



IMD World Competitiveness Yearbook 2022

COUNTRY
PROFILE

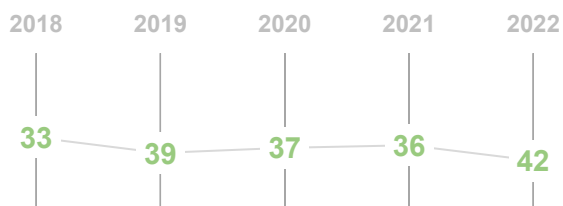
PORTUGAL



Portugal

Competitiveness Trends – Overall

OVERALL PERFORMANCE (63 countries)



CHALLENGES IN 2022

- Sustainable GDP growth above EU and peer average.
- Promote management quality through a national strategy to enhance financial literacy, entrepreneurship, and skills.
- Reinforce a (innovation and entrepreneurship) national strategy for digital transformation and energy transition that help companies' competitiveness.
- Adopt public sector reforms: justice, health, education, social security. Aim for a sustainable level of public debt, given expected increases in interest rates.
- Cross-party agreement on strategy to address urgent demographic issues - ageing, low birth rate, and migration.

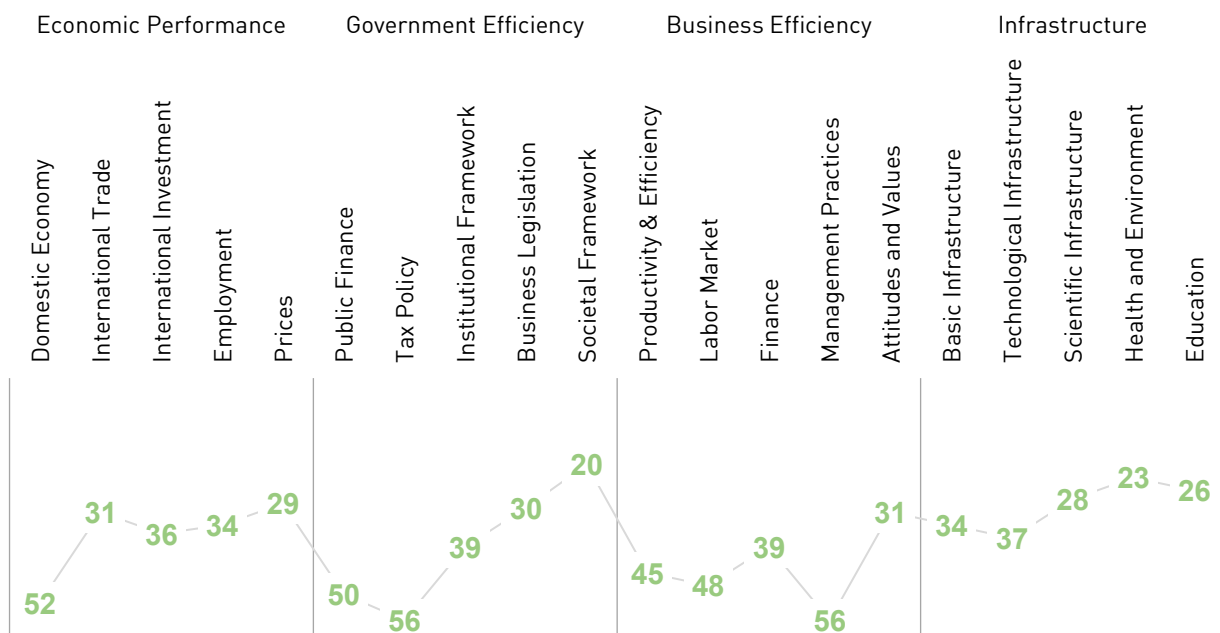
PROVIDED BY: Porto Business School, University of Porto, Porto

BASIC FACTS

Rank

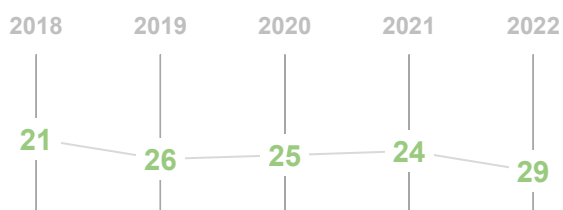
Indicator	Value	Year	Rank
Capital	Lisbon		
Land area (square km '000)	92	2021	
Exchange Rate (per \$)	0.845	2021	
Population - market size (millions)	10.28	2021	37
Gross Domestic Product (GDP) (US\$ billions)	250.1	2021	42
GDP (PPP) per capita (US\$)	36,924	2021	38
Real GDP growth (%)	4.9	2021	33
Consumer price inflation (%)	0.94	2021	07
Unemployment rate (%)	6.60	2021	39
Labor force (millions)	5.15	2021	36
Current account balance (% of GDP)	-1.14	2021	40
Direct investment stocks inward (\$bn)	183.6	2020	34
Direct investment flows inward (% of GDP)	2.06	2020	26

