

IMD World Competitiveness Yearbook 2022

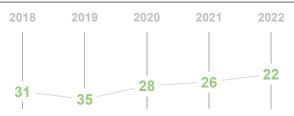
COUNTRY PROFILE

ESTONIA



Competitiveness Trends – Overall

OVERALL PERFORMANCE (63 countries)



CHALLENGES IN 2022

- Accelerate the development of innovation and infrastructure.
- Reducing skilled labor shortages.
- Strengthening defense capabilities.
- Ensuring energy security.
- Take measures to employ Ukrainian war refugees.

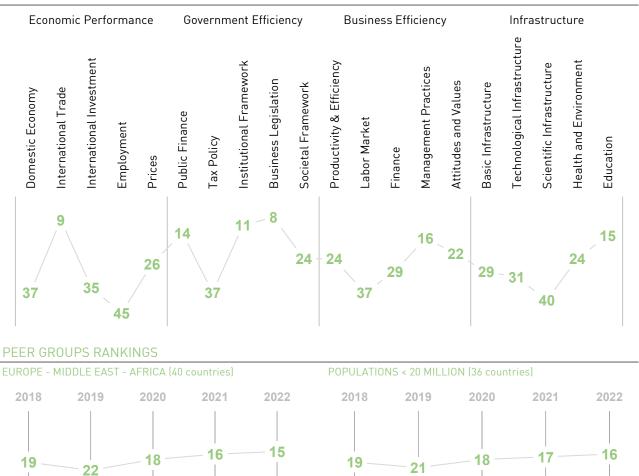
BASIC FACTS

Rank

Capital	Tallinn	
Land area (square km '000)	45 ²⁰²¹	
Exchange Rate (per \$)	0.845 2021	
Population - market size (millions)	1.33 ²⁰²¹	60
Gross Domestic Product (GDP) (US\$ billions)	36.3 ²⁰²¹	59
GDP (PPP) per capita (US\$)	42,084 ²⁰²¹	34
Real GDP growth (%)	8.4 ²⁰²¹	11
Consumer price inflation (%)	4.49 ²⁰²¹	47
Unemployment rate (%)	6.20 ²⁰²¹	34
Labor force (millions)	0.69 2021	60
Current account balance (% of GDP)	-1 .13 ²⁰²¹	39
Direct investment stocks inward (\$bn)	34.4 ²⁰²⁰	53
Direct investment flows inward (% of GDP)	11.54 ²⁰²⁰	06

PROVIDED BY: Estonian Institute of Economic Research (EKI)

COMPETITIVENESS LANDSCAPE



Competitiveness Evolution & Attractiveness Indicators

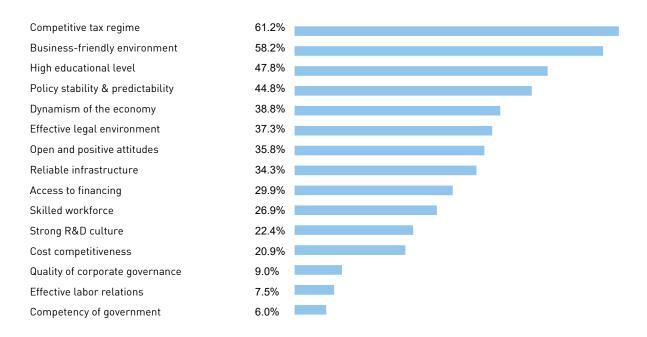
COMPETITIVENESS EVOLUTION

The criteria below highlight the 15 biggest Improvements and the 15 biggest Declines in the overall performance of the economy. They are determined by the largest percentage changes in the value of each criterion from one yearbook to the next.

IMPROVEMENTS	WCY 2021	WCY 2022	DECLINES	WCY 2021	WCY 2022
1.1.14 Real GDP growth	-2.9	8.4	1.5.01 Consumer price inflation	-0.63	4.49
1.1.15 Real GDP growth per capita	-3.09	8.42	1.4.04 Employment - long-term growth	0.86	-0.86
4.4.14 Water use efficiency	13.75	23.08	3.2.14 Labor force - long-term growth	1.03	-0.54
3.3.10 Stock market capitalization (%)	10.37	16.91	4.1.07 Population - growth	0.15	-0.08
1.2.12 Exports of commercial services (\$bn)	6.36	9.85	1.1.18 Gross fixed capital formation - real growth	18.48	3.26
2.1.02 Government budget surplus/deficit (%)	-4.90	-2.35	1.2.25 Tourism receipts	5.55	1.93
2.1.07 Public finances	4.51	6.55	2.5.02 Homicide	2.12	3.17
2.4.09 State ownership of enterprises	4.15	5.94	1.4.08 Long-term unemployment	1.16	1.67
2.3.10 Adaptability of government policy	3.97	5.67	2.3.08 Exchange rate stability	0.017	0.024
2.4.07 Government subsidies	1.59	0.97	1.4.10 Youth exclusion	6.9	8.9
2.3.11 Transparency	4.54	6.15	1.2.02 Current account balance	-0.91	-1.13
1.2.13 Exports of commercial services (%)	20.50	27.17	2.5.16 Freedom of the Press	12.61	15.25
1.2.08 Exports of goods (\$bn)	16.38	21.52	4.1.15 Energy infrastructure	7.42	6.12
2.3.12 Bureaucracy	4.21	5.49	1.2.18 Export concentration by product	36.7	42.6
2.4.08 Subsidies	4.21	5.37	2.2.02 Collected personal income tax	5.45	6.16

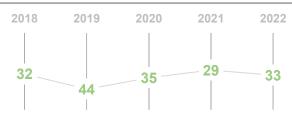
KEY ATTRACTIVENESS INDICATORS

From a list of 15 indicators, respondents of the Executive Opinion Survey were asked to select 5 that they perceived as the key attractiveness factors of their economy. The chart shows the percentage of responses per indicator from the highest number of responses to the lowest.



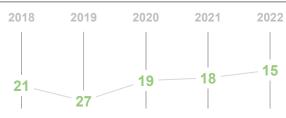
Competitiveness Trends – Factor Breakdown





SUB-FACTOR RANKINGS :	2021	2022
Domestic Economy	24	37
International Trade	25	09
International Investment	45	35
Employment	36	45
Prices	14	26

GOVERNMENT EFFICIENCY



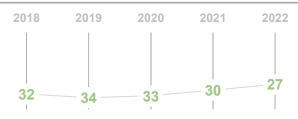
SUB-FACTOR RANKINGS :	2021	2022
Public Finance	18	14
Tax Policy	37	37
Institutional Framework	23	11
Business Legislation	17	08
Societal Framework	21	24

BUSINESS EFFICIENCY



SUB-FACTOR RANKINGS :	2021	2022
Productivity & Efficiency	34	24
Labor Market	40	37
Finance	35	29
Management Practices	19	16
Attitudes and Values	28	22

INFRASTRUCTURE



SUB-FACTOR RANKINGS :	2021	2022
Basic Infrastructure	33	29
Technological Infrastructure	36	31
Scientific Infrastructure	42	40
Health and Environment	26	24
Education	14	15

Balance Sheet – Factor Breakdown

ECONOMIC PERFORMANCE

STRENGTHS	Rank
1.2.13 Exports of commercial services (%)	06
1.3.06 Direct investment flows inward (% of GDP)	06
1.2.18 Export concentration by product	07
1.1.09 Gross fixed capital formation (%)	08
1.1.15 Real GDP growth per capita	09
1.3.08 Direct investment stocks inward (% of GDP)	10
1.1.14 Real GDP growth	11
1.5.04 Office rent	12
1.2.23 Trade to GDP ratio	13
1.2.24 Terms of trade index	13

WEAKNESSES	Rank
1.2.08 Exports of goods (\$bn)	55
1.3.07 Direct investment stocks inward (\$bn)	53
1.3.03 Direct investment stocks abroad (\$bn)	51
1.2.12 Exports of commercial services (\$bn)	49
1.5.01 Consumer price inflation	47
1.5.06 Gasoline prices	43
1.3.01 Direct investment flows abroad (\$bn)	43
1.1.18 Gross fixed capital formation - real growth	41
1.5.05 Food costs	40
1.4.04 Employment - long-term growth	40

GOVERNMENT EFFICIENCY

STRENGTHS	Rank
2.4.12 New business density	01
2.4.13 Creation of firms	01
2.1.04 Total general government debt (%)	02
2.4.14 Start-up days	06
2.4.15 Start-up procedures	06
2.5.13 Unemployment rate - gender ratio	06
2.3.03 Interest rate spread	07
2.4.16 Labor regulations	07
2.3.12 Bureaucracy	09
2.3.08 Exchange rate stability	09

WEAKNESSES	Rank
2.2.09 Employer social security tax rate	59
2.4.18 Immigration laws	53
2.5.02 Homicide	48
2.3.07 Foreign currency reserves per capita	47
2.2.01 Collected total tax revenues	42
2.1.09 Pension funding	42
2.2.08 Consumption tax rate	38
2.4.08 Subsidies	38
2.2.02 Collected personal income tax	38
2.4.09 State ownership of enterprises	37

BUSINESS EFFICIENCY

STRENGTHS	Rank
3.4.09 Entrepreneurship	04
3.2.16 Female labor force	06
3.4.13 Entrepreneurial fear of failure	07
3.2.10 Employee training	08
3.4.14 Total early-stage Entrepreneurial Activity	09
3.4.08 Customer satisfaction	09
3.3.17 Venture capital	10
3.4.01 Agility of companies	11
3.3.05 Access to financial services - gender ratio	12
3.3.04 Access to financial services	15

WEAKNESSES	Rank
3.2.18 Skilled labor	61
3.2.19 Finance skills	60
3.3.10 Stock market capitalization (%)	55
3.2.24 Competent senior managers	53
3.3.01 Banking sector assets	42
3.1.08 Large corporations	39
3.2.23 International experience	37
3.4.05 Corporate boards	34
3.1.01 Overall productivity (PPP)	34
3.2.17 Foreign labor force - migrant stock	33

INFRASTRUCTURE

STRENGTHS	Rank
4.4.17 Exposure to particle pollution	03
4.5.12 Students who are not low achievers - PISA	03
4.2.05 Secure internet servers	08
4.5.01 Total public expenditure on education	09
4.4.24 Environmental agreements	11
4.5.08 Women with degrees	12
4.2.06 Internet users	12
4.1.04 Access to water	12
4.5.14 Primary and secondary education	14
4.4.25 Sustainable development	14

WEAKNESSES	Rank
4.2.10 Qualified engineers	61
4.1.13 Quality of air transportation	54
4.1.09 Dependency ratio	54
4.2.11 Public-private partnerships	50
4.4.23 Environment-related technologies	49
4.1.07 Population - growth	48
4.4.14 Water use efficiency	46
4.2.01 Investment in Telecommunications	45
4.1.15 Energy infrastructure	45
4.2.09 Digital/Technological skills	44

Extended Country Profile

1 · Economic Performance

1.1 · Domestic Economy		Value Average Ra	
1.1.00 · Exchange Rate	0.845 2	21,532.090	202
National currency per US\$ (average) 1.1.01 · Gross Domestic Product (GDP)	26.2	1,394.4	59 ²⁰²
US\$ billions	30.3	1,394.4	59
1.1.02 · GDP (PPP)	55.9	1,981.9	59 ²⁰²
Estimates ; US\$ billions at purchasing power parity	00.0	1,001.0	00
1.1.03 · World GDP contribution	0.04	1.44	59 ²⁰²
Percentage share of world GDP in market prices			
1.1.04 · Household consumption expenditure (\$bn)	16.9	735.2	59 ²⁰²
US\$ billions			
1.1.05 · Household consumption expenditure (%)	46.7	53.4	46 202
Percentage of GDP			
1.1.06 · Government consumption expenditure (\$bn)	7.4	232.9	57 ²⁰²
US\$ billions			
1.1.07 · Government consumption expenditure (%)	20.3	18.3	23 ²⁰²
Percentage of GDP			
1.1.08 · Gross fixed capital formation (\$bn)	10.4	351.9	55 ²⁰²
US\$ billions			- 202
1.1.09 · Gross fixed capital formation (%)	28.6	22.7	8 202
Percentage of GDP			202
1.1.10 · Gross domestic savings (\$bn)	12.0	379.1	56 ²⁰²
US\$ billions			19 ²⁰²
1.1.11 · Gross domestic savings (%)	33.0	28.3	19
Percentage of GDP 1.1.12 · Economic sectors			202
Breakdown of the economic sectors, percentage of GDP			
Economic sectors / Agriculture	2.1	3.7	202
	2.1	0.7	
Economic sectors / Industry	22.8	29.1	202
Economic sectors / Services	75.1	67.0	202
1.1.13 · Economic complexity index	1.04	0.86	27 ²⁰¹
Measures knowledge intensity, by considering exports			
1.1.14 · Real GDP growth	8.4	5.6	11 ²⁰²
Percentage change, based on national currency in constant prices			
1.1.15 · Real GDP growth per capita	8.42	5.35	9 ²⁰²
Percentage change, based on national currency in constant prices			
1.1.16 · Household consumption expenditure - real growth	6.48	4.78	21 ²⁰²
Percentage change, based on constant prices			
1.1.17 · Government consumption expenditure - real growth	3.91	4.01	31 ²⁰²
Percentage change, based on constant prices			202
1.1.18 · Gross fixed capital formation - real growth	3.26	6.32	41 ²⁰²
Percentage change, based on constant prices	0.57	- 00	23 202
1.1.19 · Resilience of the economy	6.57	5.88	23 202
Resilience of the economy to economic cycles is strong	07.000	24.070	31 ²⁰²
1.1.20 · GDP per capita	27,286	34,279	31
US\$ per capita 1.1.21 · GDP (PPP) per capita	42,084	44,580	34 ²⁰²
Estimates; US\$ per capita at purchasing power parity	42,084	44,300	34
1.1.22 · Forecast: Real GDP growth	1.0	3.7	61 ²⁰²
Percentage change, based on national currency in constant prices	1.0	0.7	01
1.1.23 · Forecast: Inflation	9.0	38.4	53 ²⁰²
Percentage change	0.0		
1.1.24 · Forecast: Unemployment	6.8	6.3	39 ²⁰²
Percentage of total labor force			
1.1.25 · Forecast: Current account balance	0.0	1.7	36 202
Percentage of GDP			

