.48     110       2.2.1     Tolerance of minorities     .19.15     105     6.2.4     New business density     .4.56     86       2.2.2     Tolerance of immigrants     .33.85     114     6.2.5     Scientific journal articles     .0.76     110       2.2.3     Social mobility     .45.37     64       Gender Equality       2.2.4     Economic empowerment of women     .73.45     .74       2.2.5     Gender parity in high-skilled jobs     .47.31     102	2.1.3	Migrant stock		80			
2.2     Internal Openness     .44.38     110     6.2.2     High-value exports     .3.63     96       Social Inclusion     6.2.3     Software development     .38.48     110       2.2.1     Tolerance of minorities     19.15     105     6.2.4     New business density     .4.56     86       2.2.2     Tolerance of immigrants     .33.85     114     6.2.5     Scientific journal articles     .0.76     110       2.2.3     Social mobility     .45.37     64       Gender Equality       2.2.4     Economic empowerment of women     .73.45     .74       2.2.5     Gender parity in high-skilled jobs     .47.31     102							
Social Inclusion   19.15   105   6.2.3   Software development   38.48   110		9					
2.2.1       Tolerance of minorities       19.15       105       6.2.4       New business density       4.56       86         2.2.2       Tolerance of immigrants       33.85       114       6.2.5       Scientific journal articles       0.76       110         2.2.3       Social mobility       45.37       64	2.2	· ·	44.38	110			
2.2.2       Tolerance of immigrants       .33.85       114       6.2.5       Scientific journal articles       .0.76       110         2.2.3       Social mobility       .45.37       64         Gender Equality       .2.24       Economic empowerment of women       .73.45       74         2.2.5       Gender parity in high-skilled jobs       .47.31       102	2.2.1		19.15	105		•	
2.2.4     Economic empowerment of women.     .73.45     74       2.2.5     Gender parity in high-skilled jobs.     .47.31     102							
2.2.4     Economic empowerment of women.     .73.45     74       2.2.5     Gender parity in high-skilled jobs.     .47.31     102	2.2.3		45.37	64			
2.2.5 Gender parity in high-skilled jobs	224		20.45	7.4			

#### **UKRAINE**

Rank (out of 134)		64
Income group		Lower-middle income
Regional group		Europe
Population (millions)		
GTCI 2023 Country Profile by P	illar	
	Enable	
Global	100 90 80 70 60 50	Attract مر

Global Knowledge Skills Vocational and Technical Skills		80 70 60 50 20 10	Attract
		Retain	
•	Ukraine	<ul><li>Income group</li></ul>	average

Score Rank

ABLE         40.44           gulatory Landscape.         29.96           vernment effectiveness         32.66           le of law         27.75           litical stability         32.60           gulatory quality         34.88           rruption         21.92           grket Landscape         40.47           sent of market dominance         33.03           mestic credit to private sector         28.17           sister development         33.38           D expenditure         75.32           infrastructure         78.14           anaisation         64.76           siness and Labour Landscape         50.90           boour rights         87.40           boour-employer cooperation         39.20           inagement Practice         36.57           ofessional management         36.57           ationship of pay to productivity         58.23           chnology Adoption         46.74	75 106 94 108 122 86 87 88 86 105 94 77 36 55 39 46 83 97 52 24
e of law	94 108 122 86 95 78 86 105 94 77 36 55 39 46 83
le of law	108 122 86 95 78 86 105 94 77 36 55 39 46 83
litical stability     32.60       gulatory quality     34.88       rruption     21.92       rent of market dominance     33.03       mestic credit to private sector     28.17       ister development     33.38       Dependiture     5.32       infrastructure     78.14       panisation     64.76       osiness and Labour Landscape     50.90       pour rights     87.40       pour remployer cooperation     39.20       unagement Practice     10.57       ofessional management     36.57       attionship of pay to productivity     58.23       chnology Adoption	122 86 95 78 86 105 94 77 36 55 39 46 83
gulatory quality     34.88       rruption     21.92       rket Landscape     40.47       zent of market dominance     33.03       mestic credit to private sector     28.17       ister development     33.38       D expenditure     5.32       infrastructure     78.14       banisation     64.76       siness and Labour Landscape     50.90       boour Market       boour employer cooperation     39.20       unagement Practice       ofessional management     36.57       ationship of pay to productivity     58.23       chnology Adoption	86 95 78 86 105 94 77 36 55 39 46 83
gulatory quality     34.88       rruption     21.92       rket Landscape     40.47       zent of market dominance     33.03       mestic credit to private sector     28.17       ister development     33.38       D expenditure     5.32       infrastructure     78.14       banisation     64.76       siness and Labour Landscape     50.90       boour Market       boour employer cooperation     39.20       unagement Practice       ofessional management     36.57       ationship of pay to productivity     58.23       chnology Adoption	95 78 86 105 94 77 36 55 39 46 83
truption         21.92           urket Landscape         40.47           tent of market dominance         33.03           mestic credit to private sector         28.17           ster development         33.38           D expenditure         5.32           infrastructure         78.14           banisation         .64.76           siness and Labour Landscape         50.90           bour Market         .90           bour employer cooperation         39.20           unagement Practice         .90           ofessional management         36.57           ationship of pay to productivity         58.23           chnology Adoption         .92	78 86 105 94 77 36 55 39 46 83
urket Landscape.     40.47       vent of market dominance.     33.03       mestic credit to private sector     28.17       ister development.     33.38       De expenditure.     5.32       infrastructure.     78.14       panisation     64.76       siness and Labour Landscape.     50.90       pour Market       pour-employer cooperation.     39.20       unagement Practice       ofessional management.     36.57       ationship of pay to productivity.     58.23       chnology Adoption	86 105 94 77 36 55 39 46 83
tent of market dominance	105 94 77 36 55 39 46 83
mestic credit to private sector         28.17           ister development         33.38           D expenditure         5.32           infrastructure         78.14           banisation         64.76           siness and Labour Landscape         50.90           bour Market         50.90           bour rights         87.40           bour-employer cooperation         39.20           ingegement Practice         36.57           ationship of pay to productivity         58.23           chnology Adoption	105 94 77 36 55 39 46 83
aster development.     .33.38       D expenditure.     .5.32       infrastructure.     .78.14       panisation     .64.76       siness and Labour Landscape     .50.90       pour Market     .87.40       pour-employer cooperation     .39.20       unagement Practice     .65.79       ofessional management     .36.57       ationship of pay to productivity     .58.23       chnology Adoption	94 77 36 55 39 46 83
D expenditure.       5.32         Infrastructure.       .78.14         panisation       .64.76         siness and Labour Landscape       50.90         pour Market	36 55 39 46 83 97 52
infrastructure	55 39 46 83 97 52
panisation	55 39 46 83 97 52
siness and Labour Landscape	39 46 83 97 52
pour Market sour rights	46 83 97 52
poour rights	83 97 52
pour-employer cooperation	83 97 52
nagement Practice fessional management	97 52
fessional management	52
ationship of pay to productivity	52
chnology Adoption	
	24
terprise software46./4	24
1	
oud computing	31
ms with website	44
TRACT	57
ternal Openness	51
ract Business	
l regulatory restrictiveness	56
	46
9	
	42
	50
	80
9	68
cial Inclusion	00
erance of minorities41.49	71
erance of immigrants55.38	76
cial mobility	102
nder Equality	
	59
	78
	49
	ernal Openness         51.65           ract Business         68.38           regulatory restrictiveness         .68.38           ancial globalisation         .72.48           ract People         .58.64           grant stock         .58.64           grant students         .17.74           in gain         .41.03           gernal Openness         .55.22           cial Inclusion         gerance of minorities         .41.49           gerance of immigrants         .55.38           cial mobility         .34.04

Score   Scor		score (income group average)	32.0
Formal Education		Score	Ran
Formal Education	2	GROW 35.87	6
Enrolment Vocational enrolment			5
3.1.1   Vocational enrolment	).1		ر
3.1.2       Tertiary enrolment       .54.37         Quality       .60.45         3.1.4       Reading, maths, and science       .52.50         3.1.5       University ranking       .20.16         3.1.5       University ranking       .20.16         3.2.1       Business masters education       .00.0         3.2.2       Prevalence of training in firms       .27.09         3.2.3       Employee development       .39.90         3.3       Access to Growth Opportunities       .45.83         Empowerment       .31.10         3.3.1       Delegation of authority       .31.11         3.3.2       Youth inclusion       .67.44         Collaboration       .67.44         Collaboration       .69.36         3.3.3       Use of virtual social networks       .69.36         4.1       Sustainability       .63.85         4.1.1       Sustainability       .63.85         4.1.1       Pension coverage       .96.16         4.1.2       Social protection       .68.41         4.1.3       Brain retention       .17.86         4.1.4       Environmental performance       .52.03         4.1.5       Vulnerable employment       .84.78<	0 1 1		8
Quality         Quality           3.1.1         Tertiary education expenditure         .60.45           3.1.2         Reading, maths, and science         .52.50           3.1.5         University ranking         .20.16           3.2.1         Business masters education         .00.00           3.2.2         Prevalence of training in firms         .27.09           3.2.3         Employee development         .39.90           3.3         Access to Growth Opportunities         .45.83           Empowerment         .31.01           3.3.1         Delegation of authority         .31.01           3.3.2         Youth inclusion         .67.44           Collaboration         .69.36           3.3.4         Use of virtual social networks         .69.36           3.3.4         Use of virtual professional networks         .15.52           4.1         Sustainability         .63.85           4.1.1         Pension coverage         .96.16           4.1.2         Social protection         .68.41           4.1.3         Brain retention         .17.86           4.1.4         Environmental performance         .52.03           4.1.5         Uulnerable employment         .84.78			2
3.1.3       Tertiary education expenditure       .60.45         3.1.4       Reading, maths, and science       .52.50         3.1.5       University ranking       .20.16         3.2       Lifelong Learning       .22.33         3.2.1       Business masters education       .000         3.2.2       Prevalence of training in firms       .27.09         3.2.3       Employee development       .39.90         3.3       Access to Growth Opportunities       .45.83         Empowerment       .31.01         3.3.1       Delegation of authority       .31.01         3.3.2       Youth inclusion       .67.44         Collaboration       .67.44       .69.36         3.3.3       Use of virtual social networks       .69.36         3.3.4       Use of virtual professional networks       .15.52         4       RETAIN       .65.12         4.1       Sustainability       .63.85         4.1.1       Penson coverage       .96.16         4.1.2       Social protection       .68.41         4.1.3       Brain retention       .17.86         4.1.4       Environmental performance       .52.03         4.1.5       Vulnerable employment       .84.78 <td>0.1.2</td> <td></td> <td></td>	0.1.2		
8.1.4       Reading, maths, and science       .52.50         8.1.5       University ranking       .20.16         8.2.1       Lifelong Learning       .22.33         8.2.1       Business masters education       .000         8.2.2       Prevalence of training in firms       .27.09         8.2.2       Employee development       .39.90         8.3       Access to Growth Opportunities       .45.83         Empowerment       .31.10         8.3.1       Delegation of authority       .31.01         8.3.2       Youth inclusion       .67.44         Collaboration       .67.44       .60.36         8.3.3.4       Use of virtual social networks       .69.36         8.3.3.4       Use of virtual professional networks       .15.52         4.1       Sustainability       .63.85         8.1.1       Pension coverage       .96.16         8.1.2       Social protection       .68.41         8.1.3       Brain retention       .17.86         8.1.4       Provision coverage       .96.16         8.1.2       Vulnerable employment       .84.78         8.2       Lifestyle       .66.40         8.2.1       Personal safety       .50.4	212		5
3.1.5       University ranking.       20.16         3.2       Lifelong Learning.       22.33         3.2.1       Business masters education.       .0.00         3.2.2       Prevalence of training in firms.       27.09         3.2.3       Employee development       .39.90         3.3       Access to Growth Opportunities       .45.83         Empowerment       .31.01         3.3.1       Delegation of authority       .31.01         3.3.2       Youth inclusion       .67.44         Collaboration       .67.44         3.3.3       Use of virtual social networks       .69.36         3.3.4       Use of virtual professional networks       .15.52         4.1       Sustainability       .63.85         4.1.1       Sustainability       .63.85         4.1.1       Pension coverage       .96.16         4.1.2       Social protection       .68.41         4.1.3       Brain retention       .17.86         4.1.4       Environmental performance       .52.03         4.1.5       Vulnerable employment       .84.78         4.2.1       Personal rights       .70.44         4.2.2       Personal safety       .50.64         4.2			3
3.2.1       Lifelong Learning       22.33         3.2.1       Business masters education       .0.00         3.2.2       Prevalence of training in firms       .27.09         3.2.3       Employee development       .39.90         3.3       Access to Growth Opportunities       .45.83         Empowerment       .31.01         3.3.1       Delegation of authority       .31.01         3.3.2       Youth inclusion       .67.44         Collaboration       .67.44         3.3.3       Use of virtual social networks       .69.36         3.3.4       Use of virtual professional networks       .15.52         4.       RETAIN       .65.12         4.1       Sustainability       .63.85         4.1.1       Sustainability       .63.85         4.1.1       Persion coverage       .96.16         4.1.2       Social protection       .68.41         4.1.3       Brain retention       .17.86         4.1.4       Environmental performance       .52.03         4.1.5       Vulnerable employment       .84.78         4.2       Lifestyle       .66.40         4.2.1       Personal rights       .70.44         4.2.2       Perso			5
3.2.1         Business masters education.         .0.00           3.2.2         Prevalence of training in firms.         .27.09           3.2.3         Employee development         .39.90           3.3         Access to Growth Opportunities         .45.83           Empowerment         .31.01           3.3.1         Delegation of authority         .31.01           3.3.2         Youth inclusion         .67.44           Collaboration         .67.44           Collaboration         .69.36           3.3.4         Use of virtual social networks         .69.36           3.3.4         Use of virtual professional networks         .15.52           4         RETAIN.         .65.12           4.1.1         Sustainability         .63.85           4.1.1         Pension coverage         .96.16           4.1.2         Social protection         .68.41           4.1.3         Brain retention         .17.86           4.1.4         Environmental performance         .52.03           4.1.5         Uiderable employment         .84.78           4.1.5         Lifestyle         .66.40           4.2.1         Personal afety.         .50.44           4.2.2         Personal		, <u> </u>	11
3.2.2         Prevalence of training in firms.         .27.09           3.2.3         Employee development         .39.90           3.3.1         Access to Growth Opportunities         .45.83           Empowerment         .31.01           3.3.1         Delegation of authority         .31.01           3.3.2         Youth inclusion         .67.44           Collaboration         .69.36           3.3.4         Use of virtual social networks         .69.36           3.3.4         Use of virtual professional networks         .15.52           4.         RETAIN.         .65.12           4.1.1         Sustainability         .63.85           4.1.1         Pension coverage         .96.16           4.1.2         Social protection         .68.41           4.1.3         Brain retention         .17.86           4.1.4         Environmental performance         .52.03           4.1.5         Vulnerable employment         .84.78           4.2.1         Personal safety         .50.64           4.2.2         Personal safety         .50.64           4.2.3         Physician density         .47.00           4.2.4         Sanitation         .97.52           5.1			5
3.2.3       Employee development       .39.90         3.3       Access to Growth Opportunities       .45.83         Empowerment       .31.01         3.3.1       Delegation of authority       .31.01         3.3.2       Youth inclusion       .67.44         Collaboration       .69.36         3.3.3       Use of virtual social networks       .69.36         3.3.4       Use of virtual professional networks       .15.52         4       RETAIN.       .65.12         4.1       Sustainability       .63.85         4.1.1       Pension coverage       .96.16         4.1.2       Social protection       .68.41         4.1.3       Brain retention       .17.86         4.1.4       Environmental performance       .52.03         4.1.5       Vulnerable employment       .84.78         4.2.1       Personal rights       .70.44         4.2.1       Personal safety       .50.64         4.2.2       Personal safety       .50.64         4.2.3       Physician density       .47.00         4.2.4       Sanitation       .97.52         5.1       Workforce with secondary education       .n/a         5.1.2       Population			6
Access to Growth Opportunities			10
Empowerment 3.3.1 Delegation of authority			7
3.3.1       Delegation of authority	J.J	The state of the s	,
3.3.2       Youth inclusion       6744         Collaboration       69.36         3.3.3       Use of virtual social networks       15.52         4       RETAIN       65.12         4.1.1       Sustainability       63.85         4.1.2       Social protection       68.41         4.1.3       Brain retention       17.86         4.1.4       Environmental performance       52.03         4.1.5       Vulnerable employment       84.78         4.2.1       Personal rights       70.44         4.2.2       Personal safety       50.64         4.2.3       Physician density       47.00         4.2.4       Sanitation       97.52         5.5       VOCATIONAL AND TECHNICAL SKILLS       42.73         Mid-Level Skills       31.92         5.1.1       Workforce with secondary education       32.99         5.1.2       Population with secondary education       1.76         5.1.3       Technicians and associate professionals       48.68         5.1.4       Labour productivity per employee       14.08         5.1.2       Employability       53.54         5.2.1       Ease of finding skilled employees       49.18         5.	3 3 1		10
Collaboration   Use of virtual social networks		,	5
3.3.3       Use of virtual social networks       .69.36         3.3.4       Use of virtual professional networks       .15.52         4       RETAIN.       .65.12         4.1.1       Sustainability       .63.85         4.1.1       Pension coverage       .96.16         4.1.2       Social protection       .68.41         4.1.3       Brain retention       .17.86         4.1.4       Environmental performance       .52.03         4.1.5       Vulnerable employment       .84.78         4.2       Lifestyle       .66.40         4.2.1       Personal rights       .70.44         4.2.2       Personal safety       .50.64         4.2.3       Physician density       .47.00         4.2.4       Sanitation       .97.52         5       VOCATIONAL AND TECHNICAL SKILLS       .42.73         5.1       Mid-Level Skills       .31.92         5.1.1       Workforce with secondary education       .32.99         7.1.2       Population with secondary education       .7/a         5.1.2       Employability       .53.54         5.2.1       Ease of finding skilled employees       .49.18         5.2.2       Relevance of education system to the ec	J.J.Z		_
RETAIN	3 3 3		_
4         RETAIN.         65.12           4.1         Sustainability         63.85           4.1.1         Pension coverage         96.16           4.1.2         Social protection         68.41           4.1.3         Brain retention         17.86           4.1.4         Environmental performance         52.03           4.1.5         Vulnerable employment         84.78           4.2         Lifestyle         66.40           4.2.1         Personal rights         70.44           4.2.2         Personal safety         50.64           4.2.3         Physician density         47.00           4.2.4         Sanitation         97.52           5         VOCATIONAL AND TECHNICAL SKILLS         42.73           5.1         Workforce with secondary education         32.99           5.1.1         Workforce with secondary education         32.99           5.1.2         Population with secondary education         n/a           5.1.2         Population sand associate professionals         48.68           5.1.4         Labour productivity per employee         14.08           5.1.2         Employability         53.54           5.2.1         Ease of finding skilled employees			7
4.1       Sustainability       63.85         4.1.1       Pension coverage       96.16         4.1.2       Social protection       68.41         4.1.3       Brain retention       17.86         4.1.4       Environmental performance       52.03         4.1.5       Vulnerable employment       84.78         4.2       Lifestyle       66.40         4.2.1       Personal rights       70.44         4.2.2       Personal safety       50.64         4.2.3       Physician density       47.00         4.2.4       Sanitation       97.52         5       VOCATIONAL AND TECHNICAL SKILLS       42.73         5.1       Workforce with secondary education       32.99         5.1.1       Workforce with secondary education       32.99         5.1.2       Population with secondary education       32.99         5.1.1       Labour productivity per employee       14.08         5.1.2       Employability       53.54         5.2.1       Ease of finding skilled employees       49.18         5.2.2       Relevance of education system to the economy       44.08         5.2.3       Skills matching       n/a         5.1.1       Workforce with tertia	,,,,,,	ose of virtual processional rections .	
Pension coverage   96.16	ŀ	RETAIN65.12	5
4.1.2       Social protection       68.41         4.1.3       Brain retention       17.86         4.1.4       Environmental performance       52.03         4.1.5       Vulnerable employment       84.78         4.1.5       Lifestyle       66.40         4.2.1       Personal rights       70.44         4.2.2       Personal safety       50.64         4.2.3       Physician density       47.00         4.2.4       Sanitation       97.52         5       VOCATIONAL AND TECHNICAL SKILLS       42.73         5.1       Mid-Level Skills       31.92         5.1.1       Workforce with secondary education       32.99         5.1.2       Population with secondary education       n/a         5.1.3       Technicians and associate professionals       48.68         5.1.4       Labour productivity per employee       14.08         5.1.2       Employability       53.54         5.2.1       Ease of finding skilled employees       49.18         5.2.2       Relevance of education system to the economy       44.08         5.2.3       Skills matching       n/a         5.1.1       Workforce with tertiary education       66.81         5.1.2	1.1	Sustainability	4
8.1.3       Brain retention       17.86         8.1.4       Environmental performance       52.03         8.1.5       Vulnerable employment       84.78         8.2       Lifestyle       66.40         8.2.1       Personal rights       70.44         8.2.2       Personal safety       50.64         8.2.3       Physician density       47.00         8.2.4       Sanitation       97.52         8.5       VOCATIONAL AND TECHNICAL SKILLS       42.73         8.1       Mid-Level Skills       31.92         8.1.1       Workforce with secondary education       32.99         8.1.2       Population with secondary education       n/a         8.1.3       Technicians and associate professionals       48.68         8.1.4       Labour productivity per employee       14.08         8.2       Employability       53.54         8.2.1       Ease of finding skilled employees       49.18         8.2.2       Relevance of education system to the economy       44.08         8.2.3       Skills matching       n/a         8.1.1       High-Level Skills       33.33         8.1.1       Workforce with tertiary education       66.81         8.1.1       <	1.1.1	Pension coverage96.16	4
4.1.4       Environmental performance       52.03         4.1.5       Vulnerable employment       84.78         4.2       Lifestyle       66.40         4.2.1       Personal rights       70.44         4.2.2       Personal safety       50.64         4.2.3       Physician density       47.00         4.2.4       Sanitation       97.52         5       VOCATIONAL AND TECHNICAL SKILLS       42.73         5.1       Mid-Level Skills       31.92         5.1.1       Workforce with secondary education       32.99         Population with secondary education       7.6         5.1.2       Population with secondary education       7.6         5.1.3       Technicians and associate professionals       48.68         5.1.4       Labour productivity per employee       14.08         5.2.1       Ease of finding skilled employees       49.18         5.2.2       Relevance of education system to the economy       44.08         5.2.2       Relevance of education system to the economy       40.8         5.3.1       High-Level Skills       33.33         5.1.1       Workforce with tertiary education       66.81         5.1.1       Workforce with tertiary education       66.81			3
4.1.5       Vulnerable employment       84.78         4.2       Lifestyle       66.40         4.2.1       Personal rights       70.44         4.2.2       Personal safety       50.64         4.2.3       Physician density       47.00         4.2.4       Sanitation       97.52         5       VOCATIONAL AND TECHNICAL SKILLS       42.73         5.1       Mid-Level Skills       31.92         5.1.1       Workforce with secondary education       32.99         5.1.2       Population with secondary education       n/a         5.1.3       Technicians and associate professionals       48.68         5.1.4       Labour productivity per employee       14.08         5.2.2       Employability       53.54         5.2.1       Ease of finding skilled employees       49.18         5.2.2       Relevance of education system to the economy       44.08         5.2.3       Skills matching       n/a         5.1.4       Highly educated unemployment       67.35         5.6       GLOBAL KNOWLEDGE SKILLS       31.18         5.1.1       Workforce with tertiary education       n/a         5.1.2       Population with tertiary education       n/a			11
4.2       Lifestyle       66.40         4.2.1       Personal rights       70.44         4.2.2       Personal safety       50.64         4.2.3       Physician density       47.00         4.2.4       Sanitation       97.52         5       VOCATIONAL AND TECHNICAL SKILLS       42.73         6.1       Workforce with secondary education       32.99         5.1.1       Workforce with secondary education       n/a         5.1.2       Population with secondary education       n/a         5.1.3       Technicians and associate professionals       48.68         5.1.4       Labour productivity per employee       14.08         5.2.1       Ease of finding skilled employees       49.18         5.2.2       Relevance of education system to the economy       44.08         5.2.3       Skills matching       n/a         5.2.4       Highly educated unemployment       67.35         5.5       GLOBAL KNOWLEDGE SKILLS       31.18         5.1.1       Workforce with tertiary education       66.81         5.1.2       Population with tertiary education       66.81         5.1.3       Professionals       41.50         5.1.4       Researchers       6.63 <t< td=""><td></td><td>·</td><td>4</td></t<>		·	4
4.2.1       Personal rights       .70.44         4.2.2       Personal safety       .50.64         4.2.3       Physician density       .47.00         4.2.4       Sanitation       .97.52         5       VOCATIONAL AND TECHNICAL SKILLS       .42.73         5.1       Mid-Level Skills       .31.92         5.1.1       Workforce with secondary education       .32.99         5.1.2       Population with secondary education       .n/a         5.1.3       Technicians and associate professionals       .48.68         5.1.4       Labour productivity per employee       .14.08         5.2.2       Employability       .53.54         5.2.1       Ease of finding skilled employees       .49.18         5.2.2       Relevance of education system to the economy       .40.8         5.2.3       Skills matching       .n/a         5.2.4       Highly educated unemployment       .67.35         5.5       GLOBAL KNOWLEDGE SKILLS       31.18         5.1.1       Workforce with tertiary education       .66.81         5.1.2       Population with tertiary education       .66.81         5.1.3       Professionals       .41.50         6.1.3       Professionals       .41.50     <		· ·	5
4.2.2.2       Personal safety.       50.64         4.2.3       Physician density.       47.00         4.2.4       Sanitation.       97.52         5.       VOCATIONAL AND TECHNICAL SKILLS.       42.73         5.1.1       Mid-Level Skills.       31.92         5.1.2       Population with secondary education.       32.99         5.1.2       Population with secondary education.       n/a         5.1.2       Population with secondary education.       n/a         5.1.3       Technicians and associate professionals.       48.68         5.1.4       Labour productivity per employee.       14.08         5.2.1       Ease of finding skilled employees.       49.18         5.2.2       Relevance of education system to the economy.       44.08         5.2.3       Skills matching.       n/a         5.2.4       Highly educated unemployment.       67.35         5.5       GLOBAL KNOWLEDGE SKILLS.       31.18         5.1.1       Workforce with tertiary education.       n/a         5.1.2       Population with tertiary education.       n/a         5.1.3       Professionals.       41.50         5.1.4       Researchers.       6.63         5.1.5       Senior officials and manage			5
4.2.3       Physician density       47.00         4.2.4       Sanitation       97.52         5       VOCATIONAL AND TECHNICAL SKILLS       42.73         5.1       Mid-Level Skills       31.92         5.1.1       Workforce with secondary education       .32.99         5.1.2       Population with secondary education       .n/a         5.1.3       Technicians and associate professionals       .48.68         5.1.4       Labour productivity per employee       .14.08         5.2.1       Ease of finding skilled employees       49.18         5.2.2       Relevance of education system to the economy       .44.08         5.2.2       Relevance of education system to the economy       .40.8         5.2.4       Highly educated unemployment       .67.35         5.5       GLOBAL KNOWLEDGE SKILLS       31.18         5.1.1       Workforce with tertiary education       .66.81         5.1.2       Population with tertiary education       .61.8         5.1.3       Professionals       .41.50         5.1.4       Researchers       .66.63         5.1.5       Senior officials and managers       .48.38         5.1.6       Digital skills       .33.35         5.2.2       Talent Imp		9	7
4.2.4         Sanitation         97.52           5         VOCATIONAL AND TECHNICAL SKILLS         42.73           5.1.1         Mid-Level Skills         31.92           5.1.2         Population with secondary education         n/a           5.1.3         Technicians and associate professionals         48.68           5.1.4         Labour productivity per employee         14.08           5.2.1         Ease of finding skilled employees         49.18           5.2.2         Relevance of education system to the economy         44.08           5.2.2         Relevance of education system to the economy         44.08           5.2.2         Highly educated unemployment         67.35           5.5         GLOBAL KNOWLEDGE SKILLS         31.18           5.1.1         Workforce with tertiary education         66.81           5.1.2         Population with tertiary education         n/a           5.1.3         Professionals         41.50           5.1.4         Researchers         6.63           5.1.5         Senior officials and managers         48.38           5.1.6         Digital skills         3.35           5.2.2         Talent Impact         29.03           5.2.1         Innovation output         4			8
VOCATIONAL AND TECHNICAL SKILLS   42.73			4
5.1       Mid-Level Skills       31.92         5.1.1       Workforce with secondary education       32.99         Fopulation with secondary education       n/a         5.1.3       Technicians and associate professionals       48.68         5.1.4       Labour productivity per employee       14.08         5.2       Employability       53.54         5.2.1       Ease of finding skilled employees       49.18         5.2.2       Relevance of education system to the economy       44.08         5.2.3       Skills matching       n/a         5.2.4       Highly educated unemployment       67.35         5       GLOBAL KNOWLEDGE SKILLS       31.18         5.1.1       Workforce with tertiary education       66.81         5.1.2       Population with tertiary education       n/a         5.1.3       Professionals       41.50         5.1.4       Researchers       .663         5.1.5       Senior officials and managers       48.38         5.1.6       Digital skills       3.35         5.2       Talent Impact       29.03         5.2.1       Innovation output       41.75         5.2.2       High-value exports       7.99	1.2.4	Sanitation	_
5.1.1       Workforce with secondary education       32.99         5.1.2       Population with secondary education       .n/a         5.1.3       Technicians and associate professionals       48.68         5.1.4       Labour productivity per employee       .14.08         5.2       Employability       .53.54         5.2.1       Ease of finding skilled employees       .49.18         5.2.2       Relevance of education system to the economy       .44.08         5.2.3       Skills matching       .n/a         5.2.4       Highly educated unemployment       .67.35         6       GLOBAL KNOWLEDGE SKILLS       31.18         5.1.1       Workforce with tertiary education       .66.81         5.1.2       Population with tertiary education       .n/a         5.1.3       Professionals       .41.50         5.1.4       Researchers       .66.3         5.1.5       Senior officials and managers       .48.38         5.1.6       Digital skills       .33.5         5.2       Talent Impact       .29.03         5.2.1       Innovation output       .41.75         5.2.2       High-value exports       .799	5	VOCATIONAL AND TECHNICAL SKILLS42.73	7
5.1.2         Population with secondary education         .n/a           5.1.3         Technicians and associate professionals         .48.68           5.1.4         Labour productivity per employee         .14.08           5.2         Employability         .53.54           5.2.1         Ease of finding skilled employees         .49.18           5.2.2         Relevance of education system to the economy         .40.08           5.2.3         Skills matching         .n/a           5.2.4         Highly educated unemployment         .67.35           5         GLOBAL KNOWLEDGE SKILLS         .31.18           5.1         High-Level Skills         .33.33           5.1.1         Workforce with tertiary education         .66.81           5.1.2         Population with tertiary education         .n/a           5.1.3         Professionals         .41.50           5.1.4         Researchers         .66.63           5.1.5         Senior officials and managers         .48.38           5.1.6         Digital skills         .3.35           5.2         Talent Impact         .29.03           5.2.1         Innovation output         .41.75           5.2.2         High-value exports         .799 <td>5.1</td> <td>Mid-Level Skills</td> <td>7</td>	5.1	Mid-Level Skills	7
5.1.3       Technicians and associate professionals.       48.68         5.1.4       Labour productivity per employee.       14.08         5.2       Employability.       53.54         5.2.1       Ease of finding skilled employees       49.18         5.2.2       Relevance of education system to the economy.       44.08         5.2.3       Skills matching.       n/a         5.2.4       Highly educated unemployment       67.35         5       GLOBAL KNOWLEDGE SKILLS       31.18         5.1       High-Level Skills       33.33         5.1.1       Workforce with tertiary education       66.81         5.1.2       Population with tertiary education       n/a         5.1.3       Professionals       41.50         6.1.4       Researchers       6.63         5.1.5       Senior officials and managers       48.38         5.1.6       Digital skills       3.35         5.2       Talent Impact       29.03         5.2.1       Innovation output       41.75         5.2.2       High-value exports       7.99	5.1.1	Workforce with secondary education	8
5.1.4       Labour productivity per employee.       14.08         5.2       Employability.       53.54         5.2.1       Ease of finding skilled employees       49.18         5.2.2       Relevance of education system to the economy.       44.08         5.2.3       Skills matching.       n/a         5.2.4       Highly educated unemployment       67.35         5       GLOBAL KNOWLEDGE SKILLS       31.18         5.1       High-Level Skills.       33.33         5.1.1       Workforce with tertiary education       66.81         5.1.2       Population with tertiary education.       n/a         5.1.3       Professionals.       41.50         5.1.4       Researchers.       6.63         5.1.5       Senior officials and managers.       48.38         5.1.6       Digital skills.       3.35         5.2       Talent Impact.       29.03         5.2.1       Innovation output       41.75         5.2.2       High-value exports.       7.99	5.1.2		n,
5.2       Employability.       53.54         5.2.1       Ease of finding skilled employees       49.18         5.2.2       Relevance of education system to the economy.       44.08         5.2.3       Skills matching.       n/a         4 Highly educated unemployment       67.35         5       GLOBAL KNOWLEDGE SKILLS       31.18         5.1.1       High-Level Skills.       33.33         5.1.2       Population with tertiary education       66.81         5.1.3       Professionals.       41.50         5.1.4       Researchers.       6.63         5.1.5       Senior officials and managers.       48.38         5.1.6       Digital skills.       3.35         5.2       Talent Impact.       29.03         5.2.1       Innovation output       41.75         5.2.2       High-value exports.       7.99		·	4
5.2.1       Ease of finding skilled employees       49.18         5.2.2       Relevance of education system to the economy       44.08         5.2.3       Skills matching       n/a         6.2.4       Highly educated unemployment       67.35         6       GLOBAL KNOWLEDGE SKILLS       31.18         6.1       High-Level Skills       33.33         6.1.1       Workforce with tertiary education       66.81         6.1.2       Population with tertiary education       n/a         6.1.3       Professionals       41.50         6.1.4       Researchers       .663         6.1.5       Senior officials and managers       48.38         6.1.6       Digital skills       3.35         6.2       Talent Impact       29.03         6.2.1       Innovation output       41.75         6.2.2       High-value exports       7.99		Labour productivity per employee14.08	8
5.2.2       Relevance of education system to the economy.       .44.08         5.2.3       Skills matching.       .n/a         5.2.4       Highly educated unemployment       .67.35         5       GLOBAL KNOWLEDGE SKILLS       .31.18         5.1       High-Level Skills       .33.33         5.1.1       Workforce with tertiary education       .66.81         5.1.2       Population with tertiary education       .n/a         5.1.3       Professionals       .41.50         5.1.4       Researchers       .66.3         5.1.5       Senior officials and managers       .48.38         5.1.6       Digital skills       .3.35         5.2       Talent Impact       .29.03         5.2.1       Innovation output       .41.75         5.2.2       High-value exports       .799			8
5.2.3       Skills matching       n/a         5.2.4       Highly educated unemployment       67.35         5       GLOBAL KNOWLEDGE SKILLS       31.18         5.1       High-Level Skills       33.33         5.1.1       Workforce with tertiary education       66.81         5.1.2       Population with tertiary education       n/a         5.1.3       Professionals       41.50         5.1.4       Researchers       6.63         5.1.5       Senior officials and managers       48.38         5.1.6       Digital skills       3.35         5.2       Talent Impact       29.03         5.2.1       Innovation output       41.75         5.2.2       High-value exports       7.99			7
5.2.4       Highly educated unemployment       .67.35         5       GLOBAL KNOWLEDGE SKILLS       .31.18         5.1       High-Level Skills       .33.33         5.1.1       Workforce with tertiary education       .66.81         5.1.2       Population with tertiary education       .n/a         5.1.3       Professionals       .41.50         5.1.4       Researchers       .6.63         5.1.5       Senior officials and managers       .48.38         5.1.6       Digital skills       .3.35         5.2       Talent Impact       .29.03         5.2.1       Innovation output       .41.75         5.2.2       High-value exports       .7.99			6
5.5         GLOBAL KNOWLEDGE SKILLS         31.18           5.1         High-Level Skills         33.33           5.1.1         Workforce with tertiary education         66.81           5.1.2         Population with tertiary education         n/a           5.1.3         Professionals         41.50           5.1.4         Researchers         6.63           5.1.5         Senior officials and managers         48.38           5.1.6         Digital skills         3.35           5.2         Talent Impact         29.03           5.2.1         Innovation output         41.75           5.2.2         High-value exports         7.99			n,
5.1       High-Level Skills       33.33         5.1.1       Workforce with tertiary education       .66.81         5.1.2       Population with tertiary education       .n/a         5.1.3       Professionals       .41.50         5.1.4       Researchers       .66.3         5.1.5       Senior officials and managers       .48.38         5.1.6       Digital skills       .3.35         5.2       Talent Impact       .29.03         5.2.1       Innovation output       .41.75         5.2.2       High-value exports       .7.99	0.2.4	Highly educated unemployment	8
5.1.1       Workforce with tertiary education       66.81         5.1.2       Population with tertiary education       .n/a         5.1.3       Professionals       41.50         5.1.4       Researchers       .6.63         5.1.5       Senior officials and managers       .48.38         5.1.6       Digital skills       .3.35         5.2       Talent Impact       .29.03         5.2.1       Innovation output       .41.75         5.2.2       High-value exports       .7.99	5	GLOBAL KNOWLEDGE SKILLS31.18	5
5.1.2       Population with tertiary education       .n/a         5.1.3       Professionals       .41.50         5.1.4       Researchers       .6.63         5.1.5       Senior officials and managers       .48.38         5.1.6       Digital skills       .3.35         5.2       Talent Impact       .29.03         5.2.1       Innovation output       .41.75         5.2.2       High-value exports       .7.99	5.1	High-Level Skills	
5.1.3       Professionals       41.50         5.1.4       Researchers       .6.63         5.1.5       Senior officials and managers       48.38         5.1.6       Digital skills       .3.35         5.2.2       Talent Impact       .29.03         5.2.1       Innovation output       .41.75         5.2.2       High-value exports       .7.99	5.1.1	Workforce with tertiary education	
5.1.4       Researchers       .6.63         5.1.5       Senior officials and managers       .48.38         5.1.6       Digital skills       .3.35         5.2       Talent Impact       .29.03         5.2.1       Innovation output       .41.75         5.2.2       High-value exports       .7.99			n,
5.1.5       Senior officials and managers       48.38         5.1.6       Digital skills       3.35         5.2       Talent Impact       29.03         5.2.1       Innovation output       41.75         5.2.2       High-value exports       7.99			4
5.1.6       Digital skills       3.35         5.2       Talent Impact       29.03         5.2.1       Innovation output       41.75         5.2.2       High-value exports       7.99			6
5.2       Talent Impact.       29.03         5.2.1       Innovation output       41.75         5.2.2       High-value exports.       7.99		9	1
5.2.1       Innovation output       41.75         5.2.2       High-value exports       7.99		9	7
5.2.2 High-value exports			6
3		·	4
5.2.3 Software development			8
			3
5.2.4 New business density			6

### **UNITED ARAB EMIRATES**

Incon Regio	(out of 134) ne group	High in Western	Asia	GDP GTCI	per capita (PPP US\$) (US\$ billions) score. score (income group average)	5	07.53 62.56
-	CI 2023 Country Profile by Pillar		0.11	Giei	beore (meome group average)	Score	Rank
	cr 2020 Country (Torrice By Tillian				CDOW		
	Enable			3	GROW		17
	<b>-</b> 100			3.1	Formal Education.	39.25	52
	<b>+</b> 90			3.1.1	Enrolment Vocational enrolment	าาา	111
	<b>1</b> 80			3.1.1	Tertiary enrolment		111 60
	Global	ttract		J.1.2	Quality		00
Kno	owledge Skills	ctract		3.1.3	Tertiary education expenditure	79.92	17
	30			3.1.4	Reading, maths, and science		46
	10			3.1.5	University ranking		34
				3.2	Lifelong Learning		15
				3.2.1	Business masters education		21
				3.2.2	Prevalence of training in firms	n/a	n/a
17.	ocational and			3.2.3	Employee development	76.44	22
	echnical Skills	row		3.3	Access to Growth Opportunities	86.49	2
10	1				Empowerment		
	Ţ			3.3.1	Delegation of authority		16
	1			3.3.2	Youth inclusion	81.49	25
	Retain				Collaboration		
	<ul> <li>United Arab Emirates</li> <li>Income group ave</li> </ul>	orago		3.3.3	Use of virtual social networks		1
	• Officed Made Elimitates • Income group av	crage		3.3.4	Use of virtual professional networks	94.45	2
		Score	Rank				
1	ENABLE	6E 0E	23	4	RETAIN	61.71	59
1.1	Regulatory Landscape		26	4.1	Sustainability	66.71	36
1.1.1	Government effectiveness		17	4.1.1	Pension coverage	21.82	97
1.1.2	Rule of law		35	4.1.2	Social protection	65.78	43
1.1.3	Political stability		36	4.1.3	Brain retention	90.94	3
1.1.4	Regulatory quality		29	4.1.4	Environmental performance		34
1.1.5	Corruption		23	4.1.5	Vulnerable employment		4
1.2	Market Landscape		16	4.2	Lifestyle		80
1.2.1	Extent of market dominance		14	4.2.1	Personal rights		120
1.2.2	Domestic credit to private sector	58.09	40	4.2.2	Personal safety		77
1.2.3	Cluster development	87.30	4	4.2.3	Physician density		52
1.2.4	R&D expenditure	27.79	28	4.2.4	Sanitation	99.15	29
1.2.5	ICT infrastructure		9				
1.2.6	Urbanisation		21	5	VOCATIONAL AND TECHNICAL SKILLS	62.16	28
1.3	Business and Labour Landscape	53.16	35	5.1	Mid-Level Skills	43.13	58
	Labour Market	,	,	5.1.1	Workforce with secondary education		85
1.3.1	Labour rights		n/a	5.1.2	Population with secondary education		63
1.3.2	Labour-employer cooperation	/2.59	15	5.1.3	Technicians and associate professionals		45
1.3.3	Management Practice Professional management	72.14	25	5.1.4	Labour productivity per employee		13
1.3.4	Relationship of pay to productivity		4	5.2	Employability.		10 7
	Technology Adoption			5.2.1 5.2.2	Ease of finding skilled employees		7
1.3.5	Enterprise software	21.22	66	5.2.3	Skills matching		53
1.3.6	Cloud computing		67	5.2.4	Highly educated unemployment		43
1.3.7	Firms with website	n/a	n/a		J ,		
				-	GLOBAL KNOWLEDGE SKILLS	A1 70	
2	ATTRACT	81.84	4	<b>6</b> 6.1	High-Level Skills		<b>32</b> 12
2.1	External Openness		2	6.1.1	Workforce with tertiary education		29
	Attract Business		_	6.1.2	Population with tertiary education		4
2.1.1	FDI regulatory restrictiveness	n/a	n/a	6.1.3	Professionals		50
2.1.2	Financial globalisation	80.42	31	6.1.4	Researchers		33
	Attract People			6.1.5	Senior officials and managers	55.95	13
2.1.3	Migrant stock		1	6.1.6	Digital skills		3
2.1.4	International students		1	6.2	Talent Impact		58
2.1.5	Brain gain		4	6.2.1	Innovation output		51
2.2	Internal Openness	71.12	23	6.2.2	High-value exports		55
2 2 4	Social Inclusion	74.44	16	6.2.3	Software development		57
2.2.1	Tolerance of minorities.		16 1	6.2.4 6.2.5	New business density		54 49
2.2.2	Tolerance of immigrants		14	0.2.3	Scientific journal articles	1/.00	49
	Gender Equality						
2.2.4	Economic empowerment of women		69 119				
	Genuer parity in high-skilled JUDS	/	117				

#### **UNITED KINGDOM**

Incor Regio Popu	(out of 134). 10 ne group. High income mal group. Europe lation (millions) 66.97	GDP GTCI	per capit (US\$ bill score score (in
	CI 2023 Country Profile by Pillar  Enable	3	GROW
	±100	3.1	Formal
	<b>+</b> 90	2.1.1	Enrolme
	<b>†</b> 80	3.1.1 3.1.2	Vocation Tertiary
	Global 60 Attract	3.1.2	Quality
Kno	wledge Skills 40 Attract	3.1.3	Tertiary
	$\frac{1}{20}$	3.1.4	Reading
	120	3.1.5	Universi
		3.2	Lifelong
		3.2.1	Busines
		3.2.2	Prevale
V	ocational and Grow	3.2.3	Employ
Te	chnical Skills	3.3	Access
		3.3.1	Empow Delegat
	İ	3.3.2	Youth ir
	Retain	3.3.2	Collabo
		3.3.3	Use of v
	<ul> <li>United Kingdom</li> <li>Income group average</li> </ul>	3.3.4	Use of v
	Score Rank	4	DETAIL
1	ENABLE	<b>4</b> 4.1	RETAIN Sustaina
1.1	Regulatory Landscape	4.1.1	Pension
1.1.1	Government effectiveness	4.1.2	Social p
1.1.2	Rule of law	4.1.3	Brain re
l.1.3 l.1.4	Political stability	4.1.4	Environ
1.1.4	Corruption	4.1.5	Vulnera
	Co. aption	4.2	Lifestyl

1	ENABLE75.10	12
1.1	Regulatory Landscape	18
1.1.1	Government effectiveness	23
1.1.2	Rule of law	18
1.1.3	Political stability	42
1.1.4	Regulatory quality80.14	16
1.1.5	Corruption	17
1.2	Market Landscape	13
1.2.1	Extent of market dominance	17
1.2.2	Domestic credit to private sector	13
1.2.3	Cluster development	14
1.2.4	R&D expenditure32.01	22
1.2.5	ICT infrastructure	11
1.2.6	Urbanisation	26
1.3	Business and Labour Landscape	7
	Labour Market	
1.3.1	Labour rights	48
1.3.2	Labour-employer cooperation	28
1.5.2	Management Practice	
1.3.3	Professional management	11
1.3.4	Relationship of pay to productivity	26
1.5.1	Technology Adoption	20
135		6
1.3.5	Enterprise software79.74	6
1.3.6	Enterprise software	8
	Enterprise software79.74	
1.3.6	Enterprise software	8
1.3.6 1.3.7	Enterprise software         .79.74           Cloud computing         .67.25           Firms with website         .85.36    ATTRACT.  75.14	8 10
1.3.6 1.3.7 <b>2</b>	Enterprise software         .79.74           Cloud computing         .67.25           Firms with website         .85.36           ATTRACT         .75.14           External Openness         .78.60	8 10
1.3.6 1.3.7 <b>2</b>	Enterprise software         .79.74           Cloud computing         .67.25           Firms with website         .85.36           ATTRACT         .75.14           External Openness         .78.60           Attract Business	8 10
1.3.6 1.3.7 <b>2</b> 2.1 2.1.1	Enterprise software         .79.74           Cloud computing         .67.25           Firms with website         .85.36           ATTRACT         .75.14           External Openness         .78.60           Attract Business         FDI regulatory restrictiveness         .90.27	8 10 <b>13</b> 7 24
1.3.6 1.3.7 <b>2</b> 2.1	Enterprise software         .79.74           Cloud computing         .67.25           Firms with website         .85.36           ATTRACT         .75.14           External Openness         .78.60           Attract Business         FDI regulatory restrictiveness         .90.27           Financial globalisation         .90.39	8 10 <b>13</b> 7
1.3.6 1.3.7 <b>2</b> 2.1 2.1.1 2.1.2	Enterprise software         .79.74           Cloud computing         .67.25           Firms with website         .85.36           ATTRACT         .75.14           External Openness         .78.60           Attract Business         FDI regulatory restrictiveness           FDI regulatory restrictiveness         .90.27           Financial globalisation         .90.39           Attract People	8 10 13 7 24 11
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3	Enterprise software         .79.74           Cloud computing         .67.25           Firms with website         .85.36           ATTRACT         .75.14           External Openness         .78.60           Attract Business         FDI regulatory restrictiveness           FDI regulatory restrictiveness         .90.27           Financial globalisation         .90.39           Attract People         Migrant stock         .62.33	8 10 13 7 24 11
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4	Enterprise software         .79.74           Cloud computing         .67.25           Firms with website         .85.36           ATTRACT         .75.14           External Openness         .78.60           Attract Business         .90.27           Financial globalisation         .90.39           Attract People         .90.39           Migrant stock         .62.33           International students         .74.01	13 7 24 11 33 8
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5	Enterprise software         .79.74           Cloud computing         .67.25           Firms with website         .85.36           ATTRACT         .75.14           External Openness         .78.60           Attract Business         .90.27           Financial globalisation         .90.39           Attract People         .90.39           Migrant stock         .62.33           International students         .74.01           Brain gain         .76.01	8 10 13 7 24 11 33 8 15
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4	Enterprise software         .79.74           Cloud computing         .67.25           Firms with website         .85.36           ATTRACT         .75.14           External Openness         .78.60           Attract Business         .90.27           Foll regulatory restrictiveness         .90.27           Financial globalisation         .90.39           Attract People	13 7 24 11 33 8
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2	Enterprise software         .79.74           Cloud computing         .67.25           Firms with website         .85.36           ATTRACT         .75.14           External Openness         .78.60           Attract Business         .50.27           FDI regulatory restrictiveness         .90.27           Financial globalisation         .90.39           Attract People         .62.33           International students         .74.01           Brain gain         .76.01           Internal Openness         .71.68           Social Inclusion         .71.68	8 10 13 7 24 11 33 8 15 21
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2	Enterprise software         .79.74           Cloud computing         .67.25           Firms with website         .85.36           ATTRACT         .75.14           External Openness         .78.60           Attract Business         .90.27           Financial globalisation         .90.39           Attract People         .90.39           Migrant stock         .62.33           International students         .74.01           Brain gain         .76.01           Internal Openness         .71.68           Social Inclusion           Tolerance of minorities         .38.30	8 10 13 7 24 11 33 8 15 21
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1	Enterprise software         .79.74           Cloud computing         .67.25           Firms with website         .85.36           ATTRACT         .75.14           External Openness         .78.60           Attract Business         FDI regulatory restrictiveness           FDI regulatory restrictiveness         .90.27           Financial globalisation         .90.39           Attract People         Migrant stock         .62.33           International students         .74.01           Brain gain         .76.01           Internal Openness         .71.68           Social Inclusion           Tolerance of minorities         .38.30           Tolerance of immigrants         .81.54	8 10 13 7 24 11 33 8 15 21 78 24
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2	Enterprise software         .79.74           Cloud computing         .67.25           Firms with website         .85.36           ATTRACT         .75.14           External Openness         .78.60           Attract Business         .90.27           Financial globalisation         .90.39           Attract People         .62.33           International students         .74.01           Brain gain         .76.01           Internal Openness         .71.68           Social Inclusion           Tolerance of minorities         .38.30           Tolerance of immigrants         .81.54           Social mobility         .69.98	8 10 13 7 24 11 33 8 15 21
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1	Enterprise software         .79.74           Cloud computing         .67.25           Firms with website         .85.36           ATTRACT         .75.14           External Openness         .78.60           Attract Business         .90.27           Financial globalisation         .90.39           Attract People         .80.33           Migrant stock         .62.33           International students         .74.01           Brain gain         .76.01           Internal Openness         .71.68           Social Inclusion         .38.30           Tolerance of minorities         .38.30           Tolerance of immigrants         .81.54           Social mobility         .69.98           Gender Equality	8 10 13 7 24 11 33 8 15 21 78 24
1.3.6 1.3.7 2 2.1 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.2 2.2.1 2.2.2 2.2.3	Enterprise software         .79.74           Cloud computing         .67.25           Firms with website         .85.36           ATTRACT         .75.14           External Openness         .78.60           Attract Business         .90.27           Financial globalisation         .90.39           Attract People         .62.33           International students         .74.01           Brain gain         .76.01           Internal Openness         .71.68           Social Inclusion           Tolerance of minorities         .38.30           Tolerance of immigrants         .81.54           Social mobility         .69.98	8 10 13 7 24 11 33 8 15 21 78 24 23

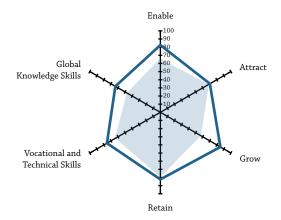
GDP	(US\$ billions)	70.6
GTCI	score	73.7
GTCI	score (income group average)	61.9
	Score	Ran
3	GROW78.19	
3.1	Formal Education	
	Enrolment	
3.1.1	Vocational enrolment	2
3.1.2	Tertiary enrolment	3
212	Quality Tertiany advisation expanditure	1
3.1.3 3.1.4	Tertiary education expenditure	
3.1.5	University ranking	
3.2	Lifelong Learning	
3.2.1	Business masters education98.44	
3.2.2	Prevalence of training in firms	n,
3.2.3	Employee development	
3.3	Access to Growth Opportunities	
	Empowerment	
3.3.1	Delegation of authority	
3.3.2	Youth inclusion81.97	2
	Collaboration Use of virtual social networks	
3.3.3 3.3.4	Use of virtual professional networks	
).J. <del>+</del>	ose of virtual professional fletworks	
	DETAIN OF 45	
<b>4</b> 4.1	<b>RETAIN</b>	1
+. i 4.1.1	Pension coverage	
+.1.1 4.1.2	Social protection	3
4.1.3	Brain retention	-
1.1.4	Environmental performance	
4.1.5	Vulnerable employment	2
4.2	Lifestyle82.36	2
4.2.1	Personal rights90.98	3
4.2.2	Personal safety	
1.2.3 1.2.4	Physician density	3
5	VOCATIONAL AND TECHNICAL SKILLS62.15	2
5.1	Mid-Level Skills	4
5.1.1	Workforce with secondary education	-
5.1.2	Population with secondary education	2
5.1.3	Technicians and associate professionals	3
5.1.4	Labour productivity per employee	2
5.2.1	Employability	2
5.2.2	Relevance of education system to the economy	-
5.2.3	Skills matching	_
5.2.4	Highly educated unemployment89.38	2
	GLOBAL KNOWLEDGE SKILLS	
<b>5</b> 5.1	High-Level Skills	
5.1.1	Workforce with tertiary education	
5.1.2	Population with tertiary education	
5.1.3	Professionals	
5.1.4	Researchers	2
5.1.5	Senior officials and managers	
5.1.6	Digital skills	
5.2	Talent Impact	
5.2.1	Innovation output	
5.2.2 5.2.3	High-value exports	
5.2.3 5.2.4	Software development	
<u>-</u> .¬		
5.2.5	Scientific journal articles	

### **UNITED STATES OF AMERICA**

Score Rank

Rank (out of 134)	<b>3</b>
Income group	High income
Regional group	Northern America
Population (millions)	333.29

GTCI 2023 Country Profile by Pillar



United States of America
 Income group average

1	ENABLE 82.51	4
1.1	Regulatory Landscape74.29	22
1.1.1	Government effectiveness	20
1.1.2	Rule of law82.95	19
1.1.3	Political stability61.30	63
1.1.4	Regulatory quality79.78	17
1.1.5	Corruption	22
1.2	Market Landscape	1
1.2.1	Extent of market dominance	2
1.2.2	Domestic credit to private sector	2
1.2.3	Cluster development	1
1.2.4	R&D expenditure	5
1.2.5	ICT infrastructure	4
1.2.6	Urbanisation	27
1.3	Business and Labour Landscape	4
1.5	Labour Market	
1.3.1	Labour rights	n/a
1.3.1	Labour-employer cooperation	12
1.3.2		12
1 2 2	Management Practice	
1.3.3	Professional management	4
1.3.4	Relationship of pay to productivity	2
	Technology Adoption	
1.3.5	Enterprise software	3
1.3.6	Cloud computing	2
1.3.7	Firms with website	29
2	ATTRACT70.15	22
2.1	External Openness	24
	Attract Business	
2.1.1	FDI regulatory restrictiveness	51
2.1.2	Financial globalisation	36
	Attract People	
2.1.3	Migrant stock	26
2.1.4	International students	47
2.1.5	Brain gain	5
2.2	Internal Openness	17
2.2	Social Inclusion	17
2.2.1	Tolerance of minorities	84
2.2.2	Tolerance of immigrants90.77	11
2.2.3	Social mobility	7
	Gender Equality	
2.2.4	Economic empowerment of women	35
2.2.5	Gender parity in high-skilled jobs	20
2.2.6	Leadership opportunities for women	27

	score (income group average)	
	Score	Ra
3	GROW85.05	
3.1	Formal Education	
3.1.1 3.1.2	Vocational enrolment	n
3.1.3	Tertiary education expenditure	
3.1.4	Reading, maths, and science65.82	
3.1.5	University ranking	
3.2	Lifelong Learning	
3.2.1	Business masters education	
3.2.2 3.2.3	Prevalence of training in firms	r
3.3	Access to Growth Opportunities 80.47	
,.5	Empowerment	
3.3.1 3.3.2	Delegation of authority	
	Collaboration	
3.3.3	Use of virtual social networks	
3.3.4	Use of virtual professional networks	
ŀ	RETAIN82.34	
1.1	Sustainability	
1.1.1	Pension coverage	
1.1.2	Social protection	
1.1.3 1.1.4	Brain retention	
1.1.5	Vulnerable employment	
1.2	Lifestyle	
1.2.1	Personal rights	
1.2.2	Personal safety75.73	
4.2.3	Physician density56.03	
1.2.4	Sanitation	
5	VOCATIONAL AND TECHNICAL SKILLS	
5.1	Mid-Level Skills	
5.1.1	Workforce with secondary education	
5.1.3	Technicians and associate professionals	
5.1.4	Labour productivity per employee	
5.2	Employability83.45	
5.2.1	Ease of finding skilled employees	
5.2.2	Relevance of education system to the economy	
5.2.3	Skills matching	
5	GLOBAL KNOWLEDGE SKILLS	
5.1	High-Level Skills	
5.1.1	Workforce with tertiary education	
5.1.2	Population with tertiary education	
5.1.3	Professionals	
5.1.4	Researchers	
5.1.5 5.1.6	Senior officials and managers         .70.53           Digital skills         .n/a	
5.2	Talent Impact	r
5.2.1	Innovation output	
5.2.2	High-value exports	
5.2.3	Software development	
5.2.4	New business density	r
5.2.5	Scientific journal articles51.46	

## **URUGUAY**

	ne group		•			US\$ billions)	
Regio	nal group	Latin Americ	a and the Caril	bean	GTCI	score	51.29
Popul	ation (millions)			.3.42	GTCI	score (income group average)	61.91
GTO	I 2023 Country Profile by Pill	lar				Score	Rank
		n 11			3	GROW	34
		Enable T <sup>100</sup>			3.1	Formal Education	42
		90 80			3.1.1	Vocational enrolment	27
**	Global	70 60	Attract		3.1.2	Tertiary enrolment	45
Kno	wledge Skills	40 30	xxx		3.1.3	Tertiary education expenditure	49
	*	20			3.1.4 3.1.5	Reading, maths, and science	51 47
					3.1.5	Lifelong Learning	33
	A				3.2.1	Business masters education	50
	A PARTY OF THE PAR				3.2.2	Prevalence of training in firms	17
Vo	ocational and	1 / 1	***		3.2.3	Employee development56.67	57
	chnical Skills		Grow		3.3	Access to Growth Opportunities	36
		‡			3.3.1	Delegation of authority	81
		ī			3.3.2	Youth inclusion	47
		Retain				Collaboration	
Uruguay			• In	come arou	3.3.3 ip average	Use of virtual social networks	24
Oruguay			- 111	come groc	.b.a.43:3:4c	Use of virtual professional networks	21
			Score	Rank	4	RETAIN72.17	36
1	ENABLE			34	4.1	Sustainability	51
1.1 1.1.1	Regulatory Landscape Government effectivenes			27 37	4.1.1	Pension coverage	1
1.1.1	Rule of law			36	4.1.2	Social protection	26
1.1.3	Political stability			8	4.1.3	Brain retention	91
1.1.4	Regulatory quality			41	4.1.4	Environmental performance	86
1.1.5	Corruption		78.08	13	4.1.5 4.2	Vulnerable employment	67 27
1.2	Market Landscape			52	4.2.1	Personal rights 91.61	30
1.2.1	Extent of market dominar			56	4.2.2	Personal safety	66
1.2.2 1.2.3	Domestic credit to private Cluster development			102 79	4.2.3	Physician density78.50	8
1.2.4	R&D expenditure			63	4.2.4	Sanitation	43
1.2.5	ICT infrastructure		79.38	32			
1.2.6	Urbanisation			5	5	VOCATIONAL AND TECHNICAL SKILLS 46.78	69
1.3	Business and Labour Lan	dscape	48.31	52	5.1	Mid-Level Skills	81
1 2 1	Labour Market Labour rights		00.75	31	5.1.1	Workforce with secondary education	79
1.3.1 1.3.2	Labour rights Labour-employer coopera			87	5.1.2	Population with secondary education	71
	Management Practice			0,	5.1.3 5.1.4	Technicians and associate professionals	60 59
1.3.3	Professional management	t	51.76	64	5.2	Employability	47
1.3.4	Relationship of pay to pro	ductivity	45.93	98	5.2.1	Ease of finding skilled employees	52
405	Technology Adoption		24.62		5.2.2	Relevance of education system to the economy	81
1.3.5 1.3.6	Enterprise software Cloud computing			63 46	5.2.3	Skills matching	42
1.3.7	Firms with website			38	5.2.4	Highly educated unemployment	52
2	ATTRACT		EQ 00	36	6	GLOBAL KNOWLEDGE SKILLS	76
2.1	External Openness			<b>36</b> 70	6.1 6.1.1	High-Level Skills	85 90
2.1	Attract Business			70	6.1.2	Population with tertiary education	90 67
2.1.1	FDI regulatory restrictiven	ness	87.84	28	6.1.3	Professionals	52
2.1.2	Financial globalisation		64.01	61	6.1.4	Researchers	55
	Attract People				6.1.5	Senior officials and managers14.55	88
2.1.3	Migrant stock			85	6.1.6	Digital skills	n/a
2.1.4 2.1.5	International students Brain gain			76 98	6.2 6.2.1	Talent Impact 27.86 Innovation output 27.72	64 75
2.1.3	Internal Openness			18	6.2.1	High-value exports	75 47
	Social Inclusion				6.2.3	Software development	45
2.2.1	Tolerance of minorities		78.72	10	6.2.4	New business density	55
2.2.2	Tolerance of immigrants .			8	6.2.5	Scientific journal articles	59
2.2.3	Social mobility		58.42	44			
2.2.4	Economic empowerment			43			
2.2.5	Gender parity in high-skill			37			
2.2.6	Leadership opportunities	for women	50.29	64			