COMPETITIVENESS LANDSCAPE

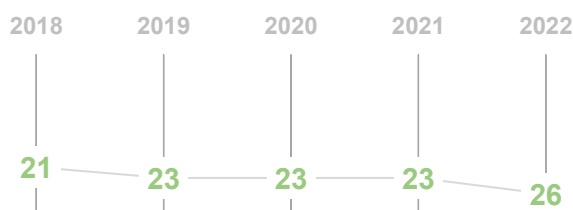


PEER GROUPS RANKINGS

EUROPE - MIDDLE EAST - AFRICA (40 countries)



POPULATIONS < 20 MILLION (36 countries)



Portugal

Competitiveness Evolution & Attractiveness Indicators

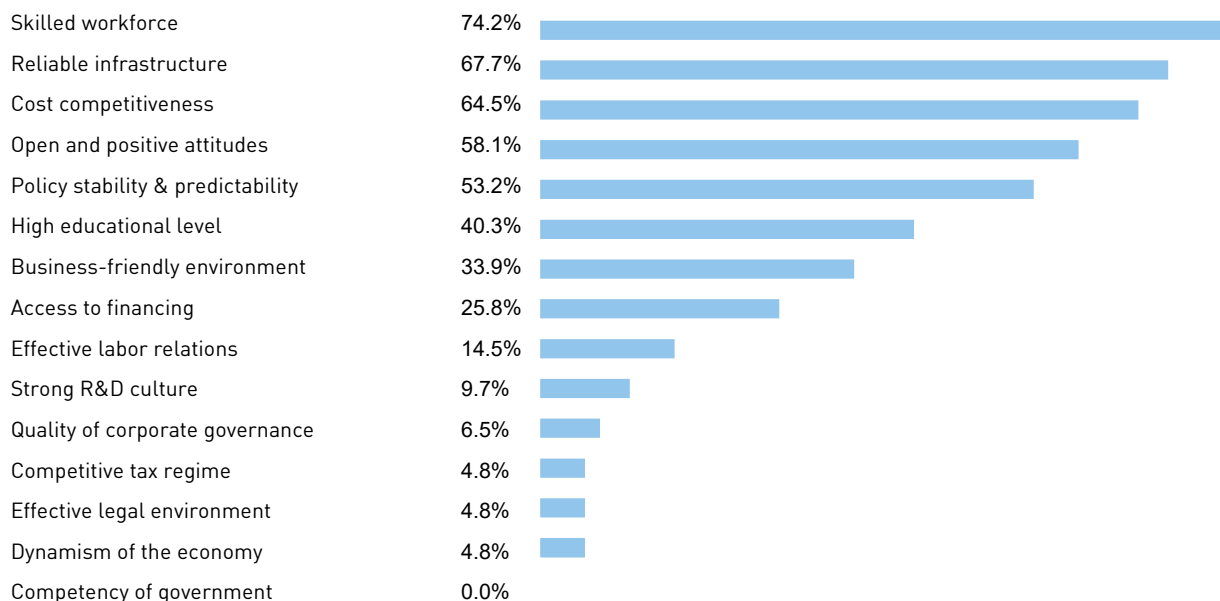
COMPETITIVENESS EVOLUTION

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.