1.2 · International Trade	Value A	Average R	≀ank ′ear
1.2.01 · Current account balance (\$bn)	-0.4	10.4	33 ²⁰²¹
US\$ billions (minus sign = deficit)			
1.2.02 · Current account balance	-1.13	1.64	39 ²⁰²¹
Percentage of GDP			
1.2.03 · Balance of trade (\$bn)	-2.1	-2.5	38 2021
US\$ billions (minus sign = deficit)			
1.2.04 · Balance of trade (%)	-5.70	0.27	46 2021
Percentage of GDP			
1.2.05 · Balance of commercial services (\$bn)	1.63	8.39	31 2021
US\$ billions (minus sign = deficit)			
1.2.06 · Balance of commercial services (%)	4.49	1.84	13 2021
Percentage of GDP			
1.2.07 · World exports contribution	0.11	1.45	57 ²⁰²¹
Percentage share of world exports (goods and commercial services)			
1.2.08 · Exports of goods (\$bn)	21.52	321.20	55 ²⁰²¹
US\$ billions			
1.2.09 · Exports of goods (%)	59.35	41.98	14 2021
Percentage of GDP			
1.2.10 · Exports of goods per capita	16,193	15,049	19 ²⁰²¹
US\$ per capita			
1.2.11 · Exports of goods - growth	31.59	27.30	16 ²⁰²¹
Percentage change, based on US\$ values			
1.2.12 · Exports of commercial services (\$bn)	9.85	88.34	49 ²⁰²¹
US\$ billions			
1.2.13 · Exports of commercial services (%)	27.17	15.10	6 2021
Percentage of GDP			
1.2.14 · Exports of commercial services - growth	51.95	17.14	5 2021
Percentage change, based on US\$ values			
1.2.15 · Exports of goods & commercial services	31.37	408.43	56 ²⁰²¹
US\$ billions			
1.2.16 · Exports breakdown by economic sector			2020
Percentage of total exports			
Exports breakdown by economic sector / Agriculture	11.7	11.3	2020
Exports breakdown by economic sector / Industry	59.9	64.4	2020
Exports breakdown by economic sector / Services	28.4	24.3	2020
1.2.17 · Export concentration by partner	50.8	55.0	25 ²⁰²⁰
Exports to top 5 countries, percentage of total exports			
1.2.18 · Export concentration by product	42.6	57.6	7 2020
Top 5 products, percentage of total exports			
1.2.19 · Imports of goods & commercial services (\$bn)	31.8	402.5	9 ²⁰²¹
US\$ billions			
1.2.20 · Imports of goods & commercial services (%)	87.7	54.7	54 ²⁰²¹
Percentage of GDP			
1.2.21 · Imports of goods & commerc. services growth	34.88	24.33	56 ²⁰²¹
Percentage change, based on US\$ values			
1.2.22 · Imports breakdown by economic sector			2020
Percentage of total imports			
Imports breakdown by economic sector / Agriculture	10.1	9.0	2020
Imports breakdown by economic sector / Industry	63.4	67.7	2020
Imports breakdown by economic sector / Services	26.5	23.3	2020
imports breakdown by economic sector 7 services			13 ²⁰²⁰
	151 45	102 61	13 2020
1.2.23 · Trade to GDP ratio	151.45	102.61	13 2020
1.2.23 · Trade to GDP ratio (Exports + Imports) / GDP			
1.2.23 · Trade to GDP ratio [Exports + Imports] / GDP 1.2.24 · Terms of trade index	151.45 104.5	102.61 99.4	
1.2.23 · Trade to GDP ratio [Exports + Imports] / GDP			13 ²⁰²⁰ 13 ²⁰²⁰ 19 ²⁰²⁰

12.	International	Invoctment
1.0	memationat	Investment

Value Average Rank 'ear

1.5 · International Investment	Value P	average r	ank ear
1.3.01 · Direct investment flows abroad (\$bn)	0.32	14.96	43 ²⁰²⁰
1.3.02 · Direct investment flows abroad (% of GDP)	1.06	4.62	26 2020
Percentage of GDP			
1.3.03 · Direct investment stocks abroad (\$bn)	11.1	612.1	51 ²⁰²⁰
US\$ billions			
1.3.04 · Direct investment stocks abroad (% of GDP)	36.29	109.57	29 2020
Percentage of GDP			
1.3.05 · Direct investment flows inward (\$bn)	3.54	16.61	38 2020
US\$ billions			
1.3.06 · Direct investment flows inward (% of GDP)	11.54	4.86	6 2020
Percentage of GDP			
1.3.07 · Direct investment stocks inward (\$bn)	34.4	613.9	53 ²⁰²⁰
US\$ billions			
1.3.08 · Direct investment stocks inward (% of GDP)	112.39	122.21	10 2020
Percentage of GDP			
1.3.09 · Balance of direct investment flows (\$bn)	-3.21	-1.64	41 ²⁰²⁰
US\$ billions (flows abroad minus flows inward)			
1.3.10 · Balance of direct investment flows (%)	-10.48	-0.24	59 ²⁰²⁰
Percentage of GDP (flows abroad minus flows inward)			
1.3.11 · Net position in direct investment stocks (\$bn)	-23.3	-1.8	30 2020
US\$ billions (stocks abroad minus stocks inward)			
1.3.12 · Net position in direct investment stocks (%)	-76.10	-12.64	58 ²⁰²⁰
Percentage of GDP (stocks abroad minus stocks inward)			
1.3.13 · Relocation threats of business	5.55	5.36	23 2022
Relocation of business is not a threat to the future of your economy			
1.3.14 · Portfolio investment assets	5.50	38.51	36 ²⁰²⁰
US\$ billions			
1.3.15 · Portfolio investment liabilities	2.26	34.92	37 ²⁰²⁰
US\$ billions			

1.4 · Employment	Value A	Value Average Rank 'ea		
1.4.01 · Employment	0.65	38.16	60 ²⁰²¹	
Total employment in millions				
1.4.02 · Employment (%)	48.98	47.14	24 2021	
Percentage of population				
1.4.03 · Employment - growth	-0.46	1.54	47 2021	
Estimates: percentage change				
1.4.04 · Employment - long-term growth	-0.86	-0.41	40 2021	
Estimates: five year percentage change				
1.4.05 · Employment by sector			2021	
Percentage of total employment				
Employment by sector / Agriculture	2.6	7.7	2021	
Employment by sector / Industry	29.0	23.5	2021	
Employment by sector / Services	68.3	68.8	2021	
1.4.06 · Employment in the public sector	24.70	17.83	47 2020	
Percentage of total employment				
1.4.07 · Unemployment rate	6.20	8.00	34 2021	
Percentage of labor force				
1.4.08 · Long-term unemployment	1.67	2.81	30 2021	
Percentage of labor force				
1.4.09 · Youth unemployment	16.77	17.13	39 ²⁰²¹	
Percentage of youth labor force (under the age of 25)				
1.4.10 · Youth exclusion	8.9	14.6	17 2020	
Share of youth population (15-24) not in education, employment or training				

1.5 · Prices		Value Average R	
1.5.01 · Consumer price inflation	4.49	29.25	47 ²⁰²¹
Average annual rate			
1.5.02 · Cost-of-living index	68.30	78.37	19 ²⁰²¹
Index of a basket of goods & services in the main city, including housing (New York City = 100)			
1.5.03 · Apartment rent	913	1,530	17 ²⁰¹⁸
3-room apartment monthly rent in major cities, US\$			
1.5.04 · Office rent	293	656	12 2021
Total occupation cost in the main city (US\$/Sq.M. per year)			
1.5.05 · Food costs	19.48	17.58	40 2021
Percentage of household final consumption expenditures			
1.5.06 · Gasoline prices	1.54	1.26	43 2021
Premium unleaded gasoline (95 Ron) US\$ per litre			

Extended Country Profile

2 · Government Efficiency

2.1 · Public Finance	Value	Value Average Rank 'e	
2.1.01 · Government budget surplus/deficit (\$bn) US\$ billions	-0.85	-91.93	12 ²⁰²¹
2.1.02 · Government budget surplus/deficit (%) Percentage of GDP	-2.35	-4.00	17 ²⁰²¹
2.1.03 · Total general government debt (\$bn) US\$ billions	6.55	1,436.31	2 2021
2.1.04 · Total general government debt (%) Percentage of GDP	18.05	71.59	2 2021
2.1.05 · Total general government debt-real growth Percentage change, based on national currency in constant prices	3.91	8.58	27 2021
2.1.06 · Interest payment (%) Percentage of current revenue	0.12	5.98	2 2021
2.1.07 · Public finances Public finances are being efficiently managed	6.55	4.92	11 ²⁰²²
2.1.08 · Tax evasion Tax evasion is not a threat to your economy	6.30	5.05	17 ²⁰²²
2.1.09 · Pension funding Pension funding is adequately addressed for the future	4.18	4.77	42 2022
2.1.10 · General government expenditure Percentage of GDP	42.3	38.2	35 ²⁰²¹

2.2 · Tax Policy

2.2 · Tax Policy	Value Average Rank 'ea		ank 'ear
2.2.01 · Collected total tax revenues	34.51	27.09	42 2020
Percentage of GDP			
2.2.02 · Collected personal income tax	6.16	6.00	38 2020
On profits, income and capital gains, as a percentage of GDP			
2.2.03 · Collected corporate taxes	1.68	2.70	10 2020
On profits, income and capital gains, as a percentage of GDP			
2.2.04 · Collected indirect tax revenues	12.55	9.41	49 2020
Taxes on goods and services as a percentage of GDP			
2.2.05 · Collected capital and property taxes	0.23	1.47	12 2020
Percentage of GDP			
2.2.06 · Collected social security contribution	14.24	7.28	54 2020
Compulsory contribution of employees and employers as a percentage of GDP			
2.2.07 · Corporate tax rate on profit	20.00	22.34	16 ²⁰²¹
Maximum tax rate, calculated on profit before tax			
2.2.08 · Consumption tax rate	20.00	16.37	38 2021
Standard rate of VAT/GST			
2.2.09 · Employer social security tax rate	33.8	16.0	59 ²⁰²¹
%			
2.2.10 · Employee social security tax rate	3.6	10.4	11 ²⁰²¹
%			
2.2.11 · Real personal taxes	6.15	5.12	14 2022
Real personal taxes do not discourage people from working or seeking advancement			

2.3.01 · Real short-term interest rate	-4.76	-	
		-3.07	4 2021
Real discount / bank rate			
2.3.02 · Cost of capital	6.84	5.63	14 2022
Cost of capital encourages business development			
2.3.03 · Interest rate spread	1.27	3.49	7 2021
Lending rate minus deposit rate			
2.3.04 · Country credit rating	50.0	43.0	24 ²⁰²¹
Index (0-60) of three country credit ratings: Fitch, Moody's and S&P			
2.3.05 · Central bank policy	6.88	6.31	23 2022
Central bank policy has a positive impact on the economy			
2.3.06 · Foreign currency reserves	2.37	216.77	60 ²⁰²¹
US\$ billions			
2.3.07 · Foreign currency reserves per capita	1,784	9,199	47 2021
US\$ per capita			
2.3.08 · Exchange rate stability	0.024	0.072	9 2021
Parity change from national currency to SDR, 2021 / 2019			
2.3.09 · Legal and regulatory framework	6.27	5.37	21 2022
The legal and regulatory framework encourages the competitiveness of enterprises			
2.3.10 · Adaptability of government policy	5.67	4.83	20 2022
Adaptability of government policy to changes in the economy is high			
2.3.11 · Transparency	6.15	4.87	14 ²⁰²²
Transparency of government policy is satisfactory			
2.3.12 · Bureaucracy	5.49	3.72	9 2022
Bureaucracy does not hinder business activity			
2.3.13 · Bribery and corruption	7.10	4.77	15 ²⁰²²
Bribery and corruption do not exist			
2.3.14 · Rule of law	89.42	72.47	19 ²⁰²⁰
Rule of Law Index			
2.3.15 · Sustainable Development Goals	81.6	75.1	10 ²⁰²¹
Country performance on the 17 SDGs			
2.3.16 · Democracy Index	7.84	6.97	24 ²⁰²¹
EIU Overall Democracy Index, © The Economist Intelligence Unit Limited 2021			