### **UZBEKISTAN**

	nal group				scorescore (income group average)	
	El 2023 Country Profile by Pillar			dici	Score (income group average)	
				-		
	Enable			<b>3</b> 3.1	<b>GROW.</b> 26.6 Formal Education	
	<b>T</b> 100			٥.١	Enrolment 20.7	U
	90			3.1.1	Vocational enrolment	0
	70			3.1.2	Tertiary enrolment	
	Global +60 50	Attract			Quality	
Kno	wledge Skills	A PARTY AND A PART		3.1.3	Tertiary education expenditure	
	130			3.1.4	Reading, maths, and science	
	110			3.1.5	University ranking0.0	
				3.2 3.2.1	Lifelong Learning	
	1			3.2.1	Prevalence of training in firms	
		***		3.2.3	Employee development	
	ocational and chnical Skills	Grow		3.3	Access to Growth Opportunities	
ie	chnical Skills				Empowerment	
	Ŧ			3.3.1	Delegation of authority	7
	1			3.3.2	Youth inclusionn/	a r
	Retain			2.2.2	Collaboration	
	<ul><li>Uzbekistan</li><li>Incom</li></ul>	ie group average		3.3.3 3.3.4	Use of virtual social networks	
		8 - 1 8		3.3.4	ose of virtual professional fletworks	J
		Score	Rank		DETAIN 62.0	
	ENABLE	40.11	76	<b>4</b> 4.1	RETAIN	
	Regulatory Landscape		98	4.1.1	Pension coverage 100.0	
	Government effectiveness		83	4.1.2	Social protection	
	Rule of law		116	4.1.3	Brain retention	
} !	Political stability		76 103	4.1.4	Environmental performance	1
	Corruption		103	4.1.5	Vulnerable employment	1
	Market Landscape		70	4.2	Lifestyle	2
	Extent of market dominance		21	4.2.1	Personal rights	
2	Domestic credit to private sector		85	4.2.2	Personal safety	
3	Cluster development		28	4.2.3	Physician density	
4	R&D expenditure	2.28	100	4.2.4	Sanitation	U
5	ICT infrastructure		n/a			
5	Urbanisation		97	5	VOCATIONAL AND TECHNICAL SKILLS61.9	
	Business and Labour Landscape	44.03	68	5.1	Mid-Level Skills	
	Labour Market Labour rights	n/a	n/a	5.1.1	Workforce with secondary education	
2	Labour rights		36	5.1.2	Population with secondary education	
-	Management Practice		50	5.1.3 5.1.4	Technicians and associate professionals	
3	Professional management	50.74	66	5.1.4	Employability	
ļ	Relationship of pay to productivity		8	5.2.1	Ease of finding skilled employees	
	Technology Adoption			5.2.2	Relevance of education system to the economy59.3	
5	Enterprise software		41	5.2.3	Skills matchingn/	
5 7	Cloud computing  Firms with website		51 96	5.2.4	Highly educated unemployment	9
				6	GLOBAL KNOWLEDGE SKILLS	5
	ATTRACT	50.80	65	6.1	High-Level Skills	
	External Openness	41.88	74	6.1.1	Workforce with tertiary education	6
	Attract Business			6.1.2	Population with tertiary education83.0	0
	FDI regulatory restrictiveness		42	6.1.3	Professionals	
	Financial globalisation	42.11	100	6.1.4	Researchers	
	Migrant stock	40 33	68	6.1.5 6.1.6	Senior officials and managers	
	International students		97	6.2	Talent Impact. 15.6	
	Brain gain		n/a	6.2.1	Innovation output	
	Internal Openness		48	6.2.2	High-value exports	
	Social Inclusion			6.2.3	Software development	8
	Tolerance of minorities		67	6.2.4	New business density	
2	Tolerance of immigrants		56	6.2.5	Scientific journal articles	7
3	Social mobility	75.31	19			
	Economic empowerment of women	58.41	109			

#### **VIET NAM**

Key Indicators

	(out of 134)		75		per capita (PPP US\$)	
	nal group Eastern, Southeastern Asia an				score	
-	lation (millions)				score (income group average)	
GT	CI 2023 Country Profile by Pillar				Score	e Rank
				3	GROW41.45	55
	Enable <b>\\ \_1</b> 00 \\ <b>\_9</b> 0			3.1	Formal Education. 37.32 Enrolment	
	<b>1</b> 80			3.1.1 3.1.2	Vocational enrolment	
	Global 60 Attrac	ct		3.1.2	Quality 22.74	02
Kno	wledge Skills			3.1.3	Tertiary education expenditure	87
	30 20			3.1.4	Reading, maths, and science	1.5
	10			3.1.5	University ranking12.36	
				3.2	Lifelong Learning	
				3.2.1	Business masters education	
				3.2.2	Prevalence of training in firms	
V	ocational and Grow			3.2.3	Employee development	
Te	chnical Skills			3.3	Access to Growth Opportunities	4
	İ			3.3.1	Delegation of authority	) 12
	I			3.3.2	Youth inclusion	
	Retain				Collaboration	
				3.3.3	Use of virtual social networks	6
	<ul> <li>Viet Nam</li> <li>Income group average</li> </ul>	ge		3.3.4	Use of virtual professional networks	10
		Score	Rank			
				4	RETAIN42.21	9
	ENABLE		59	4.1	Sustainability	
	Regulatory Landscape		67	4.1.1	Pension coverage	
1.1 1.2	Government effectiveness		53 71	4.1.2	Social protection	
1.2	Rule of law		68	4.1.3	Brain retention	7
1.4	Regulatory quality		93	4.1.4	Environmental performance	
1.5	Corruption		63	4.1.5	Vulnerable employment	) 99
2	Market Landscape		37	4.2	Lifestyle	
2.1	Extent of market dominance		26	4.2.1	Personal rights	
2.2	Domestic credit to private sector		16	4.2.2	Personal safety	
2.3	Cluster development	.70.34	25	4.2.3	Physician density	
2.4	R&D expenditure	7.60	65	4.2.4	Sanitation	7
2.5	ICT infrastructure.		13			
2.6	Urbanisation		117	5	VOCATIONAL AND TECHNICAL SKILLS 44.55	7
3	Business and Labour Landscape	.42.89	70	5.1	Mid-Level Skills	10
2.1	Labour Market	,	,	5.1.1	Workforce with secondary education	
3.1 3.2	Labour rights		n/a 27	5.1.2	Population with secondary education24.85	
5.2	Labour-employer cooperation	.04.63	27	5.1.3	Technicians and associate professionals8.62	
3.3	Professional management	56 51	50	5.1.4	Labour productivity per employee	
3.4	Relationship of pay to productivity.		21	5.2 5.2.1	Employability	
	Technology Adoption			5.2.2	Relevance of education system to the economy	
3.5	Enterprise software	8.00	119	5.2.3	Skills matching	
.3.6	Cloud computing	9.66	101	5.2.4	Highly educated unemployment	
3.7	Firms with website	. 45.17	69			
	ATTRACT	40.50		6	GLOBAL KNOWLEDGE SKILLS 24.40	
.1	ATTRACT.		<b>72</b>	6.1	High-Level Skills	
1	External Openness	. טע.עט	92	6.1.1	Workforce with tertiary education	
1.1	FDI regulatory restrictiveness	65 95	57	6.1.2 6.1.3	Population with tertiary education	
1.2	Financial globalisation		88	6.1.4	Researchers	
-	Attract People			6.1.5	Senior officials and managers	
1.3	Migrant stock	0.52	133	6.1.6	Digital skills	
1.4	International students		105	6.2	Talent Impact	
1.5	Brain gain	.60.32	32	6.2.1	Innovation output45.05	
2	Internal Openness	. 63.18	39	6.2.2	High-value exports	
	Social Inclusion			6.2.3	Software development	
2.1	Tolerance of minorities		56	6.2.4	New business density	
2.2	Tolerance of immigrants		79	6.2.5	Scientific journal articles	8
2.3	Social mobility	.56.25	47			
	Gender Equality					

47 40

 2.2.4
 Economic empowerment of women.
 83.19

 2.2.5
 Gender parity in high-skilled jobs.
 84.63

 2.2.6
 Leadership opportunities for women.
 52.20

Gender Equality

#### 7 A MRIA

Incor Regio Popu	onal grouplation (millions)	Lower-middle ind Sub-Saharan A	come frica	GDP <sub>]</sub> GDP ( GTCI GTCI	US\$ score
GI	CI 2023 Country Profile by Pillar			3	GRO
	]	Enable		<b>3</b> .1	Forr
		<b>-</b> 100		۱.د	Enro
		<b>-</b> 90		3.1.1	Voc
		<b>1</b> 80		3.1.2	Tert
	Global	60 Attract		3.1.2	Qua
Kno	owledge Skills 🗽	150 40		3.1.3	Tert
	· **	30		3.1.4	Read
	***	20		3.1.5	Univ
	7			3.2	Life
		<b>*13</b>		3.2.1	Busi
	J. M.	1		3.2.2	Prev
	and the second	***		3.2.3	Emp
	ocational and	Grow		3.3	Acc
Т	echnical Skills	+		5.5	Emp
		t		3.3.1	Dele
		I		3.3.2	You
		Retain			Coll
				3.3.3	Use
	<ul> <li>Zambia</li> </ul>	<ul> <li>Income group average</li> </ul>		3.3.4	Use
		Score	Rank		
1	ENABLE	33.32	107	4	RE1
1.1			96	4.1	Sust
1.1.1			118	4.1.1	Pen:
1.1.2			100	4.1.2	Soci
1.1.3	Political stability	62.74	62	4.1.3	Brai
1.1.4		27.75	101	4.1.4	Envi
1.1.5		21.92	95	4.1.5	Vulr
1.2	Market Landscape		116	4.2	Life
1.2.1	· ·	21.42	107	4.2.1	Pers

gulatory Landscape         32.89           overnment effectiveness         .22.49           le of law         .29.53           litical stability         .62.74           gulatory quality         .27.75           urruption         .21.92           arket Landscape         28.11           tent of market dominance         .21.42           omestic credit to private sector         .10.44           uster development         .41.71           ID expenditure         .n/a           I infrastructure         .31.94           banisation         .35.06           siness and Labour Landscape         .38.97           bour Market	96 118 100 62 101 95 116 107 126 73 n/a 117 106 88
overnment effectiveness         .22.49           le of law         .29.53           litical stability         .62.74           gulatory quality         .2775           purpose         .21.92           arket Landscape         .28.11           tent of market dominance         .21.42           pmestic credit to private sector         .10.44           uster development         .41.71           ID expenditure         .n/a           a Infrastructure         .31.94           banisation         .35.06           siness and Labour Landscape         .38.97           bour Market	100 62 101 95 116 107 126 73 n/a 117 106 88
litical stability.       .62.74         gulatory quality.       .27.75         rruption       .21.92         arket Landscape       .28.11         tent of market dominance.       .21.42         omestic credit to private sector       .10.44         uster development.       .41.71         Dependiture.       .n/a         I infrastructure.       .31.94         banisation       .35.06         siness and Labour Landscape.       .38.97         bour Market	62 101 95 116 107 126 73 n/a 117 106 88
gulatory quality.     .27.75       puruption     .21.92       arket Landscape     .28.11       tent of market dominance     .21.42       pmestic credit to private sector     .10.44       uster development     .41.71       D expenditure     .n/a       I infrastructure     .31.94       banisation     .35.06       siness and Labour Landscape     .38.97       bour Market	101 95 116 107 126 73 n/a 117 106 88
viruption         21.92           barket Landscape         28.11           tent of market dominance         21.42           smestic credit to private sector         10.44           buster development         41.71           JO expenditure         .n/a           T infrastructure         31.94           banisation         35.06           siness and Labour Landscape         38.97           bour Market         bour rights           bour-employer cooperation         28.65           anagement Practice	95 116 107 126 73 n/a 117 106 88
arket Landscape         28.11           tent of market dominance         .21.42           pmestic credit to private sector         .10.44           uster development         .41.71           .D expenditure         .n/a           I infrastructure         .31.94           banisation         .35.06           ssiness and Labour Landscape         .38.97           bour Market	116 107 126 73 n/a 117 106 88
tent of market dominance	107 126 73 n/a 117 106 88
tent of market dominance	126 73 n/a 117 106 88
Inmestic credit to private sector         10.44           Juster development         .41.71           ID expenditure         .n/a           I infrastructure         31.94           banisation         .35.06           siness and Labour Landscape         .38.97           bour Market         .70.38           bour-employer cooperation         .28.65           anagement Practice	73 n/a 117 106 88
Juster development       41.71         J.D. expenditure       .n/a         T infrastructure       31.94         banisation       .35.06         sisiness and Labour Landscape       38.97         bour Market       bour rights       .70.38         bour-employer cooperation       .28.65         anagement Practice	n/a 117 106 88
D expenditure	117 106 88 75
T infrastructure.       .31.94         banisation       .35.06         siness and Labour Landscape       .38.97         bour Market	106 88 75
banisation	88 75
siness and Labour Landscape. 38.97 bour Market bour rights70.38 bour-employer cooperation .28.65 anagement Practice	75
bour Market bour rights	
bour rights	
bour-employer cooperation	
anagement Practice	112
stoccional management 40.47	69
ofessional management	95
	93
	107
	107
, ,	113 53
ms with website	53
TTRACT51.69	62
ternal Openness	65
tract Business	
Il regulatory restrictiveness	n/a
	72
9	
·	99
9	n/a
	40
9	64
·	0.
	63
	43
9	101
	74
	75
	59
adership opportunities for women	JJ
	lationship of pay to productivity.       46.64         chnology Adoption       .12.92         terprise software       .12.92         bud computing       .75.79         ms with website       .57.19         TTRACT         ternal Openness       .46.37         tract Business       .n/a         pl regulatory restrictiveness       .n/a         nancial globalisation       .59.15         tract People       grant stock       .23.85         grant stock       .23.85         iernational students       .n/a         ain gain       .56.12         ternal Openness       .57.01         cial Inclusion       .43.62         lerance of immigrants       .70.77         cial mobility       .34.35         ender Equality       .94.25         onomic empowerment of women       .73.45         ender parity in high-skilled jobs       .68.02         adership opportunities for women       .51.84

33.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3	GROW.         18.07           Formal Education.         0.90           Enrolment	Raa 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3.1.1 3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 3.2 3.2.1 3.2.2 3.2.2 3.2.3 3.3.3	GROW.         18.07           Formal Education.         0.90           Enrolment	11 11 11 11 11 11 11 11 11 11 11 11 11
3.1.1 3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 3.2 3.2.1 3.2.2 3.2.1 3.2.2 3.3.3	Formal Education.         0.90           Enrolment        n/a           Vocational enrolment        n/a           Tertiary enrolment         1.81           Quality         Tertiary education expenditure           Tertiary education expenditure        n/a           Reading, maths, and science        n/a           University ranking        00           Lifelong Learning        29.96           Business masters education        00           Prevalence of training in firms        43.43           Employee development        46.46           Access to Growth Opportunities        23.35           Empowerment	1
3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 3.2 3.2.1 3.2.2 3.2.3 3.3	Enrolment         .n/a           Vocational enrolment         .n/a           Tertiary enrolment         1.81           Quality	1
3.1.2 3.1.3 3.1.4 3.1.5 3.2 3.2.1 3.2.2 3.2.3 3.3.3	Vocational enrolment         .n/a           Tertiary enrolment         1.81           Quality         -n/a           Tertiary education expenditure         .n/a           Reading, maths, and science         .n/a           University ranking         0.00           Lifelong Learning         .29.96           Business masters education         0.00           Prevalence of training in firms         .43.43           Employee development         .46.46           Access to Growth Opportunities         .23.35           Empowerment	1
3.1.2 3.1.3 3.1.4 3.1.5 3.2.1 3.2.2 3.2.1 3.2.2 3.3.3	Tertiary enrolment         1.81           Quality	1
3.1.3 3.1.4 3.1.5 3.2.3 3.2.1 3.2.2 3.2.3 3.3.3	Quality         .n/a           Tertiary education expenditure         .n/a           Reading, maths, and science         .n/a           University ranking         0.00           Lifelong Learning         29.96           Business masters education         0.00           Prevalence of training in firms         43.43           Employee development         46.46           Access to Growth Opportunities         23.35           Empowerment	1
3.1.4 3.1.5 3.2.1 3.2.2 3.2.3 3.3.3	Tertiary education expenditure         .n/a           Reading, maths, and science         .n/a           University ranking         0.00           Lifelong Learning         29.96           Business masters education         0.00           Prevalence of training in firms         .43.43           Employee development         .46.46           Access to Growth Opportunities         .23.35           Empowerment	1
3.1.4 3.1.5 3.2.1 3.2.2 3.2.3 3.3.3	Reading, maths, and science         .n/a           University ranking         0.00           Lifelong Learning         29.96           Business masters education         0.00           Prevalence of training in firms         .43.43           Employee development         .46.46           Access to Growth Opportunities         .23.35           Empowerment	1
3.1.5 3.2 3.2.1 3.2.2 3.2.3 3.3.3	University ranking         0.00           Lifelong Learning         29.96           Business masters education         0.00           Prevalence of training in firms         43.43           Employee development         46.46           Access to Growth Opportunities         23.35           Empowerment	
3.2.1 3.2.2 3.2.3 3.3 3.3.1	Lifelong Learning         29,96           Business masters education         0.00           Prevalence of training in firms         .43,43           Employee development         .46,46           Access to Growth Opportunities         .23,35           Empowerment	1
3.2.2 3.2.3 3.3 3.3.1	Prevalence of training in firms	1
3.2.3 3.3 3.3.1	Employee development.46.46Access to Growth Opportunities.23.35Empowerment	
3.3 3.3.1	Access to Growth Opportunities	
3.3.1	Empowerment	
	D I 11 f 11 11	
1.5.2	Delegation of authority	
	Collaboration	
3.3.3	Use of virtual social networks	
3.3.4	Use of virtual professional networks	1
	RETAIN	1
l.1	Sustainability	1
1.1.1	Pension coverage	
4.1.2	Social protection	1
4.1.3	Brain retention	
1.1.4	Environmental performance	
4.1.5	Vulnerable employment	1
4.2	Lifestyle	1
4.2.1 4.2.2	Personal rights         53.06           Personal safety         13.52	1
4.2.3	Physician density. 3.95	
4.2.4	Sanitation	1
5	VOCATIONAL AND TECHNICAL SKILLS37.50	
5.1	Mid-Level Skills	
5.1.1	Workforce with secondary education24.00	1
5.1.2	Population with secondary education	- 1
5.1.3 5.1.4	Technicians and associate professionals	
5.1.4	Labour productivity per employee	1
5.2.1	Ease of finding skilled employees	
5.2.2	Relevance of education system to the economy	
5.2.3	Skills matching	
5.2.4	Highly educated unemployment	
5	GLOBAL KNOWLEDGE SKILLS11.35	1
5.1	High-Level Skills	1
5.1.1 5.1.2	Workforce with tertiary education	1
5.1.2	Professionals	
5.1.4	Researchers	
5.1.5	Senior officials and managers	
5.1.6	Digital skills	
5.2	Talent Impact9.45	1
5.2.1	Innovation output	
5.2.2	High-value exports	1
5.2.3	Software development	
5.2.4	New business density 5.73 Scientific inverse articles	
5.2.5	Scientific journal articles	

Vocational and Technical Skills

### **ZIMBABWE**

Key Indicators	
Regional group	Lower-middle income Sub-Saharan Africa
GTCI 2023 Country Profile by Pillar	
Global Knowledge Skills	able 100 190 180 770 60 Attract 140 130

Retain

Timbabwe

Retain

Score Rank

	560.6	- riarini
1	ENABLE	129
1.1	Regulatory Landscape14.56	130
1.1.1	Government effectiveness	130
1.1.2	Rule of law	130
1.1.3	Political stability	118
1.1.4	Regulatory quality6.48	132
1.1.5	Corruption	127
1.2	Market Landscape	127
1.2.1	Extent of market dominance	116
1.2.2	Domestic credit to private sector	125
1.2.3	Cluster development	130
1.2.4	R&D expendituren/a	n/a
1.2.5	ICT infrastructure	114
1.2.6	Urbanisation	121
1.3	Business and Labour Landscape	113
	Labour Market	
1.3.1	Labour rights	100
1.3.2	Labour-employer cooperation	82
1.5.2	Management Practice	02
1.3.3	Professional management	31
1.3.4	Relationship of pay to productivity	108
1.5.4	Technology Adoption	100
1.3.5	Enterprise software	115
1.3.5	Cloud computing	92
1.3.7	Firms with website	88
1.5./	Tillis with website	00
2	ATTRACT35.43	117
2.1	External Openness	122
	Attract Business	
2.1.1	FDI regulatory restrictiveness	n/a
2.1.2	Financial globalisation	108
2.1.2	Attract People	100
2.1.3	Migrant stock	64
2.1.3	International students. 1.37	101
2.1.5	Brain gain	125
2.1.3	Internal Openness	105
2.2	Social Inclusion 46.99	103
2.2.1	Tolerance of minorities	71
2.2.1	Tolerance of immigrants	88
2.2.2		126
۷.۷.۵	Social mobility	120
2.2.4	Economic empowerment of women	54
2.2.4	Gender parity in high-skilled jobs	91
2.2.5	Leadership opportunities for women	107
2.2.0	Leadership opportunities for women	107

GTCI	score	26.1
GTCI	score (income group average)	32.0
	Score	Ran
3	GROW23.42	112
3.1	Formal Education	91
3.1.1	Vocational enrolmentn/a	n/
3.1.2	Tertiary enrolment	11:
3.1.3	Tertiary education expenditure	6-
3.1.4	Reading, maths, and science	n/
3.1.5	University ranking	7
3.2 3.2.1	Lifelong Learning	11
3.2.1 3.2.2	Business masters education	5 6
3.2.3	Employee development	9
3.3	Access to Growth Opportunities	11
3.3.1	Empowerment Delegation of authority	5
3.3.2	Youth inclusion	10
3.3.3	Collaboration Use of virtual social networks	12
3.3.4	Use of virtual professional networks	9
1	RETAIN. 24.65	12
• 4.1		
+. i 4.1.1	Sustainability	11
+.1.1 4.1.2	Pension coverage	1
1.1.2 1.1.3	Social protection	12
1.1.3 1.1.4	Environmental performance	12
1.1.4 1.1.5	Vulnerable employment	1
1.7	Lifestyle	10
1.2.1	Personal rights	10
1.2.2	Personal safety	12
1.2.3	Physician density2.23	1
1.2.4	Sanitation	12
5	VOCATIONAL AND TECHNICAL SKILLS39.45	8
5.1	Mid-Level Skills	10
5.1.1	Workforce with secondary education	3
5.1.2	Population with secondary education2.02	9
5.1.3	Technicians and associate professionals8.30	1
5.1.4	Labour productivity per employee2.68	10
5.2	Employability60.35	6
5.2.1	Ease of finding skilled employees	-
5.2.2	Relevance of education system to the economy	
5.2.4	Skills matching	
	GLOBAL KNOWLEDGE SKILLS	10
5.1	High-Level Skills	10
5.1.1	Workforce with tertiary education	8
5.1.2	Population with tertiary education	-
5.1.3	Professionals	1
5.1.4	Researchers	Ğ
5.1.5	Senior officials and managers	9
5.1.6	Digital skills4.46	7
5.2	Talent Impact	1
5.2.1	Innovation output	
5.2.2	High-value exports	9
5.2.3	Software development	1
5.2.4	New business density	1/
5.2.5	Scientific journal articles	10

# Data Tables

#### How to Read the Data Tables



This appendix provides the rankings and scores for each of the 69 indicators that make up the GTCI 2023.

Each data table consists of four parts:

- 1 Name of the indicator
- 2 Description or technical name and the latest year for which data are available
- 3 Ranking
- 4 Source

- 1 The first section provides the indicator number that represents its position in the overall structure of the GTCI. The first digit refers to the pillar, the second digit refers to the sub-pillar within that pillar, and the third digit refers to the position of the indicator in that sub-pillar. For instance, the indicator 1.2.3 Cluster development refers to the third indicator in the second sub-pillar of the first pillar.
- 2 The second section spells out the description or technical name of the indicator, along with the latest year for which the data are available. For some countries, the year of the data differs from the most frequent year. In these cases, the most recent year available is used.

For indicators derived from a published report where the publication date differs from the year the data were actually collected, the year of the data collection is used. For instance, the index score taken from the Women, Business and the Law 2023 report published in March 2023 refers to data collected in 2022.

For qualitative indicators derived from survey responses, the question asked in the survey is shown as the exact technical name. This applies to all indicators taken from the World Economic Forum's Executive Opinion Survey, for instance.

- 3 The ranking of the countries within the data table follows their normalised scores. There are three parts to the information in the ranking: the rank of the country, the raw value, and the normalised score. Because of the way outliers are treated, several countries have the same score in some indicators. For indicators in which two or more countries happen to have the same raw value (with a tie in the ranking as a result), the relevant countries have been sorted alphabetically. For more information about normalisation methods and indicator names, please refer to the Technical Notes and the Sources and Definitions sections in the Appendices.
- 4 The final section presents all sources and a link to the data source as well as the cut-off year.

#### **Index of Data Tables**

1	ENABLE	207
1.1	Regulatory Landscape	
1.1.1	Government effectiveness	208
1.1.2	Rule of law	209
1.1.3	Political stability	210
1.1.4	Regulatory quality	
1.1.5	Corruption	
1.2	Market Landscape	
1.2.1	Extent of market dominance	213
1.2.2	Domestic credit to private sector	
1.2.3	Cluster development	
1.2.4	R&D expenditure	
1.2.5	ICT infrastructure	
1.2.5	Urbanisation	
		210
1.3	Business and Labour Landscape	240
1.3.1	Labour rights	
1.3.2	Labour-employer cooperation	
1.3.3	Professional management	
1.3.4	Relationship of pay to productivity	
1.3.5	Enterprise software	
1.3.6	Cloud computing	
1.3.7	Firms with website	225
_		
2	ATTRACT	227
2.1	External Openness	
2.1.1	FDI regulatory restrictiveness	
2.1.2	Financial globalisation	
2.1.3	Migrant stock	
2.1.4	International students	
2.1.5	Brain gain	232
2.2	Internal Openness	
2.2.1	Tolerance of minorities	233
2.2.2	Tolerance of immigrants	234
2.2.3	Social mobility	
2.2.4	Economic empowerment of women	
2.2.5	Gender parity in high-skilled jobs	
2.2.6	Leadership opportunities for women	
3	GROW	239
3.1	Formal Education	
3.1.1	Vocational enrolment	240
3.1.2		
	Tertiary enrolment	
3.1.3	Tertiary education expenditure	
3.1.4	Reading, maths, and science	
3.1.5	University ranking	244
3.2	Lifelong Learning	
3.2.1	Business masters education	245

3.2.2	Prevalence of training in firms	246
3.2.3	Employee development	247
3.3	Access to Growth Opportunities	
3.3.1	Delegation of authority	248
3.3.2	Youth inclusion	
3.3.3	Use of virtual social networks	
3.3.4	Use of virtual professional networks	
4	RETAIN	253
4.1	Sustainability	
4.1.1	Pension coverage	254
4.1.2	Social protection	
4.1.3	Brain retention	
4.1.4	Environmental performance	
4.1.5	Vulnerable employment	
4.2	Lifestyle	
4.2.1	Personal rights	250
4.2.2	Personal safety	
4.2.3	Physician density	
4.2.4	Sanitation	
7.2.7	Janitation	202
5	VOCATIONAL AND TECHNICAL SKILLS	263
5.1	Mid-I evel Skills	
5.1.1	Workforce with secondary education	264
5.1.2	Population with secondary education	
5.1.3	Technicians and associate professionals	
5.1.4	Labour productivity per employee	
		207
5.2	Employability	260
5.2.1 5.2.2	Ease of finding skilled employeesRelevance of education system to the economy	
5.2.2	Skills matching	
5.2.4	Highly educated unemployment	
5.2.4	riigiiiy eddcated driemployment	∠/ ۱
6	GLOBAL KNOWLEDGE SKILLS	273
6.1	High-Level Skills	
6.1.1	Workforce with tertiary education	27/
6.1.2	Population with tertiary education	
6.1.3	Professionals	
6.1.4	Researchers	
6.1.5	Senior officials and managers	
6.1.6	Digital skills	
6.2	Talent Impact	200
6.2.1	Innovation output	
6.2.2	High-value exports	
6.2.3 6.2.4	Software development  New business density	
6.2.5	Scientific journal articles	

# Pillar 1 Enable

# 1.1.1 Government effectiveness

#### Government effectiveness indicator | 2021

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Singapore		100.00	68	Montenegro		43.01
2	Switzerland		93.54	69	Albania		42.78
3	Denmark		92.83	70	Colombia		42.50
4	Finland		91.75	71	South Africa		42.43
5	Norway		88.73	72	Kuwait		41.90
6	Netherlands		86.91	73	Morocco		41.20
7	Luxembourg		85.73	74	Sri Lanka		40.79
8	Sweden		84.06	75	North Macedonia		40.76
9	Iceland		83.72	76	Türkiye		40.70
10	Canada		82.85	77	Oman		39.92
11	Austria		82.01	78	Romania		39.63
12	Australia		80.59	79	Bulgaria		39.39
13	Ireland		80.37	80	Ghana		39.13
14	Brunei Darussalam		79.14	81	Tunisia		38.70
15	Korea, Rep		77.93	82	Russian Federation		38.47
16			77.93	83			37.95
	Japan				Uzbekistan		
17	United Arab Emirates		77.74	84	Benin		37.71
18	Estonia		77.34	85	Ecuador		37.65
19	New Zealand		76.54	86	Armenia		36.64
20	United States of America		76.18	87	Peru		36.36
21	Germany		76.05	88	Mexico		35.08
22	Israel		75.08	89	El Salvador		35.06
23	United Kingdom		74.77	90	Kenya		34.63
24	France		74.47	91	Argentina		33.97
25	Slovenia		72.24	92	Pakistan		32.82
26	Belgium	1.13	70.92	93	Moldova, Rep		32.76
27	Qatar	1.11	70.63	94	Ukraine	0.41	32.66
28	Czech Republic	1.11	70.55	95	Cambodia	0.42	32.32
29	Lithuania	1.06	69.21	96	Egypt	0.43	32.09
30	Malaysia	0.99	67.59	97	Brazil	0.46	31.38
31	Portugal	0.99	67.58	98	Mongolia	0.47	31.21
32	Spain	0.95	66.48	99	Côte d'Ivoire	0.50	30.35
33	Malta	0.89	65.12	100	Uganda	0.57	28.64
34	Latvia	0.87	64.62	101	Ethiopia	0.61	27.57
35	Mauritius	0.85	64.04	102	Lao PDR	0.62	27.46
36	China	0.84	63.82	103	Algeria	0.62	27.38
37	Uruguay	0.84	63.81	104	Paraguay	0.62	27.33
38	Cyprus	0.74	61.22	105	Bangladesh	0.63	27.22
39	Bahrain	0.72	60.74	106	Tanzania, United Rep	0.63	27.11
40	Georgia	0.65	59.17	107	Gambia	0.64	26.94
41	Hungary		58.68	108	Burkina Faso		24.75
42	Chile		58.47	109	Kyrgyzstan		24.73
43	Croatia		57.60	110	Eswatini		24.69
44	Slovakia		56.06	111	Bolivia, Plurinational St		24.61
45	Saudi Arabia		55.24	112	Mauritania		24.57
46	Greece		53.92	113	Guatemala		24.12
47	Jamaica		53.18	114	Mozambique		23.78
48	Indonesia		52.31	115	Malawi		23.69
49	Italy		51.87	116	Belarus		23.64
50	Botswana		51.69	117	Honduras		23.36
51	Poland		50.16	118	Zambia		22.49
52	India		49.90	119	Nicaragua		21.61
53	Viet Nam		49.79	120	Iran, Islamic Rep		21.46
54	Rwanda		49.79	121	Nepal		21.40
55				121	!		21.13
	Costa Rica		49.28		Cameroon		
56	Thailand		49.17	123	Lesotho		20.08
57	Azerbaijan		49.04	124	Guinea		20.03
58	Jordan		48.53	125	Nigeria		18.03
59	Trinidad and Tobago		47.67	126	Madagascar		17.92
60	Panama		46.84	127	Bosnia and Herzegovina		16.90
61	Philippines		44.61	128	Angola		16.45
62	Kazakhstan		44.46	129	Mali		12.36
63	Namibia		44.34	130	Zimbabwe		11.87
64	Senegal		44.34	131	Lebanon		10.77
65	Serbia		44.04	132	Burundi		9.67
66	Cabo Verde		43.93	133	Chad		7.35
67	Dominican Republic	0.03	43.63	134	Congo, Dem. Rep	1.72	0.00

**SOURCE:** World Bank, Worldwide Governance Indicators, 2022 Update (<a href="www.govindicators.org">www.govindicators.org</a>)

## 1.1.2 Rule of law

## Rule of law indicator | 2021

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Finland	2.06	100.00	68	Armenia		42.74
2	Norway		97.13	69	Dominican Republic		42.74
3	Denmark		96.77	70	Trinidad and Tobago		41.67
4	Singapore		94.68	71	Viet Nam		41.40
5	New Zealand		93.63	72	Jamaica		40.83
6	Switzerland		93.36	73	Indonesia		39.32
7	Austria		92.83	74	Mongolia		39.30
8	Luxembourg		92.80	75	Malawi		38.96
9	Iceland		91.94	76	Egypt		38.79
10	Netherlands		91.53	77	Panama		38.72
11	Sweden		91.39	78	Morocco		38.56
12	Australia		89.80	79	Albania		38.49
13	Canada		88.55	80	Bosnia and Herzegovina		37.88
14	Germany		88.05	81	Brazil		37.84
15	Japan		87.28	82	Moldova, Rep		36.47
16	Ireland		85.98	83	Ecuador		36.27
17	Estonia		83.25	84	Uganda		35.93
18	United Kingdom		83.22	85	Senegal		35.61
19	United States of America		82.95	86	Gambia		35.05
20	Belgium		80.54	87	Kenya		34.92
21	France		79.56	88	Lesotho		34.39
22	Portugal		75.42	89	Türkiye		34.22
23	Korea, Rep		75.25	90	Burkina Faso		33.64
	Czech Republic				Colombia		
24	·		75.23	91			33.28
25 26	Lithuania		74.80	92	Argentina		33.00
	Slovenia		72.68	93	Nepal		32.89
27	Latvia		71.38	94	Kazakhstan		32.34
28	Israel		70.33	95	Peru		31.59
29	Qatar		69.96	96	Tanzania, United Rep.		31.39
30	Chile		69.60	97	Paraguay		30.47
31	Brunei Darussalam		68.96	98	Eswatini		30.38
32	Spain		68.58	99	Azerbaijan		29.75
33	Mauritius		68.51	100	Zambia		29.53
34	Malta		68.27	101	Benin		29.52
35	United Arab Emirates		67.36	102	Ethiopia		29.18
36	Uruguay		64.75	103	Bangladesh		29.04
37	Slovakia		64.06	104	Côte d'Ivoire		28.45
38	Cyprus		62.23	105	Pakistan		28.36
39	Malaysia	0.56	60.12	106	Lao PDR		28.23
40	Hungary		59.41	107	Philippines		28.23
41	Botswana		58.10	108	Ukraine		27.75
42	Bahrain		57.81	109	Mauritania		27.47
43	Costa Rica		57.31	110	Mexico		24.03
44	Poland		57.11	111	Algeria		23.60
45	Romania		56.13	112	El Salvador		22.76
46	Oman	0.41	56.08	113	Nigeria	0.86	22.55
47	Namibia	0.36	54.92	114	Madagascar		22.25
48	Greece		54.59	115	Russian Federation		22.17
49	Cabo Verde		54.58	116	Uzbekistan		21.74
50	Croatia	0.30	53.34	117	Cambodia	0.90	21.36
51	Italy	0.27	52.46	118	Mali	0.90	21.31
52	Kuwait	0.26	52.22	119	Iran, Islamic Rep	0.95	20.11
53	Saudi Arabia	0.23	51.41	120	Angola	0.95	19.98
54	Jordan	0.21	50.95	121	Mozambique	1.04	17.78
55	Rwanda	0.20	50.64	122	Honduras	1.07	16.79
56	Georgia	0.17	49.84	123	Lebanon	1.07	16.75
57	South Africa	0.13	48.77	124	Kyrgyzstan	1.07	16.75
58	Thailand	0.11	48.35	125	Guatemala	1.09	16.24
59	Tunisia	0.10	47.84	126	Cameroon	1.10	16.12
60	Sri Lanka	0.04	46.32	127	Belarus	1.10	16.05
61	China	0.04	46.23	128	Guinea	1.13	15.24
62	Bulgaria		44.13	129	Bolivia, Plurinational St	1.16	14.37
63	Montenegro		43.72	130	Zimbabwe		11.78
64	North Macedonia		43.28	131	Burundi		10.90
65	India		43.14	132	Chad		10.07
66	Ghana	-0.08	43.14	133	Nicaragua	1.36	9.25
67	Serbia		42.86	134	Congo, Dem. Rep.		0.00
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**SOURCE:** World Bank, Worldwide Governance Indicators, 2022 Update (<a href="www.govindicators.org">www.govindicators.org</a>)

# 1.1.3 Political stability

## Political stability and absence of violence indicator | 2021

Rank	Country	Value	Score	Rank	Country	Value S	Score
1	Singapore	1.49	100.00	68	Viet Nam		58.19
2	New Zealand		98.58	69	Cambodia		57.74
3	Iceland		96.89	70	Serbia		57.68
4	Luxembourg		92.54	71	Montenegro		57.30
5	Brunei Darussalam	1.17	91.56	72	Senegal	0.17	56.76
6	Switzerland	1.13	90.59	73	Moldova, Rep	0.21	55.83
7	Norway	1.10	89.87	74	El Salvador	0.21	55.68
8	Uruguay		88.38	75	Lesotho	0.22	55.46
9	Sweden	1.03	88.06	76	Uzbekistan	0.24	54.94
10	Japan	1.03	87.89	77	Nepal	0.24	54.85
11	Finland	0.98	86.70	78	Kazakhstan	0.25	54.56
12	Botswana	0.98	86.61	79	Ecuador	0.27 5	54.25
13	Malta	0.97	86.46	80	Jordan	0.28 5	54.00
14	Qatar	0.96	86.08	81	Benin		53.34
15	Czech Republic		86.07	82	Sri Lanka		52.90
16	Portugal		85.95	83	Bolivia, Plurinational St		52.89
17	Denmark		85.87	84	Bosnia and Herzegovina		51.28
18	Canada		85.53	85	Guatemala		50.97
19	Netherlands		84.97	86	Morocco		50.87
20	Austria		84.96	87	Peru		50.62
21	Cabo Verde		84.64	88	Georgia		50.16
22	Costa Rica		83.87	89	Kyrgyzstan		50.10
23	Hungary		83.57	90	Tanzania, United Rep.		49.81
24	Ireland		83.45	91	Nicaragua		49.02
25	Mauritius		83.43	92	China		18.64
26	Australia		83.30	93	Brazil		18.56
27	Lithuania		82.38	94	Bahrain		18.04
28	Slovenia		80.94	95	Indonesia		18.00
29	Germany		80.83	96	Thailand		46.98
30	Estonia		80.82	97	Saudi Arabia		45.99
31	Lao PDR		80.06	98	Honduras		45.26
32	Croatia		79.58	99	India		45.18
33	Latvia		79.05	100	Madagascar		14.64
34	Korea, Rep		78.40	101	Mexico		44.61
35	Mongolia		78.19	101	Russian Federation		14.39
36	United Arab Emirates		78.06	102	Mauritania		43.74
37			77.10	103	Tunisia		43.08
38	Belgium Spain		76.23	104	South Africa		42.80
39	·						42.69
40	Italy		76.21	106 107	Angola		42.09
41	Slovakia		75.72 75.42	107	Belarus		42.02 39.44
42	Namibia United Kingdom		75.42 75.27	108	Armenia		38.98
43	Romania		75.27	110	Uganda		38.82
43	Poland		73.03	111	Algeria		38.38
44	Oman		74.30 74.35	112	Colombia		37.40
46	Bulgaria		73.09	113	Philippines		37.40
47	Cyprus		73.09	114	1.1		36.39
48	France		72.09		Côte d'Ivoire Bangladesh		35.94
49			68.95	115 116	Guinea		35.94
50	Kuwait Panama				Egypt		34.54
51	Jamaica		68.60	117			34.47
			66.98	118	Zimbabwe		
52	Gambia		65.73	119	Israel		33.57
53	Rwanda		65.60	120	Kenya		32.84
54	Trinidad and Tobago		65.20	121	Türkiye		32.62
55	Greece		65.19	122	Ukraine		32.60
56	Malaysia		64.78	123	Mozambique		29.23
57	Dominican Republic		64.74	124	Chad		26.44
58	North Macedonia		64.42	125	Burundi		25.70
59	Albania		64.02	126	Cameroon		24.60
60	Ghana		62.90	127	Lebanon		22.34
61	Chile		62.80	128	Congo, Dem. Rep.		19.18
62	Zambia		62.74	129	Iran, Islamic Rep		19.00
63	United States of America		61.30	130	Burkina Faso		18.56
64	Paraguay		61.09	131	Pakistan		17.83
65	Eswatini		60.39	132	Nigeria		14.90
66	Argentina		58.41	133	Ethiopia		7.39
67	Malawi	0.11	58.25	134	Mali	2.35	0.00

**SOURCE:** World Bank, Worldwide Governance Indicators, 2022 Update (<a href="www.govindicators.org">www.govindicators.org</a>)

# 1.1.4 Regulatory quality

## Regulatory quality indicator | 2021

Rank	Country	Value	Score	Rank	Country	Value Sco
1	Singapore	2.23	100.00	68	Philippines	0.08 44.
2	Luxembourg	1.92	91.80	69	Rwanda	0.07 43.
3	Finland	1.90	91.36	70	Serbia	
4	Australia	1.84	89.82	71	Moldova, Rep	0.01 42.
5	Denmark	1.81	89.04	72	Namibia	0.00 41.
6	New Zealand	1.81	89.03	73	Azerbaijan	0.06 40.
7	Netherlands	1.75	87.58	74	South Africa	0.07 40.
8	Sweden	1.75	87.58	75	India	0.08 40.
9	Switzerland	1.73	87.07	76	Türkiye	0.08 39.
10	Norway	1.64	84.54	77	Trinidad and Tobago	0.09 39.
11	Germany	1.63	84.44	78	Brazil	
12	Canada	1.62	84.07	79	Morocco	0.12 38.
13	Ireland		82.64	80	Bosnia and Herzegovina	
14	Estonia	1.56	82.56	81	Ghana	0.20 36.
15	Iceland		81.93	82	Paraguay	
16	United Kingdom		80.14	83	Mongolia	
17	United States of America		79.78	84	Mexico	
18	Japan		77.81	85	Côte d'Ivoire	
19	Austria		77.10	86	Ukraine	
20	Czech Republic		77.10	87	Senegal	
21	Belgium		76.94	88	China	
22	Lithuania		75.24	89	Guatemala	
23	France		74.17	90	El Salvador	
24	Latvia		73.85	91	Sri Lanka	
25	Israel		73.48	92	Tunisia	
26	Mauritius		72.39	93	Viet Nam	
27	Korea, Rep		70.64	94	Benin	
	Georgia		69.62	95		
28	3			95	Kenya	
29 30	United Arab Emirates		68.41 67.88	90	Burkina Faso	
	Brunei Darussalam				Uganda	
31	Chile		66.84	98	Egypt	
32	Slovakia		64.79	99	Honduras	
33	Qatar		64.51	100	Russian Federation	
34	Cyprus		64.39	101	Zambia	
35	Bahrain		64.14	102	Kyrgyzstan	
36	Poland		63.90	103	Uzbekistan	
37	Slovenia		63.75	104	Eswatini	
38	Malta		63.22	105	Nepal	
39	Spain		63.15	106	Argentina	
40	Portugal		61.20	107	Mali	
41	Uruguay		60.85	108	Tanzania, United Rep	
42	Malaysia		60.85	109	Cambodia	
43	Botswana		58.04	110	Angola	
44	Italy		56.25	111	Ecuador	
45	Croatia		55.13	112	Pakistan	
46	Hungary		54.98	113	Lesotho	
47	Costa Rica		53.94	114	Mozambique	
48	Bulgaria		53.74	115	Malawi	
49	Greece		53.56	116	Madagascar	
50	Montenegro		53.28	117	Nicaragua	
51	North Macedonia		52.92	118	Bangladesh	
52	Saudi Arabia		50.81	119	Gambia	
53	Oman		50.66	120	Lebanon	
54	Romania		50.12	121	Lao PDR	
55	Indonesia		49.84	122	Belarus	
56	Cabo Verde		49.20	123	Cameroon	
57	Colombia	0.22	47.81	124	Ethiopia	0.93 18.
58	Jamaica	0.20	47.18	125	Nigeria	0.93 17.
59	Albania	0.19	47.10	126	Guinea	0.96 17.
60	Panama	0.19	47.10	127	Burundi	0.98 16.
61	Kuwait	0.17	46.64	128	Mauritania	1.06 14.
62	Jordan	0.15	46.01	129	Bolivia, Plurinational St	1.15 12
63	Armenia		45.87	130	Chad	
64	Thailand	0.09	44.54	131	Algeria	
65	Kazakhstan	0.09	44.43	132	Zimbabwe	
66	Dominican Republic	0.09	44.41	133	Congo, Dem. Rep	
67	Peru		44.24	134	Iran, Islamic Rep	

**SOURCE:** World Bank, Worldwide Governance Indicators, 2022 Update (<a href="www.govindicators.org">www.govindicators.org</a>)

# 1.1.5 Corruption

## Corruption Perceptions Index $\mid$ 2021

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Denmark	90.00	100.00	68	India	40.00	31.51
2	Finland	87.00	95.89	68	North Macedonia	40.00	31.51
2	New Zealand	87.00	95.89	68	Tunisia	40.00	31.51
4	Norway	84.00	91.78	71	Belarus	39.00	30.14
5	Singapore	83.00	90.41	71	Colombia	39.00	30.14
5	Sweden	83.00	90.41	71	Moldova, Rep	39.00	30.14
7	Switzerland	82.00	89.04	74	Argentina	38.00	28.77
8	Netherlands	80.00	86.30	74	Brazil	38.00	28.77
9	Germany	79.00	84.93	74	Ethiopia	38.00	28.77
10	Ireland	77.00	82.19	74	Morocco	38.00	28.77
10	Luxembourg	77.00	82.19	74	Tanzania, United Rep	38.00	28.77
12	Australia	75.00	79.45	79	Côte d'Ivoire	37.00	27.40
13	Canada	74.00	78.08	79	Lesotho	37.00	27.40
13	Estonia	74.00	78.08	81	Albania	36.00	26.03
13	Iceland	74.00	78.08	81	Ecuador	36.00	26.03
13	Uruguay	74.00	78.08	81	Kazakhstan	36.00	26.03
17	Belgium	73.00	76.71	81	Panama	36.00	26.03
17	Japan	73.00	76.71	81	Peru	36.00	26.03
17	United Kingdom	73.00	76.71	81	Serbia	36.00	26.03
20	France	72.00	75.34	81	Sri Lanka	36.00	26.03
21	Austria	71.00	73.97	81	Thailand	36.00	26.03
22	United States of America	69.00	71.23	81	Türkiye	36.00	26.03
23	Chile	67.00	68.49	90	Bosnia and Herzegovina	34.00	23.29
23	United Arab Emirates	67.00	68.49	90	Gambia	34.00	23.29
25	Israel	63.00	63.01	90	Indonesia	34.00	23.29
25	Korea, Rep	63.00	63.01	90	Malawi	34.00	23.29
27	Lithuania	62.00	61.64	90	Nepal	34.00	23.29
27	Portugal	62.00	61.64	95	Algeria	33.00	21.92
29	Botswana	60.00	58.90	95	Angola	33.00	21.92
29	Cabo Verde	60.00	58.90	95	El Salvador	33.00	21.92
29	Spain	60.00	58.90	95	Mongolia	33.00	21.92
32	Latvia	59.00	57.53	95	Philippines	33.00	21.92
33	Qatar	58.00	56.16	95	Ukraine	33.00	21.92
34	Czech Republic	56.00	53.42	95	Zambia	33.00	21.92
34	Georgia	56.00	53.42	102	Dominican Republic	32.00	20.55
34	Italy	56.00	53.42	102	Kenya	32.00	20.55
34	Slovenia	56.00	53.42	104	Bolivia, Plurinational St	31.00	19.18
38	Poland	55.00	52.05	104	Lao PDR	31.00	19.18
39	Costa Rica	54.00	50.68	104	Mexico	31.00	19.18
40	Slovakia	53.00	49.32	104	Uzbekistan	31.00	19.18
41	Cyprus	52.00	47.95	108	Egypt	30.00	17.81
41	Greece	52.00	47.95	108	Eswatini	30.00	17.81
43	Malta	51.00	46.58	108	Mauritania	30.00	17.81
43	Rwanda	51.00	46.58	111	Mali	28.00	15.07
43	Saudi Arabia	51.00	46.58	111	Paraguay	28.00	15.07
46	Croatia	50.00	45.21	111	Russian Federation	28.00	15.07
46	Mauritius	50.00	45.21	114	Kyrgyzstan	27.00	13.70
48	Namibia	49.00	43.84	114	Pakistan	27.00	13.70
49	Jordan		41.10	116	Cameroon	26.00	12.33
49	Malaysia	47.00	41.10	116	Madagascar	26.00	12.33
51	Armenia	46.00	39.73	116	Mozambique	26.00	12.33
51	Romania	46.00	39.73	116	Uganda	26.00	12.33
53	China	45.00	38.36	120	Bangladesh	25.00	10.96
53	Montenegro	45.00	38.36	120	Guinea	25.00	10.96
55	Bahrain	44.00	36.99	120	Iran, Islamic Rep	25.00	10.96
55	Jamaica	44.00	36.99	123	Cambodia	24.00	9.59
55	Oman	44.00	36.99	123	Guatemala	24.00	9.59
58	Benin	43.00	35.62	123	Lebanon	24.00	9.59
58	Bulgaria	43.00	35.62	123	Nigeria	24.00	9.59
58	Ghana	43.00	35.62	127	Azerbaijan	23.00	8.22
58	Senegal	43.00	35.62	127	Honduras	23.00	8.22
58	South Africa	43.00	35.62	127	Zimbabwe	23.00	8.22
63	Burkina Faso	42.00	34.25	130	Congo, Dem. Rep	20.00	4.11
63	Hungary	42.00	34.25	131	Chad	19.00	2.74
63	Kuwait	42.00	34.25	131	Nicaragua	19.00	2.74
63	Trinidad and Tobago	42.00	34.25	133	Burundi	17.00	0.00
63	Viet Nam	42.00	34.25		Brunei Darussalam	n/a	n/a

**SOURCE:** Transparency International, *The Corruption Perceptions Index* 2022 (<a href="https://www.transparency.org/en/cpi/2022">https://www.transparency.org/en/cpi/2022</a>)

## 1.2.1 Extent of market dominance

Average answer to the question: In your country, how do you characterise corporate activity? [1 = dominated by a few business groups; 7 = spread among many firms] | 2022

Rank	Country	Value	Score	Rank	Country	Value Score
1	Switzerland	5.83	100.00	68	Korea, Rep	3.77 38.37
2	United States of America	5.49	89.94	69	Russian Federation	3.76 38.17
3	Denmark	5.36	85.85	70	South Africa	3.75 37.85
4	China	5.31	84.33	71	Côte d'Ivoire	3.75 37.72
5	Japan	5.26	82.87	72	Malta	3.74 37.55
6	Austria	5.25	82.75	73	Kuwait	3.73 37.12
7	Saudi Arabia	5.11	78.50	74	Cambodia	3.72 36.91
8	Sweden	5.07	77.24	75	Rwanda	3.71 36.61
9	Azerbaijan	5.00	75.14	76	Jamaica	3.70 36.38
10	Benin	5.00	75.10	77	Albania	3.68 35.61
11	Germany	4.97	74.40	78	Montenegro	3.68 35.53
12	Netherlands	4.93	72.99	79	Türkiye	3.66 35.16
13	Italy	4.92	72.91	80	Hungary	3.65 34.90
14	United Arab Emirates		72.84	81	Moldova, Rep	
15	Belgium		72.77	82	Guatemala	3.64 34.51
16	Slovenia	4.88	71.62	83	Colombia	3.63 34.05
17	United Kingdom	4.85	70.69	84	Argentina	
18	Norway	4.81	69.33	85	Senegal	
19	Poland		69.09	86	Ukraine	
20	Indonesia		68.70	87	Burundi	
21	Uzbekistan		68.46	88	Panama	
22	Jordan		67.43	89	Namibia	
23	Finland		66.91	90	Iceland	
24	Canada		66.40	91	Kyrgyzstan	
25	Qatar		65.23	92	Brunei Darussalam	
26	Viet Nam		64.61	93	Morocco	
27	Luxembourg		64.14	94	Belarus	
28	Pakistan		64.10	95	Burkina Faso	
29	Mali		63.98	96	Mexico	
30	Australia		63.80	97	Cabo Verde	
31	Singapore		63.35	98	Chile	
32	Egypt		62.54	99	Kenya	
33	Oman		62.31	100	Thailand	
34	Lithuania		61.77	101	Nigeria	
35	Czech Republic		61.28	102	Peru	
36	Spain		61.11	103	Croatia	
37	Ireland		60.83	104	Kazakhstan	
38	Botswana		59.91	105	Dominican Republic	
39	France		56.17	106	Mauritius	
40	Georgia		52.54	107	Zambia	
41	Lao PDR		52.24	108	Lebanon	
42	Cyprus		51.28	109	Bosnia and Herzegovina	
43	Iran, Islamic Rep		50.38	110	Bangladesh	
44	Ghana		50.12	111	Madagascar	
45	Malaysia		50.08	112	Ethiopia	
46 47	Algeria Guinea		49.68 49.59	113	Nepal	
				114 115	Ecuador	
48 49	Bulgaria		49.20 47.36	116	LesothoZimbabwe	
50	Bahrain Estonia				Chad	
			47.05	117		
51 52	Latvia		46.94	118	Philippines Malawi	
52 53	Brazil Sri Lanka		46.73 45.98	119 120	Uganda	
54	Costa Rica		45.89	120	Bolivia, Plurinational St	
55	Gambia		45.70	121	Mozambique	
56	Uruguay		44.92	123	Eswatini	
57	3 /		44.72	123		
58	Portugal Cameroon		44.72	124	Tunisia North Macedonia	
58 59	New Zealand		44.14		Paraguay	
				126 127	3 7	
60 61	Tanzania, United Rep		43.11	127	El Salvador	
			42.37	128	Mongolia	
62 63	Slovakia		41.87	129	Honduras	
63 64	Armenia		39.86 39.16	130	Congo, Dem. Rep	
65	Romania			131	Nicaragua	
	Serbia		38.83	132	Trinidad and Tobago	
66 67	India		38.53	133	Angola	
67	Israel	3.//	38.45	134	Mauritania	2.49 0.00

**SOURCE:** World Economic Forum, Executive Opinion Survey 2021–2022 (<a href="https://www.weforum.org/publications">https://www.weforum.org/publications</a>)

# 1.2.2 Domestic credit to private sector

## Domestic credit to private sector (% GDP) $\mid$ 2021

	Country	Value	Score	Rank		Value
	Proatia		100.00	68	Philippines	
	Jnited States of America		84.28	69	Montenegro	
	apan		81.71	70	Bulgaria	
			80.33	71	Bosnia and Herzegovina	
	Cambodia		79.19	72	Peru	
	Korea, Rep		78.98	73	Mongolia	
	witzerland		78.17	74	Sri Lanka	
	Denmark		76.28	75	Poland	
	hailand		75.95	76	Burundi	
	New Zealand		74.47	77	Colombia	
	weden		72.33	78	Slovenia	
	Australia		72.27	79	Serbia	
	Jnited Kingdom		71.39	80	Bangladesh	
	ingapore		71.15	81	Hungary	
	Aalaysia		70.77	82	Trinidad and Tobago	
	/iet Nam		70.53	83	Lithuania	
	rance		69.44	84	Guatemala	
	lorway		67.81	85	Uzbekistan	
	Chile		67.64	86	Mexico	
	ebanon		66.18	87	Indonesia	
	.uxembourg		65.70	88	Botswana	
	pain		64.75	89	Albania	
	Qatar		64.67	90	Senegal	
	<sup>a</sup> nama		64.59	91	Brunei Darussalam	
	ortugal		64.47	92	Burkina Faso	
F	inland	4.61	64.41	93	Latvia	3.47
Ν	letherlands	4.59	64.01	94	Kenya	3.47
lo	celand	4.59	63.91	95	Egypt	3.46
Ν	lepal	4.56	63.33	96	Mali	3.42
C	lyprus	4.55	62.83	97	Belarus	3.40
S	outh Africa	4.55	62.83	98	Nicaragua	3.39
Α	\ustria	4.54	62.74	99	Ireland	3.36
J	ordan	4.47	60.89	100	Dominican Republic	3.36
Λ	Morocco	4.46	60.69	101	Moldova, Rep	3.35
C	Germany	4.44	60.02	102	Uruguay	3.31
Κ	(uwait	4.43	59.82	103	Kazakhstan	3.28
Т	unisia	4.41	59.42	104	Romania	3.24
Λ	/lauritius	4.39	58.71	105	Ukraine	3.20
lt	taly	4.37	58.35	106	Kyrgyzstan	3.18
L	Jnited Arab Emirates	4.36	58.09	107	Rwanda	3.17
Λ	Лаlta	4.34	57.62	108	Mauritania	3.14
В	Selgium	4.33	57.34	109	Mozambique	3.13
В	Bahrain	4.31	56.87	110	Algeria	3.11
В	Brazil	4.28	56.13	111	Côte d'Ivoire	3.09
В	Bolivia, Plurinational St	4.28	55.92	112	Eswatini	3.08
ls	srael	4.27	55.70	113	Lesotho	3.04
	Honduras		55.31	114	Madagascar	3.00
	lovakia		54.05	115	Azerbaijan	
	Georgia		53.23	116	Benin	2.89
	I Salvador	4.13	52.18	117	Argentina	2.83
	lamibia		51.94	118	Uganda	
	ran, Islamic Rep		51.71	119	Pakistan	
	stonia		51.29	120	Cameroon	
	Greece		50.33	121	Nigeria	
	Tabo Verde		49.78	122	Tanzania, United Rep.	
	Vorth Macedonia		49.72	123	Ghana	
	ürkiye		49.72	123	Chad	
	Russian Federation		49.10	125	Zimbabwe	
					Zambia	
	Zech Republic		48.79 48.66	126 127		
	)man		48.66	127	Guinea	
	Costa Rica		48.60	128	Gambia	
	cuador		48.39	129	Angola	
	Armenia		48.25	130	Malawi	
	audi Arabia		47.96	131	Congo, Dem. Rep.	
	amaica		47.41		Canada	
	araguay	3 94	47.30		Ethiopia	n/a

**SOURCE:** International Monetary Fund (IMF) International Financial Statistics and data files, and World Bank and Organisation for Economic Co-operation and Development (OECD) GDP estimates. Downloaded from World Bank, World Development Indicators (<a href="https://data.worldbank.org/data-catalog/world-development-indicators">https://data.worldbank.org/data-catalog/world-development-indicators</a>)
For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

## 1.2.3 Cluster development

Average answer to the question: In your country, how widespread are well-developed and deep clusters (geographic concentrations of firms, suppliers, producers of related products and services, and specialised institutions in a particular field)? [1 = non-existent; 7 = widespread in many fields] | 2022

	Country	Value	Score	Rank		Value Score
1	United States of America		100.00	68	Lithuania	
2	China		91.78	69	Kenya	
3	Switzerland		91.74	70	Slovenia	
4	United Arab Emirates		87.30	71	Côte d'Ivoire	
5	Indonesia		87.14	72	Rwanda	
6	Netherlands		84.72	73	Zambia	
7	Egypt		84.26	74	Slovakia	
8	Saudi Arabia		83.74	75	Serbia	
9	Germany		83.47	76	Romania	
10	Austria		82.05	77	Namibia	
11	Singapore		81.68	78	Poland	
12	Italy		81.11	79	Uruguay	
13	Sweden		79.55	80	Chile	
14	United Kingdom		78.72	81	Jamaica	
15	Canada		78.58	82	Cambodia	
16	Qatar		77.87	83	Guatemala	
17	Norway		77.01	84	Bangladesh	
18	Belgium		75.27	85 86	Albania	
19	Japan		73.60 72.77	87	Cabo Verde	
20	Oman				Iran, Islamic Rep	
21	Korea, Rep		71.78	88	MoroccoTrinidad and Tobago	
22	FinlandFrance		70.71	89	3	
23	Denmark		70.65	90	Bosnia and Herzegovina Cameroon	
24			70.51	91		
25 26	Viet Nam Jordan		70.34 69.22	92 93	Uganda Mali	
27			68.51	93	Ukraine	
28	AzerbaijanUzbekistan		67.68	95	Panama	
29	Australia		66.33	96	Malawi	
30	Malaysia		66.00	97	Nigeria	
31	Spain		65.81	98	Guinea	
32	Luxembourg		65.64	99	India	
33	Ireland		65.31	100	Lebanon	
34	Botswana		64.64	101	Eswatini	
35	Bahrain		63.02	101	North Macedonia	
36	Israel		58.30	103	Honduras	
37	Hungary		57.85	104	Argentina	
38	Pakistan		57.31	105	Burundi	
39	Kuwait		55.35	106	Nepal	
40	Georgia		55.13	107	Belarus	
41	Mexico		55.12	108	Senegal	
42	Costa Rica		55.10	109	Peru	
43	Tanzania, United Rep.		54.66	110	Tunisia	
44	New Zealand		52.52	111	Paraguay	
45	Sri Lanka		51.89	112	Madagascar	
46	Ghana		51.81	113	Kyrgyzstan	
47	South Africa		50.54	114	Armenia	
48	Bulgaria		50.12	115	Ecuador	
49	Brazil		50.02	116	Montenegro	
50	Cyprus		49.84	117	Ethiopia	
51	Portugal		49.24	118	Chad	
52	Lao PDR		49.02	119	Bolivia, Plurinational St	
53	Mauritius		48.57	120	Mongolia	
54	Iceland		48.15	121	Benin	
55	Thailand		47.36	122	Kazakhstan	
56	Türkiye		47.06	123	Greece	
57	Colombia		46.88	124	Moldova, Rep	
58	Dominican Republic		46.59	125	El Salvador	
59	Gambia		45.96	126	Mozambique	
60	Russian Federation		45.82	127	Mauritania	
61	Malta		45.24	128	Croatia	
62	Estonia		44.66	129	Lesotho	
63	Brunei Darussalam		44.47	130	Zimbabwe	
64	Algeria		44.28	131	Nicaragua	
65	Latvia		44.18	132	Angola	
66	Czech Republic		44.17	133	Burkina Faso	
67	Philippines		44.06	134	Congo, Dem. Rep.	
٥,	I. I			.5 !	- · J-, · · · · - p · · · · · · · · · · · ·	0.00