	WCY 2021	WCY 2022		WCY 2021	WCY 2022
IMPROVEMENTS			DECLINES		
1.1.18 Gross fixed capital formation - real growth	-2.15	6.08	3.2.14 Labor force - long-term growth	-0.11	-0.34
1.1.14 Real GDP growth	-7.6	4.9	4.1.07 Population - growth	0.28	-0.08
1.1.15 Real GDP growth per capita	-7.84	5.01	1.2.25 Tourism receipts	8.61	3.86
2.1.02 Government budget surplus/deficit (%)	-5.67	-2.83	2.3.08 Exchange rate stability	0.017	0.024
1.2.12 Exports of commercial services (\$bn)	24.37	31.70	1.2.18 Export concentration by product	35.1	47.8
4.5.09 Student mobility inbound	2.74	3.48	3.2.21 Brain drain	4.03	2.87
4.3.05 Business expenditure on R&D (%)	0.73	0.92	1.4.04 Employment - long-term growth	4.69	3.35
2.3.13 Bribery and corruption	3.36	4.13	2.2.11 Real personal taxes	1.89	1.39
2.1.08 Tax evasion	3.76	4.61	3.2.01 Compensation levels	5.60	6.62
1.2.08 Exports of goods (\$bn)	61.51	75.06	1.5.06 Gasoline prices	1.52	1.80
2.4.11 Parallel economy	4.37	5.29	2.3.04 Country credit rating	42.4	35.7
1.2.13 Exports of commercial services (%)	10.52	12.67	2.5.02 Homicide	0.79	0.91
4.4.13 Safely treated waste water	62.5	73.6	3.2.18 Skilled labor	6.47	5.55
4.4.18 Renewable energies (%)	21.2	24.7	3.2.19 Finance skills	6.27	5.38
4.3.02 Total expenditure on R&D (%)	1.40	1.62	1.4.10 Youth exclusion	8.0	9.1

KEY ATTRACTIVENESS INDICATORS

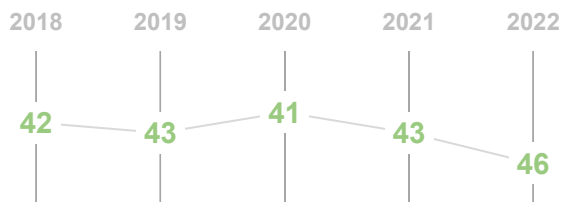
From a list of 15 indicators, respondents of the Executive Opinion Survey were asked to select 5 that they perceived as the key attractiveness factors of their economy. The chart shows the percentage of responses per indicator from the highest number of responses to the lowest.



Portugal

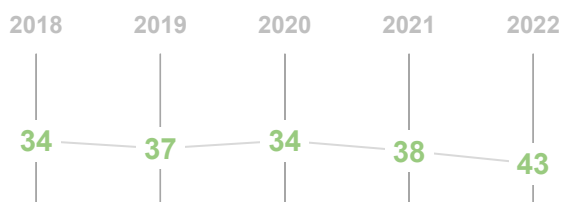
Competitiveness Trends – Factor Breakdown

ECONOMIC PERFORMANCE



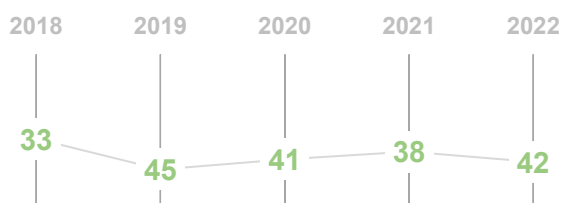
SUB-FACTOR RANKINGS :	2021	2022
Domestic Economy	49	52
International Trade	35	31
International Investment	33	36
Employment	38	34
Prices	36	29

GOVERNMENT EFFICIENCY



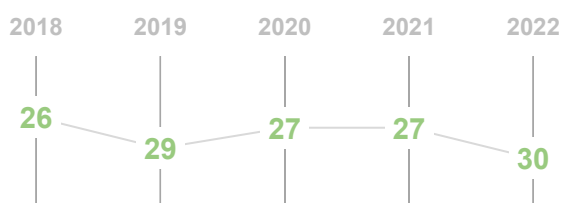
SUB-FACTOR RANKINGS :	2021	2022
Public Finance	54	50
Tax Policy	53	56
Institutional Framework	35	39
Business Legislation	27	30
Societal Framework	20	20

BUSINESS EFFICIENCY



SUB-FACTOR RANKINGS :	2021	2022
Productivity & Efficiency	42	45
Labor Market	42	48
Finance	45	39
Management Practices	51	56
Attitudes and Values	30	31

INFRASTRUCTURE



SUB-FACTOR RANKINGS :	2021	2022
Basic Infrastructure	35	34
Technological Infrastructure	28	37
Scientific Infrastructure	31	28
Health and Environment	23	23
Education	29	26

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Balance Sheet – Factor Breakdown