2.4 · Business Legislation	siness Legislation Value Average Rank		ank 'ear		
2.4.01 · Tariff barriers	1.48	2.32	11 ²⁰²⁰		
Tariffs on imports: Applied weighted mean tariff rate for all products					
2.4.02 · Protectionism	7.22	5.74	13 2022		
Protectionism of your government does not impair the conduct of your business					
2.4.03 · Public sector contracts	7.25	5.96	11 ²⁰²²		
Public sector contracts are sufficiently open to foreign bidders					
2.4.04 · Foreign investors	8.12	6.82	14 ²⁰²²		
Foreign investors are free to acquire control in domestic companies					
2.4.05 · Capital markets	7.19	6.57	26 ²⁰²²		
Capital markets (foreign and domestic) are easily accessible					
2.4.06 · Investment incentives	5.88	5.93	37 2022		
Investment incentives are attractive to foreign investors					
2.4.07 · Government subsidies	0.97	2.02	15 ²⁰²¹		
To private and public companies as a percentage of GDP					
2.4.08 · Subsidies	5.37	5.52	38 2022		
Subsidies do not distort fair competition and economic development					
2.4.09 · State ownership of enterprises	5.94	6.04	37 2022		
State ownership of enterprises is not a threat to business activities					
2.4.10 · Competition legislation	6.73	5.84	15 ²⁰²²		
Competition legislation is efficient in preventing unfair competition					
2.4.11 · Parallel economy	6.18	5.14	20 2022		
Parallel (black-market, unrecorded) economy does not impair economic development					
2.4.12 · New business density	24.8	5.8	1 2019		
Registered new businesses per 1'000 people aged 15-64					
2.4.13 · Creation of firms	8.90	6.63	1 2022		
Creation of firms is supported by legislation					
2.4.14 · Start-up days	3.5	15.1	6 2019		
Number of days to start a business					
2.4.15 · Start-up procedures	3.0	6.0	6 2019		
Number of procedures to start a business					
2.4.16 · Labor regulations	7.22	5.50	7 2022		
Labor regulations (hiring/firing practices, minimum wages, etc.) do not hinder business activities					
2.4.17 · Unemployment legislation	6.30	4.99	11 ²⁰²²		
Unemployment legislation provides an incentive to look for work					
2.4.18 · Immigration laws	4.75	5.83	53 2022		
Immigration laws do not prevent your company from employing foreign labor					
2.4.19 · Redundancy costs	4.3	9.4	21 ²⁰¹⁹		
Number of weeks of salary					

2.5 · Societal Framework		Value Average Rank '		
2.5.01 · Justice	7.52	5.72	16 ²⁰²²	
Justice is fairly administered				
2.5.02 · Homicide	3.17	4.28	48 2020	
Intentional homicide, rate per 100'000 population				
2.5.03 · Ageing of population	20.3	14.8	51 ²⁰²¹	
Population over 65, percentage of total population				
2.5.04 · Risk of political instability	5.94	5.80	33 2022	
The risk of political instability is very low				
2.5.05 · Social cohesion	5.48	5.68	36 2022	
Social cohesion is high				
2.5.06 · Gini coefficient	30.80	35.03	20 2019	
Equal distribution of income scale: 0 (absolute equality) to 100 (absolute inequality)				
2.5.07 · Income distribution - lowest 10%	2.39	2.75	2019	
Percentage of household incomes going to lowest 10% of households				
2.5.08 · Income distribution - highest 10%	27.02	26.98	2019	
Percentage of household incomes going to highest 10% of households				
2.5.09 · Income distribution - lowest 40%	20.53	18.99	21 ²⁰¹⁹	
Percentile going to the lowest 40% of households				
2.5.10 · Income distribution - lowest 40% growth	1.68	0.34	12 2019	
Percentile going to the lowest 40% of households - growth				
2.5.11 · Equal opportunity	6.63	6.17	26 2022	
Equal opportunity legislation in your economy encourages economic development				
2.5.12 · Females in parliament	25.74	29.11	37 2021	
Percentage of total seats in Parliament				
2.5.13 · Unemployment rate - gender ratio	0.82	1.25	6 2021	
Ratio of the female and male unemployement rates				
2.5.14 · Gender inequality	0.086	0.183	23 2019	
Gender Inequality Index (UNDP)				
2.5.15 · Disposable Income	79.6	72.2	23 2021	
Female / male ratio				
2.5.16 · Freedom of the Press	15.25	27.85	12 2021	
Reporters Without Borders: World Press Freedom Score				

Extended Country Profile

3 · Business Efficiency

3.1 · Productivity & Efficiency	Value	Value Average Rank 'e	
3.1.01 · Overall productivity (PPP)	82,528	84,576	34 ²⁰²¹
Estimates: GDP (PPP) per person employed, US\$			
3.1.02 · Overall productivity (PPP) - real growth	5.28	2.84	15 ²⁰²¹
Estimates: Percentage change of GDP (PPP) per person employed			
3.1.03 · Labor productivity (PPP)	46.02	48.28	33 2021
Estimates: GDP (PPP) per person employed per hour, US\$			
3.1.04 · Agricultural productivity (PPP)	69,993	55,834	19 ²⁰²¹
Estimates: Related GDP (PPP) per person employed in agriculture, US\$			
3.1.05 · Productivity in industry (PPP)	67,506	107,180	47 ²⁰²¹
Estimates: Related GDP (PPP) per person employed in industry, US\$			
3.1.06 · Productivity in services (PPP)	94,444	86,235	25 2021
Estimates: Related GDP (PPP) per person employed in services, US\$			
3.1.07 · Workforce productivity	6.48	6.15	26 2022
Workforce productivity is competitive by international standards			
3.1.08 · Large corporations	6.52	6.67	39 ²⁰²²
Large corporations are efficient by international standards			
3.1.09 · Small and medium-size enterprises	6.58	6.12	25 2022
Small and medium-size enterprises are efficient by international standards			
3.1.10 · Use of digital tools and technologies	6.78	6.29	19 ²⁰²²
Companies are very good at using digital tools and technologies to improve performance			