**SOURCE:** World Economic Forum, Executive Opinion Survey 2021–2022 (<a href="https://www.weforum.org/publications">https://www.weforum.org/publications</a>)

# 1.2.4 R&D expenditure

## Gross expenditure on R&D (%) $\mid$ 2021

Rank	Country	Value	Score	Rank	Country	Value S	Score
1	Israel	5.35	100.00	68	Costa Rica	0.37	6.76
2	Korea, Rep	4.80	89.54	69	Mauritius	0.37	6.67
3	Sweden	3.49	65.10	70	Montenegro	0.36	6.61
4	Belgium	3.46	64.46	71	Namibia	0.35	6.36
5	United States of America	3.42	63.86	72	Chile	0.34	6.21
6	Japan	3.27	61.08	73	Philippines	0.32	5.84
7	Switzerland	3.19	59.54	74	Mozambique	0.31	5.67
8	Austria		59.44	75	Chad		5.43
9	Germany	3.11	57.99	76	Mexico	0.30	5.36
10	Denmark		55.36	77	Ukraine		5.32
11	Finland		54.30	78	Oman		5.23
12	Iceland		46.11	79	Colombia		5.22
13	China		44.84	80	Indonesia		5.06
14	France		43.73	81	Brunei Darussalam		5.00
15	Netherlands		42.93	82	Ethiopia		4.94
16	Norway		42.43	83	Eswatini		4.82
17	Slovenia		39.90	84	Georgia		4.52
18	Czech Republic		36.97	85	Burkina Faso		4.49
19	Singapore		35.08	86	Moldova, Rep.		4.15
20	Australia		34.03	87	Burundi		3.80
21	Estonia		32.58	88	Azerbaijan		3.72
22	United Kingdom		32.01	89	Armenia		3.66
23	Canada		31.55	90	Bosnia and Herzegovina		3.42
24	Portugal		30.01	91	Kuwait		3.30
25	Hungary		29.63	92	Mali		3.09
26	Italy		28.39	93	Peru		3.03
27	Greece		27.79	94	Panama		2.90
28	United Arab Emirates		27.79	95	El Salvador		2.90
29				95			
30	Spain New Zealand		26.20 26.08	90	Pakistan		2.89
					Paraguay		
31	Poland		25.73	98	Uganda		2.48
32	Thailand		24.70	99	Mongolia		2.30
33	Croatia		23.06	100	Uzbekistan		2.28
34	Ireland		22.87	101	Kazakhstan		2.25
35	Brazil		21.65	102	Sri Lanka		2.05
36	Lithuania		21.31	103	Cambodia		2.02
37	Luxembourg		20.74	104	Nicaragua		1.82
38	Russian Federation		20.27	105	Bahrain		1.70
39	Türkiye		20.18	106	Kyrgyzstan		1.47
40	Serbia		18.41	107	Côte d'Ivoire		1.13
41	Egypt		17.74	108	Gambia		1.11
42	Malaysia		17.60	109	Trinidad and Tobago		1.01
43	Slovakia		16.61	110	Honduras		0.92
44	Bulgaria		15.70	111	Guatemala		0.91
45	Cyprus		14.95	112	Lesotho		0.76
46	Iran, Islamic Rep		14.56	113	Angola		0.41
47	Rwanda		13.99	114	Madagascar		0.05
48	Tunisia		13.78	115	Mauritania		0.00
49	Jordan		12.82		Albania		n/a
50	Latvia		12.67		Bangladesh		n/a
51	Qatar		12.55		Benin		n/a
52	Malta		12.29		Bolivia, Plurinational St		n/a
53	India		12.07		Cabo Verde		n/a
54	South Africa		11.30		Cameroon		n/a
55	Senegal		10.61		Dominican Republic		n/a
56	Botswana	0.56	10.31		Ghana		n/a
57	Algeria	0.53	9.81		Guinea		n/a
58	Argentina		9.64		Jamaica		n/a
59	Tanzania, United Rep	0.51	9.44		Kenya		n/a
60	Belarus		8.60		Lao PDR		n/a
61	Romania	0.47	8.52		Lebanon	n/a	n/a
62	Saudi Arabia	0.46	8.50		Malawi	n/a	n/a
63	Uruguay	0.45	8.18		Morocco	n/a	n/a
	Founder	0.44	8.09		Nepal	n/a	n/a
64	Ecuador	0.44	0.05		терап	11/ G	11/0
64 65	Viet Nam		7.60		Nigeria		n/a
		0.42				n/a	

**SOURCE:** UNESCO Institute for Statistics, UIS.Stat (<a href="http://data.uis.unesco.org/">http://data.uis.unesco.org/</a>)

## 1.2.5 ICT infrastructure

#### NRI Access sub-index | 2022

	Country	Value	Score	Rank	· · · · · · · · · · · · · · · · · · ·	Value	Score
1	China		100.00	68	Kenya		63.2
2	Norway		99.94	69	Tunisia		62.9
3	France		96.98	70	Côte d'Ivoire		62.7
4	United States of America		96.34	71	Colombia		60.9
5	New Zealand		96.09	72	Peru		60.38
6	Singapore		95.87	73	Lao PDR		60.2
7	Australia		91.67	74	Argentina		59.78
8	Japan		89.35	75	Mauritius		59.46
9	United Arab Emirates		89.30	76	Greece		59.0
10	Russian Federation		89.27	77	Cyprus		57.9
11	United Kingdom		88.96	78	Botswana		56.89
12	Korea, Rep		87.60	79	Azerbaijan		56.6
13	Viet Nam		86.77	80	Dominican Republic		56.4
14	Spain		86.22	81	Jamaica		56.12
15	Switzerland		85.89	82	Malta		56.10
16	Germany		84.50	83	Cambodia		54.8
17	Netherlands		84.30	84	Nigeria		54.63
18	Finland		82.83	85	Albania		54.00
19	Poland		82.41	86	Mongolia		53.68
20	Qatar		82.30	87	Montenegro	55.60	51.73
21	Canada	75.97	82.23	88	Ecuador	55.43	51.48
22	ltaly	75.66	81.77	89	Philippines	55.40	51.43
23	Belgium	75.46	81.47	90	El Salvador	55.04	50.89
24	Chile	75.26	81.16	91	Iran, Islamic Rep	54.99	50.8
25	Thailand	75.04	80.84	92	Sri Lanka	54.93	50.74
26	Brazil	74.90	80.62	93	Bosnia and Herzegovina	54.75	50.46
27	Sweden	74.74	80.39	94	Panama	54.64	50.29
28	Portugal	74.74	80.39	95	Trinidad and Tobago	53.83	49.08
29	Luxembourg	74.57	80.13	96	Kyrgyzstan	53.65	48.82
30	Ireland	74.32	79.76	97	Tanzania, United Rep	53.48	48.56
31	Saudi Arabia	74.32	79.75	98	Jordan		48.3
32	Uruguay	74.07	79.38	99	Bolivia, Plurinational St	53.11	48.0
33	Hungary		79.22	100	North Macedonia		45.59
34	Denmark		78.92	101	Senegal		44.7
35	Indonesia		78.60	102	Uganda		43.53
36	Ukraine		78.14	103	Ethiopia		41.80
37	Malaysia		77.51	104	Guatemala		40.83
38	Slovakia		77.36	105	Paraguay		40.62
39	Israel		77.03	106	Angola		39.39
40	Slovenia		76.07	107	Ghana		38.8
41	Türkiye		76.01	108	Namibia		38.20
42	Bulgaria		75.89	109	Algeria		37.28
43	Estonia		75.51	110	Eswatini		35.46
44	Lithuania		74.48	111	Gambia		34.90
45	Egypt		74.44	112	Mozambique		34.88
46	Moldova, Rep.		73.86	113	Benin		33.82
47	Georgia		73.35	114	Zimbabwe		33.62
	9						
48 49	Kazakhstan	69.99	73.28 72.91	115 116	Lesotho Rwanda	43.19	33.16
50	COSTO THEO IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
	Lebanon		72.53	117	Zambia		31.94
51	Latvia		72.43	118	Cabo Verde		31.69
52	Oman		71.70	119	Nepal		31.39
53	Czech Republic		71.66	120	Mali		30.57
54	Austria		71.28	121	Honduras		26.96
55	Bahrain		71.20	122	Malawi		26.40
56	Romania		70.72	123	Burkina Faso		22.64
57	Bangladesh		69.54	124	Madagascar		22.34
58	India		69.46	125	Guinea		19.97
59	Kuwait		69.08	126	Congo, Dem. Rep		19.04
60	South Africa		68.86	127	Cameroon	30.10	13.56
61	Mexico	66.60	68.20	128	Chad	29.12	12.09
62	Armenia	66.00	67.30	129	Burundi	21.04	0.00
63	Croatia	65.22	66.14		Belarus	n/a	n/a
64	Serbia	65.19	66.09		Brunei Darussalam	n/a	n/a
65	Iceland	63.91	64.18		Mauritania	n/a	n/a
66	Pakistan	63.42	63.44		Nicaragua		n/a
		63.42	63.44		Uzbekistan		n/a

**SOURCE:** Portulans Institute, The Network Readiness Index 2022. Stepping into the new digital era: How and why digital natives will change the world (https://networkreadinessindex.org/) For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

## 1.2.6 Urbanisation

## Population of urban areas (%) | 2018

Rank	Country	Value	Score	Rank	,	Value	Score
1	Kuwait		100.00	68	Ecuador		58.40
1	Singapore		100.00	69	Ireland		57.65
3	Qatar		99.01	70	Armenia		57.63
4	Belgium		97.70	71	Morocco		56.83
5	Uruguay		94.63	72	Paraguay		55.83
6	Malta		93.80	73	Gambia		55.47
7	Iceland		92.89	74	Albania		54.37
8	Israel		91.28	75	Poland		54.07
9	Argentina		90.65	76	China		53.03
10	Japan		90.36	77	Georgia		52.43
11	Netherlands		90.21	78	Nicaragua		52.31
12	Luxembourg		89.63	79	Austria		52.05
13	Jordan		89.63	80	North Macedonia		51.66
14	Bahrain		87.68	81	Kazakhstan		51.05
15	Lebanon		86.88	82	Honduras		50.67
16	Denmark		86.06	83	Croatia		50.50
17	Chile		85.70	84	Cameroon		49.84
18	Sweden		85.55	85	Serbia		49.51
19	Brazil		84.56	86	Ghana		49.48
20	New Zealand		84.52	87	Azerbaijan		49.04
21	United Arab Emirates		84.50	88	Jamaica		49.03
22	Australia		83.92	89	Indonesia		48.63
23	Finland		83.19	90	Slovenia		47.73
24	Oman		82.22	91	Romania		47.10
25	Saudi Arabia		81.42	92	Slovakia		46.79
26	United Kingdom		80.91	93	Mauritania		46.73
27	United States of America		79.60	94	Trinidad and Tobago		46.17
28	Norway		79.59	95	Guatemala		43.72
29	Korea, Rep		78.68	96	Côte d'Ivoire		43.40
30	Canada		78.63	97	Uzbekistan		43.06
31	Dominican Republic		78.24	98	Nigeria		42.90
32	Colombia		77.90	99	Namibia		42.55
33	France		77.51	100	Thailand		42.45
34	Spain		77.37	101	Bosnia and Herzegovina		40.49
35	Mexico		77.18	102	Benin		39.42
36	Costa Rica		76.24	103	Senegal		39.28
37	Greece		75.92	104	Philippines		38.95
38	Belarus		75.39	105	Congo, Dem. Rep.		36.14
39	Peru		74.60	106	Zambia		35.06
40	Brunei Darussalam		74.28	107	Egypt		34.12
41	Germany		73.91	108	Moldova, Rep		34.03
42	Malaysia		72.44	109	Mali		33.72
43	Türkiye		71.42	110	Mauritius		31.92
44	Bulgaria		71.26	111	Madagascar		27.78
45	Iran, Islamic Rep		71.14	112	Pakistan		27.18
46	Russian Federation		70.60	113	Bangladesh		27.14
47	Switzerland		69.87	114	Kyrgyzstan		26.81
48 49	Czech Republic	73.79	69.86 68.53	115	Guinea Mozambigue	35.14	26.57 26.40
50	AlgeriaEl Salvador		67.83	116 117	Viet Nam		26.40
51	Hungary		67.06	118	Lao PDR		
52	Italy		66.01	119	India		25.26 24.14
53	Botswana		64.87	120	Tanzania, United Rep		23.85
54	Bolivia, Plurinational St		64.84	120	Zimbabwe		22.05
55	Ukraine		64.76	122	Burkina Faso		18.77
56	Tunisia		64.29	123	Lesotho		17.39
57	Estonia		64.22	123	Kenya		16.10
58	Mongolia		63.72	125	Eswatini		12.38
59	Latvia		63.37	125	Uganda		12.35
60	Panama		62.87	120	Cambodia		11.91
61	Lithuania		62.84	127	Chad		11.53
62	Montenegro		61.84	129	Ethiopia		8.89
	Cyprus		61.84	130	Nepal		7.71
nx					•		
63 64	South Africa	66 36		131			
64	South Africa		61.31 60.60	131 132	Sri Lanka		6.26 4.81
64 65	Cabo Verde	65.73	60.60	132	Rwanda	17.21	4.81
64		65.73 65.51				17.21	

**SOURCE:** United Nations, Department of Economic and Social Affairs, Population Division, *World Urbanization Prospects: The 2018 Revision* (https://population.un.org/wup/) For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

# 1.3.1 Labour rights

## Level of national compliance with labour rights | 2020

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Austria	0.00	100.00	67	Mauritania		75.47
1	Cyprus		100.00	67	Mozambique		75.47
1	Finland		100.00	70	Trinidad and Tobago		75.34
1	Iceland		100.00	71	Costa Rica		74.40
1	Ireland		100.00	72	Mexico		73.99
1	Israel		100.00	73	Romania		73.86
1	ltaly		100.00	74	Mauritius		71.45
1	Latvia		100.00	75	Zambia		70.38
1	Norway		100.00	76	Angola		69.57
1	Slovakia		100.00	76	Kazakhstan		69.57
1	Sweden		100.00	78	Eswatini		67.83
12	Estonia		97.99	79	Sri Lanka		67.69
12	Mongolia		97.99	80	Algeria		66.76
14	Czech Republic		97.59	81	Kuwait	2.51	66.35
14	Lithuania		97.59	82	Chile		64.08
14	Switzerland		97.59	83	Argentina		61.39
17	Denmark		97.45	84	Nigeria		61.13
17	Luxembourg	0.19	97.45	85	Botswana		60.99
19	Cabo Verde		95.71	86	Bolivia, Plurinational St		60.59
20	Kyrgyzstan	0.35	95.31	87	Congo, Dem. Rep	3.16	57.64
21	Nicaragua	0.36	95.17	88	Paraguay		56.84
21	Slovenia		95.17	89	Türkiye	3.66	50.94
23	Malawi	0.37	95.04	90	Philippines	3.97	46.78
24	Germany	0.38	94.91	91	Peru	4.20	43.70
24	Netherlands	0.38	94.91	92	Honduras	4.34	41.82
26	Belgium	0.51	93.16	93	Ecuador	4.40	41.02
26	France	0.51	93.16	94	El Salvador	4.42	40.75
26	Portugal	0.51	93.16	95	Panama	4.50	39.68
29	North Macedonia	0.52	93.03	96	Cambodia	4.54	39.14
30	Guinea	0.67	91.02	97	Pakistan	4.64	37.80
31	Australia	0.69	90.75	98	Colombia	4.84	35.12
31	Burkina Faso	0.69	90.75	99	Guatemala	5.38	27.88
31	Uruguay	0.69	90.75	100	Zimbabwe	5.45	26.94
34	Spain	0.71	90.48	101	Bangladesh	7.46	0.00
35	Albania	0.72	90.35	101	Belarus	10.00	0.00
35	Côte d'Ivoire	0.72	90.35	101	Egypt	10.00	0.00
35	Hungary	0.72	90.35		Azerbaijan	n/a	n/a
38	Namibia	0.73	90.21		Bahrain	n/a	n/a
39	Greece	0.85	88.61		Brazil	n/a	n/a
40	Georgia	0.86	88.47		Brunei Darussalam	n/a	n/a
41	Benin	0.87	88.34		Burundi	n/a	n/a
42	Mali	0.88	88.20		Cameroon	n/a	n/a
43	Bosnia and Herzegovina	0.89	88.07		Chad	n/a	n/a
43	Bulgaria	0.89	88.07		China		n/a
43	Moldova, Rep	0.89	88.07		Ethiopia	n/a	n/a
46	Ukraine	0.94	87.40		India		n/a
47	South Africa		86.86		Iran, Islamic Rep		n/a
48	United Kingdom		85.79		Jordan	n/a	n/a
49	Canada		85.66		Kenya		n/a
50	Poland	1.10	85.25		Korea, Rep		n/a
51	Japan	1.11	85.12		Lao PDR		n/a
52	Croatia		84.99		Lebanon		n/a
53	Montenegro	1.21	83.78		Malaysia	n/a	n/a
54	Jamaica	1.23	83.51		Morocco	n/a	n/a
55	Armenia	1.40	81.23		Nepal	n/a	n/a
56	Serbia	1.41	81.10		New Zealand	n/a	n/a
57	Lesotho	1.44	80.70		Oman	n/a	n/a
58	Dominican Republic	1.45	80.56		Qatar	n/a	n/a
59	Uganda	1.46	80.43		Russian Federation	n/a	n/a
60	Ghana	1.62	78.28		Rwanda	n/a	n/a
61	Gambia	1.64	78.02		Saudi Arabia		n/a
62	Madagascar	1.65	77.88		Singapore		n/a
62	Senegal		77.88		Thailand		n/a
62	Tunisia		77.88		United Arab Emirates		n/a
65	Indonesia		77.21		United States of America		n/a
66	Tanzania, United Rep	1.77	76.27		Uzbekistan		n/a
67	Malta	1.83	75.47		Viet Nam	n/a	n/a

**SOURCE:** International Labour Organization, ILOSTAT (<a href="https://ilostat.ilo.org/">https://ilostat.ilo.org/</a>)
For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

# 1.3.2 Labour-employer cooperation

Average answer to the question: In your country, how do you characterise labour-employer relations? [1 = generally confrontational; 7 = generally cooperative] | 2022

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Switzerland		100.00	68	Kuwait		45.15
2	Denmark		99.54	69	Côte d'Ivoire		44.81
3	Singapore		92.73	70	Greece	4.42	42.70
4	Netherlands		90.86	71	Tanzania, United Rep		42.13
5	Japan	5.67	87.18	72	Mali	4.40	41.96
6	Norway	5.65	86.63	73	Poland	4.39	41.54
7	Luxembourg	5.53	82.50	74	Uganda	4.37	41.07
8	Austria		82.47	75	Nicaragua		40.54
9	Albania	5.47	80.24	76	Italy	4.36	40.47
10	Iceland	5.47	80.22	77	Honduras	4.35	40.43
11	Ireland	5.46	80.01	78	Algeria	4.35	40.20
12	United States of America	5.44	79.14	79	Jamaica	4.35	40.12
13	Finland		76.34	80	Ecuador	4.34	39.85
14	Estonia	5.35	75.76	81	Russian Federation		39.80
15	United Arab Emirates		72.59	82	Zimbabwe		39.49
16	New Zealand		71.79	83	Ukraine		39.20
17	Oman		71.39	84	Pakistan		39.01
18	Lithuania	5.20	70.74	85	Slovakia	4.31	38.79
19	Costa Rica		70.69	86	Namibia		38.76
20	Botswana		70.55	87	Uruguay		38.66
21	Egypt		69.50	88	Panama		38.49
22	Sweden		68.20	89	El Salvador		37.65
23	Bahrain		67.74	90	Hungary		37.63
24	Philippines		66.28	91	Kenya		36.81
25	Malaysia		65.97	92	Paraguay		36.50
26	Indonesia		65.81	93	Lebanon		35.48
27	Viet Nam		64.83	94	Senegal		35.45
28	United Kingdom		64.78	95	Nigeria		35.21
29	China		64.66	96	Mongolia		35.02
30	Israel		64.53	97	Cameroon		34.99
31	Germany		64.25	98	Madagascar		34.82
32	Australia		63.93	99	Romania		34.41
33	Canada		63.83	100	Belarus		33.12
34	Qatar		63.40	101	Eswatini		33.04
35	Guatemala		62.77	102	Serbia		32.69
36	Uzbekistan		62.44	103	Cabo Verde		32.62
37	Azerbaijan		62.30	104	Malawi		32.50
38	Benin		61.02	105	Peru		32.27
39	Belgium		60.45	106	Kazakhstan		30.84
40	Malta		60.36	107	Tunisia		30.57
41	Guinea		58.14	107	Nepal		30.56
42	Saudi Arabia		57.20	109	Brazil		30.35
43	Gambia		56.65	110	Bangladesh		30.20
44	Dominican Republic		56.60	111	Congo, Dem. Rep.		30.19
45	Colombia		55.21	112	Zambia		28.65
46	Jordan		54.29	113	Kyrgyzstan		26.89
47	Cyprus		54.01	114	Burkina Faso		26.49
48	Czech Republic		53.29	115	Argentina		25.38
49	Rwanda		52.08	116	North Macedonia		24.80
50	Chile		52.04	117	Korea, Rep		24.71
51	Mauritius		51.97	118	Moldova, Rep		20.13
52	Cambodia		51.55	119	Chad		19.63
53	Brunei Darussalam		51.20	120	India		18.62
54	Mexico		50.34	121	Türkiye		18.04
55	Portugal		50.31	122	Montenegro		17.62
56	France		49.36	123	Morocco		17.26
57	Georgia		49.21	123	South Africa		16.88
58	Lao PDR		49.20	125	Croatia		13.79
59	Armenia		48.75	125	Mozambique		12.49
60	Slovenia		48.03	120	Bolivia, Plurinational St		11.81
61	Thailand		46.03	127	Iran, Islamic Rep		11.03
62	Ghana		47.04	120			10.19
63			46.83		Angola		
64	Latvia		46.83	130 131	Bosnia and Herzegovina		9.15 6.58
65	Bulgaria Sri Lanka				Mauritania		
			45.86	132	Trinidad and Tobago		5.65
66 67	Burundi		45.62	133	Ethiopia		5.06
67	Spain	4.49	45.45	134	Lesotho	3.22	0.00

**SOURCE:** World Economic Forum, Executive Opinion Survey 2021–2022 (<a href="https://www.weforum.org/publications">https://www.weforum.org/publications</a>)

## 1.3.3 Professional management

Average answer to the question: In your country, who holds senior management positions in companies? [1 = usually relatives or friends without regard to merit; 7 = mostly professional managers chosen for merit and qualifications] | 2022

	Country	Value	Score		Country	Value Sco
1	Finland		100.00	68	Mauritius	
2	Netherlands		94.49	69	Zambia	
3	Denmark		91.67	70	Thailand	
4	United States of America		91.36	71	Armenia	
5	New Zealand		89.88	72	Italy	
6	Singapore		89.18	73	Trinidad and Tobago	
7	Switzerland		88.54	74	Uganda	
8	Ireland		87.36	75	Argentina	
9	Australia		86.25	76 77	Greece	
10 11	Norway		86.14 82.91	77 78	Lao PDR	
	United Kingdom			76 79	Moldova, Rep.	
12 13	Botswana Estonia		82.80	80	Guatemala	
			81.99		Peru	
14 15	LithuaniaAlbania		80.71 80.62	81 82	Brunei DarussalamGuinea	
16	Indonesia		77.90	83	Côte d'Ivoire	
17			77.90 77.82	84		
18	China			85	Russian Federation Serbia	
19	Sweden Japan		77.24 76.30	86	Latvia	
	!					
20	Israel France		75.64 74.66	87 88	Tunisia	
21			74.66	88 89	Belarus	
22 23	Czech Republiclceland		74.55 73.97	90	Mexico  Dominican Republic	
23	Canada		73.53	90	Mongolia	
25	United Arab Emirates		73.53 72.14	91	India	
26	Austria		70.99	93	Poland	
27	Germany		70.95	93	Slovakia	
28	Luxembourg		70.93	95	Romania	
29	Rwanda		68.45	96	Pakistan	
30	Belgium		67.18	90	Ukraine	
31	Zimbabwe		67.17	98	Panama	
32	Azerbaijan		66.63	99	Bulgaria	
33	Bahrain		66.44	100	Türkiye	
34	Georgia		66.43	100	Kuwait	
35	Qatar		65.52	102	Senegal	
36	Oman		64.43	102	Bangladesh	
37	Saudi Arabia		63.86	103	Cameroon	
38	Sri Lanka		63.31	105	Cyprus	
39	Ghana		62.85	106	Lebanon	
40	Jamaica		62.49	107	Montenegro	
41	Nigeria		61.78	107	El Salvador	
42	Costa Rica		60.74	109	Croatia	
43	Malaysia		60.70	110	Nepal	
44	Spain		60.25	111	Morocco	
45	Eswatini		59.93	112	Burundi	
46	Brazil		59.88	113	Ecuador	
47	Benin		59.70	114	Honduras	
48	Jordan		59.37	115	Kyrgyzstan	
49	South Africa		56.76	116	Mali	
50	Viet Nam		56.51	117	Algeria	
51	Chile		56.02	118	Congo, Dem. Rep.	
52	Tanzania, United Rep		55.86	119	Kazakhstan	
53	Egypt		55.54	120	Madagascar	
54	Namibia		55.01	121	Paraguay	
55	Slovenia		54.89	122	Bosnia and Herzegovina	
56	Philippines		53.93	123	Cabo Verde	
57	Hungary		53.86	124	Ethiopia	
58	Kenya		53.43	125	Bolivia, Plurinational St	
59	Malta		53.30	126	Iran, Islamic Rep	
60	Gambia		53.24	127	Nicaragua	
61	Colombia		52.84	128	North Macedonia	
62	Korea, Rep		52.78	129	Burkina Faso	
63	Portugal		52.10	130	Mozambique	
64	Uruguay		51.76	131	Chad	
65	Malawi		51.63	132	Angola	
66	Uzbekistan		50.74	133	Lesotho	
	Cambodia		50.71	134	Mauritania	

**SOURCE:** World Economic Forum, Executive Opinion Survey 2021–2022 (<a href="https://www.weforum.org/publications">https://www.weforum.org/publications</a>)

# 1.3.4 Relationship of pay to productivity

Average answer to the question: In your country, to what extent is pay related to employee productivity? [1 = not at all; 7 = to a great extent] | 2022

Rank	Country	Value	Score	Rank	Country	Value Score
1	Switzerland	5.60	100.00	68	Latvia	3.90 53.18
2	United States of America	5.57	99.13	69	Namibia	3.90 53.14
3	China		88.79	70	Cameroon	3.89 52.96
4	United Arab Emirates		84.06	71	Guatemala	
5	Saudi Arabia		83.44	72	New Zealand	
6	Indonesia		82.73	73	Slovenia	
7	Qatar		81.08	74	Dominican Republic	
8	Uzbekistan		80.95	75	Slovakia	
9	Netherlands		80.60	76	Algeria	
10	Denmark		78.66	77	Brazil	
11	Canada		78.36	78	Nepal	
12	Albania		78.27	79	Kazakhstan	
13	Singapore		77.65	80	Bangladesh	
14	Bahrain		76.57	81	Serbia	
15	Azerbaijan		75.97	82	Portugal	
16	Belgium		75.86	83	Poland	
17	Austria		75.70	84	Moldova, Rep	
18	Oman		75.53	85	Benin	
19	Sweden		75.38	86	Jamaica	
20	Ireland		73.41	87	Mongolia	
21	Viet Nam		73.16	88	Guinea	
22	Georgia		72.59	89	Montenegro	
23	Gambia		72.49	90	Lao PDR	
24	Luxembourg		72.43	91	Chad	
25	Korea, Rep		72.04	92	South Africa	
26	United Kingdom		72.00	93	Uganda	
27	Norway		70.50	94	Kenya	
28	Finland		69.42	95	Zambia	
29	Egypt		69.11	96	Eswatini	
30	Estonia		68.96	97	Romania	
31	Pakistan		68.81	98	Uruguay	
32	Germany		68.59	99	Lebanon	
33 34	Australia		68.55	100	Peru	
35	Bulgaria Jordan		68.43 68.38	101	Malawi	
36				102	Nigeria	
37	Iceland		66.92	103 104	Mexico	
38	Botswana Russian Federation		66.38 65.73	104	Senegal Colombia	
39	Israel		63.93	106	Ethiopia	
40	Belarus		63.23	107	Cabo Verde	
41	France		62.01	107	Zimbabwe	
42	Cambodia		61.63	109	Hungary	
43	Philippines		61.34	110	Morocco	
44	Sri Lanka		60.78	111	Tunisia	
45	Italy		60.64	112	North Macedonia	
46	Malaysia		60.53	113	Croatia	
47	Lithuania		60.38	114	Ecuador	
48	Kyrgyzstan		59.71	115	Trinidad and Tobago	
49	Czech Republic		59.16	116	Spain	
50	Armenia		58.87	117	Bosnia and Herzegovina	
51	Cyprus		58.37	118	Türkiye	
52	Ukraine		58.23	119	El Salvador	
53	Chile		58.17	120	Honduras	
54	Tanzania, United Rep.		57.88	121	Panama	
55	Thailand		57.83	122	Lesotho	
56	Mauritius		57.13	123	Paraguay	
57	Malta		56.91	124	Nicaragua	
58	Ghana		56.85	125	Congo, Dem. Rep	
59	Japan		56.39	126	Iran, Islamic Rep	
60	Costa Rica		56.15	127	Burundi	
61	Côte d'Ivoire		55.38	128	Madagascar	
62	Rwanda		55.23	129	Argentina	
63	Brunei Darussalam		55.17	130	Mozambique	
64	Kuwait		54.99	131	Bolivia, Plurinational St	
65	Mali		54.80	132	Burkina Faso	
66	India		54.71	133	Angola	
67	Greece		53.67	134	Mauritania	

**SOURCE:** World Economic Forum, Executive Opinion Survey 2021–2022 (<a href="https://www.weforum.org/publications">https://www.weforum.org/publications</a>)

# 1.3.5 Enterprise software

## Enterprise software market (weighted by GDP) $\mid$ 2022

Rank	Country V	alue	Score	Rank	Country	Value	Score
1		0.52	100.00	68	Albania		20.37
2	Montenegro	0.49	94.66	69	Burkina Faso	0.11	20.37
3	United States of America		91.33	70	Kenya		20.35
4	Mauritius		89.48	71	Estonia		20.19
5	Mongolia		80.09	72	Algeria		20.05
6	United Kingdom		79.74	73	Armenia	0.10	19.73
7	Switzerland		78.11	74	Ireland		19.63
8	Netherlands		77.43	75	Cambodia		19.26
9	Denmark		77.35	76	Botswana		18.90
10	Sweden		76.16	77	Nepal		18.84
11	Jamaica		67.50	78	Latvia		18.70
12	New Zealand		64.57	79	Morocco		18.64
13	Canada		63.73	80	Paraguay		18.44
14	Burundi		62.58	81	Kazakhstan		18.31
15	Germany		62.54	82	Honduras		18.19
16	Iran, Islamic Rep		60.40	83	Serbia		18.17
17	Japan		56.73	84	Mexico		18.09
18	Luxembourg		51.43	85	El Salvador		17.76
19	France		51.35	86	Kyrgyzstan		17.60
20	Belgium		49.53	87	Bahrain		17.33
21	Australia		47.99	88	Uganda		16.89
22	Bosnia and Herzegovina		47.05	89	Ethiopia		16.69
23	Korea, Rep		46.78	90	Lithuania		16.41
24	Ukraine		46.74	91	Guatemala		16.20
25	Czech Republic		44.30	92	Philippines		16.18
26	Austria		43.66	93	Georgia		15.63
27	Malta		43.31	94	Thailand		15.53
28	Sri Lanka		41.36	95	India		15.51
29	South Africa		41.23	96	Nigeria		15.31
30	Israel		40.16	97	Namibia		15.26
31	Belarus		39.64	98	Tanzania, United Rep.		15.24
32	Norway		39.18	99	Chad		15.14
33	Malaysia		38.82	100	Greece		14.93
34	Hungary		36.58	100	Malawi		14.61
35	Chile		35.14	102	Rwanda		14.45
36	Slovakia		33.32	102	Côte d'Ivoire		13.74
37	Lebanon		33.26	103	Dominican Republic		13.54
38	Italy		32.62	104	Cyprus		13.54
39	Croatia		32.53	105	Bangladesh		13.37
40	Ghana		31.69	100	Zambia		12.92
41	Uzbekistan		31.10	107	Angola		12.62
42	Jordan		28.37	100	Panama		12.57
43	North Macedonia		28.36	110	Nicaragua		12.27
44	Brazil		28.15	111	Brunei Darussalam		11.53
45	Costa Rica		28.13	112	China		10.99
46	Colombia		27.96	113	Russian Federation		10.13
47	Slovenia		27.90	114	Romania		9.58
48	Peru		27.75	115	Zimbabwe		9.30
49		0.14	27.63	116	Guinea		9.06
50	Singapore		27.61	117	Pakistan		8.17
51	Spain		27.53	118	Qatar		8.11
52	Bolivia, Plurinational St		26.80	119	Viet Nam		8.00
53	Moldova, Rep.		26.68	120	Saudi Arabia		7.81
54	Portugal		25.96	120	Argentina		7.30
55	Madagascar		25.72	122	Kuwait		7.30
56	Tunisia		24.73	123	Egypt		6.86
57	Lao PDR		24.46	123	Oman		6.71
58	Ecuador		23.41	124	Indonesia		5.40
59	Poland		22.36	125			4.25
60			22.30	126	Türkiye Gambia		0.00
61	Benin		21.99	127	Lesotho		0.00
62	Azerbaijan		21.99	1∠/	Cabo Verde		0.00 n/a
	Cameroon						
63 64	Uruguay		21.62 21.60		Congo, Dem. Rep		n/a n/a
65	Bulgaria Mozambique		21.55		Eswatini Mali		n/a
	United Arab Emirates		21.33		Mauritania		n/a
66 67			20.84				
67	Senegal	U.II	∠∪.04		Trinidad and Tobago	1/a	n/a

 $\textbf{SOURCE:} Statista, Technology Market Outlook: Enterprise Software ( \underline{https://www.statista.com/outlook/tmo/software/enterprise-software/worldwide?currency=usd); GDP data to the temperature of the tem$ come from World Development Indicators

# 1.3.6 Cloud computing

## Cloud computing market (weighted by GDP) $\mid$ 2022

Rank	Country	Value	Score	Rank	Country	Value Score
1	Finland	0.89	100.00	68	Philippines	0.14 15.62
2	United States of America	0.81	91.29	69	Algeria	0.14 15.28
3	Sweden		78.34	70	Bulgaria	0.13 15.20
4	Switzerland		78.19	71	India	0.13 15.09
5	Denmark		73.87	72	Madagascar	
6	New Zealand		71.16	73	Ecuador	
7	Netherlands		69.41	74	Lithuania	
8	United Kingdom		67.25	75	Lao PDR	
9	Singapore		67.17	76	Kazakhstan	
10	South Africa		55.58	77	Paraguay	
11	Germany		50.49	78	Panama	
12	Canada		47.59	79	Benin	
13	Australia		47.12	80	Cameroon	
14	Luxembourg		43.87	81	Bahrain	
15	Kenya		43.75	82	Senegal	
16	Belgium		43.47	83	Burkina Faso	
17	France		43.12	84	Cyprus	
18	Austria		40.43	85	Russian Federation	
19	Spain		39.95	86	Azerbaijan	
20	Japan		39.90	87	Cambodia	
21	Portugal		39.39	88	Nigeria	
22	Iran, Islamic Rep		38.02	89	Botswana	
23	Korea, Rep		36.57	90	Nepal	
24	Ireland		36.01	91	Dominican Republic	
25	Norway		35.82	92	Zimbabwe	
26	ltaly		35.45	93	Guatemala	
27	Malta		31.74	94	Honduras	
28	Serbia		28.42	95	Romania	
29	Israel		28.09	96	El Salvador	
30	Mauritius		26.23	97	Saudi Arabia	
31	Ukraine		25.30	98	Kyrgyzstan	
32	Iceland		24.30	99	Lebanon	
33 34	Czech Republic		23.65	100	Côte d'Ivoire	
35	Moldova, Rep Bosnia and Herzegovina		23.46 22.99	101	Viet Nam	
36	Thailand			102	Bangladesh	
37			22.31	103 104	Egypt	
38	China Mexico		21.97 21.93	104	Georgia Namibia	
39	Belarus		21.93	105	Tanzania, United Rep.	
40	Malaysia		21.65	100	Chad	
41	Costa Rica		21.03	107	Malawi	
42	Sri Lanka		21.44	108	Rwanda	
43	Hungary		20.82	110	North Macedonia	
44	Croatia		20.62	111	Türkiye	
45	Colombia		20.66	112	Pakistan	
46	Uruguay		20.60	113	Zambja	
47	Brazil		20.38	114	Indonesia	
48	Mongolia		20.13	115	Uganda	
49	Jamaica		19.79	116	Nicaragua	
50	Poland		19.67	117	Ethiopia	0.06 7.12
51	Uzbekistan		19.64	118	Brunei Darussalam	
52	Slovakia		19.53	119	Qatar	
53	Tunisia		19.33	120	Albania	
54	Peru		19.06	121	Guinea	
55	Mozambique		18.95	122	Angola	
56	Montenegro		18.50	123	Oman	
57	Bolivia, Plurinational St		18.33	123	Argentina	
58	Slovenia		18.16	125	Kuwait	
59	Estonia		17.76	125	Burundi	
60	Morocco		17.76	126	Gambia	
61	Armenia		17.03	126	Lesotho	
62	Ghana		17.33	120	Cabo Verde	
63	Jordan		16.64		Congo, Dem. Rep.	
64	Chile		16.48		Eswatini	
65			16.44			
	Latvia				Mali	
66 67	Greece		15.96 15.70		Mauritania	
67	United Arab Emirates	U.14	15.78		Trinidad and Tobago	n/a n/a

**SOURCE:** Statista, Technology Market Outlook: Public Cloud (<a href="https://www.statista.com/outlook/tmo/public-cloud/worldwide">https://www.statista.com/outlook/tmo/public-cloud/worldwide</a>): GDP data come from World Development Indicators For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

## 1.3.7 Firms with website

#### Firms with website (% of total) | 2021

Rank	Country	Value	Score	Rank	Country	Value	Score
1		.96.06	100.00	68	Pakistan		45.40
2	Denmark		96.20	69	Viet Nam		45.17
3	Netherlands		95.67	70	Malaysia		44.71
4	Austria		94.14	71	Moldova, Rep		44.59
5	Sweden		93.91	72	Kenya		43.67
6	Germany		92.28	73	India		42.86
7	Belgium		89.09	74	Thailand		41.59
8	Canada		86.41	75	Malawi		40.90
9	Norway		85.44	76	Honduras		39.28
10	United Kingdom		85.36	77	Rwanda		38.24
11	Malta		85.26	78	El Salvador		38.12
12	Slovenia		85.26	79	Egypt		38.01
13	Czech Republic		84.73	80	Mali		37.78
14	New Zealand		84.64	81	Dominican Republic		37.55
15	Iceland		84.42	82	Mexico		36.91
16	Ireland		84.18	83	Montenegro		36.39
17	Luxembourg		82.33	84	Mauritania		35.93
18	Australia		81.87	85	Mozambique		35.58
19	Estonia		81.21	86	Nicaragua		35.35
20	South Africa		80.98	87	Namibia		34.54
21	Serbia		80.41	88	Zimbabwe		33.73
22	Ecuador		79.48	89	Benin		33.27
23	Lithuania		78.99	90	Mongolia		32.35
24	Jordan		78.10	91	Ethiopia		29.23
25	Spain		77.72	92	Senegal		29.00
26	Slovakia		76.53	93	Ghana		27.38
27	Italy		75.40	94	Lao PDR		24.72
28	Belarus		73.40	95	Saudi Arabia		22.64
20 29	United States of America			95	Uzbekistan		19.29
			73.19 71.74	90	Nepal		19.29
30	Paraguay			97	•		
31	Cyprus		71.63		Bangladesh		18.83
32	Poland		71.52	99	Burundi		18.60
33	France		70.47	100	Madagascar		18.25
34	Korea, Rep		69.79	101	Cambodia		16.98
35	Colombia		69.30	102	Cameroon		15.13
36	Argentina		69.09	102	Tanzania, United Rep.		15.13
37	Peru		68.97	104	Gambia		14.90
38	Uruguay		68.85	105	Nigeria		14.79
39	Bosnia and Herzegovina		67.70	106	Indonesia		12.71
40	Latvia		67.40	107	Uganda		11.21
41	Croatia		67.33	108	Guinea		10.98
42	Azerbaijan		65.50	109	Côte d'Ivoire		9.94
43	China		65.39	110	Congo, Dem. Rep.		8.66
44	Ukraine		62.85	111	Lesotho		6.24
45	Lebanon		62.38	112	Chad		0.00
45	North Macedonia		62.38		Algeria		n/a
47	Hungary		62.29		Angola		n/a
48	Eswatini		61.23		Bahrain		n/a
49	Israel		60.94		Botswana		n/a
50	Portugal		60.69		Brunei Darussalam		n/a
51	Greece		60.02		Burkina Faso		n/a
52	Albania		58.11		Cabo Verde		n/a
53	Zambia		57.19		Chile		n/a
54		.58.50	56.61		Costa Rica		n/a
55	Guatemala		56.03		Iran, Islamic Rep		n/a
56	Armenia		55.45		Jamaica		n/a
57	Kyrgyzstan		55.11		Japan		n/a
58	Tunisia		54.30		Kuwait		n/a
59	Brazil		54.16		Mauritius		n/a
60	Morocco		53.03		Oman		n/a
61	Philippines		49.56		Panama		n/a
62	Bulgaria	51.92	49.01		Qatar	n/a	n/a
63	Romania	.51.22	48.20		Singapore		n/a
64	Georgia		48.18		Sri Lanka		n/a
65	Kazakhstan		47.25		Switzerland		n/a
66	Bolivia, Plurinational St		46.10		Trinidad and Tobago		n/a
67	Türkiye	.49.38	46.07		United Arab Emirates	n/a	n/a

SOURCE: OECD, ICT Access and Use by Businesses, OECD Telecommunications and Internet Statistics (database) (https://doi.org/10.1787/9d2cb97b-en); World Bank, Enterprise Surveys (https://www.enterprisesurveys.org/en/enterprisesurveys)

# Pillar 2 Attract

# 2.1.1 FDI regulatory restrictiveness

## FDI regulatory restrictiveness index score | 2020

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Luxembourg		100.00	68	Lao PDR		49.19
2	Portugal		99.19	69	India		45.14
2	Slovenia		99.19	70	Saudi Arabia		44.05
4	Czech Republic		98.38	71	China		43.24
5	Netherlands		97.03	72	Jordan		41.62
5	Romania		97.03	73	New Zealand		37.57
7	Estonia		96.22	74	Malaysia		31.62
7	Georgia		96.22	75	Russian Federation		30.27
9	Armenia		95.95	76	Algeria		28.65
9	Finland		95.95	76	Thailand		28.65
9	Lithuania		95.95	78	Indonesia		7.30
12	Latvia		95.93	79	Philippines		0.00
12	Spain		95.41	79	Angola		n/a
	·				3		
14	Germany		94.86 94.59		Bahrain		n/a n/a
15	Montenegro				Bangladesh		
16	Colombia		94.05		Benin		n/a
16	North Macedonia		94.05		Bolivia, Plurinational St		n/a
18	Hungary		93.24		Botswana		n/a
19	Costa Rica		92.70		Bulgaria		n/a
20	Greece		92.43		Burkina Faso		n/a
21	Denmark		92.16		Burundi		n/a
22	Croatia		91.89		Cabo Verde		n/a
23	Bosnia and Herzegovina		91.08		Cameroon		n/a
24	Belgium		90.27		Chad		n/a
24	United Kingdom		90.27		Congo, Dem. Rep		n/a
26	Ireland		89.46		Côte d'Ivoire		n/a
27	France		88.92		Cyprus		n/a
28	Slovakia		87.84		Dominican Republic		n/a
28	Uruguay		87.84		Ecuador		n/a
30	Serbia	0.05	87.57		El Salvador		n/a
31	Italy	0.05	87.03		Eswatini		n/a
31	Japan	0.05	87.03		Ethiopia		n/a
33	Cambodia	0.05	86.49		Gambia	n/a	n/a
34	South Africa	0.06	86.22		Ghana	n/a	n/a
35	Albania	0.06	85.68		Guatemala	n/a	n/a
35	Chile	0.06	85.68		Guinea	n/a	n/a
37	Singapore	0.06	85.14		Honduras	n/a	n/a
37	Sweden	0.06	85.14		Iran, Islamic Rep	n/a	n/a
37	Türkiye	0.06	85.14		Jamaica	n/a	n/a
40	Moldova, Rep	0.06	84.86		Kenya	n/a	n/a
41	Morocco	0.07	82.97		Kuwait	n/a	n/a
42	Uzbekistan	0.07	82.70		Lesotho	n/a	n/a
43	Mongolia	0.07	81.62		Madagascar	n/a	n/a
43	Poland	0.07	81.62		Malawi	n/a	n/a
45	Azerbaijan	80.0	80.27		Mali	n/a	n/a
45	Peru	80.0	80.27		Malta	n/a	n/a
47	Brazil		79.19		Mauritania	n/a	n/a
48	Switzerland	0.08	78.65		Mauritius	n/a	n/a
49	Norway	0.09	78.11		Mozambique	n/a	n/a
50	Belarus		77.84		Namibia	n/a	n/a
51	United States of America	0.09	77.03		Nepal	n/a	n/a
52	Austria	0.11	72.43		Nicaragua	n/a	n/a
53	Kazakhstan	0.11	70.54		Nigeria	n/a	n/a
54	Egypt	0.12	69.46		Oman	n/a	n/a
55	Israel	0.12	69.19		Pakistan	n/a	n/a
56	Ukraine		68.38		Panama		n/a
57	Viet Nam		65.95		Paraguay		n/a
58	Argentina		65.68		Qatar		n/a
59	Korea, Rep		64.59		Rwanda		n/a
60	Kyrgyzstan		64.05		Senegal		n/a
61	Brunei Darussalam		61.62		Sri Lanka		n/a
62	Lebanon		61.08		Tanzania, United Rep.		n/a
63	Australia		60.81		Trinidad and Tobago		n/a
64	Canada		57.57		Uganda		n/a
65	Iceland		55.95		United Arab Emirates		n/a
66	Tunisia		54.05		Zambia		n/a
67	Mexico		50.27		Zimbabwe		n/a
07	IVICATED	0.19	50.27		Z1111000044C	11/ a	11/0

**SOURCE:** OECD, FDI Regulatory Restrictiveness Index (FDI Index) (<a href="https://www.oecd.org/investment/fdiindex.htm">https://www.oecd.org/investment/fdiindex.htm</a>)
For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

# 2.1.2 Financial globalisation

## De facto financial globalisation sub-index | 2020

Rank	Country	Value	Score	Rank	Country	Value	Score
1		.99.32	100.00	68	Costa Rica		60.11
2	Mauritius		99.20	69	Namibia		60.08
3	Singapore		98.69	70	Albania		59.31
4	Ireland		98.06	71	Jordan		59.29
5	Malta		97.96	72	Zambia		59.15
6	Cyprus		97.09	73	Moldova, Rep.		58.99
7	Netherlands		96.47	74	Thailand		58.82
8	Switzerland		95.54	75	Senegal		58.74
9	Belgium		93.08	76	Oman		58.09
10	Kuwait		92.91	77	Honduras		57.67
11	United Kingdom		90.39	78	Russian Federation		56.94
12	Sweden		90.25	79	Poland		56.90
13	Finland		89.21	80	Mexico		56.30
14	Bahrain		89.13	81	Burkina Faso		55.88
15	Norway		88.59	82	Lao PDR		55.81
16	Denmark		88.48	83	Argentina		55.70
17	Qatar		85.90	84	Tunisia		54.94
18	France		85.83	85	Iceland		54.44
19	Brunei Darussalam		85.47	86	El Salvador		53.61
20	Canada		84.47	87	Kyrgyzstan		52.48
21	Austria		83.85	88	Viet Nam		52.12
22	Lebanon		83.51	89	Romania		51.27
23	Spain		83.27	90	Belarus		50.61
24	Germany		82.76	91	Korea, Rep		49.88
25	Georgia		82.50	92	Bosnia and Herzegovina		48.87
26	Estonia		82.28	93	Dominican Republic		48.33
27	Portugal		82.21	94	Mauritania		46.98
28	Montenegro		82.04	95	Côte d'Ivoire		46.29
29	Hungary		81.18	96	Brazil		45.78
30	Mongolia		80.43	97	Philippines		45.04
31	United Arab Emirates		80.42	98	Gambia		44.97
32	Slovakia		76.94	99	Peru		44.24
33	Latvia		76.69	100	Uzbekistan		42.11
34	Australia		76.24	101	Ghana		42.08
35	Jamaica		75.72	101	Morocco		41.81
36	United States of America		75.56	102	Paraguay		41.27
37	Panama		75.21	103	Türkiye		41.20
38	Chile		75.20	105	Madagascar		40.42
39	Czech Republic		75.05	106	Ecuador		40.06
40	Azerbaijan		74.98	107	Benin		39.70
41	Greece		73.22	108	Zimbabwe		38.99
42	Italy		73.19	109	Indonesia		38.44
43	Cambodia		72.99	110	Guinea		35.52
44	Kazakhstan		72.63	111	China		35.00
45	Slovenia		72.52	112	Botswana		34.77
46	Ukraine		72.48	113	Congo, Dem. Rep.		34.23
47	Japan		72.17	114	Uganda		34.21
48	Malaysia		71.96	115	Mali		33.12
49	Mozambique		71.07	116	Egypt		33.02
50	Cabo Verde		70.17	117	Sri Lanka		31.75
51	Angola		69.94	118	Bolivia, Plurinational St		31.33
52	New Zealand		69.25	119	Rwanda		29.58
53	Lithuania		68.75	120	Cameroon		28.13
54	Eswatini		68.31	121	Guatemala		27.27
55	Bulgaria		67.93	122	Nigeria		26.85
56	Croatia		67.30	123	India		25.21
57	Trinidad and Tobago		66.15	124	Tanzania, United Rep.		24.10
58	Saudi Arabia		64.34	125	Malawi		22.64
59	Lesotho		64.15	126	Burundi		19.92
60	Israel		64.07	127	Pakistan		18.08
61	Uruquay		64.01	128	Algeria		15.92
62	South Africa		63.08	129	Kenya		14.91
63	Nicaragua		62.59	130	Chad		9.00
64	Serbia		62.35	131	Ethiopia		8.18
65	Armenia		61.99	132	Nepal		4.98
66	North Macedonia		61.57	133	Bangladesh		3.00
67	Colombia		60.61	134	Iran, Islamic Rep		0.00

SOURCE: Gygli, Savina, Florian Haelg, Niklas Potrafke and Jan-Egbert Sturm (2019): The KOF Globalisation Index – Revisited, Review of International Organizations, 14(3), 543–574 (https://doi.org/10.1007/s11558-019-09344-2)

# 2.1.3 Migrant stock

## Adult migrant stock (%) | 2020

Rank	Country	Value	Score	Rank	Country	Value 9	Score
1	United Arab Emirates	4.50	100.00	68	Uzbekistan	1.84 4	40.33
2	Qatar	4.36	96.92	69	Benin	1.81	39.73
3	Kuwait	4.36	96.86	70	Kyrgyzstan	1.81	39.63
4	Bahrain	4.26	94.66	71	Rwanda	1.78	39.01
5	Luxembourg	4.02	89.43	72	Mali	1.78	39.01
6	Oman	3.99	88.55	73	Burundi	1.77 3	38.82
7	Singapore	3.89	86.49	74	Eswatini	1.75	38.41
8	Saudi Arabia	3.87	86.05	75	Mauritania	1.70	37.27
9	Israel	3.59	79.60	76	Cabo Verde	1.65 3	36.20
10	Australia	3.58	79.56	77	Angola	1.63	35.61
11	Brunei Darussalam	3.55	78.84	78	Ecuador	1.60	35.12
12	Switzerland		78.47	79	Slovakia		34.67
13	Jordan		76.80	80	Uganda		34.38
14	New Zealand		76.51	81	Peru		32.50
15	Malta		74.98	82	Paraguay		31.66
16	Kazakhstan		73.49	83	Azerbaijan		31.23
17	Lebanon		73.25	84	Korea, Rep		30.32
18	Canada		73.23	85	•		30.32
19	Sweden		69.27	86	Uruguay		29.93
							29.53
20	Germany		68.83	87	Kenya		
21	Austria		68.83	88	Colombia		29.12
22	Iceland		68.47	89	Nepal		29.00
23	Côte d'Ivoire		67.69	90	Pakistan		28.99
24	Belgium		67.05	91	Mauritius		28.78
25	Ireland		66.61	92	Moldova, Rep		28.59
26	United States of America	2.99	66.22	93	Ghana	1.21 2	26.25
27	Estonia	2.97	65.78	94	Romania	1.20	26.11
28	Norway	2.93	64.89	95	Japan	1.19 2	25.78
29	Cyprus	2.90	64.20	96	Iran, Islamic Rep	1.19 2	25.77
30	Croatia	2.84	62.81	97	Senegal	1.18 2	25.70
31	Gambia	2.82	62.48	98	Poland	1.13 2	24.38
32	Latvia	2.82	62.37	99	Zambia	1.10 2	23.85
33	United Kingdom	2.82	62.33	100	Bulgaria		23.74
34	Spain		62.26	101	Congo, Dem. Rep		23.43
35	Netherlands		62.21	102	Georgia		23.24
36	France		62.13	103	Mozambique		23.13
37	Slovenia		61.75	104	Malawi		21.98
38	Greece		60.12	105	Bangladesh		18.80
39	Montenegro		59.97	106	Guinea		18.39
40	Belarus		59.68	107	Bolivia, Plurinational St		17.88
41	Denmark		59.46	108	Tanzania, United Rep.		17.52
42	Ukraine		58.64	109	· · · · · · · · · · · · · · · · · · ·		16.00
					Bosnia and Herzegovina		
43	Serbia		57.04	110	Ethiopia		15.31
44	Costa Rica		56.38	111	Lao PDR		15.23
45	Malaysia		55.92	112	Nigeria		14.65
46	Italy		55.68	113	Albania		13.84
47	Portugal		54.49	114	El Salvador		13.02
48	Russian Federation		52.29	115	Mongolia		12.75
49	Chile		51.78	116	Lesotho		12.23
50	Panama	2.23	49.09	117	Nicaragua	0.56	11.76
51	Armenia	2.21	48.71	118	Algeria	0.56 1	11.64
52	Türkiye	2.19	48.20	119	Guatemala	0.55	11.56
53	Namibia	2.15	47.38	120	Jamaica	0.55	11.41
54	Dominican Republic	2.14	47.15	121	Egypt	0.54	11.34
55	Finland	2.14	47.11	122	Cambodia	0.54	11.19
56	Botswana		46.09	123	Tunisia		9.17
57	North Macedonia		45.55	124	Brazil		8.42
58	South Africa		45.38	125	India		8.37
59	Burkina Faso		43.89	126	Mexico		8.19
60	Hungary		43.45	120	Honduras		7.33
61			43.43	127			5.21
	Chad				Morocco		
62	Argentina		43.11	129	Philippines		3.65
63	Lithuania		42.81	130	Madagascar		3.24
	Zimbabwe	1.90	41.78	131	Sri Lanka	0.12	1.87
64	Carab Danishli	4.00	41 74	400	In also a sais	0.40	1 77
65	Czech Republic		41.74	132	Indonesia		1.77
	Czech Republic Trinidad and Tobago Thailand	1.86	41.74 40.78 40.40	132 133 134	Indonesia Viet Nam China	0.06	1.77 0.52 0.00

**SOURCE:** United Nations Population Division, Trends in International Migrant Stock: Migrants by Age and Sex (<a href="https://www.un.org/development/desa/pd/content/international-migrant-stock">https://www.un.org/development/desa/pd/content/international-migrant-stock</a>)

# 2.1.4 International students

## Tertiary inbound mobility ratio (%) | 2022

Rank		alue	Score	Rank		Value	Score
1	Cyprus		100.00	68	Tunisia		10.32
1	Luxembourg4		100.00	69	Italy		10.28
1	Montenegro10		100.00	70	Cameroon		10.03
1	Qatar		100.00	71	Greece		9.96
1	United Arab Emirates7		100.00	72	Botswana		8.75
6	Australia2		95.59	73	Côte d'Ivoire		8.65
7	Kyrgyzstan2		84.70	74	Türkiye		8.21
8	United Kingdom2		74.01	75	Azerbaijan		8.05
9	Singapore		70.38	76	Uruguay		7.56
10	Canada1		66.85	77	Madagascar		6.71
11	Switzerland1		66.61	78	Burkina Faso		6.68
12	Austria	7.98	66.00	79	Morocco	1.87	6.55
13	New Zealand1	7.49	64.18	80	Dominican Republic	1.73	6.02
14	Czech Republic1	4.99	54.97	81	Albania	1.69	5.87
15	Malta1	4.15	51.89	82	Mauritania	1.45	4.99
16	Hungary1	3.48	49.38	83	Cabo Verde	1.44	4.97
17	Netherlands1	3.32	48.81	84	Thailand	1.31	4.48
18	Latvia1		46.81	85	Kenya	1.29	4.42
19	Lebanon1	2.40	45.40	86	Costa Rica		3.94
20	Jordan1	2.33	45.17	87	Chile	1.06	3.55
21	Estonia1		45.05	88	Mongolia		3.48
22	Bahrain1		42.69	89	Ecuador		3.34
23	Portugal1		42.36	90	Egypt		3.13
24	Germany1		41.14	91	Guinea		3.04
25	Belgium1		37.94	92	Ghana		3.02
26	Slovakia1		37.66	93	Mexico		2.90
27	Denmark1		37.41	94	Mali		2.8
	Ireland 1			95	Honduras		
28			37.29				2.69
29	France		33.55	96	Iran, Islamic Rep		2.47
30	Georgia		33.09	97	Uzbekistan		2.36
31	Iceland		31.06	98	Algeria		1.93
32	Malaysia		29.42	99	Lao PDR		1.78
33	Finland		29.07	100	Eswatini		1.53
34	Slovenia		28.38	101	Zimbabwe		1.37
35	Bulgaria		28.27	102	Congo, Dem. Rep		1.26
36	Sweden	7.04	25.64	103	China	0.41	1.17
37	Mauritius	5.71	24.42	104	El Salvador	0.37	1.02
38	Bosnia and Herzegovina	5.65	24.18	105	Viet Nam	0.36	0.99
39	Belarus	5.47	23.51	106	Mozambique	0.36	0.97
40	Moldova, Rep.	5.47	23.51	107	Sri Lanka	0.36	0.96
41	Senegal	5.28	22.84	108	Lesotho	0.35	0.95
42	Lithuania	6.16	22.39	109	Cambodia	0.26	0.60
43	Romania	5.99	21.77	110	Brazil	0.25	0.57
44	Armenia	5.91	21.45	111	Guatemala	0.23	0.49
45	Japan	5.73	20.80	112	Colombia	0.20	0.40
46	Kazakhstan		19.98	113	India		0.10
47	United States of America	5.10	18.49	114	Indonesia	0.10	0.00
48	North Macedonia		18.13		Angola		n/a
49	Russian Federation		17.97		Bangladesh		n/a
50	Ukraine		17.74		Bolivia, Plurinational St		n/a
51	Burundi		17.24		Chad		n/a
52	Serbia		16.30		Ethiopia		n/a
53	Poland		16.13		Gambia		n/a
54	Norway		15.82		Jamaica		n/a
55	Rwanda		15.16		Kuwait		n/a
56	Saudi Arabia		14.52		Malawi		n/a
57	Spain		13.80		Nepal		n/a
58	Korea, Rep		13.40		Nicaragua		n/a
59	Brunei Darussalam		13.39		Nigeria		n/a
60	Argentina		12.61		Pakistan		n/a
61	Israel		12.34		Paraguay		n/a
62	Namibia		11.62		Peru		n/a
63	Oman	3.08	11.03		Philippines		n/a
64	Panama	3.08	11.02		Tanzania, United Rep	n/a	n/a
65	South Africa	3.04	10.88		Trinidad and Tobago		n/a
66	Benin	2.97	10.59		Uganda	n/a	n/a
	Croatia	۰ ۵۲	10.54		Zambia		n/a