ECONOMIC PERFORMANCE

STRENGTHS		Rank	WEAKNESSES		Rank
1.2.25	Tourism receipts	04	1.1.19	Resilience of the economy	60
1.5.01	Consumer price inflation	07	1.5.06	Gasoline prices	56
1.4.04	Employment - long-term growth	12	1.3.13	Relocation threats of business	55
1.3.08	Direct investment stocks inward (% of GDP)	16	1.3.01	Direct investment flows abroad (\$bn)	53
1.2.18	Export concentration by product	19	1.4.09	Youth unemployment	52
1.4.10	Youth exclusion	19	1.4.08	Long-term unemployment	48
1.5.04	Office rent	24	1.1.09	Gross fixed capital formation (%)	48
1.2.13	Exports of commercial services (%)	24	1.2.17	Export concentration by partner	47
1.5.02	Cost-of-living index	29	1.1.13	Economic complexity index	43
1.3.02	Direct investment flows abroad (% of GDP)	51	1.2.08	Exports of goods (\$bn)	42

GOVERNMENT EFFICIENCY

STRENGTHS		Rank	WEAKNESSES		Rank
2.4.18	Immigration laws	02	2.2.11	Real personal taxes	62
2.4.04	Foreign investors	04	2.4.16	Labor regulations	58
2.5.16	Freedom of the Press	08	2.5.01	Justice	57
2.3.08	Exchange rate stability	09	2.1.04	Total general government debt (%)	56
2.4.01	Tariff barriers	11	2.3.12	Bureaucracy	56
2.5.04	Risk of political instability	13	2.4.17	Unemployment legislation	54
2.4.05	Capital markets	14	2.2.08	Consumption tax rate	53
2.5.05	Social cohesion	18	2.3.09	Legal and regulatory framework	53
2.4.12	New business density	19	2.1.09	Pension funding	53
2.5.09	Income distribution - lowest 40%	20	2.2.09	Employer social security tax rate	52

BUSINESS EFFICIENCY

STRENGTHS		Rank	WEAKNESSES		Rank
3.2.16	Female labor force	03	3.2.10	Employee training	61
3.5.03	National culture	04	3.4.07	Use of big data and analytics	61
3.5.04	Flexibility and adaptability	16	3.4.10	Social responsibility	59
3.4.11	Women in management	16	3.4.01	Agility of companies	59
3.4.14	Total early-stage Entrepreneurial Activity	21	3.2.21	Brain drain	56
3.2.01	Compensation levels	22	3.3.19	Corporate debt	56
3.5.01	Attitudes toward globalization	22	3.4.02	Changing market conditions	54
3.3.01	Banking sector assets	25	3.4.04	Credibility of managers	54
3.2.03	Remuneration in services professions	27	3.3.08	Stock markets	53
3.5.02	Image abroad or branding	29	3.5.05	Need for economic and social reforms	53

INFRASTRUCTURE

STRENGTHS		Rank	WEAKNESSES		Rank
4.5.06	Secondary school enrollment	01	4.2.02	Mobile Broadband subscribers	59
4.5.05	Pupil-teacher ratio (secondary education)	05	4.2.15	High-tech exports (%)	51
4.5.19	Language skills	08	4.2.17	Cyber security	50
4.2.04	Communications technology	08	4.3.19	Medium- and high-tech value added	49
4.4.09	Medical assistance	10	4.1.07	Population - growth	49
4.4.17	Exposure to particle pollution	11	4.2.06	Internet users	47
4.1.15	Energy infrastructure	13	4.1.09	Dependency ratio	46
4.4.18	Renewable energies (%)	13	4.4.25	Sustainable development	45
4.3.11	Graduates in Sciences	15	4.2.01	Investment in Telecommunications	44
4.3.10	Researchers in R&D per capita	16	4.2.13	Funding for technological development	42