Total today compensation manufacturing lenges supplementary boneflat, USS -1.10 1.90 8.487 2.02. Unit late costs for total economy -1.10 1.90 8.487 Presentage change 1.502 2.0.9 Remuneration in services professions 15.522 2.0.9 Remuneration in services professions / Coll center agent 10.927 10.927 9.809 Remuneration in services professions / Nurse 15.266 30.277 9.80 Remuneration in services professions / Primary school 16.646 30.927 9.80 Remuneration in services professions / Product Manager 23.800 40.902 9.80 Remuneration in services professions / Secretary / Personal 11.973 22.903 800 3.204 Remuneration of management / ECD 107.667 30.827 300 Remuneration of management / Director montacturing 100.056 140.936 300 Remuneration of management / Engineer 33.177 80.327 300 Remuneration of management / Engineer 33.177 80.327 300 Remuneration of management / Engineer 1.94 33 32.05 Remuner	3.2 · Labor Market	Value	Average F	Rank 'ear
32.02 Unit labor costs for total according 1.10 1.59 8 2000 32.02 Remuneration in services professions 15.522 26.619 21 24 Areas samal commentation support 10.327 15.080 3.027 3000 3000 Remuneration in services professions / Dail center agent 10.327 15.080 30.277 3000 Remuneration in services professions / Primary school 16.545 30.370 3000 3000 Remuneration in services professions / Sales Assistant 14.522 19.165 2000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 30000 3000 3000 <t< th=""><th>•</th><th>10.05</th><th>15.09</th><th>32 ²⁰²¹</th></t<>	•	10.05	15.09	32 ²⁰²¹
3.2.03. Remuneration in services professions 15.552 28.649 21 38.049 Dross annuteration in services professions / Call center agent 10.027 15.056 30.277 38.06 Remuneration in services professions / Varise 15.265 30.277 38.06 Remuneration in services professions / Primary school 16.645 30.570 38.07 Remuneration in services professions / Sales Assistant 14.522 9.106 38.07 Remuneration in services professions / Sales Assistant 14.522 9.106 38.07 Remuneration in services professions / Sales Assistant 14.522 9.106 38.07 Remuneration of management / Director manufacturing 100.658 140.350 39.07 Remuneration of management / Engineer 33.177 30.327 38.07 Remuneration of management / Engineer 33.177 40.455 39.07 Remuneration of management / Lingineer 33.177 40.455 39.07 2.265 Remuneration of management / Lingineer 33.177 40.455 39.07 3.204 Hork forg provid 64.2 58.7 52.0 30.27 Remuneration of management / Lingi		-1.10	1.59	8 2021
Errors samal income hotulong supplements sub a borune, US3 84 Remuneration in services professions / Call center agent 10.327 96.099 84 Remuneration in services professions / Nurse 15.296 0.227 84 Remuneration in services professions / Nurse 16.246 0.007 84 Remuneration in services professions / Product Manager 23.300 43.002 84 Remuneration in services professions / Selvs Assistant 14.422 10.163 84 Remuneration in services professions / Secretary / Personal 11.973 22.003 84 3.2.04 - Remuneration of management 96.070 187.687 96.633 98 Remuneration of management / CEO 187.687 90.633 98 93.277 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 93.97 94.99 94.99		15 532	28 619	21 2018
Remuneration in services professions / Nurse 15,285 30,277 870 Remuneration in services professions / Nurse 15,285 30,277 870 Remuneration in services professions / Product Manager 23,380 49,302 870 Remuneration in services professions / Servic		10,002	20,010	21
Remuneration in services professions / Primary school 16.545 30.070 400 Remuneration in services professions / Product Manager 23,830 49,302 200 Remuneration in services professions / Soles Assistant 14,522 10,165 400 Remuneration in services professions / Soles Assistant 11,973 22,003 200 Remuneration of management 96,070 160,169 5 200 Total take salary flux bendes and long-term incentee, US 5 200 187,667 306,555 200 Remuneration of management / CEO 187,667 306,557 200 200 160,169 5 200 Remuneration of management / Engineer 35,177 80,327 200 30,307 200 Remuneration spread 16,23 17,99 2 200 30,307 200 Remuneration spread 32,000 Newfor motivation 6,42 5,67 30,302 200 200 200 200 200 200 200 200 200 200 200 200 200	Remuneration in services professions / Call center agent	10,927	19,099	2018
Remuneration in services professions / Product Manager 23,930 49,902 2010 Remuneration in services professions / Sales Assistant 14,522 19,165 2010 Remuneration in services professions / Sales Assistant 11,973 22,903 2010 3.2.04 - Remuneration of management 96,070 169,169 15 2010 Total tass estant pub is bones and enort 100,685 149,356 2007 169,169 15 2010 Remuneration of management / CCO 187,667 306,535 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010<	Remuneration in services professions / Nurse	15,295	30,277	2018
Remuneration in services professions / Sales Assistant 14,522 19,165 2010 Remuneration in services professions / Sales Assistant 14,522 19,165 2010 3.2.04 - Remuneration of management / CEO 96,070 169,169 15 2010 Total base stating ylus bonus and ong-term incentives, USS 157,867 306,555 2010 Remuneration of management / Director manufacturing 100,688 149,356 2010 Remuneration of management / Lingineer 33,177 80,327 2010 Remuneration of management / Human resources director 70,777 140,455 3010 2.2.05 - Working hours 1,709 1,843 3020 Action of CEO to prevent lassistant remuneration 642 5,87 20 2.2.07 - Worker motivation 642 5,87 20 200 Working hours 1,221 1221 2011 2211 2011 2.09 - Apper motivation in companies is high 3,210 - Employee training is high priority in companies 5,87 5,20 20 2.101 - Employee training is high priority in companies 5,87 5,20 20 20 2.11 - Labor force (Sh) 5,21 5,87 5,20 20 20 2.121 - Labor force (Sh) 5,21 5,87	Remuneration in services professions / Primary school	16,545	30,970	2018
Neuroid entropy Description Description <thdescription< th=""></thdescription<>	Remuneration in services professions / Product Manager	23,930	49,302	2018
2.04 Remuneration of management 96,070 169,169 15 500 7.0at base supplus benease, and leng-term incentives, USS 100,668 149,356 200 Remuneration of management / ECO 187,667 306,355 200 Remuneration of management / Engineer 33,177 80,327 200 Remuneration of management / Human resources director 70,777 140,455 200 3.2.05 Remuneration spread 16.23 17.99 32 200 3.2.05 Remuneration spread 16.23 17.99 32 200 3.2.05 Remuneration spread 16.23 17.99 32 200 3.2.05 Working hours 1.93 1.843 33 39 Average number of working hours per yeer 1.93 1.843 33 39 2.06 Working advas tostper 1.000 inhabitants per year laverage 2018-2020 0.01 1.221 12 0.03 3.2.07 Appendiceships 5.67 5.20 20 800 800 20 800	Remuneration in services professions / Sales Assistant	14,522	19,165	2018
Total base salary plus boruses and long-term incentives, USS 187,667 306,535 2018 Remuneration of management / Eligineer 33,177 80,327 2019 Remuneration of management / Engineer 33,177 80,327 2019 Remuneration of management / Human resources director 70,777 140,455 2019 3.2.05 Remuneration spread 16.23 17.99 32 2019 3.2.06 Working hours 1.978 1.843 33 207 Worker motivation 6.42 5.87 20 207 Worker motivation 6.42 5.87 20 202 3.2.09 Working hours per year .001 12.21 12 201 Worker motivation 6.42 5.87 20 207 20 207 3.2.09 Horin habitants per year laverage 2018-20201 .001 12.21 12 20 20 3.2.10 Labor force 0.09 40.47 60 8 22 21 22 60.03 8 <td< td=""><td>Remuneration in services professions / Secretary / Personal</td><td>11,973</td><td>22,903</td><td>2018</td></td<>	Remuneration in services professions / Secretary / Personal	11,973	22,903	2018
Remuneration of management / CEO 187,667 308,555 308 Remuneration of management / Director manufacturing 100,658 149,356 2003 Remuneration of management / Engineer 33,177 80,327 2014 Remuneration of management / Engineer 33,177 80,327 2014 Remuneration of management / Human resources director 70,777 140,455 308 32.05 Remuneration spread 162.3 17.99 32 2014 Retrie of CEO to personal assistant remuneration 33 3021 Average number of working hours per year 32.00 1.043 33 3021 Average number of working hours per year 32.00 1.01 1.221 12 30 302 32.09 Vaorker motivation in companies is high 32.00 1.021 12 30 902 32.10 Employee training is a high pnority in companies 5.67 5.20 20 902 32.11 Labor force 0.69 40.47 60 387 23.12 Labor force (bi) 52.19	3.2.04 · Remuneration of management	98,070	169,169	15 ²⁰¹⁹
Remuneration of management / Director manufacturing 100,658 149,356 2010 Remuneration of management / Engineer 33,177 80.327 2019 Remuneration of management / Human resources director 70,777 140,455 2010 Ratio of CEO to personal assistant remuneration 16.23 17.99 32 2011 S2.06 Working hours per year 1,733 1,843 33 2021 Average number of working hours per year 0,01 12.21 12 2011 2.07 Worker motivation in companies is high 0,01 12.21 12 2011 2.08 Industrial disputes 0,01 12.21 12 2011 3.207 Worker motivation in companies is high 0,01 12.21 12 2011 3.208 Industrial disputes 0,01 12.21 12 2012 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2214 <		187 667	306 535	2019
Remuneration of management / Engineer 33,177 60,327 201 Remuneration of management / Engineer 33,177 60,327 201 Remuneration of management / Human resources director 70,777 140,455 201 32,05 - Remuneration spread 16,23 17,99 32 201 Ratio of CEO to personal assistant remuneration 1,733 1,843 33 307 Average number of working hours 1,733 1,843 33 307 Average number of working hours per year 1,733 1,843 33 307 32,06 - Working hours 6,42 5,87 20 202 Worker motivation 6,42 5,87 20 202 32,09 - Apprenticeships 6,67 5,20 20 207 32,10 - Employee training is a high priority in companies 7 24 6,03 6 22,11 - Labor force 0,69 40,47 60 307 22,12 - Labor force (%) 52,19 50,09 21 202 Parcentage of total enployment -1,22 1,18 55 207 32,13 - Labor force or long-term growth -0,54 -0,67 35 202 22,14 - Labor force - long-term growth -0,54 -0,67	-	107,007	500,555	
Internation of management / Human resources director 33,17 60,327 Remuneration of management / Human resources director 70,777 140,455 2010 Ratio of CEO to personal assistant remuneration 16.23 17.99 32 2014 S2.06 - Working hours 17.93 1.843 33 2021 Working days ther motivation 6.42 5.87 20 202 Working days the motivation 6.42 5.87 20 202 Working days tot per 1,000 inbatiants per year (average 2018-2020) 0.01 12.21 12 200 3.2.09 - Apprenticeships are sufficiently implemented 5.67 5.20 20 202 3.2.10 - Employee training is a high priority in companies 5.219 50.09 21 21.02 2.1.10 - Labor force (%) 52.19 50.09 21 21.02 1.85 20.02 2.2.12 - Labor force (%) 52.19 50.09 21 22.02 20.02 20.02 20.02 20.02 20.02 20.02 20.02 20.02 20.02 20.02 20.02	Remuneration of management / Director manufacturing	100,658	149,356	2019
Internation of management / Human resoluces an ector 10,171 10,000 32.05 - Remuneration spread Ratio of CD personal assistant remuneration 16.23 17.99 32 20 32.05 - Working hours Average number of working hours per year 1.793 1,843 33 207 32.07 - Worker motivation in companies is high 0.01 12.21 12 20 32.08 - Industrial disputes Apprenticeships are sufficiently implemented 0.01 12.21 12 20 32.10 - Working days lost per 1,000 inhabitants per year [average 2018-2020] 0.01 12.21 12 12 0.01 22.11 12 0.01 22.11 12 0.01 22.11 12 0.02 202 202 202 202 202 202 202 202 202 202 202 202 20 202 202 202 202 202 202 202 202 202 202 202 202 202 202 202 202 202 202 202 202 202 202 202	Remuneration of management / Engineer	33,177	80,327	2019
Ratio of CEO to personal assistant remuneration 1,793 1,843 32 2021 3.2.07 · Worker motivation 6.42 5.87 20 2022 Worker motivation in companies is high 0.01 12.21 12 2014 3.2.08 · Industrial disputes 0.01 12.21 12 2014 Working days lost per 1,000 inhabitants per year (average 2018-2020) 3.209	Remuneration of management / Human resources director	70,777	140,455	2019
3.2.06 · Working hours 1,793 1,843 33 2007 Average number of working hours per year 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007 2007	·	16.23	17.99	32 ²⁰¹⁸
3.2.07 · Worker motivation 6.42 5.87 20 2022 Working days lost per 1,000 inhabitants per year (average 2018-2020) 0.01 12.21 12 2018 3.2.08 · Industrial disputes 0.01 12.21 12 2018 Working days lost per 1,000 inhabitants per year (average 2018-2020) 5.67 5.20 20 2022 Apprenticeships are sufficiently implemented 3.2.10 · Employee training is a high priority in companies 5.67 5.00 2 2022 2.11 · Labor force 0.69 40.47 60 2027 3.2.12 · Labor force (%) 52.19 50.09 21 2027 9.2.13 · Labor force (%) 52.19 50.09 21 2027 3.2.13 · Labor force (%) -0.64 -0.67 35 2027 3.2.13 · Labor force or (%) -0.54 -0.67 35 2027 3.2.13 · Labor force or (%) -0.64 -0.67 35 2027 9.2.14 · Labor force or (%) -0.64 -0.67 35 2027 3.2.16 · Female labor force 49.02 </td <td></td> <td>1,793</td> <td>1,843</td> <td>33 ²⁰²¹</td>		1,793	1,843	33 ²⁰²¹
Worker motivation in companies is high 3.2.08 - Industrial disputes 0.01 12.21 12 202 Working days lost per 1,000 inhabitants per year laverage 2018-20201 5.67 5.20 202 Apprenticeships are sufficiently implemented 5.67 5.20 202 Apprenticeships are sufficiently implemented 6.69 40.47 60 202 Employee training is a high priority in companies 3.21.10 - Employed and registered unemployed (mittions) 5.17 5.00.9 21 202 3.2.12 - Labor force [%] 52.19 50.09 21 202 Percentage of population -1.22 1.18 55 202 2.13 - Labor force growth -1.22 1.18 55 202 Percentage change - - - 202 202 2.14 - Labor force growth -1.22 1.18 55 202 2.15 - Part-time employment 13.50 15.19 32 200 2.16 - Female labor force 49.02 42.68 6 202 Migrant stock, ape 20-44,		0.40	- 07	2022
Working days lost per 1,000 inhabitants per year (average 2018-2020) 3.2.09 · Apprenticeships are sufficiently implemented 3.2.10 · Employee training 7.24 6.03 8 2022 Employee training is a high priority in companies 0.69 40.47 60 221 S.2.11 · Labor force 0.69 40.47 60 221 Employee training is a high priority in companies 3.2.12 · Labor force (%) 52.19 50.09 21 2201 Percentage of population -1.22 1.18 55 2021 52.01 52.01 52.02 2022 Percentage of population -0.54 -0.67 35 2021 52.01 52.01 52 2020 2022 2020 2022 2020 2021 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2022		6.42	5.87	
3.2.09 · Apprenticeships 5.67 5.20 2022 Apprenticeships are sufficiently implemented 7.24 6.03 8 2022 Employee training 7.24 6.03 8 2022 Employee training is a high priority in companies 0.69 40.47 60 2041 Employee training is a high priority in companies 0.69 40.47 60 2041 S2.12 · Labor force (%) 90.09 21 2021 1.18 55 2001 2012 Percentage of population -1.22 1.18 55 2021 2020 3.2.13 · Labor force growth -0.54 -0.67 35 2021 S2.14 · Labor force - long-term growth -0.54 -0.67 35 2020 Percentage of total employment 13.50 15.19 32 2020 Percentage of total employment 3.2.10 - Foreign labor force 49.02 42.68 6 2021 S2.10 · Foreign labor force 49.02 42.68 6 2021 2020 2022 2		0.01	12.21	12 ²⁰¹⁸
3.2.10 · Employee training 7.24 6.03 8 2022 Employee training is a high priority in companies 0.69 40.47 60 2021 S2.11 · Labor force 0.69 40.47 60 2021 Employee and registered unemployed (millions) 52.19 50.09 21 2021 3.2.12 · Labor force [%) 52.19 50.09 21 2021 Percentage of population -1.22 1.18 55 2021 3.2.13 · Labor force growth -0.54 -0.67 35 2021 Percentage change -0.54 -0.67 35 2021 3.2.16 · Percentage of total employment -0.54 -0.67 35 2021 Percentage of total employment -0.54 -0.67 35 2021 Solide labor force 49.02 42.68 6 2021 Percentage of total employment -0.54 -0.67 35 2022 Solide labor force 49.02 42.68 6 2021 Solide labor is readily available -0.54 60 2022 52.16 1.2022	3.2.09 · Apprenticeships	5.67	5.20	20 2022
32.11 · Labor force 0.69 40.47 60 2021 Employed and registered unemployed (millions) 32.12 · Labor force (%) 52.19 50.09 21 2021 Percentage of population -1.22 1.18 55 2021 32.13 · Labor force growth -1.22 1.18 55 2021 Percentage change -0.54 -0.67 35 2021 32.14 · Labor force - long-term growth -0.54 -0.67 35 2021 Estimates: five year percentage change -0.54 -0.67 35 2021 32.15 · Part-time employment 13.50 15.19 32 2020 Percentage of total employment -0.54 -0.67 35 2021 Percentage of total employment -0.54 -0.67 35 2021 S2.16 · Fornale labor force -0.54 -0.67 35 2021 Migrant stock, age 20-64, % of population -0.27 5.21 61 2022 Skilled labor is readily available -0.51 6.07 60 2022 Skilled labor is readily available -0.51 6.07 <t< td=""><td></td><td>7.24</td><td>6.03</td><td>8 2022</td></t<>		7.24	6.03	8 2022
Employed and registered unemployed (millions) 3.2.12 · Labor force (%) 52.19 50.09 21 2021 Percentage of population -1.22 1.18 55 2021 Percentage of population -1.22 1.18 55 2021 S2.13 · Labor force growth -0.54 -0.67 35 2021 Estimates: five year percentage change - - - 2020 32.15 · Part-time employment 13.50 15.19 32 2020 Percentage of total employment - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -<		0.60	40.47	60 2021
Percentage of population3.2.13 · Labor force growth Percentage change-1.221.185520212.14 · Labor force - long-term growth Estimates: five year percentage change-0.54-0.673520213.2.15 · Part-time employment13.5015.19322020Percentage of total employment13.5015.19322020Percentage of total employment3.2.16 · Female labor force49.0242.6862021Percentage of total labor force49.0242.6862021Percentage of total labor force or3.2.175.21612022Stilled labor3.2.75.21612022Skilled labor3.2.75.21612022Skilled labor3.2.75.21612022Skilled labor3.2.75.21612022Skilled labor3.2.75.21602022Skilled labor3.2.75.21612022Skilled labor3.2.75.21612022Skilled labor3.2.75.21612022Skilled labor5.164.93302022Skilled net enting talents5.164.93302022Skilled net enting talents5.164.93302022Perciph highly-skilled personnel5.164.93302022Brain drain (well-educated and skilled people) does not hinder competitiveness in your economy5.885.39262022 <tr< td=""><td></td><td>0.69</td><td>40.47</td><td></td></tr<>		0.69	40.47	
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3.2.14 · Labor force - long-term growth -0.54 -0.67 35 2021 Estimates: five year percentage change 13.50 15.19 32 2020 Percentage of total employment 13.50 15.19 32 2020 Percentage of total labor force 49.02 42.68 6 2021 Percentage of total labor force 32.17 · Foreign labor force - migrant stock 14.14 17.76 33 2020 Migrant stock, age 20-64, % of population 3.27 5.21 61 2022 Skilled labor 3.27 5.21 61 2022 Skilled labor is readily available 3.27 5.21 61 2022 Scilled readily available 3.27 5.16 4.93 30 2022 Attracting and retaining talents is a priority in companies 5.16 4.93 30 2022 Brain drain (well-educated and skilled people) does not hinder competitiveness in your economy 5.88 5.39 26 2022 Brain drain (well-educated and skilled people) does not hinder competitiveness in your economy 5.88 5.39 26 2022 Brain drain (well-educated and skilled peo		-1.22	1.18	55 ²⁰²¹
Estimates: five year percentage change3.2.15 · Part-time employment13.5015.19322020Percentage of total employment49.0242.68620213.2.16 · Fernale labor force49.0242.6862021Percentage of total labor force3214.1417.76332020Migrant stock, age 20-64, % of population3.275.21612022Skilled labor3.275.21612022Skilled labor3.275.21612022Skilled labor3.275.21612022Finance skills are readily available3.2.106.07602022Stated tabor7.616.82152022Finance skills are readily available3.2.20Attracting and retaining talents7.616.82153.2.20 · Attracting and retaining talents5.164.93302022Attracting and retaining talents is a priority in companies3.22.22Foreign highly-skilled personnel5.885.39203.2.22 · Foreign highly-skilled personnel5.885.39262022Foreign highly-skilled personnel are attracted to your country's business environment5.455.62372022International experience5.455.62372022International experience of senior managers is generally significant4.215.45532022		-0.54	-0.67	35 ²⁰²¹
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3.2.17 · Foreign labor force - migrant stock14.1417.76332020Migrant stock, age 20-64, % of population3.275.216120223.2.18 · Skilled labor3.275.21612022Skilled labor is readily available4.516.076020223.2.19 · Finance skills4.516.07602022Finance skills are readily available7.616.821520223.2.20 · Attracting and retaining talents7.616.82152022Attracting and retaining talents is a priority in companies3.2.21 · Brain drain5.164.93302022Brain drain (well-educated and skilled people) does not hinder competitiveness in your economy5.885.39262022Foreign highly-skilled personnel5.455.62372022International experience5.455.62372022International experience of senior managers is generally significant4.215.45532022		49.02	42.68	6 ²⁰²¹
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Skilled labor is readily available3.2.19 · Finance skills are readily available3.2.20 · Attracting and retaining talents3.2.20 · Attracting and retaining talents3.2.20 · Attracting and retaining talents3.2.21 · Brain drainBrain drainS.2.22 · Foreign highly-skilled personnel5.885.39262022Foreign highly-skilled personnel are attracted to your country's business environment3.2.23 · International experience5.455.623.2.24 · Competent senior managers4.215.455.320224.215.455.320224.215.455.320232024202520252026202720282029202920292020202120222023202320242025202520262027202720282029202920202021202120222023202320242025202520262026202720282029202920292029202920292029202920292029202		3 27	5 21	61 2022
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Foreign highly-skilled personnel are attracted to your country's business environment 3.2.23 · International experience 5.45 5.62 37 2022 International experience of senior managers is generally significant 4.21 5.45 53 2022		5.88	5.39	26 2022
International experience of senior managers is generally significant 3.2.24 · Competent senior managers 4.21 5.45 53 ²⁰²²	Foreign highly-skilled personnel are attracted to your country's business environment	E /F	5 60	
		5.45	5.62	
		4.21	5.45	53 ²⁰²²