**SOURCE:** UNESCO Institute for Statistics, UIS.Stat (<a href="http://data.uis.unesco.org/">http://data.uis.unesco.org/</a>)

# 2.1.5 Brain gain

Average answer to the question: To what extent does your country attract talented people from abroad? [1 = not at all; 7 = to a great extent—attracts the best and brightest from around the world] | 2020

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Singapore	6.12	100.00	68	Sri Lanka	3.70	45.93
2	Switzerland	6.10	99.66	69	Georgia		45.32
3	Luxembourg	5.80	93.04	70	Madagascar	3.67	45.20
4	United Arab Emirates	5.66	89.80	71	Paraguay	3.66	44.99
5	United States of America	5.60	88.41	72	Lithuania	3.64	44.59
6	Saudi Arabia	5.54	87.11	73	Angola	3.64	44.54
7	China	5.42	84.43	74	Cameroon	3.63	44.34
8	Qatar	5.42	84.36	75	Mozambique	3.59	43.31
9	Bahrain	5.38	83.44	76	Trinidad and Tobago	3.57	42.97
10	Netherlands	5.23	80.15	77	Spain	3.56	42.73
11	Canada	5.20	79.39	78	Russian Federation	3.51	41.58
12	Malta	5.17	78.74	79	Latvia	3.51	41.57
13	New Zealand	5.11	77.52	80	Ukraine	3.48	41.03
14	Azerbaijan	5.06	76.40	81	Cabo Verde	3.45	40.18
15	United Kingdom	5.04	76.01	82	Armenia	3.44	40.03
16	Ireland	4.96	74.03	83	Pakistan	3.44	40.01
17	Australia	4.94	73.58	84	Mexico	3.39	38.97
18	Belgium	4.86	71.81	85	South Africa	3.38	38.82
19	Oman	4.74	69.24	86	Albania	3.38	38.78
20	Malaysia	4.70	68.33	87	Guatemala	3.35	38.05
21	Germany	4.65	67.10	88	Colombia	3.33	37.59
22	Guinea	4.61	66.16	89	Czech Republic	3.31	37.10
23	Denmark	4.58	65.52	90	Kyrgyzstan		37.07
24	Indonesia	4.56	65.13	91	Eswatini	3.30	36.98
25	Gambia	4.56	65.09	92	Congo, Dem. Rep	3.30	36.87
26	Rwanda		64.79	93	Philippines	3.29	36.78
27	Norway	4.52	64.29	94	Peru	3.27	36.30
28	Mauritius		62.68	95	Chad		35.75
29	Estonia		62.15	96	Ethiopia		35.74
30	Côte d'Ivoire		61.46	97	Italy		34.29
31	Iceland		60.33	98	Uruguay		34.26
32	Viet Nam		60.32	99	Belarus		34.05
33	Austria		59.33	100	Mauritania		33.89
34	Senegal		58.93	101	Ecuador		31.23
35	Kenya		58.49	102	Lesotho		30.01
36	Sweden		58.12	103	Montenegro		28.53
37	Thailand		57.63	104	Hungary		28.40
38	Botswana		57.62	105	Poland		28.29
39	Ghana		56.78	106	India		28.19
40	Zambia		56.12	107	Algeria		28.02
41	Israel		55.96	108	Mongolia		27.74
42	Tanzania, United Rep.		55.95	109	Lebanon		27.25
43	Dominican Republic		55.78	110	Nepal		27.01
44	France		55.77	111	Honduras		26.43
45	Chile		55.43	112	El Salvador		26.31
46	Cambodia		54.69	113	Burkina Faso		26.26
47	Portugal		53.53	114	Argentina		25.59
48	Bangladesh		53.32	115	Türkiye		23.40
49	Egypt		52.90	116	Slovenia		22.73
50	Kuwait		52.61	117	Bulgaria		21.98
51	Costa Rica		52.50	118	Brazil		20.68
52	Panama		52.47	119	Tunisia		18.61
53	Nigeria		51.88	120	Bolivia, Plurinational St		16.93
54	Cyprus		51.63	120	Greece		16.48
55	Uganda		51.55	122	Romania		15.22
56	Jamaica		51.39	123	Slovakia		14.45
57	Kazakhstan			123	Serbia		
58	Benin		50.97 50.88	124	Zimbabwe		14.38 13.32
58 59			50.88		Nicaragua		12.19
60	Korea, Rep Namibia		50.79 50.35	126 127	5		9.60
					Croatia		
61 62	Japan		50.15	128	Iran, Islamic Rep		9.30
62	Malawi		49.80	129	North Macedonia		7.66
63	Jordan		49.48	130	Bosnia and Herzegovina		0.00
64	Mali		48.39		Brunei Darussalam		n/a
65 66	Finland		47.65		Moldova, Rep.		n/a
66 67	Burundi		47.43		Morocco		n/a
67	Lao PDR	3./6	47.24		Uzbekistan	11/d	n/a

**SOURCE:** World Economic Forum, Executive Opinion Survey 2019–2020 (<a href="https://www.weforum.org/publications">https://www.weforum.org/publications</a>)

## 2.2.1 Tolerance of minorities

## Discrimination and violence against minorities | 2022

Rank	Country	Value	Score	Rank	Country	Value S	Score
1	Finland		100.00	67	North Macedonia		42.55
2	Iceland		97.87	67	Romania		42.55
3	Ireland		96.81	67	Uzbekistan		42.55
4	Portugal		92.55	71	Azerbaijan		41.49
5	Luxembourg		84.04	71	Cambodia		41.49
6	Eswatini		82.98	71	Ecuador		41.49
6	Jamaica		82.98	71	Ukraine		41.49
8	Sweden		81.91	71	Zimbabwe		41.49
9	Japan		79.79	76	Panama		40.43
10	Canada		78.72	76	South Africa		40.43
10	New Zealand		78.72	78	Bolivia, Plurinational St		38.30
10	Uruguay		78.72	78	Moldova, Rep.		38.30
13	Malta		77.66	78	United Kingdom		38.30
13	Mongolia		77.66	81	Bosnia and Herzegovina		36.17
13	Switzerland		77.66	82	Mexico		35.11
16	Benin		76.60	83	France		31.91
16	Singapore		76.60	84	Brunei Darussalam		30.85
16	United Arab Emirates		76.60	84	China		30.85
19	Cabo Verde		75.53	84	Indonesia		30.85
19	Korea, Rep		75.53	84	Israel		30.85
19	Oman		75.53	84	Serbia		30.85
22	Costa Rica		74.47	84	United States of America		30.85
22	Gambia		74.47	90	Algeria		29.79
24				90	3		29.79
	Lesotho		71.28		Mozambique		
24	Lithuania		71.28	92	Burundi		28.72
26	Qatar		70.21	92	Côte d'Ivoire		28.72
27	Australia		69.15	92	Georgia		28.72
28	Ghana		68.09	92	Philippines		28.72
28	Netherlands		68.09	92	Spain		28.72
28	Slovenia		68.09	92	Thailand		28.72
28	Trinidad and Tobago		68.09	98	Estonia		27.66
32	Denmark		67.02	99	Lao PDR		26.60
32	Norway		67.02	99	Tunisia		26.60
34	Argentina		65.96	101	Mauritania		25.53
34	Chile		65.96	102	Brazil		24.47
36	Austria		64.89	103	Colombia		22.34
36	Hungary		64.89	104	Kazakhstan		21.28
36	Madagascar		64.89	105	Uganda		19.15
39	Germany		63.83	106	Egypt		18.09
40	Albania		62.77	106	Kenya		18.09
40	Belgium		62.77	106	Latvia		18.09
42	Botswana		60.64	106	Lebanon		18.09
42	Italy		60.64	110	India		17.02
44	Bulgaria		57.45	110	Russian Federation		17.02
44	Czech Republic		57.45	110	Sri Lanka		17.02
44	Greece		57.45	113	Kyrgyzstan		15.96
44	Namibia		57.45	113	Mali		15.96
48	Kuwait		56.38	115	Jordan		14.89
48	Malawi		56.38	115	Peru		14.89
50	Croatia		54.26	117	Angola		13.83
50	Dominican Republic		54.26	117	Cameroon		13.83
52	Mauritius		53.19	117	Chad		13.83
52	Paraguay		53.19	120	Morocco	8.60	11.70
54	Cyprus	4.80	52.13	121	Bangladesh	8.70 1	10.64
54	Honduras	4.80	52.13	122	Nigeria	8.90	8.51
56	Malaysia	5.10	48.94	122	Pakistan	8.90	8.51
56	Tanzania, United Rep.	5.10	48.94	124	Nepal	9.10	6.38
56	Viet Nam	5.10	48.94	125	Ethiopia	9.20	5.32
59	Poland	5.30	46.81	125	Iran, Islamic Rep	9.20	5.32
59	Senegal	5.30	46.81	125	Montenegro	9.20	5.32
61	Slovakia	5.40	45.74	128	Congo, Dem. Rep	9.30	4.26
62	Burkina Faso	5.50	44.68	128	Guatemala	9.30	4.26
63	Armenia	5.60	43.62	128	Rwanda	9.30	4.26
63	Belarus	5.60	43.62	128	Saudi Arabia	9.30	4.26
63	El Salvador	5.60	43.62	132	Türkiye	9.40	3.19
63	Zambia	5.60	43.62	133	Bahrain	9.60	1.06
67	Nicaragua	5.70	42.55	134	Guinea	9.70	0.00

**SOURCE:** The Fund for Peace, *Fragile States Index 2022* (<a href="https://fragilestatesindex.org/">https://fragilestatesindex.org/</a>)

# 2.2.2 Tolerance of immigrants

The percentage of respondents answering "Good place" to the question: Is the city or area where you live a good place or not a good place to live for immigrants from other countries? | 2020

Rank	Country Value	Score	Rank	Country	Value Sco
1	United Arab Emirates	100.00	66	Ecuador	58.
2	Canada	98.46	66	Eswatini	58.
3	Luxembourg	95.38	66	Korea, Rep	58.
3	New Zealand	95.38	66	Mexico	58.
3	Norway	95.38	72	Armenia	56.
6	Australia	93.85	72	Bangladesh	56.
6	Ireland	93.85	72	Japan	56.
8	Portugal	92.31	72	Jordan	56.
8	Sweden	92.31	76	Bosnia and Herzegovina	55.
8	Uruguay	92.31	76	Lesotho	55.
11	United States of America	90.77	76	Ukraine	55.
12	Gambia	89.23	79	Azerbaijan	53.
13	Benin	87.69	79	Burundi	53.
13	Paraguay	87.69	79	Viet Nam	53.
13	Spain	87.69	82	Cyprus	50.
16	Denmark	84.62	82	India	50.
16	Jamaica	84.62	82	Namibia	50.
16	Mauritius	84.62	82	Peru	50.
16	Nepal	84.62	82	Poland	50.
16	Singapore	84.62	82	Trinidad and Tobago	50.
21	Argentina	83.08	88	Lebanon	47.
21	Iceland	83.08	88	Sri Lanka	47.
21	Qatar	83.08	88	Zimbabwe	47.
24	Brazil	81.54	91	Angola	46
24	United Kingdom	81.54	91	Congo, Dem. Rep	46
26	Saudi Arabia	80.00	91	Tunisia	46
27	Burkina Faso	78.46	94	Türkiye	44.
27	Costa Rica	78.46	95	Egypt	43.
29	Bahrain	76.92	95	Kazakhstan	43.
29	Côte d'Ivoire	76.92	95	Panama	43.
29	Finland	76.92	98	Iran, Islamic Rep	41.
29	Netherlands	76.92	98	Moldova, Rep	41.
29	Switzerland	76.92	98	Rwanda	
34	Germany	75.38	98	Tanzania, United Rep	41.
34	Guinea	75.38	102	Albania	
34	Malta	75.38	102	Mauritania	- 40.
37	Italy	73.85	104	Algeria	38.
37	Senegal	73.85	104	Honduras	38.
39	Ethiopia	72.31	104	Morocco	38.
39	Georgia	72.31	104	Slovakia	38.
39	Ghana	72.31	108	Pakistan	36.
39	Russian Federation	72.31	109	Czech Republic	35.
43	Montenegro	70.77	109	Estonia	35.
43	Nicaragua	70.77	109	Madagascar	35.
43	South Africa	70.77	109	North Macedonia	35.
43	Zambia	70.77	109	Romania	35.
47	Kuwait	69.23	114	Lithuania	33.
48	Chile	67.69	114	Uganda	
48	Dominican Republic		116	Belarus	
48	Kenya	67.69	116	Bulgaria	
51	Austria	66.15	116	Greece	
51	El Salvador		119	Indonesia	
51	Kyrgyzstan		119	Latvia	
51	Mali		119	Mongolia	
51	Serbia		122	Israel	
56	Botswana		123	Malawi	
56	Uzbekistan		124	Croatia	
58	Mozambique		125	Slovenia	
58	Philippines		125	Thailand	
60	Cameroon		127	Guatemala	
60	France		128	Cambodia	
60	Nigeria		128	Malaysia	
63	Belgium		130	Lao PDR	
63	Chad		131	Hungary	
63	Colombia -		ادا	Brunei Darussalam	
66	Bolivia, Plurinational St			Cabo Verde	
66	China -			Oman	n/a r

**SOURCE:** The Gallup World Poll (2006–2020). Data kindly provided by Gallup, Inc.

## 2.2.3 Social mobility

Average answer to the question: In your country, to what extent do individuals have the opportunity to improve their economic situation through their personal efforts regardless of the socioeconomic status of their parents? [1 = not at all; 7 = to a great extent] | 2022

	Country	Value	Score		Country	Value	Score
1	Finland		100.00	68	Panama		44.65
2	Denmark		98.33	69	Tanzania, United Rep		44.25
3	Switzerland		97.51	70	Peru		44.09
4	Iceland		94.79	71	Ghana		43.25
5	Estonia		88.31	72	Gambia		43.20
6	Singapore		87.54	73	Serbia		42.75
7	United States of America		84.98	74	Philippines		42.19
8	Norway		84.25	75	Kuwait		42.16
9	New Zealand		83.93	76	Albania		42.13
10	Luxembourg	5.67	83.11	77	Burkina Faso		41.96
11	Lithuania	5.61	81.07	78	Guatemala		41.84
12	Austria		80.63	79	Mali		41.19
13	Netherlands	5.55	79.25	80	Poland	4.31	40.44
14	United Arab Emirates	5.50	77.72	81	Thailand	4.30	40.13
15	Australia	5.48	77.15	82	Jamaica	4.30	40.02
16	Sweden	5.47	76.84	83	Brazil	4.29	39.82
17	Saudi Arabia	5.45	76.06	84	Burundi	4.27	39.21
18	Benin	5.43	75.60	85	Moldova, Rep	4.25	38.50
19	Uzbekistan	5.43	75.31	86	Mauritania	4.24	38.33
20	Japan	5.41	74.68	87	Kenya	4.24	38.29
21	Slovenia	5.36	73.40	88	Dominican Republic	4.24	38.10
22	Czech Republic	5.30	71.49	89	Belarus	4.23	38.00
23	United Kingdom	5.26	69.98	90	Tunisia	4.20	37.08
24	Ireland	5.25	69.77	91	Cambodia	4.20	36.97
25	Malaysia	5.23	69.08	92	Malawi	4.20	36.95
26	Chile	5.22	68.84	93	Namibia	4.20	36.85
27	Indonesia	5.21	68.44	94	Congo, Dem. Rep	4.19	36.54
28	Bahrain	5.20	68.23	95	Colombia	4.19	36.54
29	Germany	5.18	67.64	96	Brunei Darussalam	4.18	36.36
30	Canada	5.18	67.48	97	Morocco	4.18	36.27
31	Qatar	5.17	67.46	98	Guinea	4.16	35.78
32	Azerbaijan	5.14	66.25	99	Paraguay	4.16	35.68
33	China	5.10	65.20	100	South Africa	4.16	35.59
34	Costa Rica	5.10	65.19	101	Zambia	4.12	34.35
35	Belgium	5.09	64.82	102	Ukraine	4.11	34.04
36	France		64.80	103	Nigeria	4.08	33.25
37	Israel	5.01	62.25	104	Bulgaria		33.22
38	Malta	4.97	61.00	105	Hungary		33.13
39	Georgia	4.94	60.19	106	Senegal	4.05	32.27
40	Oman		59.56	107	Bangladesh		32.03
41	Rwanda		58.79	108	Montenegro		31.84
42	Botswana		58.49	109	Ecuador		31.67
43	Spain		58.47	110	Algeria		31.09
44	Uruguay		58.42	111	Korea, Rep		29.81
45	Pakistan		58.35	112	Croatia		29.67
46	Latvia		57.50	113	Madagascar		29.32
47	Viet Nam	4.82	56.25	114	Mexico		28.13
48	Slovakia		55.79	115	Eswatini		27.13
49	Sri Lanka		53.19	116	Bolivia, Plurinational St		25.23
50	Mongolia	4.68	51.90	117	Nepal		23.56
51	Kazakhstan		50.19	118	Argentina		23.29
52	Côte d'Ivoire		50.02	119	Bosnia and Herzegovina		21.26
53	Armenia		49.69	120	Cabo Verde		20.59
54	Egypt		49.10	121	Türkiye		20.19
55	Romania		48.55	122	Chad		19.74
56	Greece		48.42	123	India		19.47
57	Mauritius		48.29	124	Honduras		18.69
58	Cameroon		48.10	125	North Macedonia		17.96
59	Trinidad and Tobago		47.20	126	Zimbabwe		16.13
60	Jordan		46.89	127	El Salvador		15.63
61	Kyrgyzstan		46.36	128	Lesotho		10.46
62	Portugal		45.88	129	Nicaragua		9.41
63	Cyprus		45.53	130	Iran, Islamic Rep		8.10
64	Uganda		45.37	131	Ethiopia		7.43
65	Italy		45.35	132	Lebanon		7.43
66	Russian Federation		45.33	133	Mozambique		4.34
					•		0.00
67	Lao PDR		44.93	134	Angola		

**SOURCE:** World Economic Forum, Executive Opinion Survey 2021–2022 (<a href="https://www.weforum.org/publications">https://www.weforum.org/publications</a>)

# 2.2.4 Economic empowerment of women

## Women, Business, and the Law index score $\mid$ 2022

Rank	Country	e Sco	re Rank	,	Value	Score
1	Belgium100.0			Rwanda		76.99
1	Canada100.0			Burkina Faso		75.22
1	Denmark			Mozambique		75.22
1	France			Singapore		75.22
1	Germany			Türkiye		75.22
1	Greece			United Arab Emirates		75.22
1	Iceland			Cambodia		73.45
1	Ireland			Tanzania, United Rep		73.45
1	Latvia			Uganda		73.45
1	Luxembourg			Zambia		73.45
1	Netherlands			Israel		72.57
1	Portugal100.0			Kenya		72.57
1	Spain			Nepal		72.57
1	Sweden			Chile		71.68
15	Estonia			Malawi		71.68
15	Finland			Angola		70.80
15	ltaly			Argentina		70.80
15	New Zealand			Panama		70.80
15	United Kingdom			Azerbaijan		69.91
20	Australia			Congo, Dem. Rep		69.91
20	Austria96.8			Japan		69.91
20	Hungary96.8			Philippines		69.91
20	Norway96.8			China		69.03
20	Slovenia96.8			Lesotho		69.03
25	Côte d'Ivoire95.0			Thailand		69.03
25	Peru			Ethiopia		67.26
27	Cyprus			Kyrgyzstan		67.26
27	Paraguay94.3			Burundi		66.37
29	Croatia93.7			Belarus		65.49
29	Czech Republic93.7			Kazakhstan		65.49
29	Lithuania93.7			Morocco		65.49
29	Poland			Ghana		64.60
29	Serbia93.7			Honduras		64.60
34	Costa Rica			Trinidad and Tobago		64.60
35	Albania			India		63.72
35	Malta			Jamaica		63.72
35	United States of America91.2			Guatemala		62.83
38	Bulgaria			Guinea		62.83
38	Mongolia			Russian Federation		61.95
38						
	Romania			Senegal	72.50	61.06
41	Ecuador89.3	8 84.9	108	Saudi Arabia	72.50 71.25	59.29
41	Ecuador	8 84.9 8 84.9	96 108 96 109	Saudi ArabiaIndonesia	72.50 71.25 70.62	59.29 58.41
41 43	Ecuador         89.3           Mauritius         89.3           Bolivia, Plurinational St         88.3	8 84.9 8 84.9 5 84.0	96 108 96 109 97 109	Saudi ArabiaIndonesiaUzbekistan		59.29 58.41 58.41
41 43 43	Ecuador         89.3           Mauritius         89.3           Bolivia, Plurinational St         88.3           El Salvador         88.3	8 84.9 8 84.9 5 84.0 5 84.0	96 108 96 109 97 109 97 111	Saudi Arabia Indonesia Uzbekistan Gambia	72.50 71.25 70.62 70.62 69.38	59.29 58.41 58.41 56.64
41 43 43 43	Ecuador         89.3           Mauritius         89.3           Bolivia, Plurinational St         88.3           El Salvador         88.3           Mexico         88.3	8 84.9 8 84.9 5 84.0 5 84.0 5 84.0	96 108 106 109 107 109 107 111	Saudi Arabia	72.50 71.25 70.62 70.62 69.38 69.38	59.29 58.41 58.41 56.64 56.64
41 43 43 43 43	Ecuador       89.3         Mauritius       89.3         Bolivia, Plurinational St       88.3         El Salvador       88.3         Mexico       88.3         Uruguay       88.3	8 84.9 8 84.9 5 84.0 5 84.0 5 84.0	108 106 109 107 109 107 111 107 113	Saudi Arabia	72.50 71.25 70.62 70.62 69.38 69.38 68.12	59.29 58.41 58.41 56.64 56.64 54.87
41 43 43 43 43 47	Ecuador       89.3         Mauritius       89.3         Bolivia, Plurinational St       88.3         El Salvador       88.3         Mexico       88.3         Uruguay       88.3         Georgia       88.3	8 84.9 8 84.9 5 84.0 5 84.0 5 84.0 2 83.1	166 108 166 109 167 109 167 111 167 111 167 113 179 114	Saudi Arabia	72.50 71.25 70.62 70.62 69.38 69.38 68.12 66.25	59.29 58.41 58.41 56.64 56.64 54.87 52.21
41 43 43 43 43 47 47	Ecuador       89.3         Mauritius       89.3         Bolivia, Plurinational St       88.3         El Salvador       88.3         Mexico       88.3         Uruguay       88.3         Georgia       88.3         Lao PDR       88.3	8 84.9 8 84.9 5 84.0 5 84.0 5 84.0 5 84.0 2 83.1 2 83.1	166 108 166 109 167 109 167 111 167 111 167 113 17 114 19 114	Saudi Arabia	72.50 71.25 70.62 70.62 69.38 69.38 68.12 66.25	59.29 58.41 58.41 56.64 56.64 54.87 52.21 52.21
41 43 43 43 43 47 47	Ecuador       89.         Mauritius       89.         Bolivia, Plurinational St       88.         El Salvador       88.         Mexico       88.         Uruguay       88.         Georgia       88.         Lao PDR       88.         South Africa       88.	8 84.9 8 84.9 5 84.0 5 84.0 5 84.0 6 84.0 2 83.1 2 83.1	108 108 109 107 109 107 111 111 114 114 115 116 116 116 116 116 116 116 116 116	Saudi Arabia	72.50 71.25 70.62 70.62 69.38 69.38 68.12 66.25 66.25 65.62	59.29 58.41 56.64 56.64 54.87 52.21 52.21 51.33
41 43 43 43 43 47 47 47	Ecuador       89.         Mauritius       89.         Bolivia, Plurinational St       88.         El Salvador       88.         Mexico       88.         Uruguay       88.         Georgia       88.         Lao PDR       88.         South Africa       88.         Switzerland       88.	8 84.9 8 84.9 5 84.0 5 84.0 5 84.0 5 84.0 2 83.1 2 83.1 2 83.1	108 108 109 107 109 107 111 111 17 1114 19 116 9 117	Saudi Arabia	72.50 71.25 70.62 70.62 70.62 69.38 69.38 68.12 66.25 66.25 65.62 64.38	59.29 58.41 58.41 56.64 56.64 54.87 52.21 52.21 51.33 49.56
41 43 43 43 43 47 47 47 47	Ecuador       89.         Mauritius       89.         Bolivia, Plurinational St       88.         El Salvador       88.         Mexico       88.         Uruguay       88.         Lao PDR       88.         South Africa       88.         Switzerland       88.         Viet Nam       88.	8 84.9 8 84.9 5 84.0 5 84.0 5 84.0 5 84.0 2 83.1 2 83.1 2 83.1 2 83.1	108 108 109 107 109 107 111 113 114 19 116 117 118 117 117 119 119 119 119 119 119 118	Saudi Arabia	72.50 71.25 70.62 70.62 69.38 69.38 68.12 66.25 66.25 65.62 64.38 63.75	59.29 58.41 58.41 56.64 56.64 54.87 52.21 52.21 51.33 49.56 48.67
41 43 43 43 43 47 47 47 47 47 52	Ecuador         89.3           Mauritius         89.3           Bolivia, Plurinational St         88.3           El Salvador         88.3           Mexico         88.3           Uruguay         88.3           Georgia         88.3           Lao PDR         88.3           South Africa         88.3           Switzerland         88.3           Viet Nam         88.3           Armenia         87.5	8 84.9 8 84.9 5 84.0 5 84.0 5 84.0 2 83.1 2 83.1 2 83.1 2 83.1 2 83.1	108 108 109 107 109 107 111 107 111 113 114 119 1116 119 1116 119 1117 1118 119 1116 119 1118 110 1118 110 1118 110 1118	Saudi Arabia	72.50 71.25 70.62 70.62 69.38 69.38 69.38 66.25 66.25 66.25 65.62 64.38 63.75	59.29 58.41 58.41 56.64 56.64 54.87 52.21 51.33 49.56 48.67 48.67
41 43 43 43 47 47 47 47 47 52 52	Ecuador       89.3         Mauritius       89.3         Bolivia, Plurinational St       88.3         El Salvador       88.3         Mexico       88.3         Uruguay       88.3         Georgia       88.3         Lao PDR       88.3         South Africa       88.3         Switzerland       88.3         Viet Nam       88.3         Armenia       87.5         Moldova, Rep.       87.5	8 84.9 8 84.9 5 84.0 5 84.0 5 84.0 2 83.1 2 83.1 2 83.1 2 83.1 0 82.2 0 82.2	108 108 109 107 109 107 111 107 117 11	Saudi Arabia	72.50 71.25 70.62 70.62 69.38 69.38 68.12 66.25 66.25 65.62 64.38 63.75 63.75	59.29 58.41 58.41 56.64 56.64 54.87 52.21 51.33 49.56 48.67 48.67 43.36
41 43 43 43 47 47 47 47 47 52 52 54	Ecuador       89.3         Mauritius       89.3         Bolivia, Plurinational St       88.3         El Salvador       88.3         Mexico       88.3         Uruguay       88.3         Georgia       88.3         Lao PDR       88.3         South Africa       88.3         Switzerland       88.3         Viet Nam       88.3         Armenia       87.5         Moldova, Rep.       87.5         Zimbabwe       86.6	8 84.98 84.95 84.05 84.05 84.05 84.02 83.12 83.10 82.32 83.14 88.1	108 108 109 107 109 107 111 107 117 11	Saudi Arabia	72.50 71.25 70.62 70.62 69.38 69.38 68.12 66.25 66.25 65.62 64.38 63.75 63.75 60.00 58.75	59.29 58.41 56.64 56.64 54.87 52.21 52.21 51.33 49.56 48.67 43.36 41.59
41 43 43 43 43 47 47 47 47 52 52 54 55	Ecuador       89.3         Mauritius       89.3         Bolivia, Plurinational St       88.3         El Salvador       88.3         Mexico       88.3         Uruguay       88.3         Georgia       88.3         Lao PDR       88.3         South Africa       88.3         Switzerland       88.3         Viet Nam       88.3         Armenia       87.4         Moldova, Rep.       87.5         Zimbabwe       86.6         Cabo Verde       86.5	8 84.98 84.95 84.05 84.05 84.05 84.05 84.00 82.32 83.1 83.0 82.38 81.4 55 80.55 80.55 80.55	108 108 109 107 109 107 111 11 11 11 11 11 11 11 11 11 11 11 1	Saudi Arabia	72.50 71.25 70.62 70.62 69.38 69.38 68.12 66.25 66.25 65.62 64.38 63.75 60.00 58.75 58.75	59.29 58.41 56.64 56.64 54.87 52.21 52.21 51.33 49.56 48.67 43.36 41.59 41.59
41 43 43 43 43 47 47 47 47 52 52 54 55	Ecuador       89.         Mauritius       89.         Bolivia, Plurinational St       88.         El Salvador       88.         Mexico       88.         Uruguay       88.         Georgia       88.         Lao PDR       88.         South Africa       88.         Switzerland       88.         Viet Nam       88.         Armenia       87.         Moldova, Rep.       87.         Zimbabwe       86.         Cabo Verde       86.         Dominican Republic       86.	8 84.988 84.985 84.055 84.055 84.055 84.02 83.12 83.12 83.12 83.13 2 83.13 2 83.13 2 83.13 2 83.15 80.95 80.95 80.95 80.95 80.95 80.95	108 108 109 107 109 107 111 1107 1113 114 119 116 118 118 118 119 118 118 119 118 118 119 118 118	Saudi Arabia	72.50 71.25 70.62 70.62 70.62 69.38 68.12 66.25 66.25 65.62 64.38 63.75 63.75 60.00 58.75 58.75	59.29 58.41 56.64 56.64 54.87 52.21 52.21 51.33 49.56 48.67 43.36 41.59 41.59 39.82
41 43 43 43 47 47 47 47 47 52 52 54 55 55	Ecuador         89.           Mauritius         89.           Bolivia, Plurinational St         88.           El Salvador         88.           Mexico         88.           Uruguay         88.           Georgia         88.           Lao PDR         88.           South Africa         88.           Switzerland         88.           Viet Nam         88.           Armenia         87.           Moldova, Rep.         37.           Zimbabwe         86.           Cabo Verde         86.           Dominican Republic         86.           Namibia         86.	8 84.9.8 84.9.5 84.0.5 84.0.5 84.0.5 84.0.5 84.0.5 84.0.5 84.0.5 84.0.5 84.0.5 84.0.5 83.1 83.1 83.1 83.1 83.1 83.1 83.1 83.1	108 108 109 107 109 107 111 107 111 107 1114 19 114 19 116 109 118 100 120 120 121 123 123 123 123 124	Saudi Arabia	72.50 71.25 70.62 70.62 70.62 69.38 69.38 68.12 66.25 66.25 65.62 64.38 63.75 63.75 60.00 558.75 58.75 57.50	59.29 58.41 56.64 56.64 54.87 52.21 51.33 49.56 48.67 43.36 41.59 41.59 39.82 33.63
41 43 43 43 47 47 47 47 52 52 54 55 55 55	Ecuador         89.           Mauritius         89.           Bolivia, Plurinational St         88.           El Salvador         88.           Mexico         88.           Uruguay         88.           Georgia         88.           Lao PDR         88.           South Africa         88.           Switzerland         88.           Viet Nam         88.           Armenia         87.           Moldova, Rep.         87.           Zimbabwe         86.           Cabo Verde         86.           Dominican Republic         86.           Namibia         86.           Nicaragua         86.	8 84.9.8 84.9.8 84.9.5 84.0.5 84.0.5 84.0.5 84.0.0 82.5 83.1 22 83.1 22 83.1 22 83.1 22 83.1 25 83.1 2	108 108 109 107 109 107 111 107 111 107 113 19 114 19 116 19 117 19 118 10 120 120 121 133 123 123 123 125 133 125	Saudi Arabia	72.50 71.25 70.62 70.62 70.62 69.38 69.38 68.12 66.25 66.25 65.62 63.75 63.75 60.00 58.75 58.75 57.50 53.12 50.62	59.29 58.41 56.64 56.64 54.87 52.21 51.33 49.56 48.67 43.36 41.59 39.82 33.63 30.09
41 43 43 43 47 47 47 47 52 52 54 55 55 55	Ecuador         89.           Mauritius         89.           Bolivia, Plurinational St         88.           El Salvador         88.           Mexico         88.           Uruguay         88.           Lao PDR         88.           South Africa         88.           Switzerland         88.           Viet Nam         88.           Armenia         87.           Moldova, Rep         87.           Zimbabwe         86.           Cabo Verde         86.           Dominican Republic         86.           Namibia         86.           Nicaragua         86.           Bosnia and Herzegovina         85.6	8 84.9.8 84.9.8 84.9.5 84.0.5 84.0.5 84.0.5 84.0.2 83.1 2 83.1 2 83.1 2 83.1 2 83.1 5 80.5 5	108 108 109 107 109 107 111 107 111 113 114 119 116 116 118 116 118 118 118 118 118 118	Saudi Arabia	72.50 71.25 70.62 70.62 70.62 69.38 69.38 68.12 66.25 66.25 65.62 64.38 63.75 60.00 58.75 58.75 57.50 53.12 50.62	59.29 58.41 56.64 56.64 54.87 52.21 51.33 49.56 48.67 43.36 41.59 41.59 41.59 33.63 30.09 29.20
41 43 43 43 47 47 47 47 52 52 54 55 55 55 55	Ecuador         89.3           Mauritius         89.3           Bolivia, Plurinational St         88.3           El Salvador         88.3           Mexico         88.3           Uruguay         88.3           Lao PDR         88.3           South Africa         88.3           Switzerland         88.3           Viet Nam         88.3           Armenia         87.5           Moldova, Rep.         87.5           Zimbabwe         86.6           Cabo Verde         86.6           Dominican Republic         86.6           Namibia         86.0           Nicaragua         86.2           Bosnia and Herzegovina         85.0           Brazil         85.0	8 84.9.8 8 84.9.8 5 84.0 5 84.0 5 84.0 5 84.0 2 83.1 2 83.1 2 83.1 2 83.1 2 83.1 5 80.9.5 5 80.9.5 5 80.9.5 5 80.9.5 7 80.9.5	108 108 109 107 109 107 111 111	Saudi Arabia	72.50 71.25 70.62 70.62 70.62 69.38 69.38 68.12 66.25 66.25 65.62 64.38 63.75 60.00 58.75 58.75 57.50 53.12 50.62 50.00 49.38	59.29 58.41 56.64 56.64 54.87 52.21 51.33 49.56 48.67 43.36 41.59 41.59 39.82 33.63 30.09 29.20 28.32
41 43 43 43 47 47 47 47 52 52 54 55 55 55 55 59	Ecuador         89.3           Mauritius         89.3           Bolivia, Plurinational St         88.3           El Salvador         88.3           Mexico         88.3           Uruguay         88.3           Georgia         88.3           Lao PDR         88.3           South Africa         88.3           Switzerland         88.3           Viet Nam         88.3           Armenia         87.5           Moldova, Rep.         87.5           Zimbabwe         86.2           Cabo Verde         86.2           Dominican Republic         86.2           Namibia         86.7           Nicaragua         86.2           Bosnia and Herzegovina         85.0           Korea, Rep.         85.0           Korea, Rep.         85.0	8 84.9.8 8 84.9.8 5 84.0.5 5 84.0.5 5 84.0.2 2 83.1 2 83.1 2 83.1 2 83.1 2 83.1 2 83.1 5 80.9.5 5 80.9.5 5 80.9.5 5 80.9.5 7 80.9.5 7 80.9.5 7 80.9.5	108 108 109 107 109 107 111 111	Saudi Arabia	72.50 71.25 70.62 70.62 70.62 69.38 68.12 66.25 66.25 65.62 64.38 63.75 60.00 58.75 57.50 53.12 50.62 50.60 49.38 49.38	59.29 58.41 56.64 56.64 54.87 52.21 51.33 49.56 48.67 43.36 41.59 41.59 39.82 33.63 30.09 29.20 28.32 26.55
41 43 43 43 47 47 47 47 52 52 54 55 55 55 55 59 59	Ecuador         89.3           Mauritius         89.3           Bolivia, Plurinational St         88.3           El Salvador         88.3           Mexico         88.3           Uruguay         88.3           Georgia         88.3           Lao PDR         88.3           South Africa         88.3           Switzerland         88.3           Armenia         87.4           Moldova, Rep.         87.5           Zimbabwe         86.6           Cabo Verde         86.2           Dominican Republic         86.3           Nicaragua         86.3           Bosnia and Herzegovina         85.6           Brazil         85.0           Montenegro         85.0	8 84.98 84.95 84.0	108 108 109 107 109 107 111 1107 1113 114 119 114 116 118 118 119 116 118 119 118 119 118 119 118 119 119 118 119 119	Saudi Arabia	72.50 71.25 70.62 70.62 70.62 69.38 68.12 66.25 65.62 64.38 63.75 60.00 58.75 57.50 53.12 50.62 49.38 48.12 46.88	59.29 58.41 56.64 56.64 54.87 52.21 51.33 49.56 48.67 48.67 43.36 41.59 39.82 33.63 30.09 29.20 28.32 26.55 24.78
41 43 43 43 47 47 47 47 52 52 54 55 55 55 55 59 59 59	Ecuador         89.3           Mauritius         89.3           Bolivia, Plurinational St         88.3           El Salvador         88.3           Mexico         88.3           Mexico         88.3           Juruguay         88.3           Georgia         88.3           Lao PDR         88.5           South Africa         88.5           Switzerland         88.5           Armenia         87.2           Moldova, Rep.         87.4           Zimbabwe         86.2           Cabo Verde         86.2           Dominican Republic         86.2           Namibia         86.2           Bosnia and Herzegovina         85.0           Brazil         85.0           Korea, Rep         85.0           Montenegro         85.0           North Macedonia         85.0	8 84.9.8 84.9.5 84.0.5 84.0.5 84.0.5 84.0.5 84.0.5 84.0.5 84.0.5 84.0.5 84.0.5 84.0.5 84.0.5 85.5 80.9.5 80	108 108 109 107 109 107 111 111	Saudi Arabia	72.50 71.25 70.62 70.62 70.62 69.38 68.12 66.25 66.25 65.62 64.38 63.75 63.75 60.00 58.75 57.50 53.12 50.62 50.00 49.38 48.12 46.88	59.29 58.41 56.64 56.64 54.87 52.21 51.33 49.56 48.67 43.36 41.59 41.59 39.82 33.63 30.09 29.20 28.32 26.55 24.78 23.89
41 43 43 43 47 47 47 47 52 52 54 55 55 55 55 59 59 59 59	Ecuador         89.3           Mauritius         89.3           Bolivia, Plurinational St         88.3           El Salvador         88.3           Mexico         88.3           Mexico         88.3           Georgia         88.3           Lao PDR         88.3           South Africa         88.3           Switzerland         88.3           Viet Nam         88.4           Armenia         87.5           Moldova, Rep.         87.2           Zimbabwe         86.6           Cabo Verde         86.2           Dominican Republic         86.2           Nicaragua         86.2           Bosnia and Herzegovina         85.0           Brazil         85.0           Montenegro         85.0           North Macedonia         85.0           Slovakia         85.0	8 84.98 84.95 84.0	16       108         16       109         17       109         17       111         17       113         19       114         19       116         19       117         19       118         10       120         120       120         121       121         13       123         13       125         16       126         16       127         16       129         16       130         16       131	Saudi Arabia	72.50 71.25 70.62 70.62 70.62 69.38 69.38 68.12 66.25 66.25 65.62 64.38 63.75 63.75 60.00 58.75 57.50 53.12 50.62 50.00 49.38 49.38 48.12 46.88 46.25 38.75	59.29 58.41 56.64 56.64 54.87 52.21 51.33 49.56 48.67 43.36 41.59 39.82 33.63 30.09 29.20 28.32 26.55 24.78 23.89 13.27
41 43 43 43 47 47 47 52 52 55 55 55 55 55 59 59 59 59 59 59	Ecuador         89.3           Mauritius         89.3           Bolivia, Plurinational St         88.3           El Salvador         88.3           Mexico         88.3           Uruguay         88.3           Georgia         88.3           Lao PDR         88.3           South Africa         88.3           Switzerland         88.3           Viet Nam         88.4           Armenia         87.5           Moldova, Rep.         37.2           Zimbabwe         86.6           Cabo Verde         86.2           Dominican Republic         86.2           Namibia         86.2           Nicaragua         86.3           Bosnia and Herzegovina         85.0           Korea, Rep.         85.0           Montenegro         85.0           North Macedonia         85.0           Ukraine         85.0	8 84.9.8 84.9.8 84.9.5 84.0.5	16       108         16       109         17       109         17       111         17       113         19       114         19       116         19       117         19       118         10       120         120       121         133       121         133       124         133       125         16       126         16       127         16       128         16       130         16       131         16       131         16       131         16       132	Saudi Arabia	72.50 71.25 70.62 70.62 70.62 70.62 69.38 69.38 68.12 66.25 66.25 65.62 64.38 63.75 63.75 60.00 558.75 57.50 53.12 50.62 50.00 49.38 48.12 46.88 46.25 38.75 35.00	59.29 58.41 56.64 56.64 54.87 52.21 51.33 49.56 48.67 43.36 41.59 39.82 33.63 30.09 29.20 28.32 26.55 24.78 23.89 13.27 7.96
41 43 43 43 47 47 47 47 52 52 54 55 55 55 55 59 59 59 59	Ecuador         89.3           Mauritius         89.3           Bolivia, Plurinational St         88.3           El Salvador         88.3           Mexico         88.3           Mexico         88.3           Georgia         88.3           Lao PDR         88.3           South Africa         88.3           Switzerland         88.3           Viet Nam         88.4           Armenia         87.5           Moldova, Rep.         87.2           Zimbabwe         86.6           Cabo Verde         86.2           Dominican Republic         86.2           Nicaragua         86.2           Bosnia and Herzegovina         85.0           Brazil         85.0           Montenegro         85.0           North Macedonia         85.0           Slovakia         85.0	8 84.9.8 84.9.8 84.9.5 84.0.5 84.0.5 84.0.5 84.0.5 84.0.0 82.3.2 83.1 22 83.1 22 83.1 20 82.3.3 82.5 83.1 25 83.1 26 83.1 27 83.1 28 83.1 28 83.1 28 83.1 28 83.1 29 8	16       108         16       109         17       109         17       111         17       113         19       114         19       114         19       116         19       117         19       118         10       120         12       121         13       123         13       124         13       125         16       127         16       128         16       130         16       131         16       132         18       133	Saudi Arabia	72.50 71.25 70.62 70.62 70.62 70.62 69.38 69.38 68.12 66.25 66.25 65.62 64.38 63.75 63.75 58.75 58.75 57.50 53.12 50.62 50.00 49.38 48.12 46.88 46.25 38.75 35.00 31.25	59.29 58.41 56.64 56.64 54.87 52.21 51.33 49.56 48.67 48.67 43.36 41.59 39.82 33.63 30.09 29.20 28.35 24.78 23.89 13.27

**SOURCE:** World Bank (2023). Women, Business and the Law 2023. Washington, DC: World Bank. (<a href="https://wbl.worldbank.org/en/wbl">https://wbl.worldbank.org/en/wbl</a>)
For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

# 2.2.5 Gender parity in high-skilled jobs

## Adjusted gender parity in high-skilled jobs $\mid$ 2022

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Eswatini		100.00	68	Lesotho		72.97
2	Greece		99.35	69	Guatemala		72.21
3	Norway		98.58	70	Kenya		72.12
4	Belgium		98.39	71	Estonia		71.69
5	Paraguay	0.98	98.15	72	Georgia	0.77	70.55
6	Germany	0.98	97.52	73	Azerbaijan	0.76	69.76
7	Chile	0.97	96.88	74	Dominican Republic	0.76	69.58
8	Denmark		96.57	75	Zambia		68.02
9	Ireland	0.97	96.06	76	Peru	0.75	67.97
10	Sweden	0.97	95.85	77	Rwanda	0.74	67.66
11	North Macedonia	0.96	95.37	78	Ukraine	0.74	67.47
12	Korea, Rep	0.96	95.05	79	Nigeria	0.74	66.58
13	Brazil	0.96	94.95	80	Malaysia	0.72	64.83
14	Ecuador	0.96	94.52	81	Morocco	0.72	64.56
15	France		94.49	82	Kyrgyzstan		63.97
16	Spain	0.95	94.26	83	Cambodia	0.71	63.19
17	Portugal		93.81	84	Sri Lanka	0.71	63.11
18	Finland	0.95	93.63	85	Kazakhstan	0.71	63.00
19	Bosnia and Herzegovina		92.52	86	Burkina Faso		62.51
20	United States of America		92.12	87	Latvia	0.70	62.35
21	Nicaragua		91.44	88	Lithuania	0.70	61.73
22	Israel		90.47	89	Malta	0.70	61.62
23	Austria		90.14	90	Kuwait		61.60
24	Cabo Verde		89.98	91	Zimbabwe		61.49
25	Luxembourg		89.74	92	Russian Federation		60.99
26	Argentina		89.59	93	Algeria		60.68
27	Cyprus		89.45	94	Panama		59.72
28	Colombia		88.72	95	Mongolia		57.14
29	Slovenia		88.51	96	Jamaica		56.85
30	Croatia		88.22	97	Burundi		56.76
31	Serbia		88.14	98	Cameroon		56.48
32	Netherlands		87.80	99	Moldova, Rep		54.09
33	Costa Rica		87.71	100	Jordan		51.40
34	Namibia		87.70	101	El Salvador		49.41
35	Mexico		87.34	102	Uganda		47.31
36	Iceland		86.93	103	Ghana		46.40
37	Uruguay		86.17	104	Türkiye		46.24
38	Indonesia		85.24	105	Nepal		42.68
39	United Kingdom		84.65	106	Belarus		41.70
40	Viet Nam		84.63	107	Tunisia		39.64
41	Mauritius		84.09	108	Mozambigue		38.77
42	Montenegro		84.06	109	Ethiopia		36.31
43	Thailand		83.87	110	Congo, Dem. Rep.		36.31
44	Brunei Darussalam		83.85	111	Malawi		34.01
45	Canada		83.62	112	Iran, Islamic Rep		31.84
46	Slovakia	0.87	83.37	113	Egypt		31.16
47	Australia	0.86	82.90	114	Tanzania, United Rep		30.11
48	Honduras	0.86	82.41	115	Guinea		24.24
49	Switzerland		82.23	116	Bahrain		23.89
50	Lebanon	0.85	80.64	117	Oman		23.19
51	Albania	0.84	80.03	118	Senegal	0.39	22.64
52	Singapore	0.84	79.66	119	United Arab Emirates	0.38	22.07
53	South Africa	0.84	79.50	120	Angola	0.38	21.53
54	Armenia	0.83	79.03	121	Bangladesh	0.35	17.71
55	Czech Republic	0.83	78.76	122	India	0.34	16.21
56	Romania		78.71	123	Côte d'Ivoire	0.31	13.05
57	Hungary	0.83	78.19	124	Gambia	0.29	9.68
58	Lao PDR		77.93	125	Pakistan		8.76
59	Trinidad and Tobago		77.59	126	Mali		6.02
60	Poland		75.87	127	Benin		2.66
61	Bolivia, Plurinational St		75.14	128	Qatar		2.42
62	Botswana		75.04	129	Chad		0.00
63	ltaly		74.75	-	China		n/a
64	Bulgaria		74.62		Mauritania		n/a
65	Madagascar		73.92		New Zealand		n/a
66	Philippines		73.74		Saudi Arabia	n/a	n/a
67	Japan		72.97		Uzbekistan		n/a

**SOURCE:** International Labour Organization, ILOSTAT (<a href="https://ilostat.ilo.org/">https://ilostat.ilo.org/</a>)

## 2.2.6 Leadership opportunities for women

Average answer to the question: In your country, to what extent do companies provide women with the same opportunities as men to rise to positions of leadership? [1 = not at all; 7 = to a great extent] | 2022

Rank	Country	Value	Score	Rank	Country	Value Sco
1	Albania	6.43	100.00	68	Trinidad and Tobago	4.77 48.
2	Finland	6.16	91.79	69	Burundi	4.73 47.
3	Lithuania	6.09	89.62	70	Uganda	4.71 47
4	Iceland	6.07	89.01	71	Malta	
5	Denmark	5.93	84.64	72	Sri Lanka	4.71 47.
6	Estonia	5.87	82.77	73	Slovakia	4.69 46
7	Singapore	5.74	78.69	74	Mongolia	
8	Norway		77.23	75	Hungary	
9	Moldova, Rep.		76.48	76	Guatemala	
10	Rwanda		75.81	77	Cyprus	
11	Egypt		75.41	78	Greece	
12	United Arab Emirates		75.11	79	Panama	
13	New Zealand		75.05	80	Colombia	
14	Philippines		74.58	81	Namibia	
15	Bahrain		71.56	82	Tunisia	
16	Switzerland		70.36	83	Lao PDR	
17	Slovenia		70.28	84	Korea, Rep	
18	Ireland		69.52	85	Argentina	
19	Czech Republic		69.29	86	South Africa	
20	Saudi Arabia		68.53	87	Ecuador	
21	Luxembourg		68.19	88	Honduras	
	3				Mauritius	
22 23	Thailand		67.34 67.33	89 90		
	Latvia				Montenegro	
24	Georgia		66.62	91	Guinea	
25	Sweden		66.30	92	Pakistan	
26	Malaysia		65.41	93	Jamaica	
27	United States of America		64.64	94	Kenya	
28	Qatar		63.90	95	Poland	
29	Netherlands		63.80	96	Botswana	
30	Oman		63.76	97	Peru	
31	Australia		62.14	98	Kuwait	
32	Jordan		61.94	99	Madagascar	
33	Russian Federation		60.82	100	Brazil	
34	Israel		60.79	101	Malawi	
35	Cambodia		59.52	102	Italy	
36	United Kingdom	5.10	59.16	103	Morocco	4.38 36.
37	China	5.09	58.61	104	Nigeria	
38	Armenia	5.09	58.60	105	Côte d'Ivoire	4.32 35
39	Austria	5.07	58.18	106	Senegal	4.31 34
40	Uzbekistan	5.06	57.73	107	Zimbabwe	4.28 33
41	Algeria	5.05	57.58	108	Cabo Verde	4.23 32
42	Romania	5.03	56.83	109	Cameroon	4.22 31
43	Indonesia	5.02	56.42	110	Lebanon	4.17 30
44	Gambia	5.01	56.12	111	Mali	4.16 30.
45	Belgium	5.00	55.92	112	Nicaragua	4.16 30.
46	Portugal	4.98	55.42	113	Japan	4.13 29.
47	Canada	4.97	55.12	114	Bangladesh	4.12 28
48	Azerbaijan	4.97	54.96	115	Nepal	4.11 28.
49	Ukraine	4.94	54.19	116	Paraguay	
50	Bulgaria		54.06	117	Eswatini	
51	Kazakhstan		54.01	118	Türkiye	
52	Dominican Republic		53.86	119	El Salvador	
53	Kyrgyzstan		53.66	120	Mexico	
54	Spain		53.55	121	Mozambique	
55	France		53.28	122	Bosnia and Herzegovina	
56	Brunei Darussalam		53.26	123	Angola	
57	Serbia		53.24	123	North Macedonia	
58	Viet Nam		52.20	125	India	
59	Zambia		51.84	125	Chad	
				120		
60	Belarus		51.65		Congo, Dem. Rep	
61	Tanzania, United Rep		51.14	128	Bolivia, Plurinational St	
62	Chile		50.75	129	Croatia	
63	Costa Rica		50.57	130	Burkina Faso	
64	Uruguay		50.29	131	Lesotho	
65	Germany		49.64	132	Mauritania	
66	Benin		49.50	133	Ethiopia	
67	Ghana	4.70	49.19	134	Iran, Islamic Rep	3.18 0.

**SOURCE:** World Economic Forum, Executive Opinion Survey 2021–2022 (<a href="https://www.weforum.org/publications">https://www.weforum.org/publications</a>)

# Pillar 3 Grow

## 3.1.1 Vocational enrolment

#### Vocational enrolment (%) | 2022

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Bolivia, Plurinational St		100.00	68	Algeria	10.14	15.50
2	Gambia	47.01	72.79	69	Kazakhstan		15.05
3	Finland	43.20	66.86	70	Mongolia	9.81	14.98
4	Slovenia	42.64	65.99	71	Armenia	9.41	14.36
5	Belgium	41.77	64.63	72	Tunisia	9.07	13.83
6	Netherlands	38.71	59.89	73	Burundi	8.93	13.61
7	Bosnia and Herzegovina	37.50	58.01	74	Korea, Rep	8.64	13.16
8	Croatia	37.38	57.82	75	Philippines	8.59	13.09
9	Honduras	36.80	56.92	76	Cyprus	8.32	12.67
10	Switzerland	36.04	55.73	77	Colombia	8.15	12.40
11	Serbia	35.93	55.57	78	Albania	8.06	12.26
12	Austria	34.85	53.89	79	Kyrgyzstan	8.02	12.19
13	Uzbekistan	34.21	52.90	80	Lithuania	7.67	11.65
14	Czech Republic	33.64	52.00	81	Mauritius	7.46	11.33
15	Luxembourg	32.86	50.80	82	Ethiopia	7.00	10.62
16	Montenegro	32.63	50.43	83	Bahrain	6.68	10.12
17	Italy	32.38	50.05	84	Guinea	6.52	9.87
18	Bulgaria	31.27	48.32	85	Ukraine	6.47	9.79
19	Australia	29.17	45.07	86	Mozambique	6.37	9.64
20	Guatemala	29.00	44.79	87	Morocco	5.91	8.92
21	Slovakia	28.75	44.42	88	Senegal		8.62
22	Norway	28.72	44.36	89	South Africa		8.47
23	North Macedonia		44.24	90	Bangladesh	5.20	7.81
24	Romania	28.24	43.62	91	Côte d'Ivoire		7.47
25	United Kingdom	28.24	43.62	92	Malaysia	4.79	7.18
26	Mexico		41.29	93	Brazil		6.74
27	Uruguay		40.87	94	Canada		6.65
28	Poland		39.43	95	Uganda		6.64
29	Costa Rica		39.36	96	Benin		6.46
30	Hungary		39.07	97	Eswatini		5.80
31	Portugal		35.04	98	Sri Lanka		5.77
32	Estonia		34.18	99	India		5.11
33	Egypt		33.95	100	Georgia		4.99
34	Denmark		31.84	101	Lesotho		4.83
35	Sweden		31.81	102	Pakistan		4.62
36	Israel		30.99	103	Burkina Faso		4.60
37	Latvia		30.82	104	Jordan		4.23
38	Indonesia		30.35	105	Ghana		4.20
39	Türkiye		30.15	106	Madagascar		3.84
40	Cameroon		29.98	107	Kuwait		3.48
41	Germany		29.98	108	Mauritania		3.18
42	Spain		29.50	109	Cabo Verde		3.09
43	Congo, Dem. Rep.		29.04	110	Peru		2.96
44	Panama		28.35	111	United Arab Emirates		2.22
45	China		28.17	112	Cambodia		2.03
46	Iceland		27.75	113	Qatar		1.98
47	France		26.61	114	Chad		1.79
48	Greece		26.08	115	Lao PDR		1.47
49	New Zealand		25.94	116	Nepal		1.45
50	El Salvador		24.88	117	Mali		0.62
51	Malta		24.86	118	Saudi Arabia		0.59
52	Lebanon		24.34	119	Tanzania, United Rep		0.52
53	Iran, Islamic Rep		24.03	120	Oman		0.00
54	Ireland		23.55		Argentina		n/a
55	Ecuador		22.32		Botswana		n/a
56	Russian Federation		22.27		Jamaica		n/a
57	Paraguay		21.96		Kenya		n/a
58 50	Angola		21.71		Malawi		n/a
59 60	Thailand		20.94		Namibia		n/a
60 61	Moldova, Republic		20.34		Nicaria		n/a
61 62	Dominican Republic		19.67		Nigeria		n/a
62 63	Rwanda		19.57		Singapore		n/a
63 64	Belarus		18.61 18.17		Trinidad and TobagoUnited States of America		n/a n/a
65	Brunei Darussalam		17.39		Viet Nam		n/a n/a
	Japan						
66 67	Chile		16.53		Zambia		n/a
67	Azerbaijan	10.09	16.35		Zimbabwe	1/a	n/a

**SOURCE:** UNESCO Institute for Statistics, UIS.Stat (<a href="http://data.uis.unesco.org/">http://data.uis.unesco.org/</a>)

# 3.1.2 Tertiary enrolment

## Tertiary enrolment (%) | 2022

	Country	Value	Score	Rank	Country	Value Sc
1	Greece		100.00	68	Oman	
2	Türkiye		77.41	69	Mauritius	
3	Australia		75.45	70	Mexico	
4	Korea, Rep		67.61	71	Panama	
5	Argentina		65.40	72	Thailand	
6	Spain		63.26	73	Morocco	
7	Finland		62.65	74	North Macedonia	
8	Latvia		62.29	75	Egypt	
9	Singapore		61.37	76	Malaysia	
10	Cyprus		61.23	77	Bosnia and Herzegovina	
11	Netherlands		60.62	78	Azerbaijan	
12	Chile		60.39	79	Tunisia	
13	United States of America	87.57	57.64	80	Indonesia	
14	Austria		57.40	81	Philippines	
15	Russian Federation	86.40	56.86	82	Viet Nam	
16	Sweden	84.52	55.60	83	Jordan	34.10 21
17	Norway	84.44	55.55	84	India	32.07 20
18	Iceland	84.27	55.44	85	Brunei Darussalam	31.99 20
19	Denmark	82.84	54.48	86	El Salvador	29.92 19
20	Ukraine	82.67	54.37	87	Namibia	27.26 17
21	Belarus	82.24	54.08	88	Jamaica	27.13 17
22	Belgium	80.89	53.17	89	Honduras	25.46 16
23	Slovenia	79.92	52.53	90	Bangladesh	25.10 15
24	New Zealand	79.91	52.52	91	Qatar	25.04 15
25	Canada	79.52	52.25	92	Botswana	24.73 15
26	Bulgaria	75.41	49.50	93	South Africa	24.24 15
27	Ireland	74.68	49.02	94	Cabo Verde	23.62 14
28	Germany	72.99	47.89	95	Sri Lanka	22.17 13
29	Georgia		47.59	96	Guatemala	
30	Malta		46.89	97	Uzbekistan	
31	Saudi Arabia	71.41	46.83	98	Ghana	19.54 12
32	Lithuania		46.41	99	Luxembourg	
33	Peru		46.38	100	Nicaragua	
34	Kazakhstan		46.34	101	Nepal	
35	Poland		46.21	102	Senegal	
36	Portugal		46.14	103	Cameroon	
37	United Kingdom		45.54	104	Cambodia	
38	Italy		45.53	105	Lao PDR	
39	Mongolia		45.50	106	Pakistan	
40	France		45.45	107	Nigeria	
41	Serbia		45.34	108	Benin	
42	Estonia		45.25	109	Angola	
43	Croatia		44.61	110	Ethiopia	
44	Czech Republic		44.59	111	Lesotho	
45	Uruguay		44.47	112	Kenya	
46	Switzerland		42.77	113	Côte d'Ivoire	
47	Japan		42.73	114	Burkina Faso	
48	Bahrain		42.73	115	Zimbabwe	
49	China		41.61	116	Tanzania, United Rep.	
50	Moldova, Rep.		41.00	117	Mozambique	
51	Israel		39.91	118	Rwanda	
52	Dominican Republic		39.14	119	Congo, Dem. Rep	
53	Kuwait		38.40	120	Eswatini	
54	Iran, Islamic Rep		38.01	121	Guinea	
55	Costa Rica		37.64	122	Burundi	
56	Colombia		37.26	123	Mauritania	
57	Albania		37.00	124	Madagascar	
58	Montenegro		36.28	125	Uganda	
59	Armenia		36.13	126	Mali	
60	United Arab Emirates		36.05	127	Zambia	
61	Hungary		35.96	128	Chad	
62	Brazil		35.57	129	Malawi	
63	Algeria		35.01	130	Gambia	
64	Kyrgyzstan		34.82	131	Paraguay	
65	Romania		34.67		Bolivia, Plurinational St	
66	Ecuador	52.59	34.24		Lebanon	
67	Slovakia	47.62	30.92		Trinidad and Tobago	n/a

**SOURCE:** UNESCO Institute for Statistics, UIS.Stat (<a href="http://data.uis.unesco.org/">http://data.uis.unesco.org/</a>)