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Extended Country Profile

1 - Economic Performance

1.1 - Domestic Economy

	Value	Average	Rank	Year
1.1.00 - Exchange Rate National currency per US\$ (average)	0.845	21,532.090		2021
1.1.01 - Gross Domestic Product (GDP) US\$ billions	250.1	1,394.4	42	2021
1.1.02 - GDP (PPP) Estimates ; US\$ billions at purchasing power parity	379.7	1,981.9	42	2021
1.1.03 - World GDP contribution Percentage share of world GDP in market prices	0.26	1.44	42	2021
1.1.04 - Household consumption expenditure (\$bn) US\$ billions	160.6	735.2	38	2021
1.1.05 - Household consumption expenditure (%) Percentage of GDP	64.2	53.4	9	2021
1.1.06 - Government consumption expenditure (\$bn) US\$ billions	48.0	232.9	39	2021
1.1.07 - Government consumption expenditure (%) Percentage of GDP	19.2	18.3	30	2021
1.1.08 - Gross fixed capital formation (\$bn) US\$ billions	49.3	351.9	45	2021
1.1.09 - Gross fixed capital formation (%) Percentage of GDP	19.7	22.7	48	2021
1.1.10 - Gross domestic savings (\$bn) US\$ billions	41.5	379.1	46	2021
1.1.11 - Gross domestic savings (%) Percentage of GDP	16.6	28.3	57	2021
1.1.12 - Economic sectors Breakdown of the economic sectors, percentage of GDP				2021
Economic sectors / Agriculture	2.5	3.7		2021
Economic sectors / Industry	22.2	29.1		2021
Economic sectors / Services	75.2	67.0		2021
1.1.13 - Economic complexity index Measures knowledge intensity, by considering exports	0.54	0.86	43	2019
1.1.14 - Real GDP growth Percentage change, based on national currency in constant prices	4.9	5.6	33	2021
1.1.15 - Real GDP growth per capita Percentage change, based on national currency in constant prices	5.01	5.35	31	2021
1.1.16 - Household consumption expenditure - real growth Percentage change, based on constant prices	4.43	4.78	37	2021
1.1.17 - Government consumption expenditure - real growth Percentage change, based on constant prices	5.03	4.01	20	2021
1.1.18 - Gross fixed capital formation - real growth Percentage change, based on constant prices	6.08	6.32	33	2021
1.1.19 - Resilience of the economy Resilience of the economy to economic cycles is strong	3.58	5.88	60	2022
1.1.20 - GDP per capita US\$ per capita	24,322	34,279	34	2021
1.1.21 - GDP (PPP) per capita Estimates; US\$ per capita at purchasing power parity	36,924	44,580	38	2021
1.1.22 - Forecast: Real GDP growth Percentage change, based on national currency in constant prices	4.9	3.7	13	2022
1.1.23 - Forecast: Inflation Percentage change	4.0	38.4	24	2022
1.1.24 - Forecast: Unemployment Percentage of total labor force	5.9	6.3	34	2022
1.1.25 - Forecast: Current account balance Percentage of GDP	-0.4	1.7	38	2022

1.2 · International Trade

Value Average Rank Year

1.2.01 · Current account balance (\$bn) US\$ billions (minus sign = deficit)	-2.8	10.4	44	2021
1.2.02 · Current account balance Percentage of GDP	-1.14	1.64	40	2021
1.2.03 · Balance of trade (\$bn) US\$ billions (minus sign = deficit)	-22.4	-2.5	51	2021
1.2.04 · Balance of trade (%) Percentage of GDP	-8.96	0.27	55	2021
1.2.05 · Balance of commercial services (\$bn) US\$ billions (minus sign = deficit)	11.05	8.39	17	2021
1.2.06 · Balance of commercial services (%) Percentage of GDP	4.42	1.84	14	2021
1.2.07 · World exports contribution Percentage share of world exports (goods and commercial services)	0.38	1.45	42	2021
1.2.08 · Exports of goods (\$bn) US\$ billions	75.06	321.20	42	2021
1.2.09 · Exports of goods (%) Percentage of GDP	30.01	41.98	35	2021
1.2.10 · Exports of goods per capita US\$ per capita	7,300	15,049	36	2021
1.2.11 · Exports of goods - growth Percentage change, based on US\$ values	22.06	27.30	42	2021
1.2.12 · Exports of commercial services (\$bn) US\$ billions	31.70	88.34	34	2021
1.2.13 · Exports of commercial services (%) Percentage of GDP	12.67	15.10	24	2021
1.2.14 · Exports of commercial services - growth Percentage change, based on US\$ values	25.15	17.14	16	2021
1.2.15 · Exports of goods & commercial services US\$ billions	106.76	408.43	42	2021
1.2.16 · Exports breakdown by economic sector Percentage of total exports				2020
Exports breakdown by economic sector / Agriculture	11.1	11.3		2020
Exports breakdown by economic sector / Industry	59.7	64.4		2020
Exports breakdown by economic sector / Services	29.2	24.3		2020
1.2.17 · Export concentration by partner Exports to top 5 countries, percentage of total exports	62.1	55.0	47	2020
1.2.18 · Export concentration by product Top 5 products, percentage of total exports	47.8	57.6	19	2020
1.2.19 · Imports of goods & commercial services (\$bn) US\$ billions	118.1	402.5	23	2021
1.2.20 · Imports of goods & commercial services (%) Percentage of GDP	47.2	54.7	34	2021
1.2.21 · Imports of goods & commerc. services growth Percentage change, based on US\$ values	26.40	24.33	35	2021
1.2.22 · Imports breakdown by economic sector Percentage of total imports				2020
Imports breakdown by economic sector / Agriculture	14.2	9.0		2020
Imports breakdown by economic sector / Industry	69.2	67.7		2020
Imports breakdown by economic sector / Services	16.6	23.3		2020
1.2.23 · Trade to GDP ratio (Exports + Imports) / GDP	78.87	102.61	33	2020
1.2.24 · Terms of trade index Unit value of exports over unit value of imports	98.8	99.4	38	2020
1.2.25 · Tourism receipts International tourism receipts as a percentage of GDP	3.86	1.54	4	2020