Percentage of GDP3.3.02 : Financial cards in circulation1.713.45432016Number of cards per capita3.03 : Financial card transactions7.00911,334372016US\$ per capita3.304 : Access to financial services97.9982.661520173.3.04 : Access to financial services - gender ratio1.010.96122017Ratio of the female and male access to a bank account or mobile-money-service provider1.010.96122017Ratio of the female and male access to a bank account or mobile-money-service provider1.010.96122017Ratio of the female and male access to a bank account or mobile-money-service provider3.06 : Banking and financial services7.136.241620223.00 : Banking and financial services do support business activities efficiently3.307 : Regulatory compliance lbanking laws)7.396.92232022Regulatory compliance is sufficiently developed3.308 : Stock markets6.275.83272022Stock markets provide adequate financing to companies3.309 : Stock markets capitalization (\$bn)6.11,470.4562021US\$ bitlions10.9110.5475520213.3.10 : Stock market capitalization (\$bn]16.91105.475520219.3.11 : Value traded on stock markets21023,478462020US\$ per capita187186220203.12 : Listed domestic companies18718622020	3.3 · Finance	Value	Average F	Rank 'ear
3.3.02 - Financial cards in circulation 1.71 3.45 43 2016 Number of cards per capita 7,009 11,334 37 2016 3.3.03 - Financial card transactions 7,009 11,334 37 2016 3.3.04 - Access to financial services 97,99 82.66 15 2017 7.00 Ratio of the female and male access to a bank account or mobile-money-service provider 1.01 0.96 12 2017 3.3.04 - Access to financial services 9.69 1.62 1.62 2017 Ratio of the female and male access to a bank account or mobile-money-service provider 1.01 0.96 12 2017 3.3.05 - Access to financial services 9.69 1.62 202 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2022	3.3.01 · Banking sector assets	107.01	157.54	42 ²⁰²¹
Number of cards per capita 7,009 11,334 27 2014 3.3.03 - Financial card transactions 7,009 11,334 27 2014 3.3.03 - Financial card transactions 97.99 82.66 15 2017 3.3.04 - Access to financial services 97.99 82.66 16 2017 Ratio of the female and male access to a bank account or mobile-money-service provider 1.01 0.96 12 2017 Ratio of the female and male access to a bank account or mobile-money-service provider 7.13 6.24 16 2027 3.0.04 - Banking and financial services 97.99 6.92 23 2025 3.0.05 - Stock markets 6.27 7.83 6.92 23 2025 3.0.05 - Stock markets 6.27 5.83 27 2025 3.0.09 - Stock markets capitalization [\$bn] 6.1 1.470.4 56 2021 2.3.10 - Stock markets capitalization [\$bn] 16.91 105.47 55 2027 Percentage of GDP 3.31.1 - Value traded on stock markets 210 23.47.8 42.60	Percentage of GDP			
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US\$ per capita 33.12 · Listed domestic companies 18 718 62 2020 Number of listed domestic companies 42.60 26.39 7 2021 33.13 · Stock market index 42.60 26.39 7 2021 Percentage change on index in national currency 7.30 6.91 25 2022 Shareholders' rights are sufficiently implemented 7.30 6.91 25 2023 Shareholders' rights are sufficiently implemented 87.6 4,258.5 41 2021 By acquiror nation (average 2019-2021) US\$ millions 87.6 4,258.5 41 2022 Credit 7.00 6.05 18 2022 Credit is easily available for business 3.3.17 · Venture capital 6.54 5.34 10 2022 Venture capital is easily available for business 3.3.18 · M&A Activity 3.185 1.193 6 2020 Deals per listed company (average 2018-2020) 3.3.19 · Corporate debt 5.85 5.83 31 2022				
US\$ per capita 33.12 · Listed domestic companies 18 718 62 2020 Number of listed domestic companies 42.60 26.39 7 2021 33.13 · Stock market index 42.60 26.39 7 2021 Percentage change on index in national currency 7.30 6.91 25 2022 Shareholders' rights are sufficiently implemented 7.30 6.91 25 2023 Shareholders' rights are sufficiently implemented 87.6 4,258.5 41 2021 By acquiror nation (average 2019-2021) US\$ millions 87.6 4,258.5 41 2022 Credit 7.00 6.05 18 2022 Credit is easily available for business 3.3.17 · Venture capital 6.54 5.34 10 2022 Venture capital is easily available for business 3.3.18 · M&A Activity 3.185 1.193 6 2020 Deals per listed company (average 2018-2020) 3.3.19 · Corporate debt 5.85 5.83 31 2022	3.3.11 · Value traded on stock markets	210	23,478	46 2020
Number of listed domestic companies 3.3.13 · Stock market index 42.60 26.39 7 2021 Percentage change on index in national currency 3.3.14 · Shareholders' rights 7.30 6.91 25 2022 Shareholders' rights are sufficiently implemented 7.30 6.91 25 2022 Shareholders' rights are sufficiently implemented 87.6 4,258.5 41 2021 By acquiror nation (average 2019-2021) US\$ millions 7.00 6.05 18 2022 Credit is easily available for business 7.00 6.05 18 2022 3.3.16 · Credit 7.00 6.05 18 2022 Credit is easily available for business 3.3.17 · Venture capital 6.54 5.34 10 2022 Venture capital is easily available for business 3.3.18 · M&A Activity 3.185 1.193 6 2020 Jeals per listed company [average 2018-2020] 3.3.19 · Corporate debt 5.85 5.83 31 2022	US\$ per capita			
Number of listed domestic companies 3.3.13 · Stock market index 42.60 26.39 7 2021 Percentage change on index in national currency 3.3.14 · Shareholders' rights 7.30 6.91 25 2022 Shareholders' rights are sufficiently implemented 7.30 6.91 25 2022 Shareholders' rights are sufficiently implemented 87.6 4,258.5 41 2021 By acquiror nation (average 2019-2021) US\$ millions 7.00 6.05 18 2022 Credit is easily available for business 7.00 6.05 18 2022 3.3.16 · Credit 7.00 6.05 18 2022 Credit is easily available for business 3.3.17 · Venture capital 6.54 5.34 10 2022 Venture capital is easily available for business 3.3.18 · M&A Activity 3.185 1.193 6 2020 Jeals per listed company [average 2018-2020] 3.3.19 · Corporate debt 5.85 5.83 31 2022	3.3.12 · Listed domestic companies	18	718	62 2020
3.3.13 · Stock market index 42.60 26.39 7 2021 Percentage change on index in national currency 3.3.14 · Shareholders' rights 7.30 6.91 25 2022 Shareholders' rights are sufficiently implemented 3.3.15 · Initial Public Offerings 87.6 4,258.5 41 2021 By acquiror nation (average 2019-2021) US\$ millions 87.6 4,258.5 41 2022 Credit is easily available for business 7.00 6.05 18 2022 3.3.16 · Credit 7.00 6.05 18 2022 Credit is easily available for business 3.17 · Venture capital 6.54 5.34 10 2022 3.3.18 · M&A Activity 3.185 1.193 6 2020 Deals per listed company [average 2018-2020] 3.3.19 · Corporate debt 5.85 5.83 31 2022				
3.3.14 · Shareholders' rights7.306.91252022Shareholders' rights are sufficiently implemented3.3.15 · Initial Public Offerings87.64,258.5412021By acquiror nation (average 2019-2021) US\$ millions3.3.16 · Credit7.006.05182022Credit is easily available for business3.3.17 · Venture capital6.545.34102022Venture capital is easily available for business3.3.18 · M&A Activity3.1851.19362020Jeals per listed company (average 2018-2020)5.855.83312022	3.3.13 · Stock market index	42.60	26.39	7 2021
3.3.14 · Shareholders' rights7.306.91252022Shareholders' rights are sufficiently implemented3.3.15 · Initial Public Offerings87.64,258.5412021By acquiror nation (average 2019-2021) US\$ millions3.3.16 · Credit7.006.05182022Credit is easily available for business3.3.17 · Venture capital6.545.34102022Venture capital is easily available for business3.3.18 · M&A Activity3.1851.19362020Jeals per listed company (average 2018-2020)5.855.83312022	Percentage change on index in national currency			
Shareholders' rights are sufficiently implemented3.3.15 · Initial Public Offerings By acquiror nation [average 2019-2021] US\$ millions87.64,258.54120223.3.16 · Credit Credit is easily available for business7.006.051820223.3.17 · Venture capital Venture capital is easily available for business6.545.34102022Venture capital Deals per listed company [average 2018-2020]3.3.19 · Corporate debt5.855.83312022		7.30	6.91	25 ²⁰²²
3.3.15 · Initial Public Offerings 87.6 4,258.5 41 2021 By acquiror nation (average 2019-2021) US\$ millions 7.00 6.05 18 2022 Credit 5.34 10 2022 Credit is easily available for business 6.54 5.34 10 2022 Venture capital 6.54 5.34 10 2022 Venture capital is easily available for business 3.185 1.193 6 2020 3.3.18 · M&A Activity 3.185 1.193 6 2020 Deals per listed company (average 2018-2020) 5.85 5.83 31 2022	5			
By acquiror nation [average 2019-2021] US\$ millions 3.3.16 · Credit 7.00 6.05 18 2022 Credit is easily available for business 6.54 5.34 10 2022 3.3.17 · Venture capital 6.54 5.34 10 2022 Venture capital is easily available for business 3.185 1.193 6 2020 Jeals per listed company [average 2018-2020] 3.3.19 · Corporate debt 5.85 5.83 31 2022		87.6	4.258.5	41 2021
3.3.16 · Credit 7.00 6.05 18 2022 Credit is easily available for business 6.54 5.34 10 2022 Venture capital 6.54 5.34 10 2022 Venture capital is easily available for business 3.185 1.193 6 2020 3.3.18 · M&A Activity 3.185 1.193 6 2020 Jeals per listed company (average 2018-2020) 5.85 5.83 31 2022	5		,	
Credit is easily available for business 3.3.17 · Venture capital Venture capital is easily available for business 3.3.18 · M&A Activity 3.3.18 · M&A Activity Deals per listed company [average 2018-2020] 3.3.19 · Corporate debt		7 00	6 05	18 2022
3.3.17 · Venture capital 6.54 5.34 10 2022 Venture capital is easily available for business 3.3.18 · M&A Activity 3.185 1.193 6 2020 Deals per listed company (average 2018-2020) 3.3.19 · Corporate debt 5.85 5.83 31 2022		1.00	0.00	
Venture capital is easily available for business 3.3.18 · M&A Activity 3.185 1.193 6 ²⁰²⁰ Deals per listed company (average 2018-2020) 5.85 5.83 31 ²⁰²²	· · · · · · · · · · · · · · · · · · ·	6 54	5 34	10 2022
3.3.18 · M&A Activity 3.185 1.193 6 2020 Deals per listed company (average 2018-2020) 5.85 5.83 31 2022 3.3.19 · Corporate debt 5.85 5.83 31 2022	•	0.01	0.01	
Deals per listed company (average 2018-2020) 3.3.19 · Corporate debt 5.85 5.83 31 ²⁰²²		3 185	1 193	6 2020
3.3.19 · Corporate debt 5.85 5.83 31 2022		0.100		÷
		5.85	5.83	31 2022
	•	0.00	0.00	0.