# 3.1.3 Tertiary education expenditure

#### Initial government funding per tertiary student (constant PPP\$) $\mid$ 2021

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Luxembourg	10.77	100.00	68	India		55.72
2	Denmark		90.47	69	Lebanon		55.66
3	Switzerland		89.98	70	Jamaica		55.44
4	Norway		89.28	71	Burundi		55.17
5	Singapore	10.01	87.28	72	Colombia	8.06	54.69
6	Austria	9.98	86.90	73	Mauritania	8.05	54.65
7	Brunei Darussalam	9.95	86.29	74	Iran, Islamic Rep	8.05	54.55
8	Malta	9.93	86.06	75	Pakistan	7.96	53.02
9	Sweden	9.93	85.96	76	Argentina		52.60
10	Netherlands	9.86	84.89	77	Greece		52.59
11	Belgium	9.85	84.76	78	Thailand		52.56
12	Germany		84.29	79	Kenya	7.87	51.50
13	United Kingdom		83.66	80	Ghana	7.82	50.68
14	Ireland		81.74	81	Cabo Verde		50.41
15	France		80.59	82	Ecuador		50.02
16	Finland	9.58	80.25	83	Kazakhstan		47.76
17	United Arab Emirates		79.92	84	Honduras		47.33
18	United States of America	9.56	79.90	85	Indonesia	7.59	46.85
19	Costa Rica		79.83	86	Albania		46.83
20	Iceland		79.60	87	Viet Nam		45.65
21	Oman		79.33	88	Mauritius		45.10
22	Canada		79.17	89	Rwanda		44.68
23	Czech Republic		79.09	90	Guinea		44.34
24	New Zealand		77.26	91	Benin		41.09
25	Slovenia		75.64	92	Guatemala		40.81
26	Italy		75.05	93	Mozambique		40.78
27	Eswatini		75.02	94	Uzbekistan		40.62
28	Estonia		74.65	95	Madagascar		38.19
29	Bahrain		74.65	96	Peru		38.09
30	Poland		74.20	97	Gambia		37.94
31	Romania		73.40	98	Lesotho		37.62
32	Slovakia		73.25	99	Uganda		37.31
33	Spain		72.00	100	Armenia		36.84
34	Hungary		71.74	100	Lao PDR		36.68
35	Japan		71.74	101	El Salvador		31.58
36	Namibia		71.02	102	Georgia		30.71
37	South Africa		70.83	103	Croatia		30.08
38	Australia		70.63 70.68	104	Bangladesh		29.35
39	Portugal		69.67	105	Jordan		24.72
40	3		69.49	100			23.57
41	Türkiye		68.67	107	Congo, Dem. Rep		22.33
42	Israel Lithuania		66.83	109	Nepal		20.28
43	Cyprus		66.22	110	Kyrgyzstan		12.98
44	Korea, Rep		66.14	111	Mongolia		0.00
44	Burkina Faso		65.45	111	Algeria		0.00 n/a
46			65.02		Angola		n/a
47	Bulgaria		64.90		=		n/a
48	Tunisia Chile		64.24		Bolivia, Plurinational St		n/a
49			63.55		Botswana Cambodia		n/a
	Uruguay Serbia		63.45		Chad		
50 51	Russian Federation				China		n/a n/a
	Latvia		63.43				
52			62.07		Dominican Republic		n/a
53	Azerbaijan		61.62		Egypt		n/a
54	Panama		61.52		Kuwait		n/a
55	Brazil		61.29		Malawi		n/a
56	Bosnia and Herzegovina		60.97		Montenegro		n/a
57	Mexico		60.91		Morocco		n/a
58	Senegal		60.78		Nicaragua		n/a
59 60	Ukraine		60.45		Nigeria		n/a
60	Côte d'Ivoire		59.89		North Macedonia		n/a
61	Malaysia		59.89		Paraguay		n/a
62	Belarus		59.21		Philippines		n/a
63	Ethiopia		58.86		Qatar		n/a
64	Zimbabwe		57.78		Saudi Arabia		n/a
65	Moldova, Rep.		57.01		Tanzania, United Rep		n/a
66	Sri Lanka		56.90		Trinidad and Tobago		n/a
67	Mali	8.15	56.32		Zambia	n/a	n/a

**SOURCE:** UNESCO Institute for Statistics, UIS.Stat (<a href="http://data.uis.unesco.org/">http://data.uis.unesco.org/</a>)

# 3.1.4 Reading, maths, and science

#### PISA average scores in reading, mathematics, and science $\mid$ 2018

Rank	Country	Value	Score	Rank	Country	Value	Score
1	China	579.03	100.00	68	Argentina	395.01	24.86
2	Singapore	556.47	90.79	69	Georgia	386.67	21.46
3	Estonia	525.51	78.15	70	Saudi Arabia	386.21	21.27
4	Japan	519.99	75.89	71	Indonesia	381.90	19.51
5	Korea, Rep	519.66	75.76	72	Lebanon	376.84	17.44
6	Canada	516.70	74.55	73	Tunisia	371.43	15.23
7	Finland	516.42	74.44	74	Morocco	367.90	13.80
8	Poland	512.85	72.98	75	Panama	364.81	12.53
9	Ireland	504.61	69.61	76	Algeria	361.74	11.28
10	Slovenia	503.75	69.26	77	Philippines	349.73	6.37
11	United Kingdom	503.46	69.14	78	Dominican Republic	334.12	0.00
12	New Zealand	502.90	68.92		Angola	n/a	n/a
13	Sweden	502.54	68.77		Armenia	n/a	n/a
14	Netherlands	502.47	68.74		Bahrain	n/a	n/a
15	Viet Nam	501.98	68.54		Bangladesh	n/a	n/a
16	Denmark	501.06	68.16		Benin	n/a	n/a
17	Germany	500.44	67.91		Bolivia, Plurinational St	n/a	n/a
18	Belgium	499.90	67.69		Botswana	n/a	n/a
19	Australia	498.99	67.32		Burkina Faso	n/a	n/a
20	Switzerland	498.17	66.99		Burundi	n/a	n/a
21	Norway	496.94	66.48		Cabo Verde	n/a	n/a
22	Czech Republic	495.49	65.89		Cambodia	n/a	n/a
23	United States of America	495.33	65.82		Cameroon	n/a	n/a
24	France	493.66	65.14		Chad	n/a	n/a
25	Portugal	491.99	64.46		Congo, Dem. Rep	n/a	n/a
26	Spain	491.40	64.22		Côte d'Ivoire	n/a	n/a
27	Austria	491.04	64.07		Ecuador	n/a	n/a
28	Latvia	487.36	62.57		Egypt	n/a	n/a
29	Iceland	481.40	60.14		El Salvador	n/a	n/a
30	Russian Federation	481.34	60.11		Eswatini	n/a	n/a
31	Lithuania	479.71	59.45		Ethiopia	n/a	n/a
32	Hungary	479.33	59.29		Gambia	n/a	n/a
33	Italy	476.96	58.33		Ghana	n/a	n/a
34	Luxembourg	476.73	58.23		Guatemala	n/a	n/a
35	Belarus	472.31	56.42		Guinea	n/a	n/a
36	Croatia	471.85	56.24		Honduras	n/a	n/a
37	Slovakia	469.40	55.24		India	n/a	n/a
38	Israel	465.22	53.53		Iran, Islamic Rep	n/a	n/a
39	Ukraine	462.69	52.50		Jamaica	n/a	n/a
40	Türkiye	462.48	52.41		Kenya	n/a	n/a
41	Malta	458.85	50.93		Kuwait	n/a	n/a
42	Greece	453.47	48.73		Kyrgyzstan	n/a	n/a
43	Serbia	442.54	44.27		Lao PDR		n/a
44	Cyprus		42.42		Lesotho		n/a
45	Chile	437.75	42.32		Madagascar		n/a
46	United Arab Emirates		40.56		Malawi		n/a
47	Malaysia		39.53		Mali		n/a
48	Romania		38.25		Mauritania		n/a
49	Bulgaria		37.78		Mauritius		n/a
50	Moldova, Rep		36.85		Mongolia		n/a
51	Uruguay		36.51		Mozambique		n/a
52	Brunei Darussalam		36.31		Namibia		n/a
53	Trinidad and Tobago		36.31		Nepal		n/a
54	Montenegro		35.86		Nicaragua	n/a	n/a
55	Albania	419.79	34.98		Nigeria	n/a	n/a
56	Mexico		33.50		Oman		n/a
57	Jordan		33.44		Pakistan		n/a
58	Costa Rica		32.95		Paraguay		n/a
59	Qatar		32.41		Rwanda		n/a
60	Thailand		31.97		Senegal		n/a
61	Colombia		29.15		South Africa		n/a
62	Bosnia and Herzegovina		27.97		Sri Lanka		n/a
63	Kazakhstan		27.87		Tanzania, United Rep		n/a
64	Azerbaijan		27.81		Uganda		n/a
65	Peru		27.52		Uzbekistan		n/a
66	North Macedonia		26.92		Zambia		n/a
67	Brazil	400.02	26.91		Zimbabwe	n/a	n/a

**SOURCE:** OECD Programme for International Student Assessment (PISA) (<a href="https://www.oecd.org/pisa/">https://www.oecd.org/pisa/</a>)

## 3.1.5 University ranking

#### QS World University Ranking score | 2022

Rank	Country	Value	Score	Rank	Country	Value	Score
1	United States of America	.98.70	100.00	68	Viet Nam		12.36
2	United Kingdom	.98.10	99.39	69	Croatia	10.00	10.13
3	China	. 87.60	88.75	70	Paraguay	9.20	9.32
4	Switzerland	.82.20	83.28	71	Azerbaijan	8.90	9.02
5	Australia		82.17	72	Romania		8.71
6	Canada		81.16	73	Panama		8.00
7	Japan		80.75	74	Serbia		7.60
8	France		77.91	75	Sri Lanka		7.29
9	Korea, Rep		77.41	76	Albania		0.00
10	Germany		72.85 68.59	76 76	Algeria		0.00
11 12	Singapore Netherlands		66.67	76 76	Angola Armenia		0.00
13	Malaysia		59.68	76	Benin		0.00
13	Sweden		59.68	76	Bolivia, Plurinational St		0.00
15	Denmark		57.65	76	Bosnia and Herzegovina		0.00
16	Belgium		54.61	76	Botswana		0.00
17	Finland		50.46	76	Burkina Faso		0.00
18	Italy		49.54	76	Burundi		0.00
19	Saudi Arabia		49.34	76	Cabo Verde		0.00
20	Russian Federation	.48.30	48.94	76	Cambodia	0.00	0.00
21	India	. 47.60	48.23	76	Cameroon	0.00	0.00
22	Ireland	. 47.30	47.92	76	Chad	0.00	0.00
23	New Zealand	. 47.20	47.82	76	Congo, Dem. Rep	0.00	0.00
24	Mexico	.44.50	45.09	76	Côte d'Ivoire	0.00	0.00
24	Spain		45.09	76	Cyprus		0.00
26	Austria		44.68	76	Dominican Republic		0.00
26	Norway		44.68	76	El Salvador		0.00
28	Argentina		44.38	76	Eswatini		0.00
29	Brazil		44.17	76	Ethiopia		0.00
30	Chile		43.16	76	Gambia		0.00
30	Qatar		43.16	76	Georgia		0.00
32	Indonesia		40.02	76 76	Ghana		0.00
33 34	Kazakhstan United Arab Emirates		39.11 37.49	76 76	GuatemalaGuinea		0.00
35	Colombia		37.49	76	Honduras		0.00
36	Israel		36.27	76	Iceland		0.00
37	Brunei Darussalam		35.36	76	Jamaica		0.00
38	Thailand		33.54	76	Kenya		0.00
39	Portugal		33.43	76	Kyrgyzstan		0.00
40	Czech Republic		32.52	76	Lao PDR		0.00
41	Poland		32.12	76	Lesotho		0.00
42	South Africa	.31.40	31.81	76	Luxembourg		0.00
43	Pakistan	.30.40	30.80	76	Madagascar	0.00	0.00
44	Oman	.29.30	29.69	76	Malawi	0.00	0.00
45	Lebanon	. 28.10	28.47	76	Mali	0.00	0.00
46	Iran, Islamic Rep		27.05	76	Malta		0.00
47	Uruguay		25.63	76	Mauritania		0.00
48	Türkiye		24.42	76	Mauritius		0.00
49		.22.90	23.20	76	Moldova, Rep.		0.00
50	Bulgaria		22.19	76	Mongolia		0.00
51	Egypt		21.58	76	Montenegro		0.00
52 52	Estonia		21.07	76 76	Morocco		0.00
54	PeruPhilippines		21.07 20.36	76 76	Mozambique Namibia		0.00
55	Belarus		20.26	76	Nepal		0.00
55	Lithuania		20.26	76	Nicaragua		0.00
57	Ukraine		20.16	76	Nigeria		0.00
58	Hungary		19.66	76	North Macedonia		0.00
59	Bahrain		18.03	76	Rwanda		0.00
60	Slovakia		16.82	76	Senegal		0.00
61	Jordan		16.31	76	Tanzania, United Rep		0.00
62	Costa Rica		15.50	76	Trinidad and Tobago		0.00
63	Kuwait		13.58	76	Tunisia		0.00
63	Slovenia	.13.40	13.58	76	Uganda	0.00	0.00
65	Bangladesh	13.10	13.27	76	Uzbekistan	0.00	0.00
66	Ecuador	.13.00	13.17	76	Zambia		0.00
66	Latvia	.13.00	13.17	76	Zimbabwe	0.00	0.00

**SOURCE:** Quacquarelli Symonds Ltd (QS), QS World University Ranking 2023, Top Universities (<a href="https://www.topuniversities.com/qs-world-university-rankings">https://www.topuniversities.com/qs-world-university-rankings</a>) For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

## 3.2.1 Business masters education

#### QS Global MBA and Business Masters Rankings scores | 2022

Rank	Country	Value	Score	Rank	Country	Value S
1	France		100.00	57	Brunei Darussalam	
2	United States of America		99.70	57	Bulgaria	
3	United Kingdom		98.44	57	Burkina Faso	
4 5	Spainltaly		94.85 84.73	57 57	Burundi Cabo Verde	
6	Netherlands		80.76	57	Cambodia	
7	Australia		79.37	57	Cameroon	
8	Canada		73.86	57	Chad	
9	Switzerland		71.11	57	Congo, Dem. Rep	
10	Singapore		69.75	57	Côte d'Ivoire	
11	Germany		67.84	57	Cyprus	
12	China	61.41	66.85	57	Dominican Republic	0.00
13	Ireland	60.91	66.31	57	Ecuador	
14	Denmark		64.59	57	El Salvador	
15	Belgium		62.21	57	Estonia	
16	India		60.71	57	Eswatini	
17	Poland		60.61	57	Ethiopia	
18	Portugal		57.56	57	Gambia	
19	Greece		51.87	57	Georgia	
20 21	MexicoUnited Arab Emirates		50.40 48.93	57 57	GhanaGuatemala	
22	Peru		46.99	57	Guinea	
23	Russian Federation		46.18	57	Honduras	
24	Thailand		45.51	57	Hungary	
25	Lebanon		44.95	57	Iceland	
26	Japan		40.54	57	Iran, Islamic Rep	
27	Türkiye		40.26	57	Israel	
28	Egypt	35.63	38.79	57	Jamaica	0.00
29	Saudi Arabia	34.55	37.61	57	Kenya	0.00
30	South Africa	33.40	36.35	57	Kuwait	0.00
31	Austria		35.16	57	Kyrgyzstan	
32	Philippines		33.98	57	Lao PDR	
33	Norway		31.77	57	Latvia	
34	Costa Rica		31.57	57	Lesotho	
35	Qatar		30.59	57	Luxembourg	
36 37	Colombia		29.18 28.96	57 57	Madagascar Malawi	
38	New Zealand Korea, Rep		28.05	57	Mali	
39	Argentina		25.16	57	Malta	
40	Chile		25.09	57	Mauritania	
41	Bahrain		24.29	57	Mauritius	
42	Pakistan		23.56	57	Moldova, Rep.	
43	Malaysia	21.57	23.48	57	Mongolia	0.00
44	Croatia	21.50	23.40	57	Montenegro	0.00
45	Indonesia	19.76	21.51	57	Mozambique	0.00
46	Kazakhstan	19.53	21.26	57	Namibia	0.00
47	Tunisia		19.52	57	Nepal	
48	Nigeria		18.49	57	Nicaragua	
49	Jordan		17.31	57	North Macedonia	
50	Uruguay		15.71	57	Oman	
51	Lithuania		14.82	57	Panama	
52 53	Sweden		13.70 13.24	57 57	Paraguay Romania	
54	Morocco		10.44	57 57	Rwanda	
55	Finland		7.18	57	Senegal	
56	Brazil		5.10	57	Serbia	
57	Albania		0.00	57	Slovakia	
57	Algeria		0.00	57	Slovenia	
57	Angola		0.00	57	Sri Lanka	
57	Armenia		0.00	57	Tanzania, United Rep	
57	Azerbaijan		0.00	57	Trinidad and Tobago	
57	Bangladesh	0.00	0.00	57	Uganda	0.00
57	Belarus		0.00	57	Ukraine	0.00
57	Benin		0.00	57	Uzbekistan	
	Bolivia, Plurinational St		0.00	57	Viet Nam	0.00
57 57	Bosnia and Herzegovina		0.00	57	Zambia	0.00

SOURCE: Own computation based on Quacquarelli Symonds Ltd (QS) (2022). QS Higher Ed Report: Global MBA and Business Masters 2023 (https://www.topmba.com/) For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

# 3.2.2 Prevalence of training in firms

#### Proportion of firms offering formal training (%) $\mid$ 2022

	Country	Value	Score	Rank	· · · · · · · · · · · · · · · · · · ·	Value	Scor
1	China		100.00	68	Ukraine		27.0
2	Ecuador		92.70	69	Malaysia		26.6
3	France		84.99	70	Dominican Republic		25.9
4	Mongolia		82.74	71	Chad		25.2
5	Luxembourg		82.60	72	Cambodia		24.3
6	Peru		82.34	72	Viet Nam		24.3
7	Colombia		78.49	74	Kazakhstan		23.7
8	Sweden		77.03	75	Poland		23.6
9	Ireland		74.24	76	Greece		23.5
9	Philippines Belgium		74.24 71.58	77 77	Ethiopia Lebanon		22.4 22.4
11	Nicaragua		71.36 70.92	77			22.4
12 13	Guatemala		68.79	80	Mozambique Romania		22.0
14	Spain		68.13	81	Benin		21.3
15	Netherlands		66.67	81	Bulgaria		21.3
16	El Salvador		66.27	83	Tunisia		20.1
17	Uruquay		65.60	84	Israel		19.5
18	Latvia		65.07	85	Thailand		18.7
19	Mauritania		64.81	86	Mali		18.3
20			61.49				17.9
21	Finland Bolivia, Plurinational St		61.09	87 88	Senegal Congo, Dem. Rep.		17.9
21	Malta		61.09	89	=		17.4
21 23	Honduras		58.17	89 89	Jordan Uzbekistan		17.2
23 24	Paraguay		56.44	91	Guinea		16.0
24 25	Albania		56.18	91	Montenegro		15.8
25 26	Germany		53.39	93	Italy		11.5
27	Slovenia		53.25	93	Russian Federation		10.4
28	Czech Republic		52.72	95	Madagascar		8.7
29	Slovakia		52.72	96	Egypt		5.3
30	Austria		51.39	96	South Africa		5.3
31	Kyrgyzstan		49.80	98	India		5.0
32	Estonia		48.87	98	Indonesia		5.0
33	Denmark		48.74	100	Bangladesh		3.3
34	Argentina		48.21	100	Pakistan		2.6
35	Ghana		48.07	101	Saudi Arabia		0.0
36	Cyprus		47.54	102	Algeria		n/
37	North Macedonia		46.61		Angola		n/
38	Serbia		45.68		Australia		n/
39	Moldova, Rep.		45.42		Bahrain		n/
40	Bosnia and Herzegovina		45.42		Botswana		n/
41	_		44.75		Brazil		n/
42	Cameroon Kenya		44.73		Brunei Darussalam		n/
43	Zambia		43.43		Burkina Faso		n/
44	Eswatini		42.76		Cabo Verde		n/
45	Rwanda		42.70		Canada		n/
46	Morocco		42.23		Chile		n/
47	Côte d'Ivoire		41.97		Costa Rica		n/
48	Uganda		40.90		Iceland		n/
49	Azerbaijan		39.84		Iran, Islamic Rep		n/
50	Malawi		38.51		Jamaica		n/
51	Burundi		37.32		Japan		n/
51 51			37.32 37.32		•		
53	Georgia Nepal		37.32 37.18		Korea, Rep Kuwait		n/ n/
53 54	Belarus		36.65		Mauritius		n/
55	Lesotho		36.25		Mexico		n/
55 56					New Zealand		n/
56	Nigeria Tanzania, United Rep.		35.59 35.59		Norway		n/
56	Türkiye		35.59		Oman		n/
50 59			33.73		Panama		n/
59 60	Hungary		33.73		Qatar		n/
	3						n/
61	Armenia		31.34		Singapore		
61	Lithuania		31.34		Sri Lanka		n/
61 62			29.88		Switzerland	n/a	n/
63	Zimbabwe				Tripidad and Tobaca	~ /-	- 1
63 64	Croatia	26.20	29.61		Trinidad and Tobago		
63		26.20			Trinidad and Tobago United Arab Emirates United Kingdom	n/a	n/ n/ n/

**SOURCE:** World Bank, Enterprise Surveys (<a href="https://www.enterprisesurveys.org/en/enterprisesurveys">https://www.enterprisesurveys.org/en/enterprisesurveys</a>)
For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

## 3.2.3 Employee development

Average answer to the question: In your country, to what extent do companies invest in training and employee development? [1 = not at all; 7 = to a great extent] | 2022

Rank	Country	Value	Score	Rank	Country	Value Score
1	Albania	5.79	100.00	68	Mexico	4.11 50.94
2	Switzerland	5.78	99.70	69	Lao PDR	4.10 50.79
3	United States of America	5.72	97.99	70	Hungary	4.10 50.69
4	Finland	5.49	91.09	71	Cameroon	4.09 50.40
5	Denmark	5.39	88.31	72	Kenya	4.08 50.19
6	Austria	5.35	87.16	73	Armenia	4.06 49.65
7	Ireland	5.26	84.59	74	Poland	4.06 49.63
8	Netherlands	5.26	84.55	75	Eswatini	4.06 49.59
9	Sweden	5.25	84.11	76	Colombia	4.06 49.51
10	Singapore	5.23	83.58	77	Greece	4.06 49.48
11	Indonesia	5.22	83.22	78	Trinidad and Tobago	4.05 49.29
12	Lithuania	5.19	82.61	79	Romania	4.04 49.03
13	Germany	5.16	81.55	80	Jamaica	4.02 48.46
14	China	5.13	80.76	81	Belarus	4.02 48.44
15	Luxembourg	5.11	80.05	82	Nigeria	4.02 48.39
16	Norway	5.09	79.67	83	Tunisia	4.02 48.34
17	Canada	5.09	79.60	84	Argentina	4.02 48.31
18	Qatar	5.07	78.90	85	Spain	4.00 47.92
19	United Kingdom	5.04	78.21	86	Rwanda	3.96 46.77
20	Belgium	5.03	77.86	87	Zambia	3.95 46.46
21	France	5.00	76.94	88	Mongolia	3.95 46.42
22	United Arab Emirates	4.98	76.44	89	Tanzania, United Rep	3.93 45.90
23	Australia	4.98	76.30	90	Cambodia	3.92 45.59
24	Saudi Arabia	4.97	75.99	91	Russian Federation	3.92 45.56
25	Israel	4.90	74.06	92	Cabo Verde	3.87 44.17
26	Bahrain	4.88	73.52	93	Honduras	3.87 43.96
27	New Zealand	4.87	73.29	94	Serbia	3.86 43.74
28	Botswana	4.86	72.72	95	Gambia	3.86 43.73
29	Philippines	4.83	71.86	96	Zimbabwe	3.85 43.34
30	Estonia		71.13	97	Malawi	
31	Japan	4.79	70.81	98	Algeria	3.81 42.42
32	South Africa		69.84	99	Slovakia	
33	Azerbaijan		68.95	100	El Salvador	3.80 41.91
34	Iceland		68.94	101	Ecuador	
35	Pakistan		68.84	102	Panama	
36	Slovenia		68.66	103	Mali	
37	Jordan		67.57	104	Uganda	
38	Malaysia		66.81	105	Senegal	
39	Uzbekistan		66.58	106	Ukraine	
40	Viet Nam		66.19	107	Türkiye	
41	Egypt		65.69	108	Nepal	
42	Czech Republic		65.27	109	Ethiopia	
43	Sri Lanka		64.91	110	Peru	
44	Mauritius		64.48	111	Burundi	
45	ltaly		63.86	112	Lebanon	
46	Oman		63.04	113	Paraguay	
47	Costa Rica		62.55	114	Croatia	
48	Brunei Darussalam		61.96	115	Morocco	
49	Korea, Rep		61.37	116	Montenegro	
50	Malta		61.32	117	Madagascar	
51	Guatemala		60.14	118	India	
52	Portugal		59.78	119	North Macedonia	
53	Georgia		59.37	120	Kazakhstan	
54	Brazil		59.29	121	Chad	
55	Guinea		58.98	122	Bangladesh	
56	Cyprus		57.69	123	3	
57	/ 1		56.67	123	Congo, Dem. Rep Nicaragua	
58	Uruguay Namibia		55.49	124	Bolivia, Plurinational St	
59	Ghana				Bosnia and Herzegovina	
60			55.17 55.01	126 127	_	
	Latvia			127	Kyrgyzstan	
61 62	Chile		54.76 54.57	128	Angola	
62	Dominican Republic		54.57	129	Iran, Islamic Rep	
63	Bulgaria		53.97	130	Lesotho Mozambique	
64	Thailand		53.56	131		
65	Kuwait		52.65	132	Burkina Faso	
66	Moldova, Rep.		52.30	133	Benin	
67	Côte d'Ivoire	4.15	52.20	134	Mauritania	2.36 0.00

**SOURCE:** World Economic Forum, Executive Opinion Survey 2021–2022 (<a href="https://www.weforum.org/publications">https://www.weforum.org/publications</a>)

## **Delegation of authority**

Average answer to the question: In your country, to what extent does senior management delegate authority to subordinates? [1 = not at all; 7 = to a great extent] | 2022

Rank	Country	Value	Score	Rank	Country	Value Score
1	Denmark	6.04	100.00	68	Trinidad and Tobago	4.39 44.84
2	Norway	5.79	91.78	69	Cyprus	4.38 44.66
3	United States of America	5.72	89.38	70	Mauritius	4.38 44.53
4	Botswana	5.68	88.08	71	Thailand	4.38 44.47
5	Finland	5.67	87.57	72	Bulgaria	4.36 43.98
6	Netherlands	5.57	84.32	73	Belarus	4.36 43.89
7	Ireland	5.41	78.93	74	Uganda	4.34 43.23
8	Iceland	5.39	78.38	75	Greece	
9	Australia		78.11	76	Cambodia	
10	United Kingdom		77.41	77	Spain	
11	Indonesia		76.75	78	Pakistan	
12	Viet Nam		73.90	79	Slovakia	
13	New Zealand		73.03	80	Guinea	
14	Canada		72.40	81	Uruguay	
15	Switzerland		70.27	82	Cabo Verde	
16	United Arab Emirates		70.00	83	Malawi	
17	Lithuania		68.52	84	Portugal	
18	Estonia		67.26	85	Kuwait	
19	Israel		67.18	86	Romania	
20	Singapore		66.51	87	Guatemala	
21	Sweden		66.06	88	Mexico	
22			66.00	89	Panama	
23	Georgia		64.79	90		
	Albania				Lao PDR	
24	Saudi Arabia		63.75	91	Latvia	
25	Belgium		63.70	92	Peru	
26	Brunei Darussalam		63.34	93	Poland	
27	Qatar		63.21	94	Nepal	
28	Benin		63.16	95	Moldova, Rep	
29	Czech Republic		63.07	96	Bangladesh	
30	Jamaica		62.92	97	Kazakhstan	
31	China		62.47	98	Dominican Republic	
32	Bahrain		62.39	99	Argentina	
33	Malaysia		62.36	100	Burundi	
34	Uzbekistan	4.91	62.27	101	Côte d'Ivoire	
35	Austria	4.91	62.15	102	Kyrgyzstan	4.00 32.04
36	Germany	4.90	61.98	103	Ecuador	
37	Gambia	4.85	60.31	104	El Salvador	3.97 31.08
38	Oman	4.84	59.97	105	Madagascar	3.97 31.08
39	Philippines	4.81	58.94	106	Ukraine	3.97 31.01
40	Luxembourg	4.78	58.06	107	Honduras	3.96 30.55
41	France	4.78	58.02	108	Croatia	3.90 28.51
42	South Africa	4.77	57.79	109	Armenia	3.88 27.89
43	Namibia	4.69	55.04	110	Montenegro	3.84 26.45
44	Italy	4.69	55.04	111	Lebanon	3.81 25.75
45	Sri Lanka	4.68	54.76	112	Cameroon	3.73 23.05
46	Azerbaijan	4.65	53.49	113	Mongolia	3.72 22.58
47	Costa Rica	4.64	53.30	114	Nicaragua	3.71 22.13
48	Korea, Rep	4.64	53.24	115	Bosnia and Herzegovina	3.70 21.89
49	Kenya		52.71	116	North Macedonia	
50	Brazil		52.27	117	Tunisia	
51	Jordan		52.00	118	Senegal	
52	Egypt		51.48	119	India	
53	Zimbabwe		51.31	120	Algeria	
54	Malta		50.87	121	Türkiye	
55	Russian Federation		50.74	122	Mali	
56	Nigeria		50.67	123	Morocco	
57	Japan		50.32	124	Paraguay	
58	Slovenia		49.47	125	Bolivia, Plurinational St	
59	Hungary		48.73	126	Mozambique	
60	Tanzania, United Rep.		48.50	120	Congo, Dem. Rep.	
61	Ghana		48.15	127	= '	
					Mauritania	
62	Chile		48.03	129	Chad	
63	Chile		47.51	130	Iran, Islamic Rep	
64	Eswatini		47.35	131	Ethiopia	
65	Rwanda		47.22	132	Burkina Faso	
66	Serbia		47.19	133	Angola	
67	Zambia	4.42	45.89	134	Lesotho	3.04 0.00

**SOURCE:** World Economic Forum, Executive Opinion Survey 2021–2022 (<a href="https://www.weforum.org/publications">https://www.weforum.org/publications</a>)

## 3.3.2 Youth inclusion

#### Proportion of youth (aged 15–24 years) not in education, employment, or training (%) $\mid$ 2022

Rank	Country	Value	Score	Rank	Country	Value Scor	re
1	Japan	3.14	100.00	68	North Macedonia	18.45 62.6	50
2	Madagascar	3.79	98.41	69	Paraguay	18.59 62.2	26
3	Iceland	4.88	95.75	70	Brunei Darussalam	18.68 62.0	)4
4	Sweden	5.07	95.29	71	Saudi Arabia	19.22 60.7	72
5	Netherlands	5.11	95.19	72	Malawi	19.41 60.2	26
6	Cambodia	6.19	92.55	73	Kenya	19.67 59.6	52
7	Singapore	6.20	92.53	74	Italy	19.76 59.4	40
8	Norway	6.32	92.23	75	Korea, Rep	20.84 56.7	77
9	Slovenia	6.60	91.55	76	Algeria	20.95 56.5	50
10	Czech Republic	6.61	91.52	77	Brazil	20.97 56.4	45
11	Denmark	7.08	90.38	78	Montenegro	21.09 56.1	16
12	Belgium	7.42	89.55	79	Sri Lanka	21.51 55.1	13
13	Germany	7.52	89.30	80	Angola	21.69 54.6	59
14	Portugal	7.61	89.08	81	Côte d'Ivoire	21.92 54.1	13
15	Finland	7.65	88.98	82	Indonesia	22.34 53.1	10
16	Belarus	7.73	88.79	83	Peru	22.78 52.0	Э3
16	Ireland	7.73	88.79	84	Ghana	23.00 51.4	49
18	Latvia	8.63	86.59	85	El Salvador	23.46 50.3	37
19	Luxembourg	8.67	86.49	86	Armenia	23.49 50.2	29
20	Australia	8.94	85.83	87	Lebanon	23.52 50.2	22
21	Kazakhstan	9.49	84.49	88	Colombia	24.42 48.0	Э2
22	Switzerland	9.71	83.95	89	Nicaragua	24.49 47.8	35
23	United Kingdom	10.52	81.97	90	Türkiye	24.75 47.2	22
24	Hungary	10.61	81.75	91	Georgia	24.91 46.8	32
25	United Arab Emirates	10.72	81.49	92	Lao PDR	25.80 44.6	55
26	Estonia	10.92	81.00	93	Albania		50
27	Spain	10.97	80.87	94	Jamaica	26.05 44.0	)4
28	Bolivia, Plurinational St		80.85	95	Honduras		21
29	Slovakia		80.61	96	Dominican Republic		
30	Burundi		80.39	97	Bangladesh		
31	Poland		80.31	98	Iran, Islamic Rep		
32	United States of America		80.21	99	Cabo Verde		
33	Lithuania		80.02	100	India		
33	Viet Nam		80.02	101	Egypt		
35	France		79.68	102	Rwanda		
36	Canada		78.77	103	Gambia		
37	New Zealand		78.72	104	Guatemala		
38	Greece		78.24	105	Zimbabwe		
39	Austria		77.97	106	Mali		
40	Russian Federation		77.36	107	Zambia		
41	Croatia		76.67	108	Congo, Dem. Rep.		
42	Malta		74.69	109	Tunisia		
43	Malaysia		74.38	110	Namibia		
44	Cyprus		74.04	111	Mauritius		
45	Uganda		73.96	112	Jordan		
46	Bulgaria		73.42	113	South Africa		
47	Uruguay		72.84	114	Senegal		
48	Tanzania, United Rep.		72.62	115	Guinea		
49	Thailand		71.64	116	Pakistan		
50	Chile		71.59	117	Nepal		
51	Moldova, Rep.		71.13	118	Benin		
52	Trinidad and Tobago		69.91	119	Lesotho		
53	Kyrgyzstan		68.86	120	Eswatini		
54	Serbia		68.47	120	Nigeria		
55	Argentina		68.30	122	Botswana		
56	. 5		67.44	123	Chad		
57	Ukraine						
58	Israel		66.73 66.13	124 125	Burkina Faso		
58 59	Costa Rica		66.12 65.71	125	Mauritania		ло /а
59 59			65.71 65.71		Azerbaijan		
	Mongolia				Bahrain		
61 62	Mexico		65.36		China		
62	Philippines		65.00		Kuwait		
63	Ethiopia		64.85		Morocco		
64	Panama		64.78		Mozambique		
65 66	Bosnia and Herzegovina		64.63		Oman		/a
66 67	Ecuador		63.80		Qatar		/a
67	Romania	18.02	63.65		Uzbekistan	n/a N/	/a

**SOURCE:** International Labour Organization, ILOSTAT (<a href="https://ilostat.ilo.org/">https://ilostat.ilo.org/</a>)
For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

## 3.3.3 Use of virtual social networks

#### Social media users (%) | 2022

Rank	Country	Value	Score	Rank	Country	Value	Score
1	United Arab Emirates	. 105.50	100.00	68	Poland		61.87
2	Bahrain		93.39	69	Bulgaria		61.28
3	Qatar	96.80	91.54	70	Paraguay	65.60	61.19
4	Brunei Darussalam	94.40	89.20	71	Dominican Republic	65.50	61.09
5	Korea, Rep	92.00	86.87	71	Trinidad and Tobago	65.50	61.09
6	Lebanon		85.41	73	Cambodia		60.60
6	Oman		85.41	74	Panama		59.82
8	Netherlands		83.07	75	El Salvador		58.66
9	Cyprus		82.59	76	Luxembourg		57.78
10	Canada		80.74	77	Bolivia, Plurinational St		56.71
11	Spain		80.64	78	Kazakhstan		56.52
12	Germany		80.16	79	Indonesia		56.13
13	Norway		79.77 79.77	80	Jordan		54.18
13 15	SingaporeChile		79.77 79.47	80 82	Tunisia North Macedonia		54.18 53.31
15	United Kingdom		79.47	83	Morocco		52.43
17	Denmark		78.89	84	Albania		52.43
18	Kuwait		78.79	85	Bosnia and Herzegovina		51.75
19	Finland		78.40	86	Iran, Islamic Rep		49.90
20	Switzerland		78.21	87	Algeria		48.83
21	Iceland		77.63	88	Jamaica		45.53
22	Sweden		77.33	89	Nicaragua		45.33
23	Austria	82.00	77.14	90	Guatemala		44.46
24	Uruguay	81.80	76.95	91	Cabo Verde	48.30	44.36
25	Georgia	81.70	76.85	92	Moldova, Rep	45.70	41.83
26	New Zealand	81.40	76.56	93	Belarus	44.90	41.05
27	Australia	81.00	76.17	94	Lao PDR	44.20	40.37
28	Belgium	80.90	76.07	95	South Africa	42.90	39.11
29	Estonia		75.97	96	Honduras	41.80	38.04
30	France		75.68	97	Egypt		37.65
31	Latvia		75.58	98	Botswana	41.30	37.55
32	Ireland		75.00	99	Kyrgyzstan		37.35
33	Argentina		74.90	100	Nepal		37.26
34	Saudi Arabia		74.51	101	Azerbaijan		36.28
35	Malta		74.12	102	Sri Lanka		29.38
36	Malaysia		73.74	103	India		29.28
36 38	Portugal Lithuania		73.74 72.86	104 105	Pakistan Namibia		26.65 24.81
39	Israel		72.76	105	Eswatini		24.51
40	Slovenia		72.67	100	Bangladesh		22.67
41	Czech Republic		72.18	108	Lesotho		17.90
42	Montenegro		70.72	109	Ghana		16.34
43	ltaly		69.84	110	Kenya		16.15
44	Japan		69.75	111	Côte d'Ivoire		14.79
45	Colombia		69.36	112	Senegal		14.30
45	Ukraine	74.00	69.36	113	Mauritania	17.10	14.01
47	Costa Rica	73.70	69.07	114	Uzbekistan	15.30	12.26
48	Ecuador	73.50	68.87	115	Nigeria	14.30	11.28
49	Mexico	73.40	68.77	116	Guinea	13.90	10.89
50	Peru	73.30	68.68	117	Cameroon	13.80	10.80
50	Russian Federation	73.30	68.68	118	Gambia	13.30	10.31
52	Croatia		68.48	118	Zambia		10.31
52	Türkiye		68.48	120	Angola		7.30
54	Mongolia		68.39	121	Madagascar		6.91
55	Thailand		68.19	122	Benin		6.71
56	Philippines		67.90	123	Zimbabwe		6.23
56	United States of America		67.90	124	Burkina Faso		6.03
58	Greece		67.70	125	Mozambique		4.67
59 60	Hungary		67.61 67.41	126	Mali		4.57
60 61	ChinaSlovakia		67.41 66.54	126	Tanzania, United Rep.		4.57
61 62	Viet Nam		66.44	128 129	Rwanda Burundi		2.92 2.72
63	Brazil		66.05	130	Ethiopia		2.72
64	Serbia		65.27	131	Congo, Dem. Rep.		2.33
65	Mauritius		62.84	132	Uganda		1.56
65	Romania		62.84	133	Malawi		1.07
67	Armenia		62.16	134	Chad		0.00

**SOURCE:** We Are Social and Hootsuite (2023) Digital 2023 report series (<a href="https://wearesocial.com/digital-2023">https://wearesocial.com/digital-2023</a>)

# 3.3.4 Use of virtual professional networks

#### LinkedIn's potential advertising audience (%) $\mid$ 2022

Rank	Country	Value	Score	Rank	Country	Value S	Score
1	Iceland		100.00	68	North Macedonia		20.50
2	United Arab Emirates		94.45	69	Philippines		18.69
3	United States of America		84.37	70	Cabo Verde		18.35
4	Singapore		80.52	71	El Salvador		18.01
5	Ireland		78.26	72	Bolivia, Plurinational St		17.89
6	Netherlands		78.14	73	Hungary		17.78
7	Australia		75.88	74	Poland		17.33
8	Canada		74.75	75	Morocco		16.99
9	Luxembourg		73.95	76	Paraguay		16.87
10	United Kingdom		73.05	77	Slovakia		16.42
11	Denmark		72.93	78	Armenia		16.19
12	New Zealand		68.97	79	Ukraine		15.52
13	Malta		66.82	80	Bosnia and Herzegovina		13.93
14	Sweden		62.63	81	Eswatini		13.14
15	Norway		61.38	82	Mongolia		12.68
16	-			83	=		12.46
	SwitzerlandQatar		60.36		Indonesia		12.46
17			60.25	83	Nicaragua		
18	France		56.40	85	Moldova, Rep.		12.34
19	Belgium		55.95	86	Guatemala		12.23
20	Portugal		55.61	87	Kenya		12.12
21	Uruguay		50.62	88	Egypt		11.89
22	Chile		49.94	88	Sri Lanka		11.89
23	Bahrain		48.02	90	Algeria		11.33
24	Spain		47.68	90	Ghana		11.33
25	Trinidad and Tobago		46.89	92	Belarus		10.87
26	Cyprus		44.62	93	Senegal		10.53
27	Costa Rica	38.10	42.13	94	Honduras	10.00 1	10.31
28	Finland	37.60	41.56	94	India	10.00 1	10.31
28	Israel	37.60	41.56	96	Kazakhstan	9.40	9.63
28	Mauritius	37.60	41.56	97	Azerbaijan	8.90	9.06
31	Brazil	36.20	39.98	98	Zimbabwe	8.70	8.83
32	Panama	35.90	39.64	99	Korea, Rep	7.90	7.93
33	Italy	34.00	37.49	100	Côte d'Ivoire	7.40	7.36
34	Argentina	33.30	36.69	101	Gambia	7.30	7.25
35	Brunei Darussalam	33.10	36.47	102	Viet Nam	7.20	7.13
36	Peru	32.70	36.01	103	Thailand	7.00	6.91
37	Jamaica	31.40	34.54	104	Pakistan	6.80	6.68
38	Colombia	31.10	34.20	105	Nigeria	6.70	6.57
39	Ecuador	29.50	32.39	106	Cameroon	6.60	6.46
40	Latvia	29.40	32.28	107	Lesotho	6.40	6.23
41	Estonia	29.10	31.94	108	Zambia	6.30	6.12
42	Kuwait		31.37	109	Nepal		5.78
42	Saudi Arabia	28.60	31.37	110	Benin	5.80	5.55
44	Lithuania	28.20	30.92	111	China		4.98
44	Malaysia		30.92	112	Bangladesh		4.64
46	Lebanon		30.12	113	Cambodia		4.42
46	South Africa		30.12	114	Kyrgyzstan		4.30
48	Austria		29.56	115	Uganda		3.85
49	Czech Republic		28.31	116	Mauritania		3.51
50	Slovenia		27.63	117	Angola		3.40
51	Oman		26.95	118	Rwanda		3.28
52	Croatia		26.84	119	Tanzania, United Rep.		2.72
53	Greece		26.61	120	Japan		2.60
54	Albania		24.80	121	Guinea		2.27
	Montenegro		24.35	121	Lao PDR		2.27
55	Romania			121			2.27
56			24.12		Mozambique		2.27
57	Germany		23.44	124	Mali		
58	Mexico		22.76	125	Burkina Faso		1.81
58	Türkiye		22.76	126	Malawi		1.47
60	Botswana		22.42	127	Uzbekistan		1.25
60	Namibia		22.42	128	Madagascar		1.13
62	Serbia		21.86	129	Ethiopia		0.45
63	Jordan		21.52	130	Burundi		0.23
64	Bulgaria		21.29	131	Congo, Dem. Rep.		0.11
65	Dominican Republic		21.18	132	Chad		0.00
66	Tunisia		20.84		Iran, Islamic Rep		n/a
67	Georgia	19.20	20.72		Russian Federation	n/a	n/a

**SOURCE:** We Are Social and Hootsuite (2023) Digital 2023 report series (<a href="https://wearesocial.com/digital-2023">https://wearesocial.com/digital-2023</a>)

# Pillar 4 Retain

# 4.1.1 Pension coverage

#### Population above statutory pensionable age receiving a pension (%) $\mid$ 2022

	Country	Value	Score	Rank	Country	Value
1	Albania		100.00	68	Brazil	
1	Australia		100.00	69	Moldova, Rep	
1	Austria		100.00	70	Bahrain	
1	Belaium		100.00 100.00	71 72	Ecuador	
1	Belgium Bolivia, Plurinational St		100.00	72	Azerbaijanlceland	
1	Botswana		100.00	73	Bosnia and Herzegovina	
1	Brunei Darussalam		100.00	75	North Macedonia	
1	Canada		100.00	76	Armenia	
1	Chile		100.00	77	Panama	
1	China		100.00	78	Bangladesh	
1	Denmark		100.00	79	Costa Rica	
1	Estonia	100.00	100.00	80	Serbia	53.50
	Eswatini	100.00	100.00	81	Mozambique	52.50
	Finland	100.00	100.00	82	Oman	46.90
	France	100.00	100.00	83	Jordan	46.10
	Germany	100.00	100.00	84	Colombia	45.70
	Ireland	100.00	100.00	85	India	42.50
	Israel	100.00	100.00	86	Viet Nam	40.90
	Japan	100.00	100.00	87	Jamaica	40.30
	Korea, Rep	100.00	100.00	88	Egypt	38.00
	Kyrgyzstan	100.00	100.00	89	Peru	35.70
	Luxembourg	100.00	100.00	89	Sri Lanka	35.70
	Malta	100.00	100.00	91	Saudi Arabia	33.20
	Mauritius	100.00	100.00	92	Singapore	33.10
	Mexico	100.00	100.00	93	Senegal	29.90
	Mongolia		100.00	94	Nicaragua	28.60
	Namibia	100.00	100.00	95	Kuwait	
	Netherlands		100.00	96	El Salvador	
	New Zealand		100.00	97	United Arab Emirates	
	Norway		100.00	98	Zimbabwe	
	Russian Federation		100.00	99	Iran, Islamic Rep	
	Slovenia		100.00	100	Philippines	
	Sweden		100.00	101	Qatar	
	Switzerland		100.00	102	Ghana	
	Türkiye		100.00	103	Malaysia	
	United Kingdom		100.00	104	Cameroon	
	United States of America		100.00	105	Pakistan	
	Uruguay		100.00	106	Gambia	
	Uzbekistan		100.00	107	Guatemala	
	Kazakhstan		99.60	108	Congo, Dem. Rep.	
	Spain		98.18	109	Indonesia	
	Cyprus		97.78	110	Angola	
	LithuaniaUkraine		97.07 96.16	111 112	Kenya	
	Greece		95.76	112	Honduras Uganda	
7	Italy		94.34	114	Benin	
3	Bulgaria		93.94	114	Nigeria	
	Lesotho		93.94	116		
)	Romania		93.43	117	Lebanon Mauritania	
	Latvia		91.92	118	Zambia	
	Czech Republic		91.21	119	Côte d'Ivoire	
	Trinidad and Tobago		91.01	120	Tanzania, United Rep.	
	Georgia		90.81	121	Dominican Republic	
	Montenegro		90.51	121	Mali	
	Slovakia		90.51	123	Burkina Faso	
	Hungary		90.40	124	Cambodia	
	Portugal		90.30	125	Lao PDR	
	Croatia		89.70	126	Burundi	
	Thailand		88.99	127	Ethiopia	
	Paraguay		86.97	128	Rwanda	
)	Cabo Verde		85.45	129	Malawi	
	Tunisia		85.25	130	Guinea	
	Argentina		84.34	131	Chad	
	Poland		83.43		Algeria	
,	South Africa		81.31		Madagascar	
					-	

**SOURCE:** International Labour Organization, Social Security Inquiry (SSI). Sourced from UN Global SDG Indicators Database (<a href="https://unstats.un.org/sdgs/dataportal">https://unstats.un.org/sdgs/dataportal</a>)
For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

### 4.1.2 Social protection

Average answer to the question: In your country, to what extent do all members of the population have sufficient access to safety nets and social services in terms of unemployment income, re-training and re-employment support [1 = not at all—service is difficult or expensive to access for all; 7 = to a great extent—service is easy and affordable to access for all] | 2022

Rank		alue	Score	Rank	Country	Value	Score
1	Switzerland	5.22	100.00	68	Kazakhstan	3.72	50.42
2	Norway	5.20	99.73	69	Türkiye	3.70	50.05
3	Finland	5.18	99.27	70	Poland	3.62	48.42
4	Austria	5.08	97.28	71	Armenia		47.75
5	Luxembourg	5.97	95.01	72	Belarus	3.56	47.31
6	Denmark	5.90	93.79	73	Montenegro	3.53	46.68
7	France	5.87	93.14	74	Cabo Verde	3.51	46.28
8	Iceland	5.76	90.93	75	Serbia	3.48	45.61
9	Slovenia	5.67	89.10	76	India	3.46	45.29
10	Netherlands	5.63	88.35	77	Mongolia		45.07
11	Lithuania		86.63	78	Tanzania, United Rep	3.43	44.64
12	Czech Republic	5.34	82.60	79	Thailand		44.58
13	Saudi Arabia	5.34	82.54	80	Iran, Islamic Rep	3.42	44.55
14	Germany	5.31	82.09	81	Ethiopia	3.41	44.35
15	Ireland	5.29	81.62	82	Egypt	3.39	43.83
16	Estonia		80.41	83	Sri Lanka		43.20
17	New Zealand		80.11	84	Lao PDR		42.65
18	Oman	5.21	80.01	85	Jamaica	3.31	42.27
19	Sweden		79.85	86	Uganda		41.72
20	United States of America		78.11	87	Argentina		40.80
21	Spain		77.81	88	Kyrgyzstan		38.45
22	Azerbaijan		77.44	89	Burkina Faso		38.37
23	Belgium		77.23	90	Mozambique		36.51
24	Singapore		77.11	91	Eswatini		36.31
25	China		76.82	92	North Macedonia		35.65
26	Uruguay		76.25	93	Trinidad and Tobago		35.26
27	Australia		75.81	94	Colombia		35.21
28	Korea, Rep		75.75	95	Mali		34.77
29	Japan		74.90	96	South Africa		34.57
30	Israel		72.72	97	Guinea		33.38
31	Malta		72.36	98	Cambodia		31.79
32	Portugal		72.16	99	Costa Rica		31.77
33	United Kingdom		71.75	100	Côte d'Ivoire		31.70
34	Bahrain		71.60	101	Madagascar		31.54
35	Canada		71.55	102	Rwanda		31.40
36	Indonesia		71.22	103	Ecuador		30.33
37	Latvia		69.54	104	Philippines		29.99
38	Ukraine		68.41	105	Zambia		29.92
39	Croatia		66.70	106	Nepal		29.87
40	Uzbekistan		66.49	107	Ghana		29.78
41	Slovakia		66.35	108	Panama		29.27
42	Albania		66.21	109	Bosnia and Herzegovina		28.96
43	United Arab Emirates		65.78	110	Mauritania		27.99
44	Malaysia		63.83	111	Cameroon		27.86
45	Greece		63.19	112	Bangladesh		26.48
46	Italy		63.18	113	Zimbabwe		25.76
47	Russian Federation		62.94	114	Namibia		24.94
48	Hungary4		61.22	115	Morocco		22.26
49	Romania		61.14	116	Senegal		21.81
50	Cyprus		61.10	117	Dominican Republic		21.39
51	Kuwait		60.98	118	Mexico		20.87
52	Bulgaria		60.08	119	Guatemala		20.29
53	Qatar		59.19	120	Kenya		20.16
54	Viet Nam		58.86	121	Malawi		19.18
55	Jordan		58.47	122	Tunisia		17.80
56	Pakistan		58.07	123	Peru		17.21
57	Chile		55.97	124	Chad		16.26
58	Brunei Darussalam		55.97	125	Paraguay		14.76
59	Georgia		55.22	126	Nigeria		13.08
60	Burundi		54.21	127	El Salvador	1.81	12.39
61	Mauritius		54.10	128	Nicaragua		12.12
62	Algeria		53.51	129	Bolivia, Plurinational St		11.40
63	Botswana		53.05	130	Honduras		11.14
64	Lesotho		52.84	131	Angola		7.66
65	Gambia		52.10	132	Congo, Dem. Rep		6.61
66	Brazil		51.99	133	Lebanon		3.00
67	Moldova, Rep.	3.77	51.39	134	Benin	1.18	0.00

SOURCE: World Economic Forum, Executive Opinion Survey 2021–2022 (https://www.weforum.org/publications)

### 4.1.3 Brain retention

Average answer to the question: To what extent does your country retain talented people? [1 = not at all the best and brightest leave to pursue opportunities abroad; 7 = to a great extent—the best and brightest stay and pursue opportunities in the country] | 2018