1.3 · International Investment

Value Average Rank Year

1.3.01 · Direct investment flows abroad (\$bn) US\$ billions	-0.36	14.96	53	2020
1.3.02 · Direct investment flows abroad (% of GDP) Percentage of GDP	-0.16	4.62	51	2020
1.3.03 · Direct investment stocks abroad (\$bn) US\$ billions	63.4	612.1	39	2020
1.3.04 · Direct investment stocks abroad (% of GDP) Percentage of GDP	27.73	109.57	35	2020
1.3.05 · Direct investment flows inward (\$bn) US\$ billions	4.71	16.61	32	2020
1.3.06 · Direct investment flows inward (% of GDP) Percentage of GDP	2.06	4.86	26	2020
1.3.07 · Direct investment stocks inward (\$bn) US\$ billions	183.6	613.9	34	2020
1.3.08 · Direct investment stocks inward (% of GDP) Percentage of GDP	80.32	122.21	16	2020
1.3.09 · Balance of direct investment flows (\$bn) US\$ billions (flows abroad minus flows inward)	-5.06	-1.64	46	2020
1.3.10 · Balance of direct investment flows (%) Percentage of GDP (flows abroad minus flows inward)	-2.22	-0.24	48	2020
1.3.11 · Net position in direct investment stocks (\$bn) US\$ billions (stocks abroad minus stocks inward)	-120.2	-1.8	47	2020
1.3.12 · Net position in direct investment stocks (%) Percentage of GDP (stocks abroad minus stocks inward)	-52.59	-12.64	52	2020
1.3.13 · Relocation threats of business Relocation of business is not a threat to the future of your economy	4.71	5.36	55	2022
1.3.14 · Portfolio investment assets US\$ billions	8.34	38.51	32	2020
1.3.15 · Portfolio investment liabilities US\$ billions	2.75	34.92	34	2020

1.4 · Employment

Value Average Rank Year

1.4.01 · Employment Total employment in millions	4.81	38.16	36	2021
1.4.02 · Employment (%) Percentage of population	46.80	47.14	35	2021
1.4.03 · Employment - growth Estimates: percentage change	2.75	1.54	19	2021
1.4.04 · Employment - long-term growth Estimates: five year percentage change	3.35	-0.41	12	2021
1.4.05 · Employment by sector Percentage of total employment				2021
Employment by sector / Agriculture	2.7	7.7		2021
Employment by sector / Industry	24.6	23.5		2021
Employment by sector / Services	72.7	68.8		2021
1.4.06 · Employment in the public sector Percentage of total employment	15.20	17.83	23	2020
1.4.07 · Unemployment rate Percentage of labor force	6.60	8.00	39	2021
1.4.08 · Long-term unemployment Percentage of labor force	2.85	2.81	48	2021
1.4.09 · Youth unemployment Percentage of youth labor force (under the age of 25)	23.40	17.13	52	2021
1.4.10 · Youth exclusion Share of youth population (15-24) not in education, employment or training	9.1	14.6	19	2020