3.4 · Management Practices	Value A	verage F	Rank 'ear
3.4.01 · Agility of companies	6.95	6.08	11 ²⁰²²
Companies are agile	7.07	6.69	21 2022
3.4.02 · Changing market conditions	7.07	0.09	21
Companies are generally extremely aware of changing market conditions 3.4.03 · Opportunities and threats	6.45	6.29	28 2022
Companies are very good at responding quickly to opportunities and threats	0.45	0.29	20
3.4.04 · Credibility of managers	6.64	6.15	20 2022
Credibility of managers in society is strong	0.04	0.15	20
3.4.05 · Corporate boards	6.09	6.17	34 2022
Corporate boards do supervise the management of companies effectively	0.09	0.17	54
3.4.06 · Auditing and accounting practices	7.73	7.25	25 2022
Auditing and accounting practices are adequately implemented in business	1.15	1.25	23
3.4.07 · Use of big data and analytics	5.70	5.33	22 2022
	5.70	5.55	22
Companies are very good at using big data and analytics to support decision-making 3.4.08 · Customer satisfaction	7.70	6.95	9 2022
	7.70	0.95	9
Customer satisfaction is emphasized in companies	7.07	6.07	4 2022
3.4.09 · Entrepreneurship	7.07	0.07	4
Entrepreneurship of managers is widespread in business	6.20	6.46	27 2022
3.4.10 · Social responsibility	6.30	6.16	27
Social responsibility of business leaders is high	05.44	24.40	21 2019
3.4.11 · Women in management	35.11	31.46	21 ²⁰¹⁹
Female share of senior and middle management (% of management)	0.40	04.00	53 ²⁰¹⁹
3.4.12 · Women on boards	9.40	24.22	53 2010
Boardmembers of all companies analyzed by MSCI	0.1 70		7 2017
3.4.13 · Entrepreneurial fear of failure	31.76	42.81	1 2011
% indicating that fear of failure would prevent them from setting up a business			9 2017
3.4.14 · Total early-stage Entrepreneurial Activity	19.38	12.11	9 2017
% who are either a nascent entrepreneur or owner-manager of a new business			
3.5 · Attitudes and Values	Value A	werage F	Rank 'ear
3.5.01 · Attitudes toward globalization	6.54	6.47	34 ²⁰²²
Attitudes toward globalization are generally positive in your society			0000
3.5.02 · Image abroad or branding	7.49	6.44	18 ²⁰²²
The image abroad of your country encourages business development			
3.5.03 · National culture	7.16	6.82	25 ²⁰²²
The national culture is open to foreign ideas			
3.5.04 · Flexibility and adaptability	6.84	6.63	30 2022
Flexibility and adaptability of people are high when faced with new challenges			
3.5.05 · Need for economic and social reforms	6.45	5.88	22 2022
The need for economic and social reforms is generally well understood			
3.5.06 · Digital transformation in companies	6.64	5.95	19 ²⁰²²
Digital transformation in companies is generally well implemented			
3.5.07 · Value system	6.93	6.23	18 ²⁰²²

The value system in your society supports competitiveness

Extended Country Profile

4 · Infrastructure

Value 4	Average R 1,207	Rank 'ear 50 ²⁰²¹
45	1,207	50 ²⁰²¹
5,251	2,704	7 2019
9,608	18,375	16 ²⁰¹⁸
9.28	7.90	12 2022
6.18	6.61	42 2022
1.33	81.51	60 ²⁰²¹
-0.08	0.30	48 2021
36.8	33.6	2021
20.3	14.8	2021
16.4	18.7	2021
58.2	51.2	54 ²⁰²
1.30	1.39	21 ²⁰¹⁹
0.033	0.049	24 ²⁰²⁰
392	27,297	56 ²⁰²⁰
5.61	7.07	54 ²⁰²²
		202
7.19	7.12	35 ²⁰²
6.12	6.81	45 ²⁰²
		2014
5.40	169.14	51 ²⁰¹⁹
		2010
103.0	106.4	17 ²⁰¹⁹
		- 2010
2.96	122.04	3 2019
		37 201
2.23	2.46	37 2013
0.093	0.107	23 202
	9.28 6.18 1.33 -0.08 36.8 20.3 16.4 58.2 1.30 0.033 392 5.61 7.19 6.12 5.40 103.0	9.28 7.90 6.18 6.61 1.33 81.51 -0.08 0.30 36.8 33.6 20.3 14.8 16.4 18.7 58.2 51.2 1.30 1.39 0.033 0.049 392 27,297 5.61 7.07 7.19 7.12 6.12 6.81 103.0 106.4 2.96 122.04