Vertice And Control		Country	Value	Score	Rank	· · · · · · · · · · · · · · · · · · ·	Value Score
3 United Arab Emistes	1			100.00	68		
Singapore							
Second							
6 Nerherlands		3 .					
7         Unbed Kingdom         5.27         84.71         74         Malawi         3.25         35.95           8         Germany         5.17         82.40         75         South Africa         3.25         35.95           9         Malayia         5.10         80.55         75         Korakhvan         3.21         35.05           11         Norway         5.05         79.42         77         Mortineregro         3.17         33.07           15         Irakind         4.97         77.44         60         Polard         1.16         33.71         33.05           16         Cirnada         4.99         77.28         81         Dorlinican Republic         3.13         32.56           17         Curr         4.99         72.88         81         Dorlinican Republic         3.13         32.56           18         Carriada         4.99         72.88         83         Semegal         3.13         32.56           18         Australia         4.24         71.86         85         America         3.09         31.79           19         Irakaraila         4.24         71.86         85         America         3.09         31.79		9				-1	
8 Germany							
9 Malysusi		=					
10							
11 Norway							
12   Sweden						3	
13   Finland						=	
14   Oman.							
15   Canada							
16   Chile							
To   Cater							
Bartarala						_	
Per   Peland							
20   Newarda							
21   Demmark							
22   India						2	
23 India         470         71.11         90         Eswatni.         3.04         30.75           24 Saudi Arabia         4.58         68.06         91         Uruguay         3.00         299.6           25 Korea, Rep         4.56         67.71         92         Egypt.         2.99         29.77           26 Azerbaljan         4.46         65.6         67         94         Mali         2.92         29.34           28 New Zealand         4.46         65.16         95         Morambique         2.95         28.76           28 Bahrain         4.43         64.55         96         Bufkina Faso         2.94         28.5           30 Malta         4.38         63.15         97         Italy         2.91         2275           31 Costa Rica         4.37         62.92         98         Uganda         2.90         2756           32 China         4.33         62.12         99         Litaka         2.89         2732           33 Panama         4.26         60.32         101         Türkiye         2.86         26.3           35 Gambia         4.17         58.08         102         Madagascar         2.83         25.82							
24 Saudi Arabia         4.58 6806         91 Uruguay         3.00 2906           25 Korea, Rep         4.56 6771         92 Egypt.         2.99 29.77           26 Azerbaljan         4.53 6701         93 Lebanon         2.98 29.40           27 Indonesia         4.46 65.27         94 Mall         2.98 29.34           28 New Zealand         4.46 65.16 65.16 59 Mozambique         2.95 28.76           29 Bahrain         4.43 64.55 96 Burkina Faso         2.94 28.52           20 Satrica         4.37 6.392 98 Uganda         2.90 27.55           31 Costa Rica         4.37 6.392 99 Uganda         2.90 27.56           32 China         4.33 6.212 99 Latvia         2.89 27.34           34 Austria         4.426 60.32         101 Türkiye         2.89 27.33           35 Gambia         4.17 58.08 102 Madegascar         2.86 26.33           36 Belgium         4.11 56.74 103 Cameroon         2.73 23.39           37 Thailand         4.08 55.93 105 Itan Islamic Rep.         2.67 21.08           40 Japan         4.06 55.37 105 Itan Islamic Rep.         2.67 21.08           41 Ghana         4.01 54.29 Itan Islamic Rep.         2.67 21.88           42 Pakistan         3.98 53.50 109 Albania         2.66 21.78           43 Gyptus         3.48 8.39 111 Curlea						9	
25         Korea, Rep.         4.56         6.71         92         Egypt.         2.99         2.977           26         Azerbaljian.         4.53         6701         93         Lebanon.         2.98         29.34           27         Indonesia.         4.46         651.6         95         Mozambique.         2.95         28.76           28         Bahrain.         4.43         64.55         96         Bufinan Faso.         2.94         28.52           30         Malta.         4.33         63.15         97         Italy.         2.91         2275           31         Costa Rica.         4.37         6.29         99         Uganda.         2.90         2.75           32         China.         4.33         6.212         99         Lutvia         2.89         27.32           32         China.         4.33         6.212         90         Latvia         2.89         27.32           33         Panama.         4.26         60.32         101         Türkiye.         2.86         26.53           35         Gambia.         4.17         58.08         102         Madagascar         2.82         25.52           36							
beach         Azerbaijan         4.53         6701         93         Lebanon         2.98         29.40           27         Indonesia         4.46         65.16         95         Mozambique         2.95         28.76           28         New Zealand         4.46         65.16         95         Mozambique         2.95         28.76           29         Bahrain         4.43         64.55         96         Burkina Faso         2.94         28.52           31         Costa Rica         4.37         62.92         98         Uganda         2.90         275.6           31         Costa Rica         4.37         62.92         98         Uganda         2.90         275.2           32         China         4.33         62.12         99         Litvila         2.89         273.2           33         Panama         4.29         60.97         100         Sri Larka         2.89         273.2           34         Austria         4.26         60.97         100         Sri Larka         2.89         25.33           35         Gambia         4.17         58.08         102         Madagascar         2.28         25.22           4						2 ,	
Page						571	
New Zealand							
29 Bahrain							
Malta						•	
Costa Rica							
2732   2732   2732   2732   2733   2734   2734   2735   2734   2735						-	
Panama						=	
34 Austria         4.26         60.32         101 Türkiye         2.86         25.33           35 Gambia         4.17         58.08         102 Madagascar         2.28         25.83           36 Belgium         4.11         56.74         103 Cameroon         2.73         23.49           37 Thailand         4.08         55.93         104 Bolivia, Plurinational St         2.73         23.39           38 Kenya         4.06         55.54         105 Iran, Islamic Rep.         2.67         21.80           40 Japan         4.04         55.01         107 Congo, Dem. Rep.         2.67         21.88           41 Ghana         4.01         54.29         108         Nepal         2.66         21.78           42 Pakistan         3.98         53.50         109         Albania         2.63         21.07           43 Cyprus         3.87         50.99         110         Hungary         2.63         21.04           44 Guatemala         3.81         49.51         111         Guinea         2.62         22.88           45 Namibia         3.76         48.39         112         Chad         2.61         20.48           4a Sayer         1.24         2.64         2.93							
35         Gambia         4.17         58.08         102         Madagascar         2.83         25.82           36         Belgium         4.11         56.74         103         Cameroon         2.73         23.49           37         Thailand         4.08         55.93         104         Bolivia, Purinational St         2.73         23.39           38         Kenya         4.06         55.54         105         Iran, Islamic Rep.         2.67         21.88           40         Japan.         4.04         55.01         107         Congo, Dem. Rep.         2.67         21.88           41         Ghana.         4.01         55.01         107         Congo, Dem. Rep.         2.66         21.78           42         Pakistan.         3.98         53.50         109         Albania.         2.63         21.07           43         Cyprus.         3.87         50.99         110         Hungary.         2.63         21.07           44         Guatemala.         3.81         49.51         111         Guinea.         2.63         20.3           45         Namibia.         3.76         48.39         112         Chad.         2.61         20.48							
36         Belgium         4.11         56.74         103         Cameroon         2.73         23.49           37         Thailand         4.08         55.93         104         Bolivia, Plurinational St         2.73         23.39           38         Kenya         4.06         55.54         105         Iran, Islamic Rep         2.67         21.90           39         Philippines         4.05         55.37         106         Lithuania         2.67         21.88           40         Japan         4.04         55.01         107         Congo, Rep.         2.66         21.78           41         Ghana         4.01         54.29         108         Nepal         2.66         21.78           42         Pakistan         3.98         53.50         109         Albania         2.63         21.04           43         Gyrus         3.87         50.99         110         Hungary         2.63         21.04           44         Guatemala         3.81         49.51         111         Guinea         2.63         20.93           45         Namibia         3.76         48.38         113         Tunisa         2.0         20.32	35						
37         Thailand         4.08         55.93         104         Bolivia, Plurinational St.         2.73         23.39           38         Kenya         4.06         55.54         105         Iran, Islamic Rep.         2.67         21.90           39         Philippines         4.05         55.37         106         Lithuania         2.67         21.88           40         Japan         4.04         55.01         107         Congo, Dem. Rep.         2.67         21.88           41         Ghana         4.01         54.29         108         Nepal         2.66         21.78           42         Pakistan         3.98         53.50         109         Albania         2.63         21.04           43         Cyprus         3.87         50.99         110         Hungary         2.63         21.04           44         Guatemala         3.81         49.51         111         Guinea         2.63         21.04           44         Guatemala         3.81         49.51         111         Guinea         2.61         20.48           48         Lao PDR         3.76         48.38         113         Tunisia         2.62         2.62      <	36	Belgium	4.11	56.74	103	3	
38         Kenya         4.06         55.54         105         Iran, Islamic Rep.         2.67         21.90           39         Philippines         4.05         55.37         106         Lithuania         2.67         21.88           40         Japan         4.04         55.01         107         Congo, Dem. Rep.         2.63         21.78           42         Pakistan         3.98         53.50         109         Albania         2.63         21.07           42         Pakistan         3.87         50.99         110         Hungary         2.63         21.04           44         Guatemala         3.81         49.51         111         Guinea         2.63         20.93           45         Namibia         3.76         48.39         112         Chad         2.61         20.48           46         Lao PDR         3.76         48.38         113         Tunisia         2.60         20.32           47         Czech Republic         3.76         48.32         114         Bulgaria         2.58         19.84           48         Argentina         3.72         47.26         115         Kyrgyzstan         2.56         19.32	37	9		55.93	104		
40         Japan         4.04         55.01         107         Congo, Dem. Rep.         2.67         21.88           41         Ghana         4.01         54.29         108         Nepal         2.66         21.78           42         Pakistan         3.98         53.50         109         Albania         2.63         21.04           43         Cyprus         3.87         50.99         110         Hungary         2.63         21.04           44         Guatemala         3.81         49.51         111         Guinea         2.63         20.93           45         Namibia         3.76         48.39         112         Chad         2.61         2.09           46         Lao PDR         3.76         48.38         113         Turisia         2.60         20.32           47         Czech Republic         3.76         48.32         114         Bulgaria         2.58         19.84           48         Argentina         3.72         47.26         115         Kyrgyzstan         2.25         18.6           48         Astowana         3.63         45.19         116         Angolia         2.25         18.26           50	38			55.54	105		
41 Ghana         4.01         54.29         108 Nepal         2.66         21.78           42 Pakistan         3.98         53.50         109 Albania         2.63         21.04           43 Cyprus         3.87         50.99         110 Hungary         2.63         21.04           44 Guatemala         3.81         49.51         111 Guinea         2.63         20.93           45 Namibia         3.76         48.39         112 Chad         2.61         2048           46 Lao PDR         3.76         48.38         113 Tunisia         2.60         20.32           47 Czech Republic         3.76         48.32         114 Bulgaria         2.56         19.32           48 Argentina         3.72         47.26         115 Kyrgyzstan         2.56         19.32           48 Botswana         3.63         45.19         116 Angola         2.55         19.32           50 Lesotho         3.57         43.34         117 Algeria         2.52         18.66           51 Russian Federation         3.56         43.38         118 Ukraine         2.50         17.86           52 Kuwait         3.55         43.24         120 Slovakia         2.41         15.67           54 Mauritius </td <td>39</td> <td>Philippines</td> <td>4.05</td> <td>55.37</td> <td>106</td> <td>Lithuania</td> <td>2.67 21.88</td>	39	Philippines	4.05	55.37	106	Lithuania	2.67 21.88
42 Pakistan         3,98         53,50         109         Albania         2,63         21,07           43 Cyprus         3,87         50,99         110         Hungary         2,63         21,04           44 Guatemala         3,81         49,51         111         Guinea         2,63         20,93           45 Namibia         3,76         48,39         112         Chad         2,61         20,48           46 Lao PDR         3,76         48,38         113         Tunisia         2,60         20,32           47 Czech Republic         3,76         48,32         114         Bulgaria         2,58         19,84           48 Argentina         3,72         47,26         115         Kyrgyzstan         2,56         19,32           49 Botswana         3,63         45,19         116         Angola         2,55         19,32           50 Lesotho         3,57         43,74         117         Algeria         2,52         18,26           51 Russian Federation         3,56         43,38         118         Burrain         2,50         17,86           52 Kuwait         3,55         43,31         119         Burundi         2,50         17,86	40	Japan	4.04	55.01	107	Congo, Dem. Rep	2.67 21.88
43         Cyprus         3.87         50.99         110         Hungary         2.63         21.04           44         Guatemala         3.81         49.51         111         Guinea         2.63         20.93           45         Namibia         3.76         48.39         112         Chad         2.60         20.32           46         Lao PDR         3.76         48.38         113         Tunisia         2.60         20.32           47         Czech Republic         3.76         48.32         114         Bulgaria         2.58         19.84           48         Argentina         3.72         47.26         115         Kyrgyzstan         2.56         19.32           49         Botswana         3.63         45.19         116         Angola         2.55         19.13           50         Lesotho         3.57         43.74         117         Algeria         2.52         18.26           51         Russian Federation         3.56         43.38         118         Ukraine         2.50         17.86           52         Kuwait         3.55         43.31         119         Burundi         2.50         17.86           53<	41	Ghana	4.01	54.29	108	Nepal	2.66 21.78
44 Guatemala         3.81         49.51         111         Guinea         2.63         20.93           45 Namibia         3.76         48.39         112         Chad         2.61         20.48           46 Lao PDR         3.76         48.38         113         Tunisia         2.60         20.34           47 Czech Republic         3.76         48.32         114         Bulgaria         2.58         19.84           48 Argentina         3.72         47.26         115         Kyrgyzstan         2.56         19.32           49 Botswana         3.63         45.19         116         Angola         2.55         19.13           50 Lesotho         3.57         43.74         117         Algeria         2.52         18.26           51 Russian Federation         3.56         43.38         118         Ukraine         2.50         17.86           52 Kuwait         3.55         43.31         119         Burudi         2.50         17.84           53 Jordan         3.55         43.34         120         Slovakia         2.41         15.67           54 Mauritius         3.55         43.14         121         Zimbabwe         2.40         15.40	42	Pakistan	3.98	53.50	109	Albania	2.63 21.07
44 Guatemala         3.81         49.51         111         Guinea         2.63         20.93           45 Namibia         3.76         48.39         112         Chad         2.61         20.48           46 Lao PDR         3.76         48.38         113         Tunisia         2.60         20.32           47 Czech Republic         3.76         48.32         114         Bulgaria         2.58         19.84           48 Argentina         3.72         47.26         115         Kyrgyzstan         2.56         19.32           49 Botswana         3.63         45.19         116         Angola         2.55         19.13           50 Lesotho         3.57         43.74         117         Algeria         2.52         18.26           51 Russian Federation         3.56         43.38         118         Ukraine         2.50         17.86           52 Kuwait         3.55         43.31         119         Burudi         2.50         17.84           53 Jordan         3.55         43.31         119         Burudi         2.50         17.84           54 Mauritius         3.55         43.14         121         Zimbabwe         2.40         15.40	43	Cyprus	3.87	50.99	110	Hungary	2.63 21.04
46         Lao PDR         3.76         48.38         113         Tunisia         2.60         20.32           47         Czech Republic         3.76         48.32         114         Bulgaria         2.58         19.84           48         Argentina         3.72         47.26         115         Kyrgyzstan         2.56         19.32           49         Botswana         3.63         45.19         116         Angola         2.55         19.13           50         Lesotho         3.57         43.74         117         Algeria         2.52         18.26           51         Russian Federation         3.56         43.38         118         Ukraine         2.50         17.86           52         Kuwait         3.55         43.31         119         Burundi         2.50         17.86           53         Jordan         3.55         43.31         119         Burundi         2.50         17.86           54         Mauritius         3.55         43.14         12         Zimbabwe         2.40         15.67           54         Mauritius         3.54         42.87         12         Mongolia         2.39         15.19           <	44	Guatemala	3.81	49.51	111	Guinea	2.63 20.93
47         Czech Republic         3.76         48.32         114         Bulgaria         2.58         19.84           48         Argentina         3.72         47.26         115         Kyrgyzstan         2.56         19.32           49         Botswana         3.63         45.19         116         Angola         2.55         19.13           50         Lesotho         3.57         43.74         117         Algeria         2.50         17.86           51         Russian Federation         3.56         43.38         118         Ukraine         2.50         17.86           52         Kuwait         3.55         43.31         119         Burundi         2.50         17.86           53         Jordan         3.55         43.31         119         Burundi         2.50         17.84           53         Jordan         3.55         43.24         120         Slovakia         2.41         15.67           54         Maurituis         3.55         43.14         121         Zimbabwe         2.40         15.40           55         Cambodia         3.54         42.86         123         Mauritania         2.38         14.94	45	Namibia	3.76	48.39	112	Chad	2.61 20.48
48         Argentina         3.72         47.26         115         Kyrgyzstan         2.56         19.32           49         Botswana         3.63         45.19         116         Angola         2.55         19.13           50         Lesotho         3.57         43.74         117         Algeria         2.50         18.26           51         Russian Federation         3.56         43.38         118         Ukraine         2.50         17.86           52         Kuwait         3.55         43.31         119         Burundi         2.50         17.86           53         Jordan         3.55         43.24         120         Slovakia         2.41         15.67           54         Mauritius         3.55         43.14         121         Zimbabwe         2.40         15.40           55         Cambodia         3.54         42.87         122         Mongolia         2.39         15.19           56         Trinidad and Tobago         3.54         42.86         123         Mauritania         2.38         14.97           57         Brunei Darussalam         3.53         42.74         124         Greece         2.38         14.84	46	Lao PDR	3.76	48.38	113	Tunisia	2.60 20.32
49       Botswana       3.63       45.19       116       Angola       2.55       19.13         50       Lesotho       3.57       43.74       117       Algeria       2.52       18.26         51       Russian Federation       3.56       43.38       118       Ukraine       2.50       17.86         52       Kuwait       3.55       43.31       119       Burundi       2.50       17.84         53       Jordan       3.55       43.24       120       Slovakia       2.41       15.67         54       Mauritius       3.55       43.14       121       Zimbabwe       2.40       15.40         55       Cambodia       3.54       42.87       122       Mongolia       2.39       15.19         56       Trinidad and Tobago       3.54       42.86       123       Mauritania       2.38       14.97         57       Brunei Darussalam       3.53       42.74       124       Greece       2.38       14.84         58       Mexico       3.53       42.63       125       El Salvador       2.36       14.31         59       Paraguay       3.46       40.92       126       Benin       2.27	47	Czech Republic	3.76	48.32	114	Bulgaria	2.58 19.84
50         Lesotho.         3.57         43.74         117         Algeria.         2.52         18.26           51         Russian Federation.         3.56         43.38         118         Ukraine.         2.50         17.86           52         Kuwait.         3.55         43.31         119         Burundi.         2.50         17.84           53         Jordan.         3.55         43.24         120         Slovakia         2.41         15.67           54         Mauritius.         3.55         43.14         121         Zimbabwe.         2.40         15.40           55         Cambodia.         3.54         42.87         122         Mongolia.         2.39         15.19           56         Trinidad and Tobago.         3.54         42.86         123         Mauritania.         2.38         14.97           57         Brunei Darussalam.         3.53         42.74         124         Greece.         2.38         14.84           58         Mexico.         3.53         42.63         125         El Salvador.         2.36         14.31           59         Paraguay.         3.46         40.92         126         Benin.         2.27         12.21	48	Argentina	3.72	47.26	115	Kyrgyzstan	2.56 19.32
51         Russian Federation         3.56         43.38         118         Ukraine         2.50         17.86           52         Kuwait         3.55         43.31         119         Burundi         2.50         17.84           53         Jordan         3.55         43.24         120         Slovakia         2.41         15.67           54         Mauritius         3.55         43.14         121         Zimbabwe         2.40         15.40           55         Cambodia         3.54         42.87         122         Mongolia         2.39         15.19           56         Trinidad and Tobago         3.54         42.87         122         Mongolia         2.39         15.19           57         Brunei Darussalam         3.53         42.74         124         Greece         2.38         14.84           58         Mexico         3.53         42.63         125         El Salvador         2.36         14.31           59         Paraguay         3.46         40.92         126         Benin         2.31         13.25           60         Estonia         3.45         40.83         127         Serbia         2.27         12.21 <t< td=""><td>49</td><td>Botswana</td><td>3.63</td><td>45.19</td><td>116</td><td>Angola</td><td>2.55 19.13</td></t<>	49	Botswana	3.63	45.19	116	Angola	2.55 19.13
52         Kuwait         3.55         43.31         119         Burundi.         2.50         17.84           53         Jordan         3.55         43.24         120         Slovakia         2.41         15.67           54         Mauritius         3.55         43.14         121         Zimbabwe         2.40         15.40           55         Cambodia         3.54         42.87         122         Mongolia         2.39         15.19           56         Trinidad and Tobago         3.54         42.86         123         Mauritania         2.38         14.97           57         Brunei Darussalam         3.53         42.74         124         Greece         2.38         14.84           58         Mexico         3.53         42.63         125         El Salvador         2.36         14.31           59         Paraguay         3.46         40.92         126         Benin         2.31         13.25           60         Estonia         3.45         40.83         127         Serbia         2.27         12.21           61         Honduras         3.44         40.57         128         North Macedonia         2.13         8.77 <t< td=""><td>50</td><td>Lesotho</td><td>3.57</td><td>43.74</td><td>117</td><td>Algeria</td><td>2.52 18.26</td></t<>	50	Lesotho	3.57	43.74	117	Algeria	2.52 18.26
53         Jordan         3.55         43.24         120         Slovakia         2.41         15.67           54         Mauritius         3.55         43.14         121         Zimbabwe         2.40         15.40           55         Cambodia         3.54         42.87         122         Mongolia         2.39         15.19           56         Trinidad and Tobago         3.54         42.86         123         Mauritania         2.38         14.97           57         Brunei Darussalam         3.53         42.74         124         Greece         2.38         14.84           58         Mexico         3.53         42.63         125         El Salvador         2.36         14.31           59         Paraguay         3.46         40.92         126         Benin         2.31         13.25           60         Estonia         3.45         40.83         127         Serbia         2.27         12.21           61         Honduras         3.44         40.57         128         North Macedonia         2.13         8.77           62         Cabo Verde         3.44         40.56         129         Moldova, Rep         1.96         4.82	51	Russian Federation	3.56	43.38	118	Ukraine	2.50 17.86
54         Mauritius         3.55         43.14         121         Zimbabwe         2.40         15.40           55         Cambodia         3.54         42.87         122         Mongolia         2.39         15.19           56         Trinidad and Tobago         3.54         42.86         123         Mauritania         2.38         14.97           57         Brunei Darussalam         3.53         42.74         124         Greece         2.38         14.84           58         Mexico         3.53         42.63         125         El Salvador         2.36         14.31           59         Paraguay         3.46         40.92         126         Benin         2.31         13.25           60         Estonia         3.45         40.83         127         Serbia         2.21         12.21           61         Honduras         3.44         40.57         128         North Macedonia         2.13         8.77           62         Cabo Verde         3.44         40.56         129         Moldova, Rep.         1.96         4.82           63         France         3.43         40.32         130         Croatia         1.88         2.80	52	Kuwait	3.55	43.31	119	Burundi	2.50 17.84
55         Cambodia         3.54         42.87         122         Mongolia         2.39         15.19           56         Trinidad and Tobago         3.54         42.86         123         Mauritania         2.38         14.97           57         Brunei Darussalam         3.53         42.74         124         Greece         2.38         14.84           58         Mexico         3.53         42.63         125         El Salvador         2.36         14.31           59         Paraguay         3.46         40.92         126         Benin         2.31         13.25           60         Estonia         3.45         40.83         127         Serbia         2.27         12.21           61         Honduras         3.44         40.57         128         North Macedonia         2.13         8.77           62         Cabo Verde         3.44         40.57         128         North Macedonia         2.13         8.77           63         France         3.43         40.32         130         Croatia         1.88         2.92           64         Colombia         3.41         39.92         131         Romania         1.88         2.80	53	Jordan	3.55	43.24	120	Slovakia	2.41 15.67
56         Trinidad and Tobago.         3.54         42.86         123         Mauritania.         2.38         14.97           57         Brunei Darussalam.         3.53         42.74         124         Greece.         2.38         14.84           58         Mexico.         3.53         42.63         125         El Salvador.         2.36         14.31           59         Paraguay.         3.46         40.92         126         Benin.         2.31         13.25           60         Estonia.         3.45         40.83         127         Serbia.         2.27         12.21           61         Honduras         3.44         40.57         128         North Macedonia.         2.13         8.77           62         Cabo Verde.         3.44         40.56         129         Moldova, Rep.         1.96         4.82           63         France.         3.43         40.32         130         Croatia.         1.88         2.92           64         Colombia.         3.41         39.92         131         Romania.         1.88         2.80           65         Peru.         3.38         38.98         132         Bosnia and Herzegovina.         1.76	54	Mauritius	3.55	43.14	121	Zimbabwe	2.40 15.40
57         Brunei Darussalam         3.53         42.74         124         Greece         2.38         14.84           58         Mexico         3.53         42.63         125         El Salvador         2.36         14.31           59         Paraguay         3.46         40.92         126         Benin         2.31         13.25           60         Estonia         3.45         40.83         127         Serbia         2.27         12.21           61         Honduras         3.44         40.57         128         North Macedonia         2.13         8.77           62         Cabo Verde         3.44         40.56         129         Moldova, Rep         1.96         4.82           63         France         3.43         40.32         130         Croatia         1.88         2.92           64         Colombia         3.41         39.92         131         Romania         1.88         2.80           65         Peru         3.38         38.98         132         Bosnia and Herzegovina         1.76         0.00           66         Ethiopia         3.37         38.89         Belarus         n/a         n/a	55	Cambodia	3.54	42.87	122	Mongolia	2.39 15.19
58         Mexico         3.53         42.63         125         El Salvador         2.36         14.31           59         Paraguay         3.46         40.92         126         Benin         2.31         13.25           60         Estonia         3.45         40.83         127         Serbia         2.27         12.21           61         Honduras         3.44         40.57         128         North Macedonia         2.13         8.77           62         Cabo Verde         3.44         40.56         129         Moldova, Rep         1.96         4.82           63         France         3.43         40.32         130         Croatia         1.88         2.92           64         Colombia         3.41         39.92         131         Romania         1.88         2.80           65         Peru         3.38         38.98         132         Bosnia and Herzegovina         1.76         0.00           66         Ethiopia         3.37         38.89         Belarus         n/a         n/a	56	Trinidad and Tobago	3.54	42.86	123	Mauritania	2.38 14.97
59 Paraguay     3.46 40.92     126 Benin     2.31 13.25       60 Estonia     3.45 40.83     127 Serbia     2.27 12.21       61 Honduras     3.44 40.57     128 North Macedonia     2.13 8.77       62 Cabo Verde     3.44 40.56     129 Moldova, Rep     1.96 4.82       63 France     3.43 40.32     130 Croatia     1.88 2.92       64 Colombia     3.41 39.92     131 Romania     1.88 2.80       65 Peru     3.38 38.98     132 Bosnia and Herzegovina     1.76 0.00       66 Ethiopia     3.37 38.89     Belarus     n/a	57	Brunei Darussalam	3.53	42.74	124	Greece	2.38 14.84
60       Estonia       3.45       40.83       127       Serbia       2.27       12.21         61       Honduras       3.44       40.57       128       North Macedonia       2.13       8.77         62       Cabo Verde       3.44       40.56       129       Moldova, Rep.       1.96       4.82         63       France       3.43       40.32       130       Croatia       1.88       2.92         64       Colombia       3.41       39.92       131       Romania       1.88       2.80         65       Peru       3.38       38.98       132       Bosnia and Herzegovina       1.76       0.00         66       Ethiopia       3.37       38.89       Belarus       n/a       n/a	58	Mexico	3.53	42.63	125	El Salvador	2.36 14.31
61 Honduras     3.44 40.57     128 North Macedonia     2.13 8.77       62 Cabo Verde     3.44 40.56     129 Moldova, Rep.     1.96 4.82       63 France     3.43 40.32     130 Croatia     1.88 2.92       64 Colombia     3.41 39.92     131 Romania     1.88 2.80       65 Peru     3.38 38.98     132 Bosnia and Herzegovina     1.76 0.00       66 Ethiopia     3.37 38.89     Belarus     n/a	59	Paraguay	3.46	40.92	126	Benin	2.31 13.25
62 Cabo Verde     3.44 40.56     129 Moldova, Rep.     1.96 4.82       63 France     3.43 40.32     130 Croatia     1.88 2.92       64 Colombia     3.41 39.92     131 Romania     1.88 2.80       65 Peru     3.38 38.98     132 Bosnia and Herzegovina     1.76 0.00       66 Ethiopia     3.37 38.89     Belarus     n/a	60	Estonia	3.45	40.83	127	Serbia	2.27 12.21
63     France     3.43     40.32     130     Croatia     1.88     2.92       64     Colombia     3.41     39.92     131     Romania     1.88     2.80       65     Peru     3.38     38.98     132     Bosnia and Herzegovina     1.76     0.00       66     Ethiopia     3.37     38.89     Belarus     n/a     n/a	61	Honduras	3.44	40.57	128	North Macedonia	2.13 8.77
63     France     3.43     40.32     130     Croatia     1.88     2.92       64     Colombia     3.41     39.92     131     Romania     1.88     2.80       65     Peru     3.38     38.98     132     Bosnia and Herzegovina     1.76     0.00       66     Ethiopia     3.37     38.89     Belarus     n/a     n/a	62	Cabo Verde	3.44	40.56	129		
64     Colombia.     3.41     39.92     131     Romania.     1.88     2.80       65     Peru.     3.38     38.98     132     Bosnia and Herzegovina.     1.76     0.00       66     Ethiopia.     3.37     38.89     Belarus.     n/a     n/a	63				130		
66 Ethiopia	64				131		
66 Ethiopia	65	Peru	3.38	38.98	132	Bosnia and Herzegovina	1.76 0.00
·	66					_	
	67	Portugal	3.37	38.81		Uzbekistan	n/a n/a

**SOURCE:** World Economic Forum, Executive Opinion Survey 2017–2018 (https://www.weforum.org/publications)

# 4.1.4 Environmental performance

#### Environmental Performance Index score | 2022

Rank	Country V	alue	Score	Rank	Country	Value	Score
1	Denmark		100.00	68	Cabo Verde	41.90	38.98
2	United Kingdom7		99.66	69	Argentina		37.63
3	Finland		97.63	70	Kazakhstan		37.29
4	Malta7		95.42	70	Paraguay		37.29
5	Sweden	2.70	91.19	72	El Salvador	40.80	37.12
6	Luxembourg72	2.30	90.51	73	Tunisia	40.70	36.95
7	Slovenia6	7.30	82.03	74	Malawi	40.60	36.78
8	Austria66		80.68	75	Bolivia, Plurinational St		35.93
9	Switzerland6	5.90	79.66	76	Peru	39.80	35.42
10	Iceland62	2.80	74.41	77	Bosnia and Herzegovina	39.40	34.75
11	Netherlands62	2.60	74.07	78	Georgia	39.10	34.24
12	France	2.50	73.90	79	Azerbaijan	38.60	33.39
13	Germany62	2.40	73.73	80	Zambia	38.40	33.05
14	Estonia6	.40	72.03	81	Uzbekistan	38.20	32.71
15	Latvia6		71.53	82	Thailand		32.54
16	Croatia60	0.20	70.00	83	Saudi Arabia	37.90	32.20
17	Australia6	0.10	69.83	84	Nicaragua	37.70	31.86
18	Slovakia60	0.00	69.66	85	Russian Federation	37.50	31.53
19	Czech Republic59		69.49	86	Uruguay		31.36
20	Norway59		68.47	87	South Africa		31.02
21	Belgium58		66.61	88	Congo, Dem. Rep		30.51
22	Cyprus58		66.27	89	Honduras		29.83
23	Italy5		65.76	90	Gambia		29.66
24	Ireland5		65.25	91	Uganda		28.64
25	Japan5		64.92	92	Kyrgyzstan		28.47
26	New Zealand56		64.07	93	Burkina Faso		28.14
27	Spain56		63.90	93	Egypt		28.14
28	Greece		63.22	95	Malaysia		27.29
29	Romania		62.88	96	Sri Lanka		26.78
30	Lithuania		62.71	97	Iran, Islamic Rep		26.44
31	Hungary5		61.36	98	Tanzania, United Rep		25.93
32	North Macedonia54		60.00	99	Senegal		25.42
33	Botswana54		59.49	100	Qatar		23.90
34	United Arab Emirates52		56.78	101	Côte d'Ivoire		23.56
35	Bulgaria5		55.93	101	Rwanda		23.56
36	United States of America5		54.58	103	Lesotho		22.71
37	Namibia50		54.24	104	Lebanon		22.54
37	Singapore		54.24	105	Ethiopia		21.86
39	Poland50		53.73	106	Mozambique		21.69
40	Panama		53.56	107	Guinea		21.53
41	Portugal50		53.39	108	Kenya		20.17
42	Canada		52.71	109	Lao PDR		20.00
43	Ukraine4		52.03	109	Oman		20.00
44	Belarus48		50.17	111	Angola		19.66
45	Armenia48		49.83	111	Burundi		19.66
46	Israel48		49.66	113	Cameroon		19.15
47	Trinidad and Tobago4		48.98	114	Cambodia		18.98
48	Albania4		47.80	115	Algeria		18.14
49	Korea, Rep46		47.46	115	Benin		18.14
49	Montenegro46		47.46	115	Mongolia	29.60	18.14
51	Chile40		47.12	118	Philippines		16.95
52	Ecuador46		46.78	119	Mali		16.27
53	Costa Rica46		46.44	120	China		16.10
54	Zimbabwe46		46.27	120	Morocco		16.10
55	Brunei Darussalam4		45.42	122	Nepal		15.93
56	Jamaica4 <sup>t</sup>		45.25	122	Nigeria		15.93
57	Mexico4		45.08	124	Indonesia		15.76
58	Eswatini4		44.07	125	Chad		15.59
59	Mauritius44		43.90	125	Mauritania		15.59
60	Serbia		42.37	127	Guatemala		15.42
61	Brazil 4		41.86	127	Madagascar		15.42
61	Jordan		41.86	127	Ghana		14.92
63	Moldova, Rep		40.34	130	Türkiye		12.54
64	Colombia4		39.83	131	Pakistan		9.66
64	Kuwait		39.83	132	Bangladesh		7.12
66	Dominican Republic		39.49	133	Viet Nam		2.03
67	Bahrain		39.15	134	India		0.00
07	501110111		٠٠١٦)	154	11 1G1G	10.90	0.00

SOURCE: Wolf, M. J., Emerson, J. W., Esty, D. C., de Sherbinin, A., Wendling, Z. A., et al. (2022). 2022 Environmental Performance Index. New Haven, CT: Yale Center for Environmental Law & Policy. (https://epi.yale.edu)

# 4.1.5 Vulnerable employment

#### Vulnerable employment (% of total employment) $\mid$ 2021

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Qatar		100.00	68	Botswana		71.53
2	Bahrain		98.91	69	Algeria		71.47
3	Kuwait		98.85	70	Mexico		70.78
4 5	United Arab Emirates		98.22	71 72	Cabo Verde		70.39 68.19
6	Oman Belarus		97.37 96.83	72	Armenia Lebanon		67.43
7	Saudi Arabia		96.63	73	Brazil		66.42
8	Norway		96.06	75	Kyrgyzstan		65.42
9	United States of America		95.37	76	Namibia		64.93
10	Germany		95.21	77	Eswatini		64.91
11	Russian Federation		94.30	78	Guatemala		63.36
12	Denmark		94.29	79	El Salvador		62.80
13	Estonia		93.33	80	Uzbekistan		62.71
14	Luxembourg		93.02	81	Philippines		62.59
15	Brunei Darussalam		92.87	82	Jamaica		60.12
16	Bulgaria		92.36	83	Nicaragua		58.70
17	Sweden		92.34	84	Sri Lanka		58.56
18	Croatia		92.02	85	Dominican Republic		57.43
19	Austria		91.85	86	Iran, Islamic Rep		56.35
20	France		91.63	87	Honduras		56.03
21	Japan		91.16	88	China		55.60
22	Hungary	8.12	91.15	89	Paraguay		55.13
23	Latvia		90.98	90	Panama		54.24
24	Iceland	8.32	90.93	91	Morocco	45.63	50.02
25	Israel	8.37	90.88	92	Mongolia	45.88	49.75
26	Singapore	8.47	90.76	93	Georgia	46.18	49.43
27	Jordan	8.53	90.70	94	Cambodia	47.05	48.48
28	Lithuania	9.75	89.36	95	Colombia	47.57	47.90
29	Switzerland	9.90	89.20	96	Indonesia	49.35	45.95
30	Portugal	9.90	89.20	97	Thailand	49.48	45.81
31	Slovenia	10.18	88.89	98	Albania	50.06	45.17
32	Cyprus	10.28	88.78	99	Viet Nam	51.68	43.40
33	Ireland		88.77	100	Lesotho		42.94
34	Canada	10.34	88.71	101	Ecuador	52.24	42.78
35	South Africa	10.47	88.58	102	Peru	52.60	42.39
36	Belgium	10.70	88.32	103	Mauritania	53.05	41.90
37	Australia		88.26	104	Bangladesh		41.21
38	Finland		88.07	105	Pakistan		40.56
39	Spain		87.84	106	Azerbaijan		40.34
40	Malta		87.76	107	Malawi		34.32
41	Slovakia		87.04	108	Kenya		33.66
42	Bosnia and Herzegovina		86.61	109	Angola		32.82
43	Netherlands		86.58	110	Senegal		29.22
44	United Kingdom		86.53	111	Bolivia, Plurinational St		27.67
45	Czech Republic		85.66	112	Rwanda		27.32
46	Montenegro		85.32	113	Zimbabwe		25.80
47	North Macedonia		85.29	114	Ghana		23.49
48	New Zealand		85.17	115	Côte d'Ivoire		22.19
49	Romania		84.79	116	Cambia		20.76
50	Ukraine		84.78	117	Gambia		20.46
51	Mauritius		82.69	118	India		19.13
52 53	PolandItaly		82.68 82.48	119 120	Uganda Zambia		18.85 16.22
54	•		82.31	120	Nepal		15.36
55	Tunisia			121	•		
56	Egypt Trinidad and Tobago		80.17 79.78	123	Lao PDR Congo, Dem. Rep.		15.08 14.36
57	Korea, Rep		79.78	123	Nigeria		13.84
58	Serbia		79.06 78.64	124	Mali		11.57
59	Kazakhstan		77.40	125	Tanzania, United Rep.		10.24
60	Malaysia		77.40 77.12	120	Mozambique		9.50
61	Moldova, Rep.		77.12 76.75	127	Madagascar		7.60
62	Costa Rica		74.89	129	Ethiopia		6.65
63	Chile		74.69 74.50	130	Burkina Faso		5.26
64	Greece		73.25	131	Burundi		4.76
	Türkiye		72.72	132	Benin		3.13
65			14.14	1.32	UCI III I		
65 66	Argentina		72.14	133	Chad		0.72

**SOURCE:** World Development Indicators (<a href="https://datacatalog.worldbank.org/search/dataset/0037712">https://datacatalog.worldbank.org/search/dataset/0037712</a>) based on data obtained from International Labour Organization, ILOSTAT (<a href="https://ilostat.ilo.org/">https://ilostat.ilo.org/</a>)

# 4.2.1 Personal rights

#### Personal rights indicator | 2022

Rank	Country	/alue	Score	Rank	Country	Value	Score
1		8.10	100.00	68	Brazil		72.71
2	Germany	7.75	99.54	69	Tunisia		72.34
3	Finland9		98.51	70	Benin		72.06
4	Luxembourg9		98.20	71	Ukraine		70.44
5	Ireland9	6.70	98.15	72	Mexico	75.71	70.38
6	New Zealand9	6.45	97.82	73	Bolivia, Plurinational St	74.03	68.16
7	Japan9	6.36	97.70	74	Honduras		68.06
8	ltaly9		97.45	75	Bosnia and Herzegovina		67.67
9	Sweden9	5.70	96.83	76	Nepal	73.36	67.28
10	Estonia9	5.65	96.76	77	Kenya	72.84	66.59
11	Norway9	5.63	96.73	78	Nigeria	71.02	64.18
12	Netherlands9	5.57	96.65	79	Lebanon	70.96	64.10
13	Belgium9	5.41	96.44	80	Philippines	70.94	64.07
14	Costa Rica9		96.36	81	Indonesia		62.08
15	Canada9		96.18	82	India	69.13	61.68
16	Iceland9	95.10	96.03	83	Sri Lanka	68.98	61.48
17	Latvia9	4.88	95.74	84	Côte d'Ivoire	68.68	61.08
18	Switzerland9	4.65	95.44	85	Madagascar	68.51	60.86
19	Portugal9		95.32	86	Guatemala		59.97
20	Korea, Rep9		94.55	87	Colombia		57.58
21	Czech Republic9		94.33	88	Tanzania, United Rep	65.57	56.97
22	France9		93.94	89	Mali		56.59
23	Spain9		93.57	90	Singapore		56.31
24	Slovakia9		93.35	91	Kuwait		55.66
25	Austria9		93.10	92	Burkina Faso		55.52
26	Chile9		92.71	92	Malaysia		55.52
27	Australia9		92.67	94	El Salvador		55.40
28	Israel		92.55	95	Jordan		53.35
29	Lithuania		91.84	96	Zambia		53.06
30	Uruguay		91.61	97	Morocco		53.03
31	Cyprus		91.42	98	Mozambique		51.77
32	Malta9		91.36	99	Ethiopia		51.01
33	Greece		91.28	100	Cameroon		49.95
34	United Kingdom9		90.98	101	Kyrgyzstan		48.27
35	Cabo Verde9		89.37	102	Zimbabwe		44.58
36	Argentina8		89.17	103	Angola		44.56
37	South Africa8		89.13	104	Kazakhstan		44.01
38	Croatia		88.76	105	Pakistan		43.06
39	Trinidad and Tobago8		87.96	106	Russian Federation		41.61
40	Panama8		87.92	107	Algeria		40.91
41	Moldova, Rep8		87.31	108	Bangladesh		38.54
42	Jamaica8		86.98	109	Uzbekistan		37.95
43	United States of America8		86.72	110	Mauritania		35.04
44	Mongolia8		85.58	111	Oman		34.78
45	Bulgaria8		85.15	112	Uganda		33.72
46	Dominican Republic8		83.64	113	Chad		32.53
47	Ecuador 8		83.19	114	Rwanda		31.43
48	Romania		82.96	115	Thailand		29.96
49	Slovenia		82.42	116	Congo, Dem. Rep.		29.84
50	Botswana		82.08	117	Viet Nam		28.35
51	Namibia8		81.23	118	Cambodia		28.28
52	Malawi8		80.63	119	Egypt		28.00
53	Montenegro8		80.50	120	United Arab Emirates		25.25
54	Armenia8		80.03	121	Guinea		24.33
55	Peru 8		79.84	122	Azerbaijan		22.46
56	Albania8		79.76	123	Iran, Islamic Rep		21.79
57	Mauritius8		79.64	123	Türkiye		20.74
58	Hungary8		79.62	125	Nicaragua		19.06
59	Lesotho8		79.02	125	Bahrain		16.42
			77.34 77.33				
60 61	Paraguay8 Senegal8		77.33 77.04	127 128	Burundi		16.11
62	Poland 8		76.88	120	Qatar Belarus		15.52 10.19
63	Ghana 8				China		
64	Serbia		76.77 75.81	130 131			9.52 7.22
65	North Macedonia				Eswatini Lao PDR		
			74.83	132	Saudi Arabia		2.37
66 67	Gambia		74.48	133			0.00
67	Georgia7	0.20	73.76		Brunei Darussalam	1/a	n/a

**SOURCE:** Social Progress Imperative, The Social Progress Index 2022 (<a href="https://www.socialprogress.org/">https://www.socialprogress.org/</a>)
For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

# 4.2.2 Personal safety

#### Personal safety indicator | 2022

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Singapore		100.00	68	Costa Rica	64.14	59.24
2	Japan		97.35	69	Mongolia		58.98
3	Spain		96.21	70	Trinidad and Tobago		58.94
4	Switzerland		95.96	71	Cambodia		58.83
5	Iceland	80.88	95.04	72	Lebanon	63.85	58.62
6	Norway	80.76	94.78	73	Paraguay	63.61	58.11
7	Denmark	80.22	93.63	74	Morocco	63.33	57.51
8	Korea, Rep		93.31	75	Peru		57.25
9	Ireland	79.89	92.92	76	Belarus	63.19	57.21
10	Malta	79.87	92.88	77	United Arab Emirates		57.19
11	Austria	79.81	92.75	78	Argentina	62.44	55.60
12	Netherlands	79.73	92.58	79	Philippines	62.09	54.85
13	Germany	79.40	91.87	80	Gambia	61.99	54.64
14	Slovenia	78.92	90.85	81	Senegal	61.78	54.19
15	United Kingdom	78.32	89.56	82	Cabo Verde		53.31
16	Luxembourg		89.46	83	Bahrain		53.23
17	Finland		88.84	83	Honduras	61.33	53.23
18	Sweden	77.96	88.79	85	India	61.08	52.69
19	Portugal	77.55	87.92	86	Algeria	60.50	51.45
20	Croatia	77.52	87.85	87	Ukraine	60.12	50.64
21	France	77.26	87.30	88	Oman	60.05	50.49
22	Cyprus	77.20	87.17	89	Nicaragua	59.20	48.67
23	Italy		86.91	90	Bolivia, Plurinational St		48.14
24	Australia		86.44	91	Guatemala		47.84
25	Estonia		86.16	92	Mexico		47.24
26	Hungary		85.09	93	Egypt		46.54
27	Czech Republic		84.99	94	Russian Federation		45.89
28	Belgium		84.97	95	El Salvador		45.70
29	Poland		84.88	96	Dominican Republic		45.57
30	Canada		83.15	97	Ghana		45.15
31	Albania		82.93	98	Bangladesh		44.91
32	Bosnia and Herzegovina		82.55	99	Nigeria		44.46
33	Lithuania		82.40	100	Ecuador		44.10
34	Israel		82.38	101	Thailand		43.88
35	Romania		81.84	102	Brazil		42.99
36	Armenia		81.44	103	Pakistan		41.96
37	Greece		80.28	103	Lao PDR		41.25
38	North Macedonia		80.20	105	Benin		39.65
39	Slovakia		80.11	106	Iran, Islamic Rep		39.33
40	Serbia		79.70	107	Burkina Faso		38.60
41	Georgia		79.17	108	Côte d'Ivoire		38.24
42	Montenegro		77.72	109	Mauritania		38.15
43	Latvia		76.56	110	Malawi		36.53
44	Mauritius		76.41	111	Madagascar		34.26
45	New Zealand		76.37	112	Saudi Arabia		33.94
46	Bulgaria		75.79	113	Ethiopia		31.31
47	United States of America		75.73	114	Colombia		30.88
48	Kuwait		73.78	115	South Africa		29.79
49	Uzbekistan		73.40	116	Tanzania, United Rep		29.49
50	Azerbaijan		73.14	117	Mozambique		29.06
51	Indonesia		72.60	118	Angola		25.88
52	Moldova, Rep.		70.89	119	Burundi		25.73
53	Jamaica		69.27	120	Mali		25.02
54	Nepal		68.58	121	Botswana		24.72
55	Chile		68.18	122	Namibia		23.72
56	Malaysia		67.02	123	Kenya		23.48
57	Panama		66.96	123	Chad		23.12
58	Jordan		66.75	125	Guinea		17.09
59	Qatar		64.97	125	Cameroon		14.91
59 60			64.39	126	Lesotho		14.91
61	China		63.54	127	Zimbabwe		
	Türkiye			120			13.96
62 63	Viet Nam		63.02		Congo, Dem. Rep		13.71
63 64	Kazakhstan		62.30	130 131	Zambia		13.52 11.16
64 65	Kyrgyzstan		62.04		Rwanda Eswatini		6.44
	Tunisia		62.00	132			
66 67	Uruguay		61.68	133	Uganda		0.00
67	Sri Lanka	04.94	60.95		Brunei Darussalam	1/a	n/a

**SOURCE:** Social Progress Imperative, The Social Progress Index 2022 (<a href="https://www.socialprogress.org/">https://www.socialprogress.org/</a>)
For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

# 4.2.3 Physician density

#### Medical doctors (per 10,000 people) | 2021

Rank	Country	Value	Score	Rank	Country	Value Sc	ore
1	Greece		100.00	68	Colombia		5.95
2	Portugal		88.96	69	Kuwait		5.87
3	Malta		86.88	70	Ecuador		1.88
4	Austria		86.46	71	Malaysia		1.82
5	Georgia	54.05	85.59	72	Kyrgyzstan	21.68 33	3.86
6	Cyprus	53.75	85.12	73	Brazil	21.42 33	3.45
7	Norway		81.82	74	Bosnia and Herzegovina	21.03 32	2.83
8	Uruguay	49.61	78.50	75	Türkiye	20.36 31	1.74
9	Lithuania	49.50	78.33	76	Oman	19.94 31	1.08
10	Slovakia	46.29	73.20	77	Brunei Darussalam	19.13 29	9.78
11	Spain	45.77	72.36	78	Albania		9.30
12	Armenia	45.46	71.86	79	Algeria	17.32 26	5.89
13	Germany		71.43	80	Peru		5.51
14	Switzerland		70.22	81	Panama		5.25
15	Belarus		70.08	82	Iran, Islamic Rep		3.41
16	Finland	43.25	68.34	83	Dominican Republic		2.11
17	Sweden		67.77	84	Guatemala		9.67
18	Denmark	42.64	67.37	85	Tunisia		9.36
19	Bulgaria		65.83	86	Sri Lanka		3.27
20	Czech Republic		65.70	87	Pakistan		5.54
21	Italy		65.16	88	Bolivia, Plurinational St		5.32
22	Australia		64.77	89	Thailand		1.04
23	Ireland		64.14	90	Nepal		3.07
24	Moldova, Rep.		64.06	91	Bahrain		2.67
25	Kazakhstan		63.59	92	Viet Nam		2.52
26	Argentina		61.47	93	South Africa		2.13
27	Iceland		61.41	94	Cabo Verde		1.86
28	Estonia		60.96	95	Philippines		1.78
29	Mongolia		60.90	96	Morocco		0.91
30	Netherlands		60.51	97	India		0.82
31	Russian Federation		60.38	98	Egypt		0.55
32	Poland		58.57	99	Indonesia		0.32
33	Serbia		58.00	100	Bangladesh		9.92
34	Israel		57.61	101	Nicaragua		9.82
35	United States of America		56.03	102	Namibia		3.81
36	New Zealand		55.41	103	Jamaica		3.00
37	Croatia		54.60	104	Honduras		7.03
38	Trinidad and Tobago		53.74	105	Lesotho		5.47
39	Latvia		52.68	106	Nigeria		5.52
40	France		52.33	107	Congo, Dem. Rep.		5.00
41	Hungary		51.80	108	Botswana		1.77
42	Slovenia		51.62	109	Lao PDR		1.43
43	Paraguay		51.03	110	Zambia		3.95
44	Belgium		50.48	111	Kenya		2.82
45	United Kingdom		49.89	112	Guinea		2.76
46	Azerbaijan		48.93	113	Cambodia		2.64
47	Ukraine		47.00	114	Angola		2.58
48	Luxembourg		46.92	115	Madagascar		2.32
49	Romania		46.74	116	Mauritania		2.28
50	Chile		46.73	117	Zimbabwe		2.23
51	El Salvador		45.77	118	Ghana		1.83
52	United Arab Emirates		45.22	119	Côte d'Ivoire		1.76
53	North Macedonia		44.51	120	Uganda		1.74
54	Saudi Arabia		43.78	121	Eswatini		1.44
55	Costa Rica		43.49	122	Cameroon		1.20
56	Montenegro		43.45	123	Mali		1.18
57	Mauritius		41.70	123	Rwanda		1.07
58	Lebanon		41.70	125	Ethiopia		).87
59	Japan		40.99	125	Burkina Faso		).67 ).67
60	Jordan		39.37	120	Senegal		0.56
61	Korea, Rep		39.37	127	Mozambique		).50 ).51
62	Qatar		39.29	120	Gambia		0.45
63	Canada			130	Burundi		0.45
64			38.59 38.22	130			).24
65	Mexico		38.11	132	Benin		0.20
	Singapore						
66 67	China		37.37	133	Tanzania, United Rep		0.00
67	Uzbekistan	25./3	37.13	134	Malawi	0.49	0.00

**SOURCE:** World Health Organization, Global Health Observatory (<a href="https://www.who.int/data/gho">https://www.who.int/data/gho</a>)
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## 4.2.4 Sanitation

#### Population using at least basic sanitation services (%) $\mid$ 2020

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Bahrain	100.00	100.00	68	Colombia	93.68	93.06
1	Chile	100.00	100.00	69	Sri Lanka	93.65	93.03
1	Kuwait	100.00	100.00	70	Paraguay		92.01
1	New Zealand	100.00	100.00	71	Latvia	92.42	91.68
1	Poland	100.00	100.00	72	Mexico	92.42	91.68
1	Qatar	100.00	100.00	73	China	92.38	91.63
1	Saudi Arabia	100.00	100.00	74	Ecuador	91.52	90.70
1	Singapore	100.00	100.00	75	Ireland	91.34	90.49
1	Uzbekistan	100.00	100.00	76	Iran, Islamic Rep	90.27	89.31
10	Australia	99.99	99.99	77	Brazil	90.08	89.11
11	Austria	99.97	99.97	78	Russian Federation	89.39	88.35
12	Malta	99.96	99.96	79	Viet Nam	89.25	88.19
13	Israel	99.95	99.94	80	Morocco	87.25	86.00
14	Korea, Rep	99.94	99.93	81	Dominican Republic	87.18	85.92
15	Japan	99.92	99.91	82	Romania	87.07	85.80
16	Spain	99.90	99.89	83	Jamaica	86.61	85.30
17	Switzerland	99.90	99.89	84	Indonesia	86.46	85.14
18	Italy	99.89	99.87	85	Bulgaria	86.03	84.67
19	United States of America		99.65	86	Algeria	85.97	84.59
20	Portugal	99.60	99.57	87	Georgia	85.77	84.37
21	Denmark	99.60	99.56	88	Panama	84.57	83.06
22	Malaysia	99.58	99.54	89	Honduras	83.78	82.19
23	Belgium	99.49	99.44	90	El Salvador	82.45	80.73
24	Finland	99.45	99.39	91	Philippines	82.26	80.52
25	Cyprus		99.34	92	Botswana		78.07
26	Oman		99.25	93	Lao PDR		77.47
27	Albania		99.23	94	Cabo Verde		77.07
28	Sweden		99.22	95	Moldova, Rep		76.65
29	United Arab Emirates		99.15	96	Peru		76.48
30	Germany		99.15	97	South Africa		76.37
31	Türkiye		99.15	98	Nepal		74.32
32	Lebanon		99.12	99	Nicaragua		70.38
33	Estonia		99.06	100	India		68.46
34	Czech Republic		99.05	101	Rwanda		65.78
35	United Kingdom		99.02	102	Cambodia		65.71
36	Canada		98.94	103	Pakistan		65.31
37	Greece		98.90	104	Guatemala		64.79
38	Iceland		98.66	105	Mongolia		64.59
39	Thailand		98.59	106	Bolivia, Plurinational St		62.41
40	France		98.52	107	Eswatini		60.80
41	North Macedonia		98.16	108	Senegal		52.55
42	Slovenia		97.91	109	Bangladesh		49.68
43	Uruguay		97.86	110	Angola		46.93
44	Norway		97.86	111	Lesotho		45.46
45	Hungary		97.79	112	Mauritania		44.93
46	Costa Rica		97.71	113	Gambia	46.87	41.67
47	Belarus		97.70	114	Burundi		40.42
48	Serbia		97.69	115	Mali		40.05
49	Kyrgyzstan		97.68	116	Cameroon		39.22
50	Kazakhstan		97.66	117	Nigeria	42.72	37.12
51	Montenegro		97.55	118	Mozambique		31.06
52	Ukraine		97.52	119	Namibia		28.93
53	Netherlands		97.46	120	Zimbabwe		28.85
54	Luxembourg		97.36	121	Côte d'Ivoire		28.17
55	Slovakia		97.29	122	Kenya		26.12
56	Tunisia		97.18	123	Zambia		25.24
57	Egypt		97.06	124	Tanzania, United Rep.		25.09
58	Jordan		96.80	125	Guinea		22.91
59	Croatia		96.23	126	Malawi		19.37
60	Brunei Darussalam		95.99	127	Ghana		16.24
61	Azerbaijan		95.75	128	Burkina Faso		14.00
62	Mauritius		95.07	129	Uganda		11.94
63	Argentina		94.97	130	Benin		8.84
64	Bosnia and Herzegovina		94.93	131	Congo, Dem. Rep.		7.11
65	Lithuania		93.34	132	Madagascar		3.73
66	Armenia		93.34	133	Chad		3.46
67	Trinidad and Tobago		93.32	134	Ethiopia		0.00
97			, , , , , ,	13-4	op.o		5.50

**SOURCE:** World Health Organization, Global Health Observatory (<a href="https://www.who.int/data/gho">https://www.who.int/data/gho</a>)
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# Pillar 5

Vocational and Technical Skills

# **5.1.1** Workforce with secondary education

#### Labour force with secondary education (%) $\mid$ 2022

Rank	Country	Value	Score	Rank	Country	Value Sco	ore
1	Uzbekistan	79.70	100.00	68	Norway		3.18
2	Kyrgyzstan		89.01	69	Uganda		.48
3	Czech Republic		86.21	70	South Africa		1.42
4	Bosnia and Herzegovina		84.68	71	Nepal		.04
5	Armenia		83.28	72	Korea, Rep	32.57 40	).55
6	Trinidad and Tobago	65.55	82.16	73	Indonesia	31.70 39.	9.46
7	Slovakia	64.91	81.34	74	Portugal	31.43 39	9.12
8	Azerbaijan	64.86	81.29	75	Nigeria	31.37 39.	9.05
9	Belarus	64.47	80.80	76	Oman	30.11 37	7.45
10	Croatia	64.41	80.72	77	Paraguay	29.17 36	5.27
11	Mauritius	64.31	80.59	78	Luxembourg	27.39 34	1.03
12	Romania	63.34	79.37	79	Uruguay	27.26 33.	.86
13	Montenegro	61.21	76.69	80	Costa Rica		3.50
14	Austria	60.26	75.48	81	Ukraine	26.57 32	2.99
15	Georgia	59.99	75.14	82	Viet Nam	26.28 32	2.63
16	Hungary		73.35	83	Mexico	25.98 32.	2.25
17	Poland		73.25	84	Bolivia, Plurinational St	25.08 31	1.12
18	Brunei Darussalam	58.47	73.23	85	United Arab Emirates	24.80 30	).76
19	Serbia		72.04	86	Spain		0.13
20	Namibia	57.07	71.46	87	Iran, Islamic Rep		0.07
21	Bulgaria	56.11	70.25	88	Thailand		9.73
22	North Macedonia		70.01	89	Kenya	23.44 29.	9.04
23	Moldova, Rep.		67.17	90	Canada		3.82
24	Israel		67.01	91	Türkiye		3.64
25	Jamaica		66.19	92	Jordan		3.39
26	Latvia		65.56	93	Guatemala		3.35
27	Chile		64.80	94	Algeria		3.31
28	Slovenia		63.91	95	Honduras		7.63
29	Germany		63.77	96	Nicaragua		5.57
30	Zimbabwe		61.22	97	Pakistan		5.33
31	Japan		61.06	98	Bangladesh		5.53
32	Estonia		59.96	99	Botswana		1.41
33	Malaysia		59.63	100	Qatar		1.32
34	Lithuania		59.12	101	Gambia		1.00
35	Finland		58.55	102	Zambia		1.00
36	ltaly		58.21	103	Ghana		3.12
37	United States of America		57.96	104	Kazakhstan		2.74
38	Brazil		57.93	105	Lebanon		).98
39	Cabo Verde		57.68	106	Lao PDR		0.80
40	Greece		57.38	107	Angola		9.90
41	Russian Federation		56.18	108	Cameroon		3.20
42	Argentina		54.75	109	Madagascar		7.77
43	Switzerland		53.29	110	Benin		7.66
44	Peru		53.07	111	Morocco		.86
45	France		52.41	112	India		.54
46	New Zealand		51.76	113	Malawi		3.01
47	Denmark		50.80	114	Rwanda		.94
48	Albania		50.39	115	Kuwait		2.39
49	Egypt		50.32	116	Bahrain		.57
50	Australia		50.25	117	Singapore		.05
51	Sweden		50.11	118	Ethiopia		7.16
52	United Kingdom		49.28	119	Mozambique		.88
53	Mongolia		48.74	120	Burundi		5.49
54	Malta		48.52	121	Senegal		5.45
55	Iceland		48.49	122	Chad		5.53
56	Netherlands		47.76	123	Cambodia		.46
57	Cyprus		47.70	124	Côte d'Ivoire		.84
58	Tunisia		46.74	124	Mali		3.32
				125			
59 60	Belgium		46.59 46.54		Burkina Faso		2.55
60 61	Ecuador		46.54	127	Mauritania		2.52
61	Dominican Republic		46.25	128	Tanzania, United Rep		.34
62	Philippines		45.18	129	Guinea		1.12
63 64	El Salvador		45.15	130	Eswatini		).61
64 65	Ireland		44.72	131	Congo, Dem. Rep		0.02
65	Sri Lanka		44.13	132	Lesotho		0.00
66 67	Colombia		43.55		China		n/a
67	Panama	34.6/	43.20		Saudi Arabia	n/a r	n/a

**SOURCE:** International Labour Organization, ILOSTAT (<a href="https://ilostat.ilo.org/">https://ilostat.ilo.org/</a>)

# 5.1.2 Population with secondary education

#### Population with secondary education (%) $\mid$ 2021

Rank	Country	Value	Score	Rank	Country	Value Score
1	Czech Republic		100.00	68	Viet Nam	
2	Slovakia		92.68	69	Congo, Dem. Rep	
3	Azerbaijan		90.27	70	Mexico	
4	Egypt		87.29	71	Uruguay	
5	Poland		85.16	72	Costa Rica	16.38 21.87
6	Sri Lanka	58.66	83.87	73	Honduras	16.07 21.41
7	Georgia	58.47	83.60	74	Dominican Republic	
8	Latvia		81.37	75	Gambia	
9	Bosnia and Herzegovina	55.96	79.92	76	Thailand	14.89 19.69
10	Hungary	55.01	78.53	77	Angola	13.23 17.25
11	Germany		78.20	78	Kuwait	12.69 16.46
12	Slovenia	54.43	77.67	79	Mongolia	10.80 13.69
13	Romania	53.87	76.85	80	Cabo Verde	10.26 12.90
14	South Africa	53.43	76.21	81	Pakistan	7.42 8.73
15	Lithuania		74.73	82	Senegal	
16	Serbia	51.93	74.01	83	Mozambique	
17	Austria	50.80	72.36	84	Mauritania	
18	Switzerland	46.98	66.75	85	Rwanda	
19	Armenia		66.13	86	Madagascar	
20	North Macedonia	46.35	65.82	87	Burundi	
21	Estonia	46.26	65.69	88	Cambodia	3.80 3.43
22	Sweden	43.23	61.25	89	Burkina Faso	3.48 2.95
23	United States of America		60.69	90	Mali	
24	Malaysia		59.92	91	Zimbabwe	
25	Denmark		58.83	92	Philippines	
26	Finland		57.93	93	Uganda	
27	Moldova, Rep.		57.05	94	Tanzania, United Rep	
28	France		56.53		Algeria	
29	Norway		55.80		Argentina	
30	New Zealand		54.27		Bahrain	
31	Greece		54.25		Benin	
32	Chile		51.88		Botswana	
33	Netherlands		51.00		Brunei Darussalam	
34	Korea, Rep		50.86		Bulgaria	
35	ltaly		50.48		Cameroon	
36	Cyprus		50.41		Chad	
37	Belgium		50.13		China	
38	Iceland		49.79		Côte d'Ivoire	
39	Canada		48.89		Croatia	
40	Luxembourg		48.88		Ecuador	
41	Uzbekistan		48.32		Eswatini	
42	Israel		48.25		Ethiopia	
43	Ireland		47.89		Ghana	
44	Belarus		47.78		Guinea	
45	Australia		47.13		India	
46	United Kingdom		45.76		Jamaica	n/a n/a
47	Brazil		45.74		Japan	
48	Albania	32.38	45.33		, Kenya	
49	Peru		45.20		Kyrgyzstan	
50	Colombia		42.75		Lao PDR	
51	Jordan	27.56	38.26		Lebanon	n/a n/a
52	Indonesia	27.07	37.55		Lesotho	n/a n/a
53	Paraguay	26.40	36.56		Malawi	n/a n/a
54	Singapore	26.23	36.32		Mauritius	n/a n/a
55	Iran, Islamic Rep		34.99		Montenegro	n/a n/a
56	El Salvador		33.78		Morocco	
57	Saudi Arabia		33.58		Namibia	
58	Kazakhstan		32.30		Nepal	
59	Malta		31.49		Nicaragua	
60	Panama		30.56		Nigeria	
61	Türkiye		29.24		Oman	
62	Bangladesh		28.93		Qatar	
63	United Arab Emirates		28.66		Russian Federation	
64	Portugal		28.50		Trinidad and Tobago	
65	Spain		26.91		Tunisia	
66	Guatemala		26.46		Ukraine	
67	Bolivia, Plurinational St		25.71		Zambia	

**SOURCE:** UNESCO Institute for Statistics, UIS.Stat (<a href="http://data.uis.unesco.org/">http://data.uis.unesco.org/</a>)

# 5.1.3 Technicians and associate professionals

#### Technicians and associate professionals (%) $\mid$ 2022

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Japan		100.00	68	Honduras		28.67
2	Mauritania		89.83	69	Romania		28.48
3	Singapore		85.72	70	Georgia		28.01
4	Germany		82.15	71	Egypt		27.04
5	Finland		78.28	72	Nicaragua		26.97
6	Denmark		75.79	73	Colombia		26.75
7	Austria		75.06	74	Botswana		26.47
8	Sweden		74.12	75	Türkiye		25.59
9	France		73.53	76	Bahrain		25.10
10	Korea, Rep		71.34	77	Jamaica		24.48
11	Netherlands		70.96	78	Iran, Islamic Rep		22.50
12	United States of America		70.76	79	Namibia		21.98
13	Italy		70.01	80	Cabo Verde		21.87
14	Canada		69.86	81	Dominican Republic		21.39
15	Slovakia		69.78	82	Bolivia, Plurinational St		21.07
16	Switzerland		69.04	83	Kyrgyzstan		20.31
17	Czech Republic		68.01	84	Lebanon		19.67
18	Australia		67.31	85	Tunisia		19.58
19 20	Luxembourg		67.23 64.28	86 87	Albania		19.04 19.03
	Slovenia		64.27	88	Albania Burkina Faso		19.03
21	Hungary		64.17	89			18.40
22 23	Norway Belgium		61.35	90	ThailandGuatemala		17.96
24	Estonia		60.92	91	Armenia		17.90
25	Trinidad and Tobago		60.40	92	Jordan		17.62
25 26	Iceland		58.79	92	Ecuador		17.62
27	Israel		58.33	94	Nepal		16.92
28	Latvia		58.01	95	Moldova, Rep		16.19
29	Poland		57.10	96	Eswatini		16.12
30	Russian Federation		57.10	97	Philippines		16.07
31	Cyprus		55.69	98	Oman		15.46
32	Croatia		55.19	99	Pakistan		15.20
33	Malta		53.95	100	Lesotho		14.25
34	Montenegro		53.93	100	Panama		13.68
35	Saudi Arabia		53.03	102	Gambia		13.04
36	North Macedonia		52.70	103	Morocco		12.60
37	United Kingdom		50.92	104	Mongolia		11.96
38	Ireland		50.14	105	Cameroon		11.17
39	Brunei Darussalam		50.12	106	Congo, Dem. Rep.		11.14
40	Chile		49.84	107	Indonesia		11.12
41	Spain		49.73	108	Benin		10.97
42	Ukraine		48.68	109	Côte d'Ivoire		10.71
43	Portugal		48.62	110	Zambia		10.56
44	Mauritius		45.89	111	Nigeria		8.84
45	United Arab Emirates		45.70	112	Viet Nam		8.62
46	Serbia		43.45	113	India		8.50
47	Argentina		43.10	114	Zimbabwe		8.30
48	Malaysia	10.34	42.53	115	Kenya		8.01
49	Belarus		41.67		Tanzania, United Rep		7.63
50	Lithuania	9.80	40.26	117	Ghana	2.03	7.57
51	Costa Rica		39.82	118	Cambodia		7.54
52	Azerbaijan		38.53	119	Angola	2.01	7.50
53	Bulgaria	9.21	37.77	120	Mali	1.94	7.19
54	Sri Lanka	8.69	35.58	121	Bangladesh	1.86	6.85
55	Qatar	8.32	34.01	122	Uganda		6.16
56	Brazil	8.23	33.64	123	Lao PDR	1.68	6.08
57	South Africa	8.23	33.64	124	Mozambique	1.47	5.20
58	Bosnia and Herzegovina	8.21	33.57	125	Ethiopia	1.28	4.41
59	Kazakhstan		33.43	126	Guinea		3.97
60	Uruguay		31.90	127	Senegal		3.63
61	Paraguay		31.48	128	Rwanda		3.56
62	Kuwait		30.54	129	Madagascar		2.64
63	Peru		30.40	130	Chad		1.55
64	China		29.75	131	Burundi		1.34
65	Mexico		29.70	132	Malawi		0.00
						. /-	
66	Greece		29.39		New Zealand	n/a	n/a

**SOURCE:** International Labour Organization, ILOSTAT (<a href="https://ilostat.ilo.org/">https://ilostat.ilo.org/</a>); World Bank, Global Jobs Indicators Database (JOIN) (<a href="https://datacatalog.worldbank.org/dataset/global-iobs-indicators-database">https://datacatalog.worldbank.org/dataset/global-iobs-indicators-database</a>)

# 5.1.4 Labour productivity per employee

#### Labour productivity per person employed (2022 US\$ PPP) $\mid$ 2022

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Singapore		100.00	68	Belarus		24.49
2	Luxembourg		93.08	69	Armenia		24.02
3	United States of America		82.68	70	Albania		22.25
4	Kuwait		79.74	71	Colombia		21.65
5	Qatar		76.26	72	Tunisia		21.31
6	Norway	145440.85	75.94	73	Botswana	40771.02	19.95
7	Belgium	143992.21	75.17	74	Sri Lanka	40493.47	19.80
8	Switzerland	142709.88	74.48	75	Brazil	39137.08	19.08
9	Saudi Arabia		73.92	76	Thailand		18.36
10	Sweden		69.08	77	China		18.34
11	Denmark		68.71	78	Namibia		17.97
12	Austria	129456.91	67.39	79	Azerbaijan		17.38
13	United Arab Emirates	129455.33	67.39	80	Paraguay	33981.07	16.32
14	France	124693.24	64.84	81	Moldova, Rep	33962.57	16.31
15	Bahrain		64.15	82	Morocco		15.63
16	Netherlands	121263 51	63.01	83	Ukraine		14.08
17			62.39	84			13.87
	Australia				Indonesia		
18	Italy		62.19	85	Peru		13.63
19	Iceland	119110.33	61.86	86	Ecuador	28399.17	13.33
20	Finland	117846.29	61.18	87	Philippines	25544.07	11.80
21	Germany	117353.72	60.92	88	Uzbekistan	24680.78	11.34
22	Canada		59.59	89	Guatemala		11.21
23	United Kingdom		58.86	90	Viet Nam		11.12
	9			91			
24	Israel		57.55		Jamaica		10.22
25	Ireland		56.99	92	India		9.81
26	Spain		56.60	93	Bolivia, Plurinational St		9.58
27	Türkiye	109083.60	56.49	94	Pakistan	20102.35	8.89
28	Malta	106906.48	55.33	95	Bangladesh	18548.72	8.06
29	Cyprus		52.84	96	Angola		7.93
30	Korea, Rep		50.98	97	Côte d'Ivoire		7.57
31	Slovenia		50.46	98	Nigeria		6.72
32	Poland	96975.04	50.02	99	Kyrgyzstan	15616.31	6.49
33	New Zealand	95499.64	49.23	100	Ghana	15158.86	6.25
34	Czech Republic	95377.16	49.16	101	Kenya	15158.21	6.25
35	Lithuania	91313.87	46.99	102	Senegal	14509.69	5.90
36	Estonia		46.35	103	Zambia		5.05
37	Japan		46.19	104	Cameroon		4.90
	·			105			
38	Croatia		45.84		Rwanda		3.16
39	Slovakia		45.44	106	Cambodia		2.83
40	Oman	87141.70	44.76	107	Tanzania, United Rep	8688.26	2.79
41	Portugal	86693.64	44.52	108	Zimbabwe	8489.09	2.68
42	Romania	85333.95	43.79	109	Uganda	7673.99	2.24
43	Hungary	85060.35	43.64	110	Burkina Faso	7603.77	2.21
44	Latvia		42.51	111	Mali		2.02
45	Greece		40.34	112	Ethiopia		1.41
					'		
46	Bosnia and Herzegovina		38.93	113	Malawi		1.25
47	Trinidad and Tobago	74225.61	37.85	114	Chad	5453.13	1.06
48	Malaysia	71987.99	36.65	115	Mozambique	4043.43	0.30
49	Egypt	69895.69	35.53	116	Congo, Dem. Rep	4007.23	0.28
50	Kazakhstan		34.10	117	Madagascar	3477.43	0.00
51	Russian Federation		33.52		Benin		n/a
52	Chile		33.16		Brunei Darussalam		n/a
53	Costa Rica		31.08		Burundi		n/a
54	North Macedonia	61564.96	31.07		Cabo Verde	n/a	n/a
55	South Africa	61283.86	30.92		El Salvador	n/a	n/a
56	Georgia	61134.25	30.84		Eswatini	n/a	n/a
57	Mauritius		30.63		Gambia		n/a
58	Iran, Islamic Rep		30.37		Guinea		n/a
59	Uruguay		30.11		Honduras		n/a
60	Bulgaria		29.52		Lao PDR		n/a
61	Serbia	57352.42	28.82		Lesotho	n/a	n/a
62	Argentina	55008.52	27.57		Mauritania	n/a	n/a
63	=						n/a
	Algeria	51879.53	25.89		Mondolla		
	AlgeriaMexico		25.89 25.72		Mongolia		
64	Mexico	51548.63	25.72		Montenegro	n/a	n/a
64 65	Mexico	51548.63	25.72 25.52		Montenegro Nepal	n/a n/a	n/a n/a
64	Mexico	51548.63 51174.00 50991.85	25.72		Montenegro	n/a n/a n/a	n/a