1.5 · Prices

Value Average Rank Year

1.5.01 · Consumer price inflation	0.94	29.25	7	2021
Average annual rate				
1.5.02 · Cost-of-living index	76.80	78.37	29	2021
Index of a basket of goods & services in the main city, including housing (New York City = 100)				
1.5.03 · Apartment rent	1,419	1,530	31	2018
3-room apartment monthly rent in major cities, US\$				
1.5.04 · Office rent	392	656	24	2021
Total occupation cost in the main city (US\$/Sq.M. per year)				
1.5.05 · Food costs	17.83	17.58	35	2021
Percentage of household final consumption expenditures				
1.5.06 · Gasoline prices	1.80	1.26	56	2021
Premium unleaded gasoline (95 Ron) US\$ per litre				

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Extended Country Profile

2 · Government Efficiency

2.1 · Public Finance

	Value	Average	Rank	Year
2.1.01 · Government budget surplus/deficit (\$bn) US\$ billions	-7.07	-91.93	24	2021
2.1.02 · Government budget surplus/deficit (%) Percentage of GDP	-2.83	-4.00	22	2021
2.1.03 · Total general government debt (\$bn) US\$ billions	318.70	1,436.31	37	2021
2.1.04 · Total general government debt (%) Percentage of GDP	127.43	71.59	56	2021
2.1.05 · Total general government debt-real growth Percentage change, based on national currency in constant prices	-1.31	8.58	9	2021
2.1.06 · Interest payment (%) Percentage of current revenue	5.40	5.98	39	2021
2.1.07 · Public finances Public finances are being efficiently managed	3.94	4.92	43	2022
2.1.08 · Tax evasion Tax evasion is not a threat to your economy	4.61	5.05	36	2022
2.1.09 · Pension funding Pension funding is adequately addressed for the future	2.98	4.77	53	2022
2.1.10 · General government expenditure Percentage of GDP	48.1	38.2	48	2021

2.2 · Tax Policy

	Value	Average	Rank	Year
2.2.01 · Collected total tax revenues Percentage of GDP	35.16	27.09	44	2020
2.2.02 · Collected personal income tax On profits, income and capital gains, as a percentage of GDP	7.00	6.00	41	2020
2.2.03 · Collected corporate taxes On profits, income and capital gains, as a percentage of GDP	2.76	2.70	35	2020
2.2.04 · Collected indirect tax revenues Taxes on goods and services as a percentage of GDP	13.20	9.41	52	2020
2.2.05 · Collected capital and property taxes Percentage of GDP	1.47	1.47	36	2020
2.2.06 · Collected social security contribution Compulsory contribution of employees and employers as a percentage of GDP	10.39	7.28	38	2020
2.2.07 · Corporate tax rate on profit Maximum tax rate, calculated on profit before tax	21.00	22.34	25	2021
2.2.08 · Consumption tax rate Standard rate of VAT/GST	23.00	16.37	53	2021
2.2.09 · Employer social security tax rate %	23.8	16.0	52	2021
2.2.10 · Employee social security tax rate %	11.0	10.4	36	2021
2.2.11 · Real personal taxes Real personal taxes do not discourage people from working or seeking advancement	1.39	5.12	62	2022

2.3 · Institutional Framework

Value Average Rank Year

2.3.01 · Real short-term interest rate Real discount / bank rate	-1.41	-3.07	39	2021
2.3.02 · Cost of capital Cost of capital encourages business development	5.29	5.63	42	2022
2.3.03 · Interest rate spread Lending rate minus deposit rate	2.19	3.49	23	2021
2.3.04 · Country credit rating Index (0-60) of three country credit ratings: Fitch, Moody's and S&P	35.7	43.0	46	2021
2.3.05 · Central bank policy Central bank policy has a positive impact on the economy	6.20	6.31	41	2022
2.3.06 · Foreign currency reserves US\$ billions	32.57	216.77	45	2021
2.3.07 · Foreign currency reserves per capita US\$ per capita	3,167	9,199	29	2021
2.3.08 · Exchange rate stability Parity change from national currency to SDR, 2021 / 2019	0.024	0.072	9	2021
2.3.09 · Legal and regulatory framework The legal and regulatory framework encourages the competitiveness of enterprises	3.71	5.37	53	2022
2.3.10 · Adaptability of government policy Adaptability of government policy to changes in the economy is high	3.64	4.83	50	2022
2.3.11 · Transparency Transparency of government policy is satisfactory	3.65	4.87	50	2022
2.3.12 · Bureaucracy Bureaucracy does not hinder business activity	2.10	3.72	56	2022
2.3.13 · Bribery and corruption Bribery and corruption do not exist	4.13	4.77	38	2022
2.3.14 · Rule of law Rule of Law Index	85.10	72.47	24	2020
2.3.15 · Sustainable Development Goals Country performance on the 17 SDGs	78.6	75.1	26	2021
2.3.16 · Democracy Index EIU Overall Democracy Index, © The Economist Intelligence Unit Limited 2021	7.82	6.97	25	2021