4.2.01 · Investment in Telecommunications 0.32 0.42 45 2021 Percentage of GDP 68.8 71.5 39 2020 42.02 · Mobile Broadband subscribers 68.8 71.5 39 2020 42.03 · Mobile Telephone costs 11.9 15.7 29 2020 Monthly Binded Average Revenue per User 7.73 7.67 37 2022 Communications technology locice and datal meets business requirements 42.06 · Communications technology locice and datal meets business requirements 42.06 · Locomanuications technology locice and datal meets business requirements 42.00 · Internet users 84.257 36.109 8 2020 Value of Internet users 935 839 12 2021 Number of subscriptions per 1000 inhabitants 11.7 2020 Number of subscriptions per 1000 inhabitants 42.00 · Digital/Technological skills 6.30 6.79 42 2022 Qualified engineers are available in your labor market 4.61 6.35 61 2022 Qualified engineers are available in your labor market 4.61 6.58 5.98 22 2022	4.2 · Technological Infrastructure		Value Average Rank 'ea		
42.02 · Mobile Broadband subscribers 68.8 71.5 39 2020 46.8.50 market, % of mobile market 11.9 15.7 29 2020 Monthly Blended Average Revenue per User 11.9 15.7 29 2020 Ac.04. Communications technology (voice and datal meets business requirements 7.73 7.67 37 2022 Communications technology (voice and datal meets business requirements 84.257 36.109 8 2020 publicly-trusted TLS/SSL certificates, Netcraft Secure Server Survey. 935 639 12 2021 Ac.00 - Internet users per 1000 people 11.9 12.7 2020 11.7 2020 Number of subscriptions per 1000 inhabitants 98.9 93.5 27 2021 Ac.00 - Digital/Technological skills 6.30 6.79 44 2022 Digital/Technological skills 6.30 6.79 44 2022 Qualified engineers 4.61 6.35 61 2022 Qualified engineers are available in your labor market 4.210 Qualified engineers are supporting technological development 4.211 4.212 2.202 2022	4.2.01 · Investment in Telecommunications	0.32	0.42	45 ²⁰²¹	
40 & 50 market, % of mobile market 4.2.03 Mobile Telephone costs 11.9 15.7 29 2020 Monthly Blended Average Revenue per User 11.9 15.7 29 2020 4.2.04 - Communications technology 7.73 7.67 37 2022 Communications technology Voice and datal meets business requirements 84,257 36,109 8 2020 4.2.05 - Secure internet servers 84,257 36,109 8 2020 Number of internet users per 1000 people 935 839 12 2021 Number of subscriptions per 1000 inhabitants 485 381 17 2020 Average speed 98.9 93.5 27 2021 Average speed 94.61 6.35 6.12 2022 Qualified engineers are available 94.61 6.35 6.20 2022 Lowelopment and application of technological development 6.98 6.46 23 2022 Funding for technological development 6.58 5.98 22 2022 Funding for technological development 6.58 5.98 22 2020	Percentage of GDP				
4.2.03 · Mobile Telephone costs 11.9 15.7 29 2020 Monthly Blended Average Revenue per User 1 15.7 29 2020 A.2.04 · Communications technology 7.73 7.67 37 2022 Communications technology Voice and data) meets business requirements 84,257 36,109 8 2020 publicly-trusted TLS/SSL certificates, Netcraft Secure Server Survey. 935 839 12 2021 4.2.06 · Internet users per 1000 people 935 839 12 2021 4.2.07 · Broadband subscribers 485 381 17 2020 Number of subscriptions per 1000 inhabitants 42.09 · Digital/Technological skills are readily available 6.30 6.79 44 2022 Digital/Technological skills are readily available 6.30 6.79 44 2022 Digital/Technological skills are readily available 6.30 6.79 44 2022 User indergineers are available in your labor market 4.61 6.35 6.1 2022 Public and private sector ventures are supporting technological development 6.58 5.98 22 2022 4.2.10	4.2.02 · Mobile Broadband subscribers	68.8	71.5	39 ²⁰²⁰	
Monthly Blended Average Revenue per User 4.2.04 Communications technology 7.73 7.67 37 2022 Communications technology (voice and data) meets business requirements 84,257 36,109 8 2020 publicly-trusted TLS/SSL certificates, Netcraft Secure Server Survey. 935 839 12 2021 Number of internet users per 1000 people 42.00 5 841 17 2020 Number of subscriptions per 1000 inhabitants 485 381 17 2021 Average speed 42.00 Bigital/Technological skills 6.30 6.79 44 2022 Digital/Technological skills are readily available 4.61 6.35 61 2022 Average speed 4.61 6.35 61 2022 Digital/Technological skills are readily available 6.81 6.23 2022 Auerage speed 4.61 6.35 61 2022 Digital/Technological skills are readily available 6.81 6.23 2022 A2.10 Oualified engineers 6.46 23	4G & 5G market, % of mobile market				
4.2.04 · Communications technology 7.73 7.67 37 2022 Communications technology (voice and data) meets business requirements 84.257 36,109 8 2020 4.2.05 · Secure internet servers 84.257 36,109 8 2020 4.2.06 · Internet users 935 839 12 2021 Number of internet users per 1000 people 42.07 Proadband subscribers 485 381 17 2020 Number of subscriptions per 1000 inhabitants 42.09 Jigital/Technological skills 6.30 6.79 44 2022 Average speed 42.210 · Unalified engineers 4.61 6.35 61 2022 Qualified engineers are available in your labor market 4.210 · Qualified engineers 4.61 6.35 61 2022 Qualified engineers are available in your labor market 4.210 · Qualified engineers 4.61 6.35 61 2022 Qualified engineers 4.81 6.38 6.98 6.46 23 2022 Public and private sector ventures are supported by the legal environment 4.213 · Linding for technological development 4.213 · Linding for technological development	4.2.03 · Mobile Telephone costs	11.9	15.7	29 ²⁰²⁰	
Communications technology (voice and data) meets business requirements 42.05 - Secure internet servers 84,257 36,109 8 2020 publicly-trusted TLS/SSL certificates, Netcraft Secure Server Survey. 935 839 12 2021 Number of internet users per 1000 people 935 839 12 2021 42.06 - Internet users per 1000 inhabitants 485 381 17 2020 Number of subscriptions per 1000 inhabitants 98.9 93.5 27 2021 Average speed - - - - 2022 42.09 · Digital/Technological skills 6.30 6.79 44 2022 Digital/Technological skills are readily available - - 2022 - 42.10 · Qualified engineers 4.61 6.35 61 2022 - 2022 - - 2022 - - 2022 - - 2022 - 2022 - 2022 - 2022 - 2022 2022 2022 2022 - 202	Monthly Blended Average Revenue per User				
4.2.05 · Secure internet servers 84,257 36,109 8 2020 publicly-trusted TLS/SSL certificates, Netcraft Secure Server Survey. 935 839 12 2021 Number of internet users 935 839 12 2021 Number of internet users per 1000 people 485 381 17 2020 Aumber of subscriptions per 1000 inhabitants 485 381 17 2020 Average speed 98.9 93.5 27 2021 Average speed 6.30 6.79 44 2022 Uigital/Technological skills are readily available 6.30 6.79 44 2022 4.2.10 · Qualified engineers 4.61 6.35 61 2022 Qualified engineers are available in your labor market 4.61 6.35 61 2022 4.2.10 · Duvelopment & application of tech. 6.98 6.46 23 2022 Development and application of tech. 6.98 6.58 5.98 22 2022 Development and application of technological development 6.58 5.98 22 2022 Low of technological developm	4.2.04 · Communications technology	7.73	7.67	37 ²⁰²²	
publicly-trusted TLS/SSL certificates, Netcraft Secure Survey. 4.2.06 · Internet users per 1000 people 935 839 12 2021 Number of internet users per 1000 people 485 381 17 2020 Number of subscriptions per 1000 inhabitants 485 381 17 2020 Average speed 98.9 93.5 27 2021 Average speed 6.30 6.79 44 2022 Digital/Technological skills are readily available 6.30 6.79 44 2022 Qualified engineers are available in your labor market 4.2.10 · Qualified engineers are available in your labor market 2.10 2.11 · Public-private partnerships 5.48 6.08 50 2022 Public and private sector ventures are supporting technological development 6.58 5.98 22 2022 Public and private sector ventures are supported by the legal environment 4.2.13 · Funding for technological development 6.58 5.98 22 2022 Public and private sector ventures is readily available 4.2.14 · High-tech exports (\$) 2.151 4.716 43 2020 </td <td>Communications technology (voice and data) meets business requirements</td> <td></td> <td></td> <td></td>	Communications technology (voice and data) meets business requirements				
4.2.06 · Internet users 935 839 12 2021 Number of internet users per 1000 people 485 381 17 2020 Number of subscriptions per 1000 inhabitants 485 381 17 2020 Number of subscriptions per 1000 inhabitants 98.9 93.5 27 2021 Average speed 98.9 93.5 27 2021 4.2.09 · Digital/Technological skills 6.30 6.79 44 2022 Digital/Technological skills are readity available 6.30 6.79 44 2022 Qualified engineers 4.61 6.35 61 2022 Public and private sector ventures are supporting technological development 6.98 6.46 23 2022 Public and private sector ventures are supported by the legal environment 4.2.13 · Funding for technological development 6.58 5.98 22 2022 Public and private sector ventures are sadity available 2.151 47.160 43 2020 Use millions 2.151 47.160 43 2020 2022 Percentage of manufactured exports [%] 2.151 47.160	4.2.05 · Secure internet servers	84,257	36,109	8 2020	
Number of internet users per 1000 people 42.07 · Broadband subscribers 485 381 17 2020 Number of subscriptions per 1000 inhabitants 98.9 93.5 27 2021 Average speed 6.30 6.79 44 2022 Digital/Technological skills are readily available 6.30 6.79 44 2022 Qualified engineers 4.61 6.35 61 2022 Qualified engineers are available in your labor market 4.2.11 · Public-private partnerships 5.48 6.08 50 2022 Public and private sector ventures are supporting technological development 4.2.12 · Development & application of technology are supported by the legal environment 4.2.13 · Funding for technological development 6.58 5.98 22 2022 Funding for technological development is readily available 4.2.15 · High-tech exports [\$) 2.151 47,160 43 2020 US\$ millions 4.2.16 · ICT service exports 11.7 9.7 16 2018 4.2.16 · ICT service exports 11.7 9.7 16 2018 Percentage of serv	publicly-trusted TLS/SSL certificates, Netcraft Secure Server Survey.				
4.2.07 · Broadband subscribers 485 381 17 2020 Number of subscriptions per 1000 inhabitants 98.9 93.5 27 2021 Average speed 6.30 6.79 44 2022 Digital/Technological skills 6.30 6.79 44 2022 Qualified engineers 4.61 6.35 61 2022 Qualified engineers are available in your labor market 4.61 6.35 61 2022 Qualified engineers are available in your labor market 6.98 6.46 23 2022 Public and private sector ventures are supporting technological development 6.98 6.46 23 2022 Public and application of technology are supported by the legal environment 6.58 5.98 22 2022 Funding for technological development 6.58 5.98 22 2022 Varianting for technological development is readily available 2.151 47,160 43 2020 U\$\$ millions 20.46 18.12 20 2020 2022 2022 4.2.15 · High-tech exports [%] 20.46 18.12 20 2020 <td>4.2.06 · Internet users</td> <td>935</td> <td>839</td> <td>12 ²⁰²¹</td>	4.2.06 · Internet users	935	839	12 ²⁰²¹	
Number of subscriptions per 1000 inhabitants 4.2.08 · Internet bandwidth speed 98.9 93.5 27 2021 Average speed 6.30 6.79 44 2022 Digital/Technological skills are readily available 6.30 6.79 44 2022 Qualified engineers 6.61 6.35 61 2022 Qualified engineers are available in your labor market 4.61 6.35 61 2022 Qualified and private sector ventures are supporting technological development 4.2.12 · Development & application of tech. 6.98 6.46 23 2022 Public and private sector ventures are supported by the legal environment 4.2.13 · Funding for technological development 6.58 5.98 22 2022 Development and application of techn. 6.58 5.98 22 2022 Funding for technological development 6.58 5.98 22 2022 Yes millions 2.151 47,160 43 2020 2020 US\$ millions 2.161 47,160 43 2020 2020 2026					
4.2.08 · Internet bandwidth speed 98.9 93.5 27 2021 Average speed 6.30 6.79 44 2022 Digital/Technological skills are readily available 6.30 6.79 44 2022 Qualified engineers 4.61 6.35 61 2022 Qualified engineers are available in your labor market 4.61 6.35 61 2022 Public and private sector ventures are supporting technological development 5.48 6.08 50 2022 Public and private sector ventures are supported by the legal environment 6.98 6.46 23 2022 Puevelopment and application of technological development 6.58 5.98 22 2022 Funding for technological development 6.58 5.98 22 2022 V2S millions 21.15 47,160 43 2020 V2S millions 21.51 47,160 43 2020 V2S millions 20.46 18.12 20 2020 Percentage of manufactured exports 11.7 9.7 16 2018 4.2.16 · ICT service exports 11.7	4.2.07 · Broadband subscribers	485	381	17 ²⁰²⁰	
Average speed 4.2.09 · Digital/Technological skills 6.30 6.79 44 ²⁰²² Digital/Technological skills are readily available 4.61 6.35 61 ²⁰²² Qualified engineers 4.61 6.35 61 ²⁰²² Qualified engineers are available in your labor market 4.2.11 · Public-private partnerships 5.48 6.08 50 ²⁰²² Public and private sector ventures are supporting technological development 4.2.12 · Development & application of tech. 6.98 6.46 23 ²⁰²² Development and application of technology are supported by the legal environment 4.2.13 · Funding for technological development 6.58 5.98 22 ²⁰²² Funding for technological development 6.58 5.98 22 ²⁰²² VLS millions 2.151 47,160 43 ²⁰²⁰ VLS millions 2.151 47,160 43 ²⁰²⁰ Percentage of manufactured exports 11.7 9.7 16 ²⁰¹⁸ 4.2.16 · ICT service exports 11.7 9.7 16 ²⁰²² <td>Number of subscriptions per 1000 inhabitants</td> <td></td> <td></td> <td></td>	Number of subscriptions per 1000 inhabitants				
4.2.09 · Digital/Technological skills 6.30 6.79 44 2022 Digital/Technological skills are readily available 4.61 6.35 61 2022 Qualified engineers 4.61 6.35 61 2022 Qualified engineers are available in your labor market 4.2.11 · Public-private partnerships 5.48 6.08 50 2022 Public and private sector ventures are supporting technological development 4.2.12 · Development & application of tech. 6.98 6.46 23 2022 Development and application of technology are supported by the legal environment 6.58 5.98 22 2022 Funding for technological development 6.58 5.98 22 2022 Funding for technological development 6.58 5.98 22 2022 VS\$ millions 2.151 47,160 43 2020 US\$ millions 20.46 18.12 20 2022 Percentage of manufactured exports 11.7 9.7 16 2018 Percentage of service exports 11.7 9.7 16 2018 Percentage of service exports 6.78 5.89	4.2.08 · Internet bandwidth speed	98.9	93.5	27 ²⁰²¹	
Digital/Technological skills are readily available4.2.10 · Qualified engineers Qualified engineers are available in your labor market4.616.35612022Qualified engineers are available in your labor market4.2.11 · Public-private partnerships5.486.08502022Public and private sector ventures are supporting technological development6.986.46232022Public and private sector ventures are supported by the legal environment6.585.98222022Puevelopment and application of technological development6.585.98222022Funding for technological development is readily available4.2.14 · High-tech exports (\$)21.15 · 47,160432020US\$ millions20.4618.122020220Percentage of manufactured exports11.79.7162018Percentage of service exports11.79.71620184.2.17 · Cyber security6.785.89162022	5 1				
4.2.10 · Qualified engineers4.616.35612022Qualified engineers are available in your labor market4.616.356120224.2.11 · Public-private partnerships5.486.08502022Public and private sector ventures are supporting technological development6.986.46232022Development and application of technology are supported by the legal environment6.585.98222022Funding for technological development is readily available4.2.15 · High-tech exports (\$)21.45 · High-tech exports (%)20.4618.12202020Percentage of manufactured exports11.79.716201820142018Percentage of service exports11.79.716201820224.2.17 · Cyber security6.785.89162022	4.2.09 · Digital/Technological skills	6.30	6.79	44 ²⁰²²	
A.2.10 * Gualified engineers are available in your labor market Qualified engineers are available in your labor market 4.2.11 * Public-private partnerships Public and private sector ventures are supporting technological development 4.2.12 * Development & application of tech. Development and application of technology are supported by the legal environment 4.2.13 * Funding for technological development Funding for technological development is readily available 4.2.15 * High-tech exports (\$) 2.151 * High-tech exports (%) Percentage of manufactured exports 4.2.17 * Cyber security 6.78 5.89 11.7 9.7 16 2014					
4.2.11 · Public-private partnerships 5.48 6.08 50 2022 Public and private sector ventures are supporting technological development 6.98 6.46 23 2022 Development and application of technology are supported by the legal environment 6.58 5.98 22 2022 Funding for technological development 6.58 5.98 22 2022 Funding for technological development is readily available 6.58 5.98 22 2022 VUS\$ millions 2,151 47,160 43 2020 US\$ millions 20.46 18.12 20 2020 Percentage of manufactured exports 11.7 9.7 16 2018 Percentage of service exports 11.7 9.7 16 2018 4.2.17 · Cyber security 6.78 5.89 16 2022	4.2.10 · Qualified engineers	4.61	6.35	61 ²⁰²²	
Public and private sector ventures are supporting technological development4.2.12 · Development & application of tech.6.986.46232022Development and application of technology are supported by the legal environment6.585.98222022Funding for technological development is readily available6.585.98222022Funding for technological development is readily available2,15147,160432020US\$ millions20.4618.12202020Percentage of manufactured exports11.79.7162018Percentage of service exports11.79.71620184.2.17 · Cyber security6.785.89162022	Qualified engineers are available in your labor market				
4.2.12 · Development & application of tech. 6.98 6.46 23 2022 Development and application of technology are supported by the legal environment 6.58 5.98 22 2022 Funding for technological development 6.58 5.98 22 2022 Funding for technological development is readily available 6.58 5.98 22 2020 4.2.13 · High-tech exports (\$) 2,151 47,160 43 2020 US\$ millions 20.46 18.12 20 2020 Percentage of manufactured exports 11.7 9.7 16 2018 Percentage of service exports 11.7 9.7 16 2018 4.2.17 · Cyber security 6.78 5.89 16 2022	4.2.11 · Public-private partnerships	5.48	6.08	50 ²⁰²²	
Development and application of technology are supported by the legal environment 4.2.13 · Funding for technological development 6.58 5.98 22 2022 Funding for technological development is readily available 2,151 47,160 43 2020 US\$ millions 20.46 18.12 20 2020 Percentage of manufactured exports 11.7 9.7 16 2018 4.2.17 · Cyber security 6.78 5.89 16 2022					
4.2.13 · Funding for technological development 6.58 5.98 22 2022 Funding for technological development is readily available 2,151 47,160 43 2020 US\$ millions 20.46 18.12 20 2020 Percentage of manufactured exports 11.7 9.7 16 2018 4.2.17 · Cyber security 6.78 5.89 16 2022	4.2.12 · Development & application of tech.	6.98	6.46	23 ²⁰²²	
Funding for technological development is readily available 4.2.14 · High-tech exports (\$) 2,151 47,160 43 2020 US\$ millions 20.46 18.12 20 2020 Percentage of manufactured exports 20.46 18.12 20 2020 Percentage of manufactured exports 11.7 9.7 16 2018 Percentage of service exports 11.7 9.7 16 2018 Vercentage of service exports 6.78 5.89 16 2022					
4.2.14 · High-tech exports (\$) 2,151 47,160 43 2020 US\$ millions 20.46 18.12 20 2020 Percentage of manufactured exports 20.46 18.12 20 2020 Percentage of manufactured exports 11.7 9.7 16 2018 Percentage of service exports 11.7 9.7 16 2018 4.2.17 · Cyber security 6.78 5.89 16 2022		6.58	5.98	22 ²⁰²²	
US\$ millions 4.2.15 · High-tech exports (%) 20.46 18.12 20.2020 Percentage of manufactured exports 20.46 18.12 20.2020 4.2.16 · ICT service exports 11.7 9.7 16.2018 Percentage of service exports 11.7 9.7 16.2018 4.2.17 · Cyber security 6.78 5.89 16.2022					
4.2.15 · High-tech exports (%) 20.46 18.12 20.2020 Percentage of manufactured exports 11.7 9.7 16.2018 Percentage of service exports 11.7 9.7 16.2018 Vercentage of service exports 6.78 5.89 16.2022		2,151	47,160	43 ²⁰²⁰	
Percentage of manufactured exports 4.2.16 · ICT service exports Percentage of service exports 4.2.17 · Cyber security 6.78 5.89 16					
4.2.16 · ICT service exports 11.7 9.7 16 ²⁰¹⁸ Percentage of service exports 4.2.17 · Cyber security 6.78 5.89 16 ²⁰²²		20.46	18.12	20 ²⁰²⁰	
Percentage of service exports 4.2.17 · Cyber security 6.78 5.89 16 ²⁰²²	5				
4.2.17 · Cyber security 6.78 5.89 16 ²⁰²²	4.2.16 · ICT service exports	11.7	9.7	16 ²⁰¹⁸	
Cyber security is being adequately addressed by corporations	4.2.17 · Cyber security	6.78	5.89	16 ²⁰²²	
	Cyber security is being adequately addressed by corporations				