**SOURCE:** The Conference Board, Total Economy Database™ (<a href="https://www.conference-board.org/data/economydatabase">https://www.conference-board.org/data/economydatabase</a>)

## 5.2.1 Ease of finding skilled employees

Average answer to the question: In your country, to what extent can companies find people with the skills required to fill their vacancies? [1 = not at all; 7 = to a great extent] | 2020

	Country	Value	Score	Rank			Score
1	Iceland		100.00	68	Argentina		54.24
2	Lebanon		99.84	69	Ecuador		54.06
3	Israel		95.08	70	Thailand		53.50
4 5	ChinaSaudi Arabia		93.96	71 72	Japan		51.87 51.53
6			93.70	72	Albania Poland		51.31
7	NorwayUnited Arab Emirates		92.76 92.48	73 74	Botswana		50.63
8	Qatar		91.11	75	Luxembourg		50.46
9	United States of America		90.70	76	Italy		50.40
10			89.29	70	Guatemala		50.00
11	Singapore		87.58	77	Algeria		49.78
12	Jordan		87.27	79	Ukraine		49.18
13	Finland		83.51	80	Tunisia		49.14
14	Korea, Rep		83.13	81	Namibia		48.80
15	Kenya		82.32	82	Dominican Republic		48.35
16	Senegal		82.03	83	Greece		48.27
17	Costa Rica		80.81	84	Pakistan		47.68
18	Bahrain		80.53	85	Mauritius		47.56
19	Belgium		80.51	86	Armenia		46.29
20	Chile		80.47	87	Mexico		46.24
21	Mauritania		79.96	88	Nepal		46.17
22	Malaysia		78.33	89	Kyrgyzstan		45.59
23	Cyprus		77.99	90	Brunei Darussalam		44.76
24	Denmark		77.45	91	Kazakhstan		44.59
25	Netherlands		76.69	92	Eswatini		43.98
26	Oman		76.02	93	Morocco		43.58
27	Azerbaijan		75.56	94	Chad		42.77
28	Switzerland		74.52	95	Mali	3.94	42.71
29	Zambia	4.74	73.50	96	Latvia	3.89 4	40.89
30	Benin		73.16	97	Rwanda	3.89 4	40.77
31	Belarus	4.69	71.88	98	Montenegro	3.87 4	40.22
32	Burundi	4.69	71.58	99	Burkina Faso	3.86	39.71
33	Indonesia	4.66	70.61	100	Iran, Islamic Rep	3.85	39.47
34	Germany	4.65	70.12	101	Malawi	3.85	39.14
35	Egypt	4.64	69.88	102	Estonia	3.83	38.36
36	Portugal	4.64	69.69	103	Madagascar	3.82	37.95
37	Cameroon	4.63	69.56	104	Panama	3.81	37.83
38	Ireland	4.62	68.98	105	Bulgaria	3.80	37.26
39	Côte d'Ivoire	4.61	68.60	106	Nigeria	3.78	36.43
40	Gambia	4.61	68.50	107	Slovakia	3.77	36.37
41	Sweden	4.59	67.86	108	El Salvador	3.73	34.67
42	Tanzania, United Rep	4.59	67.84	109	Malta	3.73	34.64
43	Australia	4.58	67.64	110	Peru		34.55
44	Spain		67.52	111	Bolivia, Plurinational St		33.34
45	Russian Federation		66.38	112	Cambodia		33.18
46	Viet Nam		65.34	113	Lithuania		33.07
47	United Kingdom		64.99	114	Bangladesh		32.27
48	Serbia		64.53	115	South Africa		32.06
49	Kuwait	4.50	64.32	116	Ethiopia		31.25
50	Ghana		64.25	117	North Macedonia		30.30
51	Colombia		63.43	118	India		27.18
52	Uruguay		62.92	119	Paraguay		26.96
53	Sri Lanka		62.87	120	Brazil		26.94
54	Philippines		62.30	121	Nicaragua		26.89
55	Austria		61.75	122	Congo, Dem. Rep.		25.54
56	Cabo Verde		60.84	123	Romania		24.27
57	Trinidad and Tobago		59.67	124	Honduras		23.16
58	Zimbabwe		59.56	125	Lesotho		22.22
59	France		58.84	126	Bosnia and Herzegovina		20.38
60	Uganda		58.81	127	Czech Republic		18.69
61	New Zealand		57.34	128	Mozambique		17.60
62	Jamaica		56.76	129	Hungary		16.33
63	Lao PDR		56.49	130	Croatia		15.49
64	Guinea		55.89	131	Moldova, Rep.		14.23
65	Slovenia		55.74	132	Angola		8.94
66	Türkiye		55.13	133	Mongolia		0.00
67	Georgia	4.26	55.08		Uzbekistan	n/a	n/a

**SOURCE:** World Economic Forum, Executive Opinion Survey 2019–2020 (<a href="https://www.weforum.org/publications">https://www.weforum.org/publications</a>)

## 5.2.2 Relevance of education system to the economy

Average answer to the question: In your country, how well does the education system meet the needs of a competitive economy? [1 = not well at all; 7 = extremely well] | 2022

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Switzerland		100.00	68	Serbia		41.34
2	Finland		90.55	69	Egypt		41.22
3	Singapore		89.24	70	Mauritius		40.95
4	Ireland		87.41	71	Ethiopia		40.61
5	United States of America	5.55	87.07	72	Hungary	3.71	39.95
6	Saudi Arabia	5.35	81.89	73	Cambodia	3.71	39.95
7	United Arab Emirates	5.33	81.35	74	Russian Federation	3.69	39.61
8	Albania		81.26	75	Uganda	3.66	38.78
9	Qatar	5.29	80.41	76	Moldova, Rep	3.65	38.36
10	China	5.24	79.23	77	Namibia	3.64	38.31
11	Denmark	5.23	78.79	78	Kuwait	3.64	38.28
12	Indonesia	5.22	78.64	79	Philippines	3.64	38.23
13	Netherlands	5.12	75.97	80	India	3.63	37.95
14	Botswana		75.66	81	Uruguay		37.93
15	Canada	5.07	74.76	82	Thailand		37.29
16	Sweden	5.06	74.44	83	Côte d'Ivoire	3.58	36.58
17	Norway	5.01	73.20	84	Nepal	3.58	36.55
18	Australia	5.00	72.92	85	Trinidad and Tobago	3.54	35.70
19	Belgium	4.89	70.17	86	Algeria		34.69
20	Azerbaijan	4.87	69.73	87	Colombia	3.49	34.48
21	United Kingdom		68.59	88	Cameroon	3.47	33.88
22	Benin		68.02	89	Chile	3.46	33.68
23	Lebanon		67.96	90	Senegal	3.45	33.38
24	Iceland		67.81	91	Eswatini	3.32	30.10
25	Luxembourg		65.79	92	Spain	3.32	29.96
26	Brunei Darussalam	4.65	63.96	93	Montenegro		29.83
27	Austria		63.59	94	Greece		29.77
28	Portugal		63.54	95	Tunisia	3.30	29.53
29	Jordan		63.28	96	Romania		28.60
30	Estonia		62.43	97	Bangladesh		27.25
31	Oman		62.10	98	Poland		26.40
32	Viet Nam	4.54	61.18	99	Armenia		25.27
33	Gambia		59.97	100	South Africa		24.88
34	Uzbekistan		59.37	101	Kyrgyzstan		24.74
35	Bahrain		59.36	102	Chad		24.65
36	Korea, Rep		58.98	103	Ecuador		24.58
37	Malaysia		58.96	104	Slovakia		22.95
38	Germany		58.55	105	Kazakhstan		22.91
39	Georgia		58.39	106	North Macedonia		22.21
40	Italy		57.79	107	Guinea		22.15
41	Czech Republic		56.87	108	Argentina		21.57
42	Israel		56.29	109	Türkiye		20.89
43	Jamaica	4.22	53.06	110	Mongolia		20.52
44	Malta	4.20	52.45	111	Mexico		20.42
45	Kenya	4.16	51.49	112	Brazil	2.94	20.35
46	Ghana	4.15	51.12	113	Morocco	2.93	20.10
47	France	4.13	50.74	114	Croatia	2.91	19.42
48	Slovenia	4.12	50.57	115	Nigeria	2.88	18.72
49	Cyprus		50.38	116	Mali		18.69
50	Cabo Verde	4.11	50.22	117	Lesotho	2.86	18.23
51	Pakistan	4.08	49.40	118	Burkina Faso	2.80	16.78
52	Zimbabwe	4.05	48.79	119	Madagascar	2.76	15.82
53	Sri Lanka	4.03	48.27	120	Peru	2.70	14.19
54	Zambia	4.01	47.62	121	Bolivia, Plurinational St	2.70	14.05
55	Lao PDR	3.99	47.05	122	Iran, Islamic Rep	2.70	14.05
56	Bulgaria	3.96	46.33	123	Dominican Republic	2.65	12.98
57	Japan	3.95	46.13	124	El Salvador	2.57	10.82
58	New Zealand	3.88	44.43	125	Congo, Dem. Rep	2.56	10.63
59	Belarus	3.87	44.14	126	Mauritania		10.16
60	Ukraine		44.08	127	Guatemala		9.88
61	Malawi		43.90	128	Panama		8.80
62	Tanzania, United Rep		43.90	129	Bosnia and Herzegovina		8.57
63	Latvia		43.02	130	Mozambique		6.59
64	Rwanda		42.92	131	Honduras		6.48
65	Burundi	3.78	41.89	132	Paraguay		2.27
66	Costa Rica	3.78	41.84	133	Angola		1.69
67	Lithuania	3.77	41.63	134	Nicaragua	2.15	0.00

**SOURCE:** World Economic Forum, Executive Opinion Survey 2021–2022 (<a href="https://www.weforum.org/publications">https://www.weforum.org/publications</a>)

# 5.2.3 Skills matching

#### Workers whose education matches their occupation (%) $\mid$ 2022

Rank	Country	Value	Score	Rank	Country	Value	Score
1	Moldova, Rep		100.00	68	Ecuador		58.84
2	Armenia		94.09	69	Indonesia		58.13
3	Romania		93.36	70	Botswana		57.94
4	Montenegro		89.59	71	Thailand		57.53
5	Luxembourg	70.80	88.91	72	Colombia	47.13	57.13
6	Croatia	70.52	88.54	73	Bolivia, Plurinational St	46.79	56.68
7	Georgia	69.99	87.82	74	Korea, Rep		56.55
8	Hungary		87.40	75	Trinidad and Tobago		56.24
9	Bulgaria	69.42	87.06	76	El Salvador	45.77	55.30
10	Poland	69.27	86.86	77	Paraguay	45.64	55.14
11	Jamaica	68.94	86.42	78	Cabo Verde	44.91	54.15
12	Czech Republic		86.33	79	Philippines		53.74
13	Slovenia		85.63	80	Namibia		51.51
14	Lithuania		83.05	81	Nepal		51.06
15	Bosnia and Herzegovina		81.36	82	Kenya		49.77
16	Norway		81.27	83	Jordan		47.94
17	Slovakia		81.17	84	India		46.15
18	Mongolia		80.27	85	Cambodia		44.82
19	Iceland		80.05	86	Madagascar		43.00
20	Austria		79.75	87	Guatemala		42.30
21	Greece		79.59	88	Uganda		42.02
22	Malta		79.16	89	Egypt		41.79
23	Israel		78.63	90	Bangladesh		41.58
24				91	Nicaragua		41.46
	Sweden		78.49		Panama		
25	Finland		77.81	92 93			40.83
26	North Macedonia		77.57		Tunisia		40.25
27	Latvia		77.25	94	Lao PDR		40.23
28	Switzerland		76.90	95	Honduras		39.91
29	Denmark		76.89	96	Pakistan		39.19
30	Portugal		76.28	97	Congo, Dem. Rep.		38.40
31	Serbia		75.69	98	Cameroon		37.10
32	Belgium		75.56	99	Angola		31.52
33	Australia		75.42	100	Nigeria		31.08
34	Spain		75.27	101	Gambia		27.03
35	Ireland		75.11	102	Guinea		25.29
36	France	60.36	74.90	103	Senegal	22.14	23.57
37	Estonia		74.89	104	Ethiopia	21.03	22.09
38	Italy	60.24	74.73	105	Benin	15.27	14.35
39	Russian Federation	60.08	74.52	106	Mozambique	14.84	13.77
40	Chile	59.94	74.34	107	Chad	13.52	12.00
41	Argentina	59.65	73.94	108	Côte d'Ivoire	9.59	6.72
42	Uruguay	59.23	73.37	109	Tanzania, United Rep	8.81	5.69
43	Netherlands	58.96	73.02	110	Burkina Faso	5.98	1.88
44	Germany	58.63	72.57	111	Mali	4.58	0.00
45	Brazil	57.50	71.05		Algeria	n/a	n/a
46	Cyprus	56.61	69.86		Azerbaijan	n/a	n/a
47	United Kingdom	56.27	69.41		Bahrain	n/a	n/a
48	Zimbabwe		69.28		Belarus	n/a	n/a
49	Mexico	55.84	68.83		Burundi	n/a	n/a
50	Dominican Republic		68.68		Canada	n/a	n/a
51	Costa Rica	54.88	67.53		China	n/a	n/a
52	United States of America	54.83	67.47		Japan	n/a	n/a
53	United Arab Emirates	54.46	66.98		Kazakhstan	n/a	n/a
54	Ghana	54.35	66.82		Kuwait	n/a	n/a
55	Brunei Darussalam		66.81		Kyrgyzstan		n/a
56	Iran, Islamic Rep		66.52		Malawi		n/a
57	Mauritius		64.35		Malaysia		n/a
58	Rwanda		64.23		Mauritania		n/a
59	Albania		63.96		Morocco		n/a
60	Lebanon		61.93		New Zealand		n/a
61	Eswatini		60.91		Oman		n/a
62	Lesotho		60.12		Peru		n/a
63	Türkiye		60.01		Qatar		n/a
64	Zambia		59.99		Saudi Arabia		n/a
65	South Africa		59.95		Singapore		n/a
66	Viet Nam		59.95		Ukraine		n/a
67	Sri Lanka		59.73		Uzbekistan		n/a
07	JII EUI INU		22.13		OZDCNI3tui I	11/a	11/d

**SOURCE:** International Labour Organization, ILOSTAT (<a href="https://ilostat.ilo.org/">https://ilostat.ilo.org/</a>)
For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

# 5.2.4 Highly educated unemployment

#### Unemployment rate with intermediate or advanced education (%) | 2022

ank	Country	Value	Score	Rank	Country	Value	Score
1	Chad		100.00	68	Congo, Dem. Rep		74.60
2	Benin		99.87	69	Cyprus		74.49
3	Malawi		97.65	70	Bolivia, Plurinational St		74.3
4	Mali		97.11	71	Ethiopia		73.96
5	Moldova, Rep		97.04	72	Burundi		73.74
6	Cambodia		95.71	73	Italy		73.0
7	China		94.08	74	Côte d'Ivoire		72.80
8	Madagascar		93.96	75	Argentina		72.3
9	Thailand		93.73	76	Chile		72.0
10	Viet Nam		92.74	77	Nicaragua		71.65
11	Czech Republic		92.42	78	Mongolia		71.2
12	Korea, Rep		91.07	79	Sri Lanka		71.2
13	Malta		90.93	80	Mauritius		70.3
14	Germany		90.60	81	Brazil		70.2
15	Norway		90.19	82	Kenya		69.42
16	Guinea		90.17	83	Bangladesh		68.6
17	Trinidad and Tobago		90.16	84	Cameroon		68.0
18	Philippines		89.66	85	Ukraine		67.3
19	Poland		89.59	86	Honduras		66.3
20	Hungary		89.51	87	Dominican Republic		66.20
21	Azerbaijan		89.44	88	Zambia		66.08
22	United Kingdom		89.38	89	Armenia		65.89
23	Netherlands		88.67	90	Egypt		65.73
24	Singapore		88.61	91	Serbia		65.20
25	United States of America		88.56	92	Panama		64.4
26	Switzerland		88.02	93	Zimbabwe		63.7
27	Mozambique		87.74	94	Senegal		63.2
28	Belarus		87.47	95	Georgia		60.64
29	Bulgaria		87.20	96	Colombia		59.94
30	Australia		86.75	97	India		59.68
31	Lao PDR		86.73	98	Spain		59.4
32	Mexico		86.43	99	Pakistan		59.39
33	Austria		86.38	100	Lesotho		58.70
34	Denmark		85.88	101	Albania		58.70
35	Romania		85.30	102	Costa Rica		58.40
36	Russian Federation		85.11	103	Iran, Islamic Rep		57.8
37	Slovenia		84.97	104	Bosnia and Herzegovina		56.22
38	Luxembourg		84.76	105	Saudi Arabia		56.07
39	Israel		84.62	106	Morocco		55.59
40	Canada		84.41	107	Türkiye		54.98
41	Peru		84.39	108 109	Nepal		54.06 53.94
42 43	Brunei DarussalamUnited Arab Emirates		84.32		North Macedonia		
	Iceland		83.95	110	Lebanon		52.26
44 45	Paraguay		83.44 83.42	111 112	Mauritania Greece		51.18 50.5
	2 ,				Eswatini		
46 47	Ghana Belgium		83.25 82.87	113			48.20 47.13
47 48	2		82.87	114 115	Nigeria		42.33
40	Estonia Uzbekistan		82.15 81.79	116	Montenegro Jordan		29.42
49 50	Sweden		81.79	117			29.4.
51				117	Tunisia		
	Slovakia		81.45		Rwanda		25.88
52 53	Uruguay		81.36 81.33	119	Namibia		22.79
	Ecuador		81.33	120	Botswana		20.15
54	Ireland		80.68	121	South Africa		6.55
55	Indonesia		80.57	122	Gambia		3.86
56 57	Guatemala		80.13	123	Kazakhstan		0.44
57	Kyrgyzstan		80.00	124	Angola		0.00
58	Jamaica		79.68		Algeria		n/a
59	El Salvador		78.87		Bahrain		n/a
60	Finland		78.16		Burkina Faso		n/a
61	Uganda		78.10		Cabo Verde		n/a
62	Portugal		77.55		Japan		n/
63	Lithuania		76.87		Kuwait		n/
			76.54		Malaysia	n/a	n /-
64	France				-		n/a
	Latvia	6.94	75.99 74.91		New Zealand	n/a	n/a n/a

SOURCE: International Labour Organization, ILOSTAT (https://ilostat.ilo.org/); World Bank, Global Jobs Indicators Database (JOIN) (https://datacatalog.worldbank.org/dataset/global-

# Pillar 6 Global Knowledge Skills

# **6.1.1** Workforce with tertiary education

#### Labour force with tertiary education (%) $\mid$ 2022

Rank	Country	Value	Score	Rank	Country	Value Sco	ore
1	Kazakhstan	81.55	100.00	68	Peru	22.47 27.	.37
2	Canada	68.92	84.47	69	Kyrgyzstan	22.33 27	7.19
3	Singapore	61.42	75.25	70	Tunisia		.84
4	Korea, Rep	54.67	66.96	71	Egypt	20.77 25.	.28
5	Ukraine	54.55	66.81	72	Costa Rica	20.41 24.	.84
6	Luxembourg	54.29	66.49	73	Mexico	20.18 24.	.55
7	Ireland	51.93	63.59	74	Mauritius	20.10 24.	.45
8	Japan	50.99	62.43	75	Bosnia and Herzegovina	19.34 23.	.51
9	Russian Federation	50.57	61.91	76	Uzbekistan		.36
10	United States of America	50.34	61.63	77	Moldova, Rep	18.75 22.	.80
11	Belgium	50.08	61.31	78	Oman	18.72 22.	.75
12	Cyprus	49.44	60.53	79	Algeria	18.65 22.	.66
13	Lithuania	48.76	59.69	80	Panama	17.54 21.	.31
14	Australia	46.46	56.87	81	Thailand	17.53 21.	.29
15	Norway	45.87	56.14	82	Zimbabwe	16.25 19.	.72
16	Sweden	45.13	55.22	83	Nigeria	16.13 19.	.57
17	France	44.41	54.35	84	Jamaica		.81
18	United Kingdom	44.41	54.35	85	South Africa	15.39 18.	.67
19	Spain		53.47	86	Eswatini		.05
20	Slovenia	42.33	51.79	87	Ecuador	14.84 17.	.99
21	Switzerland	42.18	51.61	88	Paraguay	14.62 17.	.71
22	Estonia	41.90	51.26	89	Viet Nam		.49
23	Netherlands		50.60	90	Uruguay		.27
24	Finland		50.31	91	Cabo Verde		7.17
25	Mongolia		49.96	92	India		7.13
26	Latvia		49.41	93	Dominican Republic		.30
27	Albania		48.33	94	Indonesia		.18
28	Denmark		48.27	95	Namibia		.76
29	United Arab Emirates		48.21	96	Guinea		
30	Iceland		47.86	97	Nicaragua		
31	Israel		46.55	98	Bahrain		
32	Greece		46.11	99	Pakistan		
33	New Zealand		45.89	100	Morocco		
34	Poland		45.06	101	Nepal		
35	Portugal		41.61	102	Lao PDR		
36	Georgia		41.53	103	El Salvador		.99
37	Belarus		41.51	104	Zambia		.50
38	Malta		41.12	105	Guatemala		.95
39	Lebanon		40.78	106	Uganda		.79
40	Bulgaria		39.56	107	Gambia		.47
41	Germany		39.45	108	Rwanda		.35
42	Botswana		38.37	109	Ghana		.04
43	Hungary		37.67	110	Honduras		.94
44	Slovakia		37.45	111	Bangladesh		.68
45	Montenegro		36.82	112	Cameroon		.46
46	Colombia		36.40	113	Sri Lanka		.45
47	Armenia		35.83	114	Cambodia		.25
48	Iran, Islamic Rep		35.48	115	Lesotho		.03
49	Malaysia		35.03	116	Congo, Dem. Rep.		.42
50	Croatia		34.90	117	Côte d'Ivoire		.96
51	North Macedonia		34.89	118	Benin		.86
52	Türkiye		34.10	119	Madagascar		.64
53	Azerbaijan		33.96	120	Kenya		.15
54	Qatar		33.71	121	Senegal		.57
55	Czech Republic		32.38	122	Mauritania		.27
56	Serbia		31.69	123	Angola		.83
57	Philippines		30.29	123	Chad		.54
58	Argentina		30.17	125	Burkina Faso		.30
59	Chile		29.93	125	Mali		.50
60	Jordan		29.93	120	Mozambique		.28
61	Brazil		29.64	127	Burundi		.20
62	ltaly		28.37	120	Malawi		.74
63	Romania		28.21	130			.19
64	Austria		28.04	131	Ethiopia Tanzania, United Rep		.19
65	Kuwait		27.86	132	Trinidad and Tobago		.00
66	Brunei Darussalam		27.70	132	China		.00 n/a
67	Bolivia, Plurinational St		27.70		Saudi Arabia		1/a 1/a
U/	טטוויטם, ו ועווווומנוטוומו אנוויטע , ו ווייטע	22.09	Z1.U4		2000 Alania	11/d [	1/ d

**SOURCE:** International Labour Organization, ILOSTAT (<a href="https://ilostat.ilo.org/">https://ilostat.ilo.org/</a>)

# **6.1.2 Population with tertiary education**

#### Population with tertiary education (%) | 2021

Rank	Country	Value	Score	Rank	Country	Value Score
1	Kazakhstan		100.00	68	Viet Nam	
2	Uzbekistan		83.00	69	Bosnia and Herzegovina	
3	Belarus		81.71	70	Albania	
4	United Arab Emirates		70.34	70	Indonesia	
5	Canada		66.46	72	Bangladesh	
6	Singapore		64.59	73	Honduras	
7	United States of America		64.27	74	El Salvador	
8	United Kingdom		63.10	75	Cabo Verde	
9	Israel		62.87	76	Zimbabwe	
10	Australia	46.45	62.01	77	Congo, Dem. Rep	
11	Armenia	43.32	57.68	78	Uganda	8.15 9.01
12	Korea, Rep	40.30	53.50	79	Gambia	7.50 8.11
13	Switzerland	39.66	52.61	80	Egypt	6.17 6.27
14	Estonia	39.50	52.39	81	Cambodia	5.49 5.34
15	Norway	39.23	52.02	82	Sri Lanka	5.03 4.69
16	Iceland	38.73	51.32	83	Madagascar	4.71 4.25
17	Cyprus	38.63	51.19	84	Guatemala	4.51 3.97
18	Saudi Arabia		50.21	85	Pakistan	
19	Denmark		49.96	86	Rwanda	
20	Netherlands		48.54	87	Senegal	
21	Ireland		48.46	88	Mauritania	
22			48.44	89		
23	New Zealand			90	Burkina Faso	
			48.21		Angola	
24	Belgium		47.27	91	Mali	
25	Luxembourg		45.16	92	Mozambique	
26	Moldova, Rep		45.02	93	Tanzania, United Rep	
27	Mongolia		44.98	94	Burundi	
28	Sweden	34.03	44.81		Algeria	n/a n/a
29	Latvia	33.98	44.75		Argentina	
30	Georgia	33.70	44.36		Bahrain	n/a n/a
31	Spain	33.44	44.01		Benin	n/a n/a
32	France	32.17	42.25		Botswana	n/a n/a
33	Bolivia, Plurinational St	31.48	41.29		Brunei Darussalam	n/a n/a
34	Lithuania	29.88	39.08		Bulgaria	n/a n/a
35	Austria	29.87	39.06		Cameroon	n/a n/a
36	Germany	28.90	37.73		Chad	
37	Slovenia		37.19		China	
38	Poland		36.81		Côte d'Ivoire	
39	Philippines		36.68		Croatia	
40	Greece		34.83		Ecuador	
41	Panama		34.70		Eswatini	
42	Azerbaijan		32.88		Ethiopia	
43	Malta		32.79		Ghana	
44	Hungary		32.33		Guinea	
45	Iran, Islamic Rep		29.65		India	
46	Slovakia		29.61		Jamaica	
47	Jordan		29.13		Japan	
48	Portugal	22.55	28.93		Kenya	n/a n/a
49	Colombia	22.54	28.92		Kyrgyzstan	n/a n/a
50	Costa Rica	22.29	28.58		Lao PDR	n/a n/a
51	Chile	22.04	28.23		Lebanon	n/a n/a
52	Dominican Republic	21.97	28.14		Lesotho	n/a n/a
53	North Macedonia		28.12		Malawi	
54	Peru		28.05		Mauritius	
55	Serbia		27.76		Montenegro	
56	Czech Republic		26.81		Morocco	
57			26.47		Namibia	
58	Türkiye Thailand		25.92		Nepal	
					•	
59	Malaysia		25.81		Nicaragua	
60	Mexico		23.71		Nigeria	
61	Kuwait		23.34		Oman	
62	Italy		20.66		Qatar	
63	Brazil		20.63		Russian Federation	
64	South Africa	16.26	20.24		Trinidad and Tobago	
65	Paraguay	15.93	19.78		Tunisia	n/a n/a
66	Romania	15.31	18.92		Ukraine	n/a n/a
67	Uruguay	13.70	16.69		Zambia	n/a n/a

**SOURCE:** UNESCO Institute for Statistics, UIS.Stat (<a href="http://data.uis.unesco.org/">http://data.uis.unesco.org/</a>)

## 6.1.3 Professionals

#### Professionals (%) | 2022

	Country	Value	Score	Rank	,	Value 9
1	Luxembourg		100.00	68	Saudi Arabia	
2	Sweden		75.56	69	Kuwait	
3	Netherlands		72.05	70	Argentina	
4	Israel		69.38	71	Algeria	
5	Norway		66.13	72	Mexico	
6	Denmark	27.90	64.28	73	Mauritius	
7	Lithuania	27.45	63.25	74	Moldova, Rep	
8	Slovenia	26.91	62.02	75	Jamaica	8.78 2
9	Belgium	26.63	61.35	76	Cabo Verde	8.26
10	United Kingdom	26.40	60.83	77	Botswana	8.13
11	Finland	26.31	60.62	78	Tunisia	7.98 1
12	Russian Federation	26.18	60.32	79	Paraguay	7.95
13	Switzerland	25.79	59.42	80	Nepal	7.84 1
14	Ireland	25.72	59.27	81	Dominican Republic	7.73
15	Iceland	25.24	58.15	82	Nigeria	7.71
16	Estonia	24.44	56.32	83	Namibia	7.64
17	Portugal	23.88	55.03	84	Bahrain	
18	France		52.81	85	Ecuador	
19	Singapore		52.27	86	Peru	
20	United States of America		52.27	87	Bolivia, Plurinational St	
21	Kazakhstan		52.23	88	Sri Lanka	
22	Australia		51.51	89	Trinidad and Tobago	
23	Germany		51.23	90	Kenya	
24	Belarus		50.92	91	Lesotho	
25	Greece		50.35	92	Gambia	
25 26	Cyprus		48.69	93	El Salvador	
	7.			93	South Africa	
27	Poland		48.57			
28	Austria		48.45	95	Indonesia	
29	Malta		48.23	96	Ghana	
30	Korea, Rep		48.04	97	Thailand	
31	Latvia		47.45	98	Burkina Faso	
32	Spain		44.46	99	Guatemala	
33	Japan		43.77	100	Philippines	
34	Hungary	18.83	43.38	101	Guinea	
35	Canada	18.73	43.15	102	India	
36	Montenegro	18.63	42.94	103	Nicaragua	5.16 ·
37	Czech Republic	18.51	42.64	104	Pakistan	5.08
38	Jordan	18.29	42.14	105	Oman	5.06
39	Romania	18.20	41.93	106	Cameroon	5.04
40	Bulgaria	18.11	41.73	107	Lao PDR	5.03
41	Ukraine	18.01	41.50	108	Panama	5.00
42	Croatia	17.62	40.60	109	Viet Nam	4.85
43	North Macedonia	17.25	39.75	110	Bangladesh	4.82
44	Mongolia	17.02	39.23	111	Zimbabwe	4.74
45	Slovakia	15.80	36.42	112	Congo, Dem. Rep	4.66
46	Lebanon	15.76	36.31	113	Rwanda	4.58
47	Chile		36.06	114	Zambia	
48	Italy		34.68	115	Angola	
49	Brunei Darussalam		34.51		Morocco	
50	United Arab Emirates		33.89	117	Côte d'Ivoire	
51	Bosnia and Herzegovina		33.39	118	China	
52	Uruquay		33.25	119	Senegal	
53	Serbia		33.19	120	Honduras	
54	Georgia				Benin	
	2		29.69	121		
55	Azerbaijan		29.01	122	Malawi	
6	Malaysia		28.77	123	Cambodia	
57	Egypt		28.46	124	Ethiopia	
8	Albania		28.35	125	Uganda	
59	Türkiye		28.11	126	Madagascar	
50	Brazil		27.99	127	Mozambique	
51	Eswatini	11.94	27.51	128	Chad	2.04
52	Armenia	11.38	26.22	129	Burundi	1.98
53	Iran, Islamic Rep	11.34	26.14	130	Mali	1.52
54	Kyrgyzstan	11.13	25.64	131	Tanzania, United Rep	0.83
55	Colombia		25.58	132	Mauritania	
56	Qatar		25.42		New Zealand	n/a
	Costa Rica		25.04		Uzbekistan	

**SOURCE:** International Labour Organization, ILOSTAT (<a href="https://ilostat.ilo.org/">https://ilostat.ilo.org/</a>); World Bank, Global Jobs Indicators Database (JOIN) (<a href="https://datacatalog.worldbank.org/dataset/global-jobs-indicators-database">https://datacatalog.worldbank.org/dataset/global-jobs-indicators-database</a>)

## 6.1.4 Researchers

#### Full-time equivalent researchers (per million population) $\mid$ 2021

Rank		lue	Score	Rank	Country	Value	Score
1	Korea, Rep8713		100.00	68	Uzbekistan		5.89
2	Sweden7930		91.00	69	Chile		5.74
3	Denmark7691		88.26	70	South Africa		5.44
4	Finland7527		86.37	71	Bosnia and Herzegovina		5.02
5	Singapore7286		83.61	72	Pakistan		4.74
6	Norway6698		76.85	73	Ecuador		4.47
7	Iceland6088		69.83	74	Indonesia		4.42
8	Netherlands5911		67.81	75	Bahrain		4.12
9	New Zealand 5853		67.14	76	Mexico		3.89
10	Austria5751		65.96	77	Costa Rica		3.84
11	Belgium5750		65.95	78	Mongolia		3.68
12	Switzerland5551	.97	63.67	79	Oman		3.15
13	Japan5454	.68	62.55	80	India	252.70	2.78
14	Germany	.15	61.85	81	Honduras	189.92	2.06
15	Portugal5214	.85	59.80	82	Botswana	185.21	2.01
16	Slovenia4932	.33	56.55	83	Philippines	173.64	1.87
17	France	.19	56.48	84	Kuwait	173.51	1.87
18	Luxembourg4920	.30	56.41	85	Namibia	149.47	1.60
19	United States of America4821	.23	55.28	86	Eswatini	142.34	1.51
20	Ireland	.14	54.68	87	Paraguay	129.83	1.37
21	United Kingdom4683	.77	53.70	88	Cabo Verde	123.49	1.30
22	Canada4516	.30	51.77	89	Sri Lanka	105.61	1.09
23	Hungary4357	.92	49.95	90	Zimbabwe	99.52	1.02
24	Czech Republic4127	.93	47.31	91	Ethiopia	90.53	0.92
25	Greece	.34	45.96	92	Ghana	89.11	0.90
26	Estonia	5.11	44.07	93	Colombia	88.02	0.89
27	Lithuania	.48	42.72	94	El Salvador	72.98	0.72
28	Poland		37.66	95	Rwanda		0.55
29	Slovakia		36.24	96	Chad		0.54
30	Spain		35.60	97	Gambia		0.49
31	Russian Federation2721		31.15	98	Mozambique		0.37
32	Italy2671		30.58	99	Panama		0.33
33	United Arab Emirates2488		28.48	100	Madagascar		0.27
34	Bulgaria2402		27.48	101	Cambodia		0.23
35	Malta		26.27	102	Mali		0.23
36	Serbia		25.51	103	Uganda		0.20
37	Croatia		25.39	104	Lesotho		0.16
38	Latvia2158		24.68	105	Burundi		0.15
39	Thailand		23.66	106	Tanzania, United Rep.		0.10
40	Türkiye		20.28	107	Angola		0.09
41	Azerbaijan174		19.88	108	Guatemala		0.04
42	Cyprus		19.31	109	Congo, Dem. Rep.		0.00
43	Iran, Islamic Rep1659		18.95	.05	Albania		n/a
44	Georgia		18.54		Armenia		n/a
45	Tunisia		18.51		Australia		n/a
46	China		18.09		Bangladesh		n/a
47	Belarus 1417		16.17		Benin		n/a
48	Argentina		14.09		Bolivia, Plurinational St		n/a
49	Morocco		12.21		Brunei Darussalam		n/a
50	Romania952		10.83		Burkina Faso		n/a
51	Qatar 902		10.05		Cameroon		n/a
52 53	Brazil		10.08		Côte d'Ivoire		n/a n/a
	371		9.69		Dominican Republic		
54	Algeria		9.29		Guinea		n/a
55	Uruguay		9.02		Israel		n/a
56	Moldova, Rep		8.93		Jamaica		n/a
57	Viet Nam		8.57		Kenya		n/a
58	North Macedonia		8.53		Kyrgyzstan		n/a
59	Montenegro746		8.46		Lao PDR		n/a
60	Malaysia		8.39		Lebanon		n/a
61	Saudi Arabia700		7.93		Malawi		n/a
62	Trinidad and Tobago638		7.22		Mauritania		n/a
63	Kazakhstan629		7.12		Nepal		n/a
64	Jordan595		6.73		Nicaragua		n/a
65	Ukraine587		6.63		Nigeria		n/a
66	Mauritius567	.98	6.40		Peru	n/a	n/a
67	Senegal564	34	6.36		Zambia	n/a	n/a

**SOURCE:** UNESCO Institute for Statistics, UIS.Stat (<a href="http://data.uis.unesco.org/">http://data.uis.unesco.org/</a>)

# 6.1.5 Senior officials and managers

## Legislators, senior officials, and managers (%) $\mid$ 2022

	Country	Value	Score	Rank	Country	Value	Score
1	Nigeria		100.00	68	Cabo Verde		20.19
1	Singapore		100.00	69	Thailand		19.88
3	Australia		77.65	70	Zambia		19.86
4	Iceland		76.73	71	Serbia		19.47
5	United Kingdom		71.17	72	Algeria		18.65
6	United States of America		70.53	73	North Macedonia		18.49
7	Malta		69.48	74	Mexico		18.26
8	Trinidad and Tobago		64.45	75	Romania		17.88
9	Latvia		60.85	76	Iran, Islamic Rep		17.64
10	Belarus		56.56	77	Burkina Faso		17.52
11	Lithuania		56.11	78	Tunisia		17.50
12	Ireland		56.01	79	Cameroon		17.28
13	United Arab Emirates		55.95	80	Mauritius		17.20
14	Botswana		52.12	81	Saudi Arabia		17.13
15	Switzerland		49.63	82	Greece		16.99
16	Canada		48.92	83	Armenia		16.46
17	Bahrain		48.56	84	Denmark		16.05
18	Norway		48.43	85	Congo, Dem. Rep		15.00
19	Ukraine		48.38	86	Bosnia and Herzegovina		14.73
20	Philippines		48.00	87	Pakistan		14.68
21	South Africa		47.79	88	Uruguay		14.55
22	Jamaica		47.11	89	Qatar		14.47
23	Belgium		46.29	90	Zimbabwe		14.43
24	Israel	7.67	45.99	91	Panama		14.07
25	Estonia	7.67	45.95	92	Finland	2.26	13.16
26	France		42.53	93	Honduras	2.25	13.04
27	Oman	6.93	41.49	94	Lesotho	2.15	12.43
28	Lao PDR	6.88	41.18	95	Dominican Republic	2.14	12.42
29	Lebanon	6.83	40.90	96	Indonesia	2.08	12.04
30	Mongolia	6.67	39.88	97	Nicaragua	1.99	11.52
31	Poland	6.63	39.65	98	Eswatini	1.99	11.48
32	Sweden	6.49	38.83	99	Bolivia, Plurinational St	1.92	11.05
33	Colombia	6.49	38.81	100	Kyrgyzstan	1.87	10.78
34	Sri Lanka	6.40	38.27	101	Japan	1.84	10.60
35	Brunei Darussalam	6.37	38.10	102	Ghana	1.69	9.69
36	Portugal	6.25	37.34	103	Bangladesh	1.64	9.35
37	Kazakhstan	6.07	36.26	104	Korea, Rep	1.55	8.79
38	Slovakia	5.68	33.91	105	El Salvador	1.38	7.78
39	Russian Federation	5.50	32.81	106	Albania	1.30	7.29
40	Türkiye	5.44	32.40	107	Azerbaijan	1.25	7.00
41	Malaysia	5.40	32.22	108	Nepal	1.14	6.35
42	Bulgaria	5.31	31.62	109	Angola	1.07	5.89
43	India	5.30	31.61	110	Cambodia	1.00	5.50
44	Netherlands	5.27	31.40	111	Guatemala	0.92	4.99
45	Montenegro	5.24	31.21	112	Rwanda	0.87	4.70
46	Austria	5.15	30.68	113	Ecuador	0.86	4.66
47	Czech Republic	5.14	30.60	114	Costa Rica	0.81	4.34
48	Kenya	5.12	30.50	115	Guinea	0.80	4.25
49	China	5.00	29.76	116			3.99
50	Namibia	4.98	29.66	117	Viet Nam		3.47
51	Georgia		29.36	118	Morocco		3.16
52	Paraguay		29.30	119	Gambia		2.93
53	Argentina		28.83	120	Malawi		2.75
54	Mauritania		28.08	121	Uganda		2.62
55	Kuwait		27.98	122	Ethiopia		2.60
56	Moldova, Rep.		27.72	123	Côte d'Ivoire		2.30
57	Luxembourg		26.84	124	Peru		1.74
58	Hungary		26.05	125	Tanzania, United Rep.		1.55
59	Spain		25.87	126	Mozambique		1.50
60	Croatia		25.26	127	Senegal		1.08
61	Slovenia		25.20	127	Benin		1.06
62	Chile		24.58	129	Jordan		0.97
63	Germany		24.38	130	Burundi		0.76
64	Cyprus		22.45	131	Chad		0.76
65	ltaly		22.43	132	Mali		0.74
	reary		44.40	132	(*)Q()		0.00
66	Egypt	2 75	22.19		New Zealand	n/s	n/a

**SOURCE:** International Labour Organization, ILOSTAT (https://ilostat.ilo.org/); World Bank, Global Jobs Indicators Database (JOIN) (https://datacatalog.worldbank.org/dataset/global-iobs-indicators-database)

# 6.1.6 Digital skills

# Individuals with advanced ICT skills (%) $\mid$ 2021

Rank	Country	Value	Score	Rank	Country	Value Sc
1	Brunei Darussalam	22.34	100.00	68	Romania	1.24 5
2	Saudi Arabia	19.99	89.45	69	Bulgaria	1.14 5
3	United Arab Emirates	19.24	86.10	70	Georgia	1.05 4
4	Tunisia	15.06	67.39	71	Jamaica	1.05 4
5	Bahrain	15.02	67.23	72	Thailand	1.00 4
6	Kuwait	14.65	65.55	73	Zimbabwe	1.00 4
7	Denmark	13.02	58.28	74	Russian Federation	0.98 4
8	Malaysia	11.80	52.83	75	Iran, Islamic Rep	0.92 4
9	Norway	11.64	52.11	76	Ukraine	0.75 3
10	Chile	11.56	51.72	77	Azerbaijan	0.66 2
11	Iceland	11.54	51.63	78	Côte d'Ivoire	0.63 2
12	Sweden	10.23	45.78	79	Viet Nam	0.60 2
13	Morocco	9.70	43.42	80	Cambodia	0.15 0
14	Finland	9.14	40.93	81	Philippines	0.00 0
15	Egypt	9.11	40.77		Angola	n/a ı
16	Switzerland		40.23		Argentina	
17	United Kingdom		40.17		Armenia	
18	Luxembourg		38.72		Australia	
19	Austria		38.56		Bangladesh	
20	Netherlands		36.28		Benin	
21	Singapore		36.00		Bolivia, Plurinational St	
22	Oman		35.95		Burkina Faso	
23	Portugal		34.87		Burundi	
24	Korea, Rep		34.56		Cameroon	
25	Malta		33.30		Canada	
26	Spain		32.20		Chad	
27	Mexico		32.15		China	
28	Algeria		30.85		Congo, Dem. Rep.	
29	Estonia		30.83		Costa Rica	
30	Dominican Republic		30.20		El Salvador	
31	Ireland		29.84			
					Eswatini	
32	Kazakhstan		27.25		Ethiopia	
33	Italy		27.01		Gambia	
34	Colombia		26.95		Ghana	
35	France		25.44		Guatemala	
36	Croatia		25.31		Guinea	
37	Montenegro		25.19		Honduras	
38	Qatar		23.62		India	
39	Cabo Verde		23.60		Israel	
40	Ecuador		22.73		Jordan	
41	South Africa		22.54		Kenya	
42	Slovenia		22.51		Kyrgyzstan	
43	Germany		22.48		Lao PDR	
44	North Macedonia		22.13		Lebanon	
45	Czech Republic		21.58		Madagascar	
46	Belgium		21.40		Malawi	
47	Botswana		21.33		Mali	
48	Lithuania		21.32		Mauritania	
49	Poland		20.96		Moldova, Rep	
50	Greece		19.65		Mozambique	
51	Slovakia	4.07	18.19		Namibia	
52	Cyprus	3.90	17.46		Nepal	n/a ı
53	Hungary	3.85	17.22		New Zealand	n/a ı
54	Albania	3.63	16.24		Nicaragua	n/a ı
55	Indonesia	3.52	15.73		Nigeria	n/a ı
56	Serbia	3.45	15.42		Panama	n/a ı
57	Lesotho		14.77		Paraguay	
58	Peru	3.25	14.57		Rwanda	
59	Mongolia		14.55		Senegal	
60	Latvia		13.82		Sri Lanka	
61	Mauritius		13.61		Tanzania, United Rep	
62	Türkiye		12.69		Trinidad and Tobago	
63	Brazil		11.83		Uganda	
64	Japan		9.82		United States of America	
65	Bosnia and Herzegovina		9.42		Uruguay	
	=				= :	
66	Belarus	1.59	7.11		Uzbekistan	n/a ı

SOURCE: International Telecommunication Union (ITU), World Telecommunication/ICT Indicators Database, August 2022 (https://www.itu.int/itu-d/sites/statistics/) For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

# **6.2.1 Innovation output**

## Innovation Output Sub-Index | 2022

Rank	Country	Value	Score	Rank		Value	Score
1	Switzerland		100.00	68	Pakistan		30.36
2	Sweden		91.91	69	Colombia		29.87
3	United Kingdom		90.26	70	Costa Rica		29.70
4	Korea, Rep		88.78	70	Montenegro		29.70
5	United States of America		88.28	72	Armenia		29.37
6	Netherlands		86.80	73	Indonesia		29.21
7	Germany		86.47	74	Bosnia and Herzegovina		28.55
8	China		85.81	75	Uruguay		27.72
9	Finland		79.54	76	North Macedonia		27.39
10	Denmark		79.21	77	Jordan		27.06
11	France		79.04	78	Kenya		26.90
12	Japan		73.76	79	Panama		26.73
13	Malta		73.10	80	Peru		25.58
14	Singapore		70.63	81	Egypt		24.92
15	Italy		69.64	81	Georgia		24.92
16	Israel	43.20	69.47	83	Paraguay	14.50	22.11
17	Iceland	43.00	69.14	84	Bahrain	14.30	21.78
18	Luxembourg	42.10	67.66	84	Madagascar		21.78
19	Ireland	41.30	66.34	86	Oman	14.10	21.45
20	Cyprus	41.10	66.01	87	Ghana	13.80	20.96
21	Austria	40.70	65.35	88	Albania	13.60	20.63
22	Estonia	39.70	63.70	89	Bangladesh	12.90	19.47
23	Canada	39.00	62.54	90	Uzbekistan	12.80	19.31
24	Belgium	38.50	61.72	91	Dominican Republic	12.70	19.14
25	Spain	37.40	59.90	92	Zimbabwe	12.30	18.48
26	Czech Republic	37.30	59.74	93	Botswana	11.20	16.67
27	New Zealand	37.20	59.57	94	El Salvador	11.10	16.50
28	Bulgaria	36.90	59.08	94	Guatemala	11.10	16.50
28	Norway	36.90	59.08	96	Kazakhstan	11.00	16.34
30	Portugal	35.70	57.10	97	Ecuador	10.90	16.17
31	Australia	35.00	55.94	98	Tanzania, United Rep	10.10	14.85
32	Türkiye	34.50	55.12	99	Ethiopia		14.69
33	Hungary	32.80	52.31	100	Cambodia	9.60	14.03
34	Slovenia	30.90	49.17	101	Trinidad and Tobago	9.50	13.86
35	Poland	30.80	49.01	102	Senegal	8.90	12.87
36	Malaysia	29.40	46.70	103	Côte d'Ivoire		12.21
37	Iran, Islamic Rep	29.20	46.37	104	Kyrgyzstan	8.40	12.05
38	India		46.20	104	Nigeria		12.05
39	Croatia	28.50	45.21	106	Azerbaijan	7.60	10.73
40	Viet Nam	28.40	45.05	106	Nepal	7.60	10.73
41	Latvia	28.30	44.88	108	Nicaragua	7.40	10.40
42	Romania	27.70	43.89	109	Namibia	7.30	10.23
43	Thailand	27.60	43.73	110	Cameroon	7.20	10.07
44	Slovakia	27.50	43.56	111	Zambia	7.10	9.90
45	Moldova, Rep	26.90	42.57	112	Honduras	7.00	9.74
46	Lithuania	26.60	42.08	113	Angola	6.80	9.41
47	Ukraine	26.40	41.75	114	Algeria	6.70	9.24
48	Greece	26.10	41.25	114	Mozambique		9.24
49	Russian Federation	26.00	41.09	116		6.60	9.08
50	Philippines	25.70	40.59	116	Uganda	6.60	9.08
51	United Arab Emirates		39.11	118	Lao PDR		8.25
52	Brazil		38.94	119	Rwanda		7.76
53	Mauritius		38.61	120	Burkina Faso		7.10
53	Mexico		38.61	121	Guinea		3.47
55	Morocco		38.45	122	Brunei Darussalam		3.30
56	Chile		38.28	123	Burundi		2.31
57	Serbia		37.29	124	Benin		0.99
58	Tunisia		35.81	125	Mauritania		0.00
59	Jamaica		35.31	123	Bolivia, Plurinational St		n/a
60	South Africa		34.65		Cabo Verde		n/a
61	Argentina		33.83		Chad		n/a
62	Belarus		33.50		Congo, Dem. Rep.		n/a
63	Mongolia		33.33		Eswatini		n/a
64	Saudi Arabia		31.68		Gambia		n/a
65	Kuwait		31.52		Lebanon		n/a
	TWO YOUT	∠0.∠0					
66	Qatar	20.10	31.35		Lesotho	n/a	n/a

**SOURCE:** INSEAD, Cornell University, and World Intellectual Property Organization, *The Global Innovation Index 2022: What is the future of innovation-driven growth?* (https://www.globalinnovationindex.org)

# 6.2.2 High-value exports

# High-technology exports (% of manufactured exports) $\mid$ 2021

k	Country	Value	Score	Rank	Country	Value	Sc
1	Philippines		100.00	68	Greece		10
1	Singapore		100.00	69	Luxembourg		10
3	Malaysia		93.51	70	Armenia		1(
4	Viet Nam		75.49	71	South Africa		10
5	Korea, Rep		64.56	72	Belarus		9
5	Iceland		60.53	73	Mali		9
7	Malta		59.92	74	Bosnia and Herzegovina		9
8	Kazakhstan		59.21	75	Guatemala		
9	China		54.13	76	Rwanda		9
0	Israel		53.47	77	Ecuador		3
1	Thailand		49.98	78	Peru		8
2	Angola		48.73	79	Bolivia, Plurinational St		8
3	Ireland		46.09	80	Ukraine		
4	United Kingdom		43.06	81	Bahrain		
5	Lao PDR		41.80	82	Argentina		
5	Australia		40.41	83	Morocco		
7	Mongolia		39.74	84	North Macedonia		
3	Netherlands		39.61	85	Türkiye		
9	France		39.56	86	Kenya		
)	Norway		37.24	87	Malawi		
	Estonia		37.21	88	Egypt	2.84	
2	Czech Republic		36.61	89	Benin		
,	United States of America	19.89	35.88	90	Zimbabwe	2.38	
ļ	Mexico	19.80	35.72	91	Jamaica	2.36	
5	Belgium	18.34	33.06	92	Cambodia	2.28	
)	Japan	17.98	32.41	93	Burkina Faso	2.26	
,	Latvia	16.96	30.56	94	Moldova, Rep	2.24	
3	Hungary	16.26	29.29	95	Lebanon	2.15	
)	New Zealand	16.26	29.29	96	Uganda	2.10	
	Cyprus	15.96	28.75	97	Azerbaijan	2.10	
	Kyrgyzstan	15.73	28.34	98	Mauritania	2.05	
2	Costa Rica	15.68	28.25	99	Honduras	1.96	
3	Germany	15.23	27.42	100	Senegal	1.88	
1	Canada	14.97	26.95	101	Qatar	1.71	
5	Switzerland	14.24	25.63	102	Tanzania, United Rep	1.68	
,	Sweden	13.93	25.07	103	Georgia	1.61	
7	Austria	13.78	24.79	104	Jordan	1.54	
3	Denmark	13.67	24.60	105	Pakistan	1.49	
9	Ethiopia	13.10	23.56	106	Zambia	1.36	
)	Chile		22.37	107	Kuwait	1.35	
	Lithuania		20.68	108	Brunei Darussalam		
)	Romania	11.49	20.64	109	Nicaragua		
3	Bulgaria		20.29	110	Ghana	1.14	
ļ	Côte d'Ivoire		20.18	111	Nepal		
	Finland		18.48	112	Sri Lanka		
	India	10.21	18.33	113	Mozambique		
	Uruguay		17.51	114	Algeria		
,	Russian Federation		17.38	115	Guinea		
	Croatia		17.15	116	Gambia		
)	Montenegro		16.94	117	Madagascar		
	Poland		16.94	118	Cabo Verde		
	Spain		16.84	119	Iran, Islamic Rep		
	Slovakia		16.14	120	Saudi Arabia		
	Brazil		16.13	121	Congo, Dem. Rep.		
	United Arab Emirates		16.06	121	Namibia		
	Dominican Republic		15.20	123	Mauritius		
	Colombia		14.70	123	Eswatini		
	ltaly		14.68	125	Botswana		
	Paraguay		13.27	126	Uzbekistan		
)	El Salvador		13.17	127	Bangladesh		
	Indonesia		12.87	128	Albania		
	Tunisia		12.81	129	Panama		
3	Cameroon		12.55	130	Burundi		
	Oman		11.80	131	Lesotho		
,	Slovenia		11.70	132	Trinidad and Tobago		
5	Nigeria		11.58		Chad		

**SOURCE:** World Bank, World Development Indicators (<a href="https://datacatalog.worldbank.org/search/dataset/0037712">https://datacatalog.worldbank.org/search/dataset/0037712</a>). Sourced from United Nations, Comtrade database through the World Integrated Trade Solution (WITS) platform (https://wits.worldbank.org/).

# **6.2.3 Software development**

# GitHub commits (per 1,000 population) $\mid$ 2021

	Country	Value	Score	Rank	Country		Score
1	Singapore		100.00	68	Peru		58.91
2	Switzerland		94.61	69	Türkiye		58.56
3	Luxembourg		93.24	70	Mongolia		57.43
4	Norway		91.79	71	Kyrgyzstan		56.54
5	United States of America		91.59	72	Indonesia		56.39
6	Sweden		90.66	73	Kenya		55.81
7	Finland		90.47	74	South Africa		55.69
8	Iceland		90.43	75	Cabo Verde		55.61
9	Netherlands		90.34	76	Trinidad and Tobago		54.82
10	Israel		89.48	77	Mexico		54.68
11	Canada		89.19	78	Ecuador		54.18
12	Ireland		88.81	79	Dominican Republic		53.96
13	Estonia		88.17	80	El Salvador		53.65
14	Czech Republic		88.03	81	Thailand		53.39
15	Belgium		87.72	82	Kazakhstan		53.07
16	Germany		87.24	83	Nepal		53.02
17	Denmark		87.03	84	Guatemala		53.01
18 19	United Kingdom		86.34 86.14	85	Algeria		52.36 52.19
20	New Zealand		85.21	86 87	Bolivia, Plurinational St		51.76
21			84.44	88	Philippines Azerbaijan		51.26
22	Austria		83.93	89	-		51.20
23	Croatia		83.84	90	Jamaica Panama		50.67
24	France		83.56	91	China		50.65
25	Malta		82.75	92	Oatar		50.42
26	Hungary		82.66	93	Morocco		49.33
27	Korea, Rep		82.38	94	Paraguay		47.20
28	Lithuania		81.32	95	Bangladesh		46.74
29	Latvia		80.65	96	Saudi Arabia		45.99
30	Spain		80.21	97	Egypt		45.82
31	Poland		79.97	98	Cambodia		45.77
32	Belarus		79.95	99	Kuwait		45.50
33	Portugal		79.11	100	Nigeria		45.20
34	Bulgaria		77.51	101	Rwanda		45.13
35	Slovakia		76.25	102	Honduras		45.03
36	Japan		75.57	103	Ghana		42.76
37	Ukraine		75.54	104	Iran, Islamic Rep		42.67
38	Greece		75.26	105	Uzbekistan		42.48
39	ltaly		73.61	106	Nicaragua		42.43
40	Russian Federation		72.44	107	Pakistan		42.37
41	Cyprus		72.09	108	Oman		42.04
42	Romania		71.35	109	Botswana		40.91
43	Sri Lanka		71.23	110	Uganda		38.48
44	Serbia		71.20	111	Cameroon		37.20
45	Uruguay		71.15	112	Senegal		36.00
46	Moldova, Rep.	6.00	70.17	113	Eswatini	3.03 3	34.24
47	Costa Rica	5.99	70.01	114	Benin	2.87 3	32.29
48	Armenia	5.92	69.16	115	Zimbabwe	2.80 3	31.39
49	Brazil	5.88	68.66	116	Lao PDR		29.68
50	Argentina	5.76	67.20	117	Zambia	2.59 2	28.83
51	Lebanon		66.08	118	Madagascar		28.19
52	North Macedonia	5.62	65.54	119	Gambia	2.51 2	27.94
53	Bosnia and Herzegovina	5.60	65.22	120	Côte d'Ivoire	2.51 2	27.92
54	Georgia	5.55	64.64	121	Congo, Dem. Rep	2.38 2	26.38
55	Montenegro	5.51	64.15	122	Angola	2.35 2	25.93
56	Chile	5.44	63.41	123	Ethiopia	2.29 2	25.32
57	United Arab Emirates	5.43	63.26	124	Tanzania, United Rep	2.28 2	25.12
58	Albania	5.40	62.86	125	Lesotho	2.04 2	22.19
59	Mauritius	5.39	62.75	126	Malawi	1.92 2	20.75
60	Colombia	5.33	62.01	127	Mozambique	1.78 1	19.07
61	Tunisia	5.29	61.49	128	Mauritania	1.76	18.86
62	Viet Nam	5.29	61.48	129	Burundi	1.59 1	16.84
63	Malaysia	5.26	61.22	130	Guinea	1.12	11.16
64	Jordan	5.15	59.78	131	Burkina Faso	1.10 1	10.86
65	Brunei Darussalam	5.10	59.20	132	Mali	1.03 1	10.02
	India	5.09	59.07	133	Chad	0.20	0.00
66	111010		33.07	155	Namibia		0.00

**SOURCE:** GitHub (<a href="https://github.com/">https://github.com/</a>). Data on population are sourced from World Bank, World Development Indicators (<a href="https://datacatalog.worldbank.org/search/">https://datacatalog.worldbank.org/search/</a> dataset/0037712)

# 6.2.4 New business density

## New corporate registrations (per 1,000 working-age population) $\mid$ 2020

	Country	Value	Score	Rank		Value So
1	Estonia		100.00	68	Poland	
1	United Kingdom		100.00	69	Kenya	
3	Botswana		99.32	70	Albania	
4	New Zealand		98.77	71	Oman	
5	Luxembourg		94.93	72	Dominican Republic	
6	Australia		78.78	73	Lesotho	
7	Cyprus		73.21	74	Bulgaria	
8	Cabo Verde	13.04	71.99	75	Germany	1.36
9	South Africa	12.50	68.96	76	Nepal	1.36
10	Chile	12.11	66.80	77	Azerbaijan	1.30
11	Iceland	10.44	57.55	78	Thailand	1.29
12	Malta	10.05	55.43	79	Kyrgyzstan	1.27 <i>6</i>
13	Denmark	10.02	55.22	80	Belarus	1.14
14	Singapore	9.99	55.06	81	Zambia	1.07
15	Norway	9.44	52.05	82	Bosnia and Herzegovina	1.01
16	Sweden		49.48	83	Brunei Darussalam	
17	China		47.29	84	Nigeria	
18	Montenegro		43.77	85	Ghana	
19	Georgia		41.14	86	Uganda	
20	Mauritius		38.83	87	Mexico	
21	Latvia		37.90	88	Côte d'Ivoire	
22	Ireland		37.30	89	Sri Lanka	
				90		
23	Qatar		34.45		Saudi Arabia	
24	Romania		34.28	91	Iran, Islamic Rep	
25	Mongolia		32.54	92	Benin	
26	Finland		32.32	93	Guatemala	
27	Portugal		29.98	94	Namibia	
28	France		28.86	95	Cambodia	
29	Slovakia	5.13	28.17	96	Austria	
30	Belgium		25.62	97	Ethiopia	
31	Switzerland	4.64	25.46	98	Bolivia, Plurinational St	0.51
32	Trinidad and Tobago	4.54	24.89	99	Senegal	0.47
33	Croatia	4.44	24.36	100	Guinea	0.45
34	Eswatini	4.36	23.91	101	Japan	0.45
35	Panama	4.22	23.15	102	Jordan	0.43
36	Hungary	4.01	22.00	103	El Salvador	0.42
37	Peru	3.80	20.80	104	Mauritania	0.38
38	Czech Republic	3.79	20.79	105	Algeria	0.35
39	Costa Rica	3.61	19.78	106	Indonesia	0.33
40	Kazakhstan		19.10	107	Burkina Faso	
41	North Macedonia		18.92	108	Mali	
42	Kuwait		17.98	109	Egypt	
43	Bahrain		17.00	110	Mozambique	
44	Netherlands		16.96	111	Canada	
45	Israel		16.76	112	Philippines	
46	Lithuania		16.22	113	Argentina	
47			16.17	114		
	Italy		15.59		Tanzania, United Rep	
48 49	Armenia			115	India	
	Brazil		14.92	116	Lao PDR	
50	Uzbekistan		14.80	117	Pakistan	
51	Spain		13.60	118	Madagascar	
52	Zimbabwe		13.49	119	Chad	
53	Slovenia		13.20	120	Paraguay	
54	United Arab Emirates		12.49	121	Bangladesh	
55	Uruguay		12.46	122	Congo, Dem. Rep	
56	Russian Federation		12.27		Angola	
57	Morocco	2.24	12.18		Burundi	n/a
58	Rwanda	2.17	11.77		Cameroon	n/a
59	Malaysia	2.13	11.58		Ecuador	n/a
60	Tunisia		10.85		Gambia	
61	Serbia		10.82		Honduras	
62	Jamaica		10.75		Korea, Rep	
	Colombia		10.66		Lebanon	
b۲			9.61		Malawi	
63 64	THIRIVE					
64	Türkiye					
	GreeceUkraine	1.76	9.50 9.08		Moldova, Rep	n/a

**SOURCE:** World Bank, Entrepreneurship Database (https://www.worldbank.org/en/programs/entrepreneurship)
For some countries, the latest year for which data are available may differ from the year that appears at the top of the page. The cut-off year is 2012.

# **6.2.5** Scientific journal articles

## Number of scientific and technical journal articles (per 10,000 inhabitants) $\mid$ 2020

Rank	Country	Value	Score	Rank	Country	Value Score
1	Switzerland		100.00	68	Morocco	
2	Denmark		98.34	69	Egypt	
3	Norway		92.29	70	Georgia	
4	Australia		88.85	71	Ecuador	
5	Singapore		80.46	72	Mexico	
6	Sweden		79.11	73	Kazakhstan	
7	Finland		76.69	74	Mauritius	
8	Netherlands		71.63	75	Trinidad and Tobago	
9	Iceland		69.85	76	Belarus	
10	Slovenia		68.14	77	Algeria	
11	New Zealand		66.06	78	Costa Rica	
12	Canada		64.82	79	Botswana	
13	Ireland		64.29	80	Indonesia	
14	Portugal		62.15	81	India	
15	United Kingdom		58.90	82	Moldova, Rep.	
16	Austria		57.50	83	Azerbaijan	
17	Israel		56.68	84	Viet Nam	
18	Luxembourg		56.22	85	Sri Lanka	
19	Belgium		55.19	86	Peru	
20	ltaly		53.78	87	Namibia	
21	Czech Republic		52.45	88	Pakistan	
22	Korea, Rep		52.34	89	Jamaica	
23	Spain		51.86	90	Ghana	
24	United States of America		51.46	91	Mongolia	
25	Germany		49.22	92	Panama	
26	Estonia		49.19	93	Albania	
27	Cyprus		44.91	94	Nepal	
28	Croatia		44.38	95	Cameroon	
29	Greece		43.86	96	Uzbekistan	
30	Malta		38.25	97	Nigeria	
31	Slovakia		37.15	98	Cabo Verde	
32	France		36.81	99	Ethiopia	
33	Lithuania		36.66	100	Kenya	
34	Poland		36.30	100	Zimbabwe	
35	Qatar		31.80	102	Bangladesh	
36	Japan		29.93	103	Kyrgyzstan	
37	Latvia		28.92	104	Eswatini	
38	Hungary		28.69	105	Philippines	
39	Serbia		25.70	106	Senegal	
40	Iran, Islamic Rep		24.75	107	Paraguay	
41	Malaysia		24.65	108	Benin	
42	Brunei Darussalam		24.29	109	Gambia	
43	Russian Federation		23.35	110	Uganda	
44	Bulgaria		22.21	111	Rwanda	
45	Türkiye		18.94	112	Lesotho	
46	Romania		18.84	113	Malawi	
47	Montenegro		18.61	114	Tanzania, United Rep	
48	Saudi Arabia		17.99	115	Zambia	
49	United Arab Emirates		17.88	116	Bolivia, Plurinational St	
50	China		17.74	117	Lao PDR	
51	Chile		17.39	118	Burkina Faso	
52	Tunisia		15.87	119	Honduras	
53	Lebanon		14.97	120	Cambodia	
54	Bahrain		12.45	121	Côte d'Ivoire	
55	Brazil		12.31	122	Dominican Republic	
56	Jordan		12.08	123	Guatemala	
57	Ukraine		10.81	124	Madagascar	
58	Bosnia and Herzegovina		10.49	125	Nicaragua	
59	Uruquay		10.45	126	Mozambique	
60	South Africa		10.08	127	Mali	
61	Kuwait		9.84	128	Mauritania	
62	Oman		8.90	129	Guinea	
63	Argentina		8.00	130	Burundi	
64	Armenia		7.97	131	El Salvador	
65	North Macedonia		7.69	132	Congo, Dem. Rep.	
66	Thailand		7.28	133	Angola	
67	Colombia		6.80	134	Chad	
٠,				.5 1		

**SOURCE:** World Bank, World Development Indicators based on National Science Foundation, Science and Engineering Indicators; population data come from World Bank, World Development Indicators (<a href="https://datacatalog.worldbank.org/search/dataset/0037712">https://datacatalog.worldbank.org/search/dataset/0037712</a>)

# Appendices

# **Appendix I: Technical Notes**

## Audit by the Joint Research Centre of the **European Commission**

The Joint Research Centre (JRC) of the European Commission has conducted extensive research on the development of composite indicators, most notably publishing the Handbook on Constructing Composite Indicators: Methodology and User Guide in collaboration with the Organisation for Economic Co-operation and Development (OECD). For the tenth consecutive edition of the Global Talent Competitiveness Index (GTCI), the GTCI development team engaged the JRC to conduct an audit. This exercise has provided external validation and further improved the statistical analyses to ensure the consistency and rigour of the

A preliminary audit was carried out by the JRC in July 2023, following which a final audit was completed in August-September 2023. The results and report of the final audit can be found in Chapter 2.

## **Composite Indicators**

The GTCI framework builds on six pillars: (1) Enable, (2) Attract, (3) Grow, (4) Retain, (5) Vocational and Technical Skills, and (6) Global Knowledge Skills. Each pillar consists of two to three sub-pillars. Each sub-pillar is composed of three to seven indicators. Each sub-pillar score is derived from the simple arithmetic average of its individual indicators. The successive arithmetic aggregation continues at the pillar level.

Overall, the GTCI includes three indices:

- The Talent Competitiveness Input sub-index is the simple average of the first four pillars.
- The Talent Competitiveness Output sub-index is the simple average of the last two pillars.
- The Global Talent Competitiveness Index is the simple average of the six pillars.

#### **Individual Indicators**

The GTCI 2023 model includes 69 indicators, which fall into the following categories:2

- 1. Hard/quantitative data (34 indicators)
- 2. Index/composite indicator data (17 indicators)
- 3. Survey/qualitative data (18 indicators)

#### Hard Data

The 34 indicators based on hard data were drawn from a variety of public sources, such as the United Nations Educational, Scientific and Cultural Organization (UNESCO), the International Labour Organization (ILO), the World Bank, the OECD, and The Conference Board. Most indicators were already scaled at their source and therefore did not need to be re-scaled.

#### **Indices**

The 17 indicators measured as indices come from sources such as the World Bank (the World Governance Indicators and the Women, Business and the Law report series) and Transparency International. They also come from other composite indicators such as the Social Progress Index, the Global Innovation Index (Cornell, INSEAD, and the World Intellectual Property Organization), and the Environmental Performance Index (Yale University and Columbia University).

There are two main concerns about using 'indices within an index': (1) doubts over its methodology to derive a single score, and (2) the risk of duplicating indicators. Despite these concerns, the GTCl team determined that the gains outweighed the downsides, as there are certain phenomena that are best captured by a multi-dimensional index. To address these concerns, only indices that transparently indicate their methodology and are widely well received were included in the GTCI. In addition, only indices with a narrow focus were selected, to avoid double-counting.

#### **Survey Data**

The 18 indicators based on survey data were mainly extracted from the World Economic Forum's Executive Opinion Survey. Qualitative information tends to provide the most current assessment of certain areas related to talent competitiveness for which hard data either do not exist or have low country coverage.

#### **Country Coverage and Missing Data**

The 134 countries covered in the GTCI 2023 were selected based on an aggregate data availability threshold of at least 80% (55 out of 69 indicators) and a sub-pillar level data availability threshold of at least 40%. The most recent data points for each country were considered in the calculation, with 2012 as the cut-off year. Meanwhile, each indicator had to pass a country-based availability threshold of 50% (67 out of 134 countries). In order to provide transparency and replicability, there was no imputation effort to fill in missing values in the data set. Missing values were noted with 'n/a' and were not considered in the calculation of sub-pillar scores and, by extension, the index scores.

#### **Treatment of Series with Outliers**

Inclusion of series with outliers can be problematic and potentially bias the rankings. Outliers were detected based on an absolute value of skewness greater than 2 and kurtosis greater than 3.5.3 In our data set, there were nine indicators with outliers.<sup>4</sup> As a general rule, for indicators with one to four outliers, the Winsorisation method should be applied. The values distorting the indicator distribution were assigned the next highest value until the reported skewness and/or kurtosis fell within the ranges specified above. For indicators with five outliers and above, transformation by natural logarithms, with the following formula, was used:5

$$\ln \left[ (\text{max} \times \text{factor} - 1) \times \frac{(\text{value} - \text{min})}{(\text{max} - \text{min})} + 1 \right]$$

#### **Normalisation**

To adjust for differences in units of measurement and ranges of variation, all 69 indicators were normalised into the [0, 100] range, with higher scores representing better outcomes. A min-max normalisation method was adopted, based on the minimum and maximum values of each indicator respectively.

For indicators where higher values indicate better outcomes, the following normalisation formula was applied:

$$100 \times \frac{\text{(value - min)}}{\text{(max - min)}}$$

For indicators where higher values indicate worse outcomes, the following reverse normalisation formula was applied:<sup>6</sup>

$$100 \times \frac{(\text{max} - \text{value})}{(\text{max} - \text{min})}$$

#### **ENDNOTES**

- 1 The JRC has audited various index projects, including the Global Innovation Index (Cornell, INSEAD, and WIPO), the Environment Performance Index (Yale and Columbia), and the Corruption Perceptions Index (Transparency International).
- The GTCI 2022 had 69 indicators in total, 33 of which were hard/ quantitative data, 17 were index/composite indicators, and 19 were survey/qualitative data.
- Adopted from Groeneveld & Meeden (1984).
- 4 The indicators are 1.2.2 Domestic credit to private sector, 1.3.1 Labour rights, 2.1.3 Migrant stock, 2.1.4 International students, 3.1.3 Tertiary education expenditure, 6.1.5 Senior officials and managers, 6.2.2 Highvalue exports, 6.2.3 Software development, and 6.2.4 New business
- 5 The formula ensures that natural logarithms are positive and start at zero. Four of the indicators with outliers were transformed through this formula: 1.2.2 Domestic credit to private sector, 2.1.3 Migrant stock, 3.1.3 Tertiary education expenditure, and 6.2.3 Software development. Log transformation on indicator 2.1.3 Migrant stock is performed for every GTCI edition because the indicator often includes four to five outliers, which means it might be treated differently from year to year. Consistently log transforming the indicator thus ensures that it is treated similarly over
- 6 Reverse normalisation was needed for six indicators: 1.3.1 Labour rights, 2.1.1 FDI regulatory restrictiveness, 2.2.1 Tolerance of minorities, 3.3.2 Youth inclusion, 4.1.5 Vulnerable employment, and 5.2.4 Highly educated unemployment.

#### REFERENCES

Groeneveld, R. A. & Meeden, G. (1984). Measuring skewness and kurtosis. Journal of the Royal Statistical Society, Series D (The Statistician), 33, 391-399.

OECD & EC JRC (2008). Handbook on Constructing Composite Indicators: Methodology and User Guide. Paris: OECD, available at http://www.oecd. org/std/42495745.pdf

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# **Appendix II: Sources and Definitions**

#### **ENABLE** 1

#### **Regulatory Landscape**

#### 1.1.1 Government effectiveness

Government effectiveness indicator | 2021

The government effectiveness indicator captures perceptions of the quality of public services, the quality of the civil service and the degree of its independence from political pressures, the quality of policy formulation and implementation, and the credibility of the government's commitment to such policies. Scores are standardised (-2.5 = low; 2.5 = high).

Source: World Bank, Worldwide Governance Indicators 2022 Update (www.govindicators.org)

#### 1.1.2 Rule of law

Rule of law indicator | 2021

The rule of law indicator "reflects perceptions of the extent to which agents have confidence in and abide by the rules of society, and in particular the quality of contract enforcement, property rights, the police, and the courts, as well as the likelihood of crime and violence". Scores are standardised (-2.5 = low; 2.5 = high).

Source: World Bank, Worldwide Governance Indicators 2022 Update (www.govindicators.org)

#### 1.1.3 Political stability

Political stability and absence of violence indicator | 2021

The political stability and absence of violence indicator measures perceptions of the likelihood of political instability and/or politically motivated violence, including terrorism. Scores are standardised (-2.5 = low; 2.5 = high).

Source: World Bank, Worldwide Governance Indicators 2022 Update (www.govindicators.org)

#### 1.1.4 Regulatory quality

Regulatory quality indicator | 2021

The regulatory quality indicator captures perceptions of the ability of the government to formulate and implement sound policies and regulations that permit and promote private sector development. Scores are standardised (-2.5 = low; 2.5 = high).

Source: World Bank, Worldwide Governance Indicators 2022 Update (www.govindicators.org)

#### 1.1.5 Corruption

Corruption Perceptions Index | 2022

The Corruption Perceptions Index aggregates data from a number of different sources that provide perceptions of business people and country experts of the level of corruption in the public sector.

Source: Transparency International, The Corruption Perceptions Index 2022 (http://www.transparency.org/en/cpi)

#### 1.2 Market Landscape

#### 1.2.1 Extent of market dominance

Average answer to the question: In your country, how do you characterise corporate activity? [1 = dominated by a few business groups; 7 = spread among many firms] | 2022

The World Economic Forum's Executive Opinion Survey (EOS) is conducted on an annual basis to gather information from business leaders on topics for which hard data sources are scarce or non-existent. It is part of the effort to supplement The Global Competitiveness Report in assessing issues that drive national competitiveness.

Source: World Economic Forum, Executive Opinion Survey 2021-2022 (https://www.weforum.org/reports/)

#### 1.2.2 Domestic credit to private sector

Domestic credit to private sector (% GDP) | 2021

This indicator refers to loans, purchases of nonequity securities, trade credits, and other financial resources that need to be repaid and that are provided to the private sector by financial corporations. Financial corporations include monetary authorities, deposit money banks, finance and leasing companies, and money lenders, among others.

Source: International Monetary Fund (IMF) International Financial Statistics and data files, and World Bank and Organisation for Economic Co-operation and Development (OECD) GDP estimates. Downloaded from World Bank, World Development Indicators (http://data.worldbank.org/datacatalog/world-development-indicators)

#### 1.2.3 Cluster development

Average answer to the question: In your country, how widespread are well-developed and deep clusters (geographic concentrations of firms, suppliers, producers of related products and services, and specialised institutions in a particular field)? [1 = non-existent; 7 = widespread in many fields] | 2022

The World Economic Forum's Executive Opinion Survey (EOS) is conducted on an annual basis to gather information from business leaders on topics for which hard data sources are scarce or non-existent. It is part of the effort to supplement *The Global* Competitiveness Report in assessing issues that drive national competitiveness.

Source: World Economic Forum, Executive Opinion Survey 2021–2022 (https://www.weforum.org/reports/)

#### 1.2.4 R&D expenditure

Gross expenditure on R&D (%) | 2021

R&D expenditure refers to the total domestic intramural expenditure on research and development (R&D) during a given period as a percentage of GDP. Intramural R&D expenditure is all expenditure for R&D performed within a statistical unit or sector of the economy during a specific period, whatever the source of funds.

Source: UNESCO Institute for Statistics, UIS.Stat (http://data.uis. unesco.org/)

#### 1.2.5 ICT infrastructure

NRI Access sub-pillar | 2022

The Access sub-pillar is part of the Network Readiness Index (NRI) and comprises six ICT indicators that are given equal weights: (1) mobile tariffs, (2) handset prices, (3) FTTH/building internet subscriptions, (4) population covered by at least a 3G mobile network, (5) international internet bandwidth, and (6) internet access in schools. The Access sub-pillar is one of three dimensions included in the NRI's Technology pillar.

Source: Portulans Institute, The Network Readiness Index 2022: Stepping into the new digital era: How and why digital natives will change the world (https://networkreadinessindex.org/)

#### 1.2.6 Urbanisation

Population of urban areas (%) | 2018

*Urbanisation* refers to people living in urban areas as defined by national statistical offices. The data are collected and smoothed by the United Nations Population Division.

Source: United Nations, Department of Economic and Social Affairs, Population Division, World Urbanization Prospects: The 2018 Revision (https://population.un.org/wup/)

#### 1.3 **Business and Labour Landscape**

Labour Market

#### 1.3.1 Labour rights

Level of national compliance with labour rights | 2020

This indicator measures the level of national compliance with fundamental labour rights (freedom of association and collective bargaining or FACB). It has a range from 0 to 10, with 0 being the best possible score (indicating higher levels of compliance with FACB rights) and 10 the worst (indicating lower levels of compliance with FACB rights). It is based on six ILO supervisory body textual sources and on national legislation.

Source: International Labour Organization (ILO), ILOSTAT (https://ilostat.ilo.org/)

#### 1.3.2 Labour-employer cooperation

Average answer to the question: In your country, how do you characterise labour-employer relations? [1 = generally confrontational; 7 = generally cooperative] | 2022

The World Economic Forum's Executive Opinion Survey (EOS) is conducted on an annual basis to gather information from business leaders on topics for which hard data sources are scarce or non-existent. It is part of the effort to supplement The Global Competitiveness Report in assessing issues that drive national competitiveness.

Source: World Economic Forum, Executive Opinion Survey 2021–2022 (https://www.weforum.org/reports/)

Management Practice

#### 1.3.3 Professional management

Average answer to the question: In your country, who holds senior management positions in companies? [1 = usually relatives or friends without regard to merit; 7 = mostly professional managers chosen for merit and qualifications] | 2022

The World Economic Forum's Executive Opinion Survey (EOS) is conducted on an annual basis to gather information from business leaders on topics for which hard data sources are scarce or non-existent. It is part of the effort to supplement *The Global* Competitiveness Report in assessing issues that drive national competitiveness.

Source: World Economic Forum, Executive Opinion Survey 2021-2022 (https://www.weforum.org/reports/)

#### 1.3.4 Relationship of pay to productivity

Average answer to the question: In your country, to what extent is pay related to employee productivity? [1 = not at all; 7 = to a]great extent] | 2022

The World Economic Forum's Executive Opinion Survey (EOS) is conducted on an annual basis to gather information from business leaders on topics for which hard data sources are scarce or non-existent. It is part of the effort to supplement The Global Competitiveness Report in assessing issues that drive national competitiveness.

Source: World Economic Forum, Executive Opinion Survey 2021–2022 (https://www.weforum.org/reports/)

#### Technology Adoption

#### 1.3.5 Enterprise software

Enterprise software market (weighted GDP) | 2022

The Enterprise software market indicator refers to the size of the market for software that is used for essential large-scale business activities in professional business-to-business (B2B) environments, including Enterprise Resource Planning, Customer Relationship Management, Business Intelligence, and Supply Chain Management. The indicator is weighted by national GDP.

Source: Statista, Technology Market Outlook: Enterprise Software (https://www.statista.com/outlook/tmo/software/ enterprise-software/worldwide); GDP data from World Development Indicators (http://data.worldbank.org/datacatalog/world-development-indicators)

#### 1.3.6 Cloud computing

Cloud computing market (weighted by GDP) | 2022

The Cloud computing indicator refers to the size of the market for the three standard cloud-computing service models: Infrastructure as a Service (laaS), Platform as a Service (PaaS), and Software as a Service (SaaS). The indicator is weighted by national GDP.

Source: Statista, Technology Market Outlook: Public Cloud (https://www.statista.com/outlook/tmo/public-cloud/ worldwide); GDP data come from World Development Indicators (http://data.worldbank.org/data-catalog/world-<u>development-in</u>dicators)

#### 1.3.7 Firms with website

Firms with website (% of total) | 2022

Firms with website refers to the share of businesses that have their own website, expressed as a percentage of all firms. The data are based on enterprise surveys conducted by the OECD and the World Bank. The former survey is used for OECD countries and accession countries or key partners, while the latter is used for all other countries.

Source: OECD, ICT Access and Use by Businesses, OECD Telecommunications and Internet Statistics (https://doi. org/10.1787/9d2cb97b-en); World Bank, Enterprise Surveys (www.enterprisesurveys.org)

## **ATTRACT**

#### 2.1 **External Openness**

Attract Business

#### 2.1.1 FDI regulatory restrictiveness

FDI Regulatory Restrictiveness Index score | 2020

The Foreign Direct Investment (FDI) Regulatory Restrictiveness Index measure is a composite indicator developed by the OECD that provides a measure of the openness of FDI rules and regulations towards overseas investors. Four types of statutory restrictions are considered in the computation of the index: (1) foreign equity restrictions, (2) screening and prior approval requirements, (3) rules for key personnel, and (4) other restrictions on the operation of foreign enterprises. The index is measured on a scale of 0 (no restrictions) to 1 (completely restricted).

Source: OECD, FDI Regulatory Restrictiveness Index (FDI Index) (https://www.oecd.org/investment/fdiindex.htm)

#### 2.1.2 Financial globalisation

Financial Globalisation (de facto) sub-index | 2020

The Financial Globalisation (de facto) sub-index is one of the dimensions of the KOF Globalisation Index. It provides a measure of the degree of a country's integration in global financial flows. It is made up of five variables: (1) foreign direct investment, (2) portfolio investment. (3) international debt. (4) international reserves, and (5) international income payments. The sub-index is calculated by aggregating the five (normalised) variables, where each variable has been given a specific weight based on principal components analysis (PCA).

Source: Savina Gygli, Florian Haelg, Niklas Potrafke, & Jan-Egbert Sturm (2019). The KOF Globalisation Index – Revisited. Review of International Organizations, 14(3), 543-574 (https:// doi.org/10.1007/s11558-019-09344-2)

Attract People

#### 2.1.3 Migrant stock

Adult migrant stock (%) | 2020

Adult migrant stock refers to the number of the migrant stock population above 25 years old as a percentage of the total population of the same age group.

Source: United Nations Population Division, Trends in International Migrant Stock: Migrants by Age and Sex (https:// www.un.org/development/desa/pd/content/internationalmigration-1)

#### 2.1.4 International students

Tertiary inbound mobility ratio (%) | 2022

Tertiary inbound mobility ratio refers to the number of students from abroad studying in a given country as a percentage of the total tertiary enrolment in that country.

Source: UNESCO Institute for Statistics, UIS.Stat (http://data.uis. unesco.org/)

#### 2.1.5 Brain gain

Average answer to the question: To what extent does your country attract talented people from abroad? [1 = not at all; 7 = to a great extent—the country attracts the best and brightest from around the world] | 2020

The World Economic Forum's Executive Opinion Survey (EOS) is conducted on an annual basis to gather information from business leaders on topics for which hard data sources are scarce or non-existent. It is part of the effort to supplement *The Global* Competitiveness Report in assessing issues that drive national competitiveness.

Source: World Economic Forum, Executive Opinion Survey 2019-2020 (https://www.weforum.org/reports/)

#### **Internal Openness** 2.2

Social Inclusion

#### 2.2.1 Tolerance of minorities

Discrimination and violence against minorities | 2022

Tolerance of minorities is based on the Group Grievance indicator included in the Fragile States Index published by The Fund for Peace. Group Grievance "focuses on divisions and schisms between different groups in society—particularly divisions based on social or political characteristics—and their role in access to services or resources, and inclusion in the political process." Its dimensions include post-conflict response, equality, divisions, and communal violence. It is measured on a scale of 0 (low pressures) to 10 (very high pressures).

Source: The Fund for Peace, Fragile States Index 2022 (https:// fragilestatesindex.org/)

#### 2.2.2 Tolerance of immigrants

The percentage of respondents answering "Good place" to the question: Is the city or area where you live a good place or not a good place to live for immigrants from other countries? | 2020

The Gallup World Poll is an annual survey carried out in more than 140 countries. One of the topics included in the poll concerns social issues, where the question related to the Tolerance of immigrants indicator is one of four questions asked.

Source: The Gallup World Poll (2006–2020). Data kindly provided by Gallup, Inc. (https://www.gallup.com/ analytics/318875/global-research.aspx)

#### 2.2.3 Social mobility

Average answer to the question: In your country, to what extent do individuals have the opportunity to improve their economic situation through their personal efforts regardless of the socioeconomic status of their parents? [1 = not at all; 7 = to a great]extent] | 2022

The World Economic Forum's Executive Opinion Survey (EOS) is conducted on an annual basis to gather information from business leaders on topics for which hard data sources are scarce or non-existent. It is part of the effort to supplement *The Global* Competitiveness Report in assessing issues that drive national competitiveness.

Source: World Economic Forum, Executive Opinion Survey 2021–2022 (https://www.weforum.org/reports/)

Gender Equality

#### 2.2.4 Economic empowerment of women

Women, Business, and the Law index score | 2022

The Women, Business and the Law index is a composite indicator that provides a measure of the degree of gender equality with respect to legal rights in economic participation. The index is composed of eight pillars, where each pillar represents a different aspect of a woman's life: (1) mobility, (2) workplace, (3) pay, (4) marriage, (5) parenthood, (6) entrepreneurship, (7) assets, and (8) pension. The index is measured on a scale of 0 (women have no legal economic rights equal to those of men) to 100 (women and men have equal economic opportunities).

Source: World Bank (2023). Women, Business and the Law 2023. Washington, DC: World Bank. (https://wbl.worldbank.org/en/ wbl)

#### 2.2.5 Gender parity in high-skilled jobs

Adjusted gender parity in high-skilled jobs | 2022

Gender parity in high-skilled jobs refers to the ratio of managers, professionals, or technicians and associate professionals who are female to those who are male. Possible values range from 0 (total inequality) to 1 (perfect equality). The parity index is adjusted following the methodology of the United Nations Education, Scientific and Cultural Organization (UNESCO). The occupations correspond to skill levels 3 and 4 (high) in the International Standard Classification of Occupations 2008 (ISCO-08).

Source: International Labour Organization (ILO), ILOSTAT (https://ilostat.ilo.org/)

#### 2.2.6 Leadership opportunities for women

Average answer to the question: In your country, to what extent do companies provide women with the same opportunities as men to rise to positions of leadership? [1 = not at all; 7 = to agreat extent] | 2022

The World Economic Forum's Executive Opinion Survey (EOS) is conducted on an annual basis to gather information from business leaders on topics for which hard data sources are scarce or non-existent. It is part of the effort to supplement *The Global* Competitiveness Report in assessing issues that drive national competitiveness.

Source: World Economic Forum, Executive Opinion Survey 2021-2022 (https://www.weforum.org/reports/)

#### 3 **GROW**

#### 3.1 Formal Education

Enrolment

#### 3.1.1 Vocational enrolment

Vocational enrolment (%) | 2022

Vocational enrolment refers to the total number of students enrolled in vocational programmes in secondary education, expressed as a percentage of the total number of students enrolled in all programmes (vocational and general) at that level. The secondary level is based on International Standard Classification of Education 2011 (ISCED 2011) levels 2-4.

Source: UNESCO Institute for Statistics, UIS.Stat (http://data.uis. unesco.ora/)

#### 3.1.2 Tertiary enrolment

Tertiary enrolment (%) | 2022

Tertiary enrolment refers to the ratio of total tertiary enrolment, regardless of age, to the population of the age group that officially corresponds to the tertiary level of education. Tertiary education, whether or not it leads to an advanced research qualification, normally requires as a minimum condition of admission the successful completion of education at the secondary level. The tertiary level is based on International Standard Classification of Education 2011 (ISCED 2011) levels 5-8.

Source: UNESCO Institute for Statistics, UIS.Stat (http://data.uis. unesco.org/)

Quality

## 3.1.3 Tertiary education expenditure

Initial government funding per tertiary student (constant PPP\$)

This indicator refers to the amount of resources invested by central, regional, and local governments per student enrolled at the tertiary level. The amount is divided by the constant PPP\$ conversion factor. Tertiary education is based on International Standard Classification of Education 2011 (ISCED 2011) levels 5-8.

Source: UNESCO Institute for Statistics, UIS.Stat (http://data.uis. unesco.org/)

#### 3.1.4 Reading, maths, and science

PISA average scores in reading, mathematics, and science | 2018

The OECD Programme for International Student Assessment (PISA) develops triennial surveys that examine 15-year-old students' performance in reading, mathematics, and science. The scores are calculated so that the mean is 500 and the standard deviation is 100. The scores for China come from Beijing-Shanghai-Jiangsu-Guangdong.

Source: OECD Programme for International Student Assessment (PISA) (www.oecd.org/pisa)

#### 3.1.5 University ranking

QS World University Ranking | 2022

The QS World University Ranking is based on six indicators (with their weights in parentheses): (1) Academic reputation from the QS global survey (40%), (2) Employer reputation from the QS global survey (10%), (3) Citations per faculty from SciVerse Scopus database (20%), (4) Faculty-student ratio (20%), (5) Proportion of international students (5%), and (6) Proportion of international faculty (5%). The value is derived from the average score of the top three universities per country. A country without any university in the ranking is given a score of 0.

Source: Quacquarelli Symonds Ltd (QS), QS World University Ranking 2023, Top Universities (<a href="https://www.topuniversities.">https://www.topuniversities.</a> com/gs-world-university-rankings)

#### 3.2 **Lifelong Learning**

#### 3.2.1 Business masters education

QS Global MBA and Business Masters Rankings scores | 2022

Business masters education is a composite indicator computed by the GTCI team based on the scores of six business masters programmes, where the Global MBA is given a weight of 50% because of its status as a business master's programme. The six pillars (weights in parentheses) refer to the following business masters: (1) Global MBA (50%); (2) Business Analytics (11.25%); (3) Finance (11.25%); (4) Management (11.25%); (5) Marketing (11.25%), and (6) Supply Chain Management (5%). The value is derived from the top university per country and per business master's programme. Countries without an institution in a business master's programme are given a value of 0 for the programme in question.

Source: Own computation based on Quacquarelli Symonds Ltd (QS) (2022). QS Higher Ed Report: Global MBA and Business Masters 2023 (https://www.topmba.com/)

#### 3.2.2 Prevalence of training in firms

Proportion of firms offering formal training (%) | 2022

This indicator refers to the percentage of firms that offered formal training programmes in the most recent complete fiscal year for its permanent, full-time employees. The Enterprise Survey is a firm-level survey of a representative sample of an economy's private sector. The survey covers a broad range of business environment topics including access to finance, corruption, infrastructure, crime, competition, and performance measures. Since 2005-06, under its developed Global Methodology, the World Bank's Enterprise Analysis Unit has collected these data based on over 195,000 interviews with top managers and business owners in 155 economies.

Source: World Bank, Enterprise Surveys (www. enterprisesurveys.org)

#### 3.2.3 Employee development

Average answer to the question: In your country, to what extent do companies invest in training and employee development? [1 = not at all; 7 = to a great extent] | 2022

The World Economic Forum's Executive Opinion Survey (EOS) is conducted on an annual basis to gather information from business leaders on topics for which hard data sources are scarce or non-existent. It is part of the effort to supplement the *The* Global Competitiveness Report in assessing issues that drive national competitiveness.

Source: World Economic Forum, Executive Opinion Survey 2021–2022 (https://www.weforum.org/reports/)

#### 3.3 **Access to Growth Opportunities**

**Empowerment** 

#### 3.3.1 Delegation of authority

Average answer to the question: In your country, to what extent does senior management delegate authority to subordinates? [1 = not at all; 7 = to a great extent] | 2022

The World Economic Forum's Executive Opinion Survey (EOS) is conducted on an annual basis to gather information from business leaders on topics for which hard data sources are scarce or non-existent. It is part of the effort to supplement The Global Competitiveness Report in assessing issues that drive national competitiveness.

Source: World Economic Forum, Executive Opinion Survey 2021-2022 (https://www.weforum.org/reports/)

## 3.3.2 Youth inclusion

Proportion of youth (aged 15-24 years) not in education, employment, or training (%) | 2022

This indicator refers to the share of young people aged 15–24 who are not in education, employment, or training. It is known as the NEET rate and is expressed as a percentage of the population of the same age.

Source: International Labour Organization (ILO), ILOSTAT (https://ilostat.ilo.org/)

Collaboration

#### 3.3.3 Use of virtual social networks

Social media users (% of population) | 2023

Use of virtual social networks refers to the penetration of active social media users, expressed as a percentage of total population. The original data are sourced from Kepios and ultimately come from a variety of sources, including company earnings announcements and media statements, as well as platforms' self-service advertising tools.

Source: We Are Social and Hootsuite (2023) Digital 2023 report series (https://wearesocial.com/uk/blog/2023/01/digital-2023/)

#### 3.3.4 Use of virtual professional networks

LinkedIn's potential advertising audience (%) | 2023

Use of virtual professional networks refers to the potential advertising audience that marketers can reach using advertisements on LinkedIn. The potential audience is expressed as a percentage of the population who are 18 years old or above. The data are based on LinkedIn's self-service advertising tools.

Source: We Are Social and Hootsuite (2023) Digital 2023 report series (https://wearesocial.com/uk/blog/2023/01/digital-2023/)

#### RETAIN 4

#### 4.1 Sustainability

#### 4.1.1 Pension coverage

Population above statutory pensionable age receiving a pension (%) | 2022

Pension coverage refers to the share of people above statutory retirement age who receive an old-age pension, expressed as a percentage of the population above statutory retirement age. Data are originally sourced from International Labour Organization (ILO) estimates, which are based on country data compiled through the ILO Social Security Inquiry (SSI).

Source: United Nations, Global SDG Indicators Database (https://unstats.un.org/sdgs/dataportal)

#### 4.1.2 Social protection

Average answer to the question: In your country, to what extent does a formal social safety net provide protection to the general population from economic insecurity in the event of job loss or disability? [1 = not at all; 7 = provides full protection] | 2022

The World Economic Forum's Executive Opinion Survey (EOS) is conducted on an annual basis to gather information from business leaders on topics for which hard data sources are scarce or non-existent. It is part of the effort to supplement *The Global* Competitiveness Report in assessing issues that drive national competitiveness.

Source: World Economic Forum, Executive Opinion Survey 2021-2022 (https://www.weforum.org/reports/)

#### 4.1.3 Brain retention

Average answer to the question: To what extent does your country retain talented people? [1 = not at all—the best and brightest leave to pursue opportunities abroad; 7 = to a great extent—the best and brightest stay and pursue opportunities in the country] | 2018

The World Economic Forum's Executive Opinion Survey (EOS) is conducted on an annual basis to gather information from business leaders on topics for which hard data sources are scarce or non-existent. It is part of the effort to supplement The Global Competitiveness Report in assessing issues that drive national competitiveness.

Source: World Economic Forum, Executive Opinion Survey 2017-2018 (https://www.weforum.org/reports/)

#### 4.1.4 Environmental performance

Environmental Performance Index | 2022

The Environmental Performance Index (EPI) ranks how well countries perform in two fundamental dimensions of sustainable development: environmental health and ecosystem vitality. Within these two policy objectives, the EPI scores country performance in eleven issue areas comprising a total of 32 indicators. Indicators in the EPI measure how close countries are to meeting internationally established targets or, in the absence of agreed-upon targets, how they compare relative to the bestperforming countries.

Source: Wolf, M. J., Emerson, J. W., Esty, D. C., de Sherbinin, A., Wendling, Z. A., et al. (2022). 2022 Environmental Performance Index. New Haven, CT: Yale Center for Environmental Law & Policy. (https://epi.yale.edu)

#### 4.1.5 Vulnerable employment

Vulnerable employment (% of total employment) | 2021

This indicator refers to the number of contributing family workers and own-account workers, expressed as a percentage of total employment. Own-account workers are defined as selfemployed workers without employees, whereas contributing family workers are unpaid family workers.

Source: World Development Indicators (http://data.worldbank. org/data-catalog/world-development-indicators) based on data obtained from International Labour Organization, ILOSTAT (<a href="https://ilostat.ilo.org/">https://ilostat.ilo.org/</a>)

#### 4.2 Lifestyle

#### 4.2.1 Personal rights

Personal rights indicator | 2022

Personal Rights are a component in the Opportunity dimension of the Social Progress Index. This component is based on six variables: Access to justice (0 = non-existent; 1 = observed), Freedom of religion (0 = no freedom; 4 = full freedom), Political rights (0 = no rights; 40 = full rights), Property rights for women (0 = no rights; 5 = full rights), Freedom of peaceful assembly (0 = no freedom; 4 = full freedom), and Freedom of discussion (0 = low; 1 = high).

Source: Social Progress Imperative, The Social Progress Index 2022 (https://www.socialprogress.org/)

#### 4.2.2 Personal safety

Personal safety indicator | 2022

Personal safety is a component in the Basic Human Needs dimension of the Social Progress Index. This component is based on five variables: Interpersonal violence (Age-standardised Disability-Adjusted Life Years (DALYs)/100,000), Transportation-related fatalities (Age-standardised Disability-Adjusted Life Years (DALYs)/100,000), Political killings and torture (0 = low freedom; 1 = high freedom), Intimate partner violence (% of women aged 15+), and Money stolen (proportion of population).

Source: Social Progress Imperative, The Social Progress Index 2022 (https://www.socialprogress.org/)

#### 4.2.3 Physician density

Medical doctors (per 10,000 people) | 2021

Physician density refers to the number of medical doctors (physicians), including generalist and specialist medical practitioners, per 10,000 people.

Source: World Health Organization, Global Health Observatory (https://www.who.int/data/gho)

#### 4.2.4 Sanitation

Population using at least basic sanitation services (%) | 2020

This indicator refers to the percentage of the population using at least basic sanitation services—that is, improved sanitation facilities that are not shared with other households. This indicator encompasses both people using basic sanitation services as well as those using safely managed sanitation services. Improved sanitation facilities include flush/pour-flush to piped sewer systems, septic tanks or pit latrines, pit latrines with slabs (including ventilated pit latrines), and composting toilets.

Source: World Health Organization, Global Health Observatory (https://www.who.int/data/gho)

#### **VOCATIONAL AND** 5 TECHNICAL SKILLS

#### **Mid-Level Skills** 5.1

#### 5.1.1 Workforce with secondary education

Labour force with secondary education (%) | 2022

Workforce with secondary education refers to the percentage of the labour force (above 15 years old) whose highest educational attainment is at the secondary level. Secondary level includes both upper secondary and post-secondary non-tertiary education based on International Standard Classification of Education 2011 (ISCED 2011) levels 3-4.

Source: International Labour Organization (ILO), ILOSTAT (https://ilostat.ilo.org/)

## 5.1.2 Population with secondary education

Population with secondary education (%) | 2021

Population with secondary education refers to the percentage of the population (above 25 years old) whose highest educational attainment is at the secondary level. This is based on International Standard Classification of Education 2011 (ISCED 2011) levels 3-4.

Source: UNESCO Institute for Statistics, UIS.Stat (http://data.uis. unesco.org/)

#### 5.1.3 Technicians and associate professionals

Technicians and associate professionals (%) | 2022

Technicians and associate professionals refers to the number of technicians and associate professionals as a share of the total workforce. The employment by occupation is based on the International Standard Classification of Occupation (ISCO) Revision 2008 (data based on ISCO Rev. 1988 are used for those countries where ISCO Rev. 2008 is not available). It includes physical and engineering science associate professionals, life science and health associate professionals, teaching associate professionals, and other associate professionals (finance and sales, social work, artistic, entertainment and sports, religious associate professionals, police inspectors and detectives, administrative, customs, and tax and related government associate professionals). For those countries where ILOSTAT data are unavailable, data from the JOIN database have been used instead.

Source: International Labour Organization (ILO), ILOSTAT (https://ilostat.ilo.org/); World Bank, Global Jobs Indicators Database (JOIN) (https://datacatalog.worldbank.org/dataset/ global-jobs-indicators-database)

#### 5.1.4 Labour productivity per employee

Labour productivity per person employed (2022 US\$ PPP) | 2022

Labour productivity estimates are obtained by dividing the total output (GDP in 2022 US\$ PPP) by the total labour input used (labour force) to produce that output. For China and the United States, the adjusted values (which take into account drops in prices of ICT goods) have been used.

Source: The Conference Board, Total Economy Database™ (www.conference-board.org/data/economydatabase)

#### **Employability**

#### 5.2.1 Ease of finding skilled employees

Average answer to the question: In your country, to what extent can companies find people with the skills required to fill their vacancies? [1 = not at all; 7 = to a great extent] | 2020

The World Economic Forum's Executive Opinion Survey (EOS) is conducted on an annual basis to gather information from business leaders on topics for which hard data sources are scarce or non-existent. It is part of the effort to supplement *The Global* Competitiveness Report in assessing issues that drive national competitiveness.

Source: World Economic Forum, Executive Opinion Survey 2019-2020 (https://www.weforum.org/reports/)

#### 5.2.2 Relevance of education system to the economy

Average answer to the question: In your country, how well does the education system meet the needs of a competitive economy? [1 = not well at all; 7 = extremely well] | 2022

The World Economic Forum's Executive Opinion Survey (EOS) is conducted on an annual basis to gather information from business leaders on topics for which hard data sources are scarce or non-existent. It is part of the effort to supplement The Global Competitiveness Report in assessing issues that drive national competitiveness.

Source: World Economic Forum, Executive Opinion Survey 2021–2022 (https://www.weforum.org/reports/)

#### 5.2.3 Skills matching

Workers whose education matches their occupation (%) | 2022

Skills matching refers to the percentage of the workforce whose education matches their occupation. The data relate to the socalled normative approach to measure 'educational mismatch', whereby a worker's educational match/mismatch is defined based on the correspondence of a worker's education with that person's occupation. The correspondence table used to determine the standard level of education required in each occupation has been derived from the International Standard Classification of Education 2011 (ISCED 2011) and the International Standard Classification of Occupations (ISCO). Workers who do not have the identified standard level of education are regarded as mismatched.

Source: International Labour Organization (ILO), ILOSTAT (https://ilostat.ilo.org/)

#### 5.2.4 Highly educated unemployment

Workers whose education matches their occupation (%) | 2022

This indicator refers to the percentage of the labour force with high education who are unemployed. High education refers to intermediate and advanced education; it comprises upper secondary and post-secondary non-tertiary education, short-cycle tertiary education, a bachelor's degree or equivalent education level, a master's degree or equivalent education level, and a doctoral degree or equivalent education level according to the International Standard Classification of Education 2011 (ISCED 2011). For those countries where ILOSTAT data are unavailable, data from the JOIN database have been used instead.

Source: International Labour Organization (ILO), ILOSTAT (https://ilostat.ilo.org/); World Bank, Global Jobs Indicators Database (JOIN) (https://datacatalog.worldbank.org/dataset/ global-jobs-indicators-database)

#### **GLOBAL KNOWLEDGE** 6 **SKILLS**

#### **High-Level Skills** 6.1

#### 6.1.1 Workforce with tertiary education

Labour force with tertiary education (%) | 2022

Workforce with tertiary education refers to the percentage of the labour force (above 15 years old) whose highest educational attainment is at the tertiary level. The tertiary level is based on International Standard Classification of Education 2011 (ISCED 2011) levels 5-8.

Source: International Labour Organization (ILO), ILOSTAT (https://ilostat.ilo.org/)

#### 6.1.2 Population with tertiary education

Population with tertiary education (%) | 2021

Population with tertiary education refers to the percentage of the population (above 25 years old) whose highest educational attainment is at the tertiary level. The tertiary level is based on International Standard Classification of Education 2011 (ISCED 2011) levels 5-8

Source: UNESCO Institute for Statistics, UIS.Stat (http://data.uis. unesco.org/)

#### 6.1.3 Professionals

Professionals (%) | 2022

Professionals refers to the number of professionals as a share of the total workforce. The employment by occupation is based on the International Standard Classification of Occupation (ISCO) Revision 2008 (data based on ISCO Rev. 1988 are used for those countries where ISCO Rev. 2008 is not available). It includes physical, mathematical, and engineering science professionals; life science and health professionals; teaching professionals; and other professionals (business, legal, archivists, librarians, social science, religious professionals, and writers and creative or performing artists). For those countries where ILOSTAT data are unavailable, data from the JOIN database have been used instead

Source: International Labour Organization, ILOSTAT (https:// <u>ilostat.ilo.org/</u>); World Bank, Global Jobs Indicators Database (JOIN) (https://datacatalog.worldbank.org/dataset/global-jobsindicators-database)

#### 6.1.4 Researchers

Full-time equivalent researchers (per million population) | 2021

Researchers are professionals engaged in the conception or creation of new knowledge, products, processes, methods, or systems, as well as the management of these projects. Full-time equivalent (FTE) R&D data are a measure of the actual volume of human resources devoted to R&D and are especially useful for international comparisons. "One FTE may be thought of as one person-year. Thus, a person who normally spends 30% of time on R&D and the rest on other activities (such as teaching, university administration, and student counselling) should be considered as 0.3 FTE. Similarly, if a full-time R&D worker is employed at an R&D unit for only six months, this results in an FTE of 0.5." The data are reported per million population.

Source: UNESCO Institute for Statistics, UIS.Stat (http://data.uis. unesco.org/)

#### 6.1.5 Senior officials and managers

Legislators, senior officials, and managers (%) | 2022

This variable measures the percentage of legislators, senior officials, and managers within total employment. The employment by occupation is based on the International Standard Classification of Occupation (ISCO) Revision 2008 (data based on ISCO Rev. 1988 are used for those countries where ISCO Rev. 2008 is not available). For those countries where ILOSTAT data are unavailable, data from the JOIN database have been used instead.

Source: International Labour Organization, ILOSTAT (https:// ilostat.ilo.org/); World Bank, Global Jobs Indicators Database (JOIN) (https://datacatalog.worldbank.org/dataset/global-jobsindicators-database)

#### 6.1.6 Digital skills

Individuals with advanced ICT skills (%) | 2021

This indicator measures the prevalence of advanced digital skills in the population. More specifically, it refers to the share of youth and adults who have written a computer program using a specialised programming language in the last three months, expressed as a percentage of individuals that have undertaken computer-related activities during that period.

Source: International Telecommunication Union (ITU), World Telecommunication/ICT Indicators Database, August 2022 (https://www.itu.int/itu-d/sites/statistics/)

#### 6.2 **Talent Impact**

#### 6.2.1 Innovation output

Innovation Output Sub-Index | 2022

The Global Innovation Index (GII), developed jointly by INSEAD and the World Intellectual Property Organization, aims to capture the richness of innovation in society. Innovation Output is one of the two sub-indices in the GII, which is derived by aggregating two output pillars: Knowledge and Technology Outputs and Creative Outputs. The first pillar covers elements of knowledge creation, impact, and diffusion, while the second pillar includes creative intangibles, creative goods and services, and online creativity.

Source: INSEAD, Cornell University, and World Intellectual Property Organization, The Global Innovation Index 2022: What is the future of innovation-driven growth? (https://www. globalinnovationindex.org)

#### 6.2.2 High-value exports

High-technology exports (% of manufactured exports) | 2021

High-value exports here refers to manufactures with high R&D intensity (e.g., computers, pharmaceuticals, scientific instruments, and electrical machinery), expressed as a percentage of exports of all manufactured goods. The definition of hightechnology is based on the importance of expenditures on research and development relative to the gross output and value added of different types of industries that produce goods for

Source: World Bank, World Development Indicators (http:// data.worldbank.org/data-catalog/world-developmentindicators). Sourced from United Nations, Comtrade database through the World Integrated Trade Solution (WITS) platform (https://wits.worldbank.org/)

#### 6.2.3 Software development

GitHub commits (per 1,000 population) | 2021

GitHub is the world's largest host of source code, and a *commit* is the term used for a saved change on this platform. GitHub commits therefore refers to the number of saved changes on the GitHub website that are publicly available.

Source: GitHub (<u>https://github.com/</u>). Data on population are sourced from World Bank, World Development Indicators (http://data.worldbank.org/data-catalog/world-developmentindicators)

#### 6.2.4 New business density

New corporate registrations (per 1,000 working-age population) | 2020

New business density is defined as the number of newly registered firms with limited liability per 1,000 working-age people (between 15 and 64 years old) per calendar year. The Entrepreneurship Database contains annual data on entrepreneurial activity in more than 170 economies over the period 2006–2020.

Source: World Bank, Entrepreneurship Database (https://www. worldbank.org/en/programs/entrepreneurship)

#### 6.2.5 Scientific journal articles

Number of scientific and technical journal articles (per 10,000 inhabitants) | 2020

Scientific and technical journal articles refers to the number of scientific and engineering articles published in the following fields: physics, biology, chemistry, mathematics, clinical medicine, biomedical research, engineering and technology, and earth and space sciences. The data are reported per 10,000 inhabitants.

Source: World Bank, World Development Indicators based on National Science Foundation, Science and Engineering Indicators; population data come from World Bank, World Development Indicators (http://data.worldbank.org/datacatalog/world-development-indicators)

# **Appendix III: About the Contributors**



#### Michael Bratt

Michael Bratt is Lead Researcher for the Descartes Institute for the Future. Previously he was a Consultant for INSEAD, leading the analytical work of the Global Talent Competitiveness Index by being responsible for the calculation and analysis of the country and city rankings. Prior to his current role he

was Consultant and Associate Economic Affairs Officer at United Nations Conference on Trade and Development (UNCTAD), working primarily on issues of trade and development related to least-developed countries and landlocked developing countries. Other past work experience includes consulting for the World Trade Organization and working as an analyst at the Swedish National Board of Trade, CUTS International, and Mintel International. He holds a PhD in Economics from the University of Geneva and a Master of International Law and Economics from the World Trade Institute (University of Bern).



#### Begoña Cabeza Martínez

Begoña Cabeza Martínez is a policy analyst at the European Commission's Joint Research Centre (JRC). At the Competence Centre on Composite Indicators and Scoreboards (COIN), she has worked on the EU Regional Competitiveness Index, the EU Social Progress Index, monitoring the Gen-

der Equality Strategy, and auditing composite indicators. She received a PhD in Social and Economic Sciences from the University of Antwerp, and her research focuses on inequality aversion, meritocratic beliefs, and redistributive preferences. She has experience with survey micro-data and experimental methods. She took part in a project at the University of Alcalá (Spain) analysing inequality trends in Spain. She was also a teaching assistant at the University Carlos III de Madrid, where she obtained a Research Master in Human Rights, with a focus on International Law and Political Philosophy, and a Bachelor's in Business. In the private sector, she worked at the engineering consultancy TPF as junior financial controller.



#### **Anna Henry**

Anna Henry is a Senior Project Manager and independent consultant. Currently, she leads various projects on future-readiness, inclusion and prosperity, and on the Global Talent Competitiveness Index (GTCI), with responsibilities such as building the report, event management, media relations, and

dissemination.

Prior to this role, she was a Team Coordinator at Procter & Gamble (P&G) and a Project Coordinator at the World Economic Forum (WEF), working primarily on multilateral projects on internet and connectivity (dealing with academia, governments, and public and private sectors as well as organising world-class conferences in Davos). She holds an MBA from the University of Geneva and co-founded, in 2019, an L.L.C. called PminD, collaborating on various projects related to the digital architecture of smart cities and innovation. She has lived in nine countries and is fluent in four languages. Her volunteer experience includes the New Zealand winter games and educational projects in Ecuador. In her free time, she reads extensively and enjoys traveling across the globe with her son and husband



#### Jaime Lagüera González

Jaime Lagüera González is a research statistician at the European Commission's Joint Research Centre (JRC). Before joining the Competence Centre on Composite Indicators and Scoreboards (COIN), he worked at the European Central Bank (ECB) and in other areas of the JRC, where he collaborated on

topics like data quality, data visualisation, and text-mining analysis.

Jaime holds a Bachelor's degree in Economics as well as two Master degrees, one in Econometrics and Operations Research and the other in Big Data and Business Analytics. His main research interest is the use of non-conventional data related to different topics like economics and composite indicators.



#### Bruno Lanvin

Bruno Lanvin is Founder and President of the Descartes Institute for the Future, and INSEAD Distinguished Fellow. For 30 years, he was an economist in the United Nations and then at the World Bank, where he was, inter alia, Manager of the InfoDev Programme, Senior Advisor for E-strategies,

Regional Coordinator (Europe and Central Asia) for ICT and e-government issues, and Chairman of the Bank's e-Thematic Group. He is also the President of IMD's Smart City Observatory.

Since 2002 he has been co-authoring the Global Information Technology Report (INSEAD-World Economic Forum), now the Network Readiness Index Report (Portulans Institute), and he is currently (and has been since 2007) the co-editor of the Global Innovation Index Report (WIPO-Portulans Institute). His most recent book is *The Future is Young* (2022).

Dr Lanvin holds a BA in Mathematics and Physics from the University of Valenciennes (France), an MBA from École des Hautes Études Commerciales (HEC) in Paris, and a PhD in Economics from the University of Paris I (La Sorbonne) in France. He is also an INSEAD alumnus (IDP-C) and an MIT Media Lab alumnus (Beyond Smart Cities-C). A frequent speaker at high-level meetings, he advises a number of global companies and governments and has been a member of numerous boards, including those of IDA Infocomm (Singapore), ICANN, GovTech (Singapore), the Mohammed Bin Rashid Center for Government Innovation (United Arab Emirates), IPWatch, and the Association for Accountability and Internet Democracy (AAID).



#### Felipe Monteiro

Felipe Monteiro is the Academic Director of the GTCI, Senior Affiliate Professor of Strategy at INSEAD, France, and a Senior Fellow of the Wharton School Mack Institute for Innovation Management. Before joining INSEAD, he was a standing faculty member at the Wharton School. He has also worked

as a Senior Researcher at the Harvard Business School's Latin American Research Center in Brazil and taught at the London School of Economics (LSE).

His research explaining the patterns of inter- and intra-firm knowledge-sourcing processes in multinational organisations has been published in top academic journals such as the Strategic Management Journal, Organization Science, Research Policy, and the Journal of International Business Studies, among others. His research has also received prestigious awards from the Strategic Management Society, the Academy of Management, and the Academy of International Business. He has received multiple teaching awards and published several case studies at Harvard Business School, London Business School, and INSEAD. His new book on Global Strategic Management (https://www.bloomsbury. com/uk/global-strategic-management-9781350932968/) is published by Bloomsbury.

Professor Monteiro obtained his PhD in Strategic and International Management at the London Business School. He also has an LLB (JD equivalent) degree, cum laude, from the Federal University of Rio de Janeiro, an MSc in Business Administration from COPPEAD/UFRJ, Brazil, and an MRes in Business Studies from London Business School.



#### Panagiotis Ravanos

Panagiotis Ravanos is a policy analyst at the Competence Centre on Composite Indicators and Scoreboards (COIN) of the European Commission's Joint Research Centre (JRC). His research is related to performance evaluation, efficiency measurement, Data Envelopment Analysis (DEA), and the meth-

odology and empirical applications of DEA to the development of composite indicators. He holds a PhD in Economics from the Department of Economics at the University of Macedonia, Thessaloniki, Greece. Prior to joining COIN, Panagiotis had worked in the Centre for the Development of Vocational Education and Training (CEDEFOP), as a teaching and research assistant in the University of Macedonia, and as a research analyst in the private sector.



#### Michaela Saisana

Michaela Saisana is Head of the Monitoring, Indicators and Impact Evaluation at the European Commission's Joint Research Centre, whereby she oversees the activities of the Competence Centre on Composite Indicators and Scoreboards (COIN) and the Competence Centre on Microeconomic

Evaluation (C-ME). She has been working at the JRC since 1998, where she obtained a prize as 'best young scientist of the year' in 2004 and together with her team won the 'JRC policy impact award' for the Social Scoreboard of the European Pillar of Social Rights in 2018. She collaborates, by auditing performance indices, with over 150 international organisations and world-class universities, including the United Nations, Transparency International, Oxfam, the World Economic Forum, INSEAD, the World Intellectual Property Organization, Yale University, Columbia University, and Harvard University. She is a highly cited scientist with almost 19,000 citations in Google Scholar and is a co-author of three books: 2021 Data Science for Economics and Finance: Methodologies and Applications; 2008 OECD/JRC Handbook on Constructing Composite Indicators; and 2008 Global Sensitivity Analysis: The Primer (Wiley).



Oscar Smallenbroek

Oscar Smallenbroek is a policy analyst in the Competence Centre on Composite Indicators and Scoreboards (COIN) of the European Commission's Joint Research Centre (JRC). He is currently working in the COIN team auditing composite indicators and doing research on the state of innovation in

the INNOVA project. Having attained a PhD in Sociology from the European University Institute in 2020, he focused on measuring social stratification and personal value change over the life-course. His work has been published in the Journal of Positive Psychology, European Journal of Population, Sociological Methods & Research, and Research in Social Stratification and Mobility.



Doris Sohmen-Pao

Doris Sohmen-Pao is Chief Executive Officer of the Human Capital Leadership Institute (HCLI). She joined HCLI from the Singapore Public Service Division, where she was the Director for External Outreach, with a focus on developing relationships and synergies between the public and private sector.

Before her work with the Singapore Public Service, she was one of the founding leaders of Yale-NUS College. Her first role at the College was the EVP of administration where she set up and oversaw the admissions, finance, human resources, public affairs, and grounds and building departments. Her last posting at Yale-NUS was as the EVP for Institutional Projects—a role that covered public affairs, institutional research, alumni affairs, and external outreach. Her experience spans industries and geographies. She was the Director of Human Capital at Bain & Company (SEA), and before that, the Director of the MBA Programme at INSEAD and then at Singapore Management University, where she created and launched the MBA Programme. She was also briefly at Ngee Ann Polytechnic as a Visiting Lecturer. Her experience extends to working in multiple media ventures, including an internet start-up, Time Inc. International, Hearst New Media and Price Waterhouse LLP in its telecom and media division. Over the years, she has worked in Hong Kong, London, New York, France, and Singapore. Doris graduated with a BA in Politics and Environmental Studies from Princeton University and an MBA from Harvard University. She has worked on several boards of educational institutions including Princeton University, United World College (SEA), and the Yong Siew Toh Conservatory. Currently, she serves on the Nanyang Technological University College of Science, Singapore National Gallery, and Singapore's Institute for HR Practitioners (IHRP) boards. She is also an executive committee member of the International Women's Forum Singapore.



**Kevyn Yong** 

Kevyn is the Chief Learning Officer at the Human Capital Leadership Institute (HCLI). Prior to HCLI, Kevyn held senior leadership positions at the Wealth Management Institute, the Singapore Institute of Management, ESSEC Business School, and HEC Paris.

His areas of interests and expertise include creativity, innovation, entrepreneurship, and leadership, with a

focus on design thinking, agility, systems thinking, human capital, and strategy.

He has designed, developed, and delivered customised leadership and innovation programmes for many corporate, government, and non-profit enterprises, including Amazon and ATOS in France, eBay and Nike in China, the French Chamber of Commerce and Keio University in Japan, Danone, the Inland Revenue Authority of Singapore, Singtel, Takeda Pharmaceuticals, and the United Overseas Bank in Singapore.

Kevyn received his Ph.D. in Management and Organisations from the S.C. Johnson Graduate School of Management at Cornell University. He also holds undergraduate degrees in Psychology and Philosophy from the National University of Singapore and a Masters degree in Mind, Brain, and Education from Harvard University.

# **Appendix III: About the Partners**





The Human Capital Leadership Institute (HCLI) is a renowned centre of excellence in Asia, dedicated to accelerating leadership and strategic human capital management capabilities.

Through Asia-specific research and insights, industry-relevant executive development programmes, and fostering networks between thought leaders in business, government, and academia, HCLI aims to cultivate global leaders with a deep understanding of leading in Asia and develop Asian leaders with the ability to lead on a global stage.

For further information, please visit www.hcli.org



#### About INSEAD, The Business School for the World

As one of the world's leading and largest graduate business schools, INSEAD brings together people, cultures, and ideas to develop responsible leaders who transform business and society. Our research, teaching, and partnerships reflect this global perspective and cultural diversity.

With locations in Europe (France), Asia (Singapore), the Middle East (Abu Dhabi), and North America (San Francisco), INSEAD's business education and research spans four regions. Our 195 renowned faculty members from 41 countries inspire more than 1,300 degree participants annually in our Master in Management, MBA, Global Executive MBA, Specialised Master's degrees (Executive Master in Finance, and Executive Master in Change) and PhD programmes. In addition, more than 10,000 executives participate in INSEAD Executive Education programmes each year.

INSEAD continues to conduct cutting-edge research and innovate across all our programmes. We provide business leaders with the knowledge and awareness to operate anywhere. Our core values drive academic excellence and serve the global community as The Business School for the World. More information about INSEAD can be found at www.insead.edu.



#### About Descartes Institute for the Future

Because the current times are complex, because the future has become more difficult to anticipate, and because our decoding grids and navigation instruments require constant upgrading, the mindset of René Descartes stands out as one of the most powerful tools we can use to be future ready. To do this, we need to combine two core qualities, namely: (1) offer innovative ways to look at tomorrow while building on proven facts and measurable realities; and (2) doing so by constantly challenging established ways of describing the world, and offering new bridges between various areas of thoughts, culture and ways to see the world.

Our thirty years of experience in dealing with the highest levels of government and business management, and our reputation in building global indices and innovative benchmarks in future-critical areas such as technology, innovation and talent is our strongest asset to help private and public organizations to be more future-ready. Visit our website for more information.