4.3 · Scientific Infrastructure	Value /	Average R	≀ank ′ear
4.3.01 · Total expenditure on R&D (\$)	549	31,953	53 ²⁰²⁰
US\$ millions			
4.3.02 · Total expenditure on R&D (%)	1.79	1.63	21 ²⁰²⁰
Percentage of GDP			
4.3.03 · Total expenditure on R&D per capita (\$)	413.1	647.1	29 ²⁰²⁰
US\$ per capita			
4.3.04 · Business expenditure on R&D (\$)	302	24,238	51 ²⁰²⁰
US\$ millions			2020
4.3.05 · Business expenditure on R&D (%)	0.98	1.11	23 2020
Percentage of GDP			
4.3.06 · Total R&D personnel	6.5	233.3	49 ²⁰²⁰
Full-time work equivalent (FTE thousands)			2020
4.3.07 · Total R&D personnel per capita	4.88	5.37	29 ²⁰²⁰
Full-time work equivalent (FTE) per 1000 people			- 4 2020
4.3.08 · Total R&D personnel in business enterprise	2.7	183.3	51 ²⁰²⁰
Full-time work equivalent (FTE thousands)			2020
4.3.09 · Total R&D personnel in business per capita	2.07	3.31	33 ²⁰²⁰
Full-time work equivalent (FTE) per 1000 people			2020
4.3.10 · Researchers in R&D per capita	3.8	3.6	28 2020
Full-time work equivalent (FTE) per 1000 people			- 2010
4.3.11 · Graduates in Sciences	27.91	24.75	17 ²⁰¹⁹
% of graduates in ICT, Engineering, Math & Natural Sciences			2010
4.3.12 · Scientific articles	1,623	39,473	55 ²⁰¹⁹
Scientific articles published by origin of author			2021
4.3.13 · Nobel prizes	0	9	28 ²⁰²¹
Awarded in physics, chemistry, physiology or medicine and economics since 1950			2021
4.3.14 · Nobel prizes per capita	0.00	0.19	28 ²⁰²¹
Awarded in physics, chemistry, physiology or medicine and economics since 1950 per million people			2020
4.3.15 · Patent applications	297	52,962	53 ²⁰²⁰
Number of applications filed by applicant's origin			2020
4.3.16 · Patent applications per capita	22.33	80.01	30 2020
Number of applications filed by applicant's origin, per 100,000 inhabitants			
4.3.17 · Patent grants	132	25,007	54 ²⁰²⁰
Number of patents granted by applicant's origin (average 2018-2020)			
4.3.18 · Number of patents in force	88.1	491.7	31 ²⁰²⁰
by applicant's origin, per 100,000 inhabitants			
4.3.19 · Medium- and high-tech value added	29.64	38.63	43 ²⁰¹⁹
Proportion of total manufacturing value added, expressed as a percentage			
4.3.20 · Scientific research legislation	5.88	5.97	36 2022
Laws relating to scientific research do encourage innovation			
4.3.21 · Intellectual property rights	7.03	6.59	25 ²⁰²²
Intellectual property rights are adequately enforced			
4.3.22 · Knowledge transfer	5.61	5.52	25 ²⁰²²
Knowledge transfer is highly developed between companies and universities			

4.4 · Health and Environment	Value /	Average F	Rank 'ear
4.4.01 · Total health expenditure	6.7	7.5	38 ²⁰¹⁹
Percentage of GDP 4.4.02 · Total health expenditure per capita	1,574	2,614	33 ²⁰¹⁹
US\$ per capita			20 2019
4.4.03 · Public expenditure on health (%)	74.42	65.44	20 2013
Percentage of total health expenditure	0.70	E 07	27 2022
4.4.04 · Health infrastructure	6.76	5.97	27
Health infrastructure meets the needs of society 4.4.05 · Universal health coverage index	78	78	32 ²⁰¹⁹
Coverage index for essential health services (0-100)	10	10	32
4.4.06 · Life expectancy at birth	78.3	78.4	32 2020
Average estimate			
4.4.07 · Healthy life expectancy Average estimate	68.8	68.3	32 ²⁰²¹
4.4.08 · Infant mortality	2.1	7.9	2 2020
Under five mortality rate per 1000 live births	2.1	1.5	2
4.4.09 · Medical assistance			25 ²⁰²¹
Number of inhabitants per physician and per nurse			20
Medical assistance / Per nurse	155.42	302.83	2021
	100.12	002.00	
Medical assistance / Per physician	285.01	533.91	2021
4.4.10 · Urban population	68	77	2021
Percentage of total population			
4.4.11 · Human development index	0.892	0.862	28 ²⁰¹⁹
Combines economic - social - educational indicators/ Source: Human Development Report			
4.4.12 · Energy intensity	98	102	32 ²⁰¹⁸
Total energy consumed for each 1000 US\$ of GDP in MTOE			
4.4.13 · Safely treated waste water	91.1	76.7	24 2020
Percentage of waste water			
4.4.14 · Water use efficiency	23.08	97.67	46 ²⁰¹⁹
US\$ per cubic meter 4.4.15 · CO2 emissions	8.6	420.2	6 2020
Metric tons of carbon dioxide from fuel combustion			
4.4.16 · CO2 emissions intensity	280.7	354.2	36 2020
CO2 emissions from fuel combustion in metric tons per one million US\$ of GDP			
4.4.17 · Exposure to particle pollution	5.95	20.45	3 2019
Mean population exposure to PM2.5, Micrograms per cubic metre			
4.4.18 · Renewable energies (%)	22.5	16.8	18 ²⁰¹⁹
Share of renewables in total energy requirements, %			
4.4.19 · Forest area growth	0.7	0.4	17 2020
Five year percentage change of hectares			
4.4.20 · Total biocapacity	9.33	3.26	5 ²⁰¹⁸
Global hectares per capita of biologically productive space			
4.4.21 · Ecological footprint	8.0	5.0	54 ²⁰¹⁸
Global hectares per person			
4.4.22 · Ecological balance (reserve/deficit)	1.32	-1.73	11 ²⁰¹⁸
Total biocapacity minus total footprint in global hectares per capita			
4.4.23 · Environment-related technologies	0.01	1.60	49 ²⁰¹⁹
Development of environment-related technologies, % inventions worldwide	05.00	00.04	11 ²⁰¹⁵
4.4.24 · Environmental agreements	95.83	83.34	11 2010
Multilateral agreements on hazardous waste, proportion fulfilled 4.4.25 · Sustainable development	7.07	6.21	14 2022
Sustainable development is a priority in companies			
4.4.26 · Pollution problems	6.36	5.71	18 2022
Pollution problems do not seriously affect your economy			
4.4.27 · Environmental laws	6.12	6.17	35 ²⁰²²
Environmental laws and compliance do not hinder the competitiveness of businesses	0.00	6 70	34 2022
4.4.28 · Quality of life Quality of life is high	6.90	6.76	J4 ²⁰²²
Quality of the is high			

4.5 · Education	Value A	verage R	ank 'ear
4.5.01 · Total public expenditure on education	6.6	5.0	9 ²⁰²⁰
Percentage of GDP			
4.5.02 · Total public expenditure on education per capita	1,517	1,562	25 ²⁰²⁰
US\$ per capita			
4.5.03 · Total public exp. on education per student	6,803	6,944	28 ²⁰¹⁹
Spending per enrolled pupil/student, all levels			
4.5.04 · Pupil-teacher ratio (primary education)	13.15	15.95	23 ²⁰¹⁸
Ratio of students to teaching staff			
4.5.05 · Pupil-teacher ratio (secondary education)	12.39	13.74	35 ²⁰¹⁹
Ratio of students to teaching staff			
4.5.06 · Secondary school enrollment	98.3	92.7	15 ²⁰¹⁹
Percentage of relevant age group receiving full-time education			
4.5.07 · Higher education achievement	43.1	44.2	33 2020
Percentage of population that has attained at least tertiary education for persons 25-34			
4.5.08 · Women with degrees	52.4	39.7	12 2020
Share of women who have a degree in the population 25-65			
4.5.09 · Student mobility inbound	3.80	4.01	25 ²⁰¹⁹
Foreign tertiary-level students per 1000 inhabitants			
4.5.10 · Student mobility outbound	2.73	2.62	17 2019
National tertiary-level students studying abroad per 1000 inhabitants			
4.5.11 · Educational assessment - PISA	526	471	4 2018
PISA survey of 15-year olds			
Educational assessment - PISA / Mathematics	523	472	2018
Educational assessment - PISA / Reading	523	468	2018
Educational assessment - PISA / Sciences	530	472	2018
4.5.12 · Students who are not low achievers - PISA	83.2	58.5	3 2018
% of students who are not low achievers in maths, sciences and reading			
4.5.13 · English proficiency - TOEFL	92	92	31 ²⁰²⁰
TOEFL scores			2022
4.5.14 · Primary and secondary education	7.61	6.10	14 ²⁰²²
Primary and secondary education meets the needs of a competitive economy			
4.5.15 · University education	7.33	6.40	19 ²⁰²²
University education meets the needs of a competitive economy			
4.5.16 · Management education	6.94	6.34	20 2022
Management education meets the needs of the business community			
4.5.17 · University education index	14.60	14.07	22 2021
Country score calculated from Times Higher Education university ranking			
4.5.18 · Illiteracy	1.0	2.4	1 2020
Adult (over 15 years) illiteracy rate as a percentage of population			
4.5.19 · Language skills	7.22	6.41	22 2022
Language skills are meeting the needs of enterprises			

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