2.4 · Business Legislation

Value Average Rank Year

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	5.67	5.74	34	2022
Protectionism of your government does not impair the conduct of your business				
2.4.03 · Public sector contracts	6.19	5.96	29	2022
Public sector contracts are sufficiently open to foreign bidders				
2.4.04 · Foreign investors	8.77	6.82	4	2022
Foreign investors are free to acquire control in domestic companies				
2.4.05 · Capital markets	7.74	6.57	14	2022
Capital markets (foreign and domestic) are easily accessible				
2.4.06 · Investment incentives	6.58	5.93	21	2022
Investment incentives are attractive to foreign investors				
2.4.07 · Government subsidies	2.00	2.02	33	2021
To private and public companies as a percentage of GDP				
2.4.08 · Subsidies	4.90	5.52	49	2022
Subsidies do not distort fair competition and economic development				
2.4.09 · State ownership of enterprises	5.58	6.04	43	2022
State ownership of enterprises is not a threat to business activities				
2.4.10 · Competition legislation	4.92	5.84	48	2022
Competition legislation is efficient in preventing unfair competition				
2.4.11 · Parallel economy	5.29	5.14	28	2022
Parallel (black-market, unrecorded) economy does not impair economic development				
2.4.12 · New business density	7.1	5.8	19	2019
Registered new businesses per 1'000 people aged 15-64				
2.4.13 · Creation of firms	7.28	6.63	22	2022
Creation of firms is supported by legislation				
2.4.14 · Start-up days	6.5	15.1	22	2019
Number of days to start a business				
2.4.15 · Start-up procedures	6.0	6.0	32	2019
Number of procedures to start a business				
2.4.16 · Labor regulations	3.55	5.50	58	2022
Labor regulations (hiring/firing practices, minimum wages, etc.) do not hinder business activities				
2.4.17 · Unemployment legislation	3.68	4.99	54	2022
Unemployment legislation provides an incentive to look for work				
2.4.18 · Immigration laws	7.65	5.83	2	2022
Immigration laws do not prevent your company from employing foreign labor				
2.4.19 · Redundancy costs	9.1	9.4	39	2019
Number of weeks of salary				

2.5 · Societal Framework

Value Average Rank Year

2.5.01 · Justice Justice is fairly administered	2.65	5.72	57	2022
2.5.02 · Homicide Intentional homicide, rate per 100'000 population	0.91	4.28	25	2020
2.5.03 · Ageing of population Population over 65, percentage of total population	22.4	14.8	59	2021
2.5.04 · Risk of political instability The risk of political instability is very low	8.10	5.80	13	2022
2.5.05 · Social cohesion Social cohesion is high	6.77	5.68	18	2022
2.5.06 · Gini coefficient Equal distribution of income scale: 0 (absolute equality) to 100 (absolute inequality)	32.80	35.03	25	2019
2.5.07 · Income distribution - lowest 10% Percentage of household incomes going to lowest 10% of households	2.90	2.75		2019
2.5.08 · Income distribution - highest 10% Percentage of household incomes going to highest 10% of households	25.30	26.98		2019
2.5.09 · Income distribution - lowest 40% Percentile going to the lowest 40% of households	20.70	18.99	20	2019
2.5.10 · Income distribution - lowest 40% growth Percentile going to the lowest 40% of households - growth	0.98	0.34	17	2019
2.5.11 · Equal opportunity Equal opportunity legislation in your economy encourages economic development	6.26	6.17	34	2022
2.5.12 · Females in parliament Percentage of total seats in Parliament	40.00	29.11	15	2021
2.5.13 · Unemployment rate - gender ratio Ratio of the female and male unemployment rates	1.10	1.25	38	2021
2.5.14 · Gender inequality Gender Inequality Index (UNDP)	0.075	0.183	19	2019
2.5.15 · Disposable Income Female / male ratio	79.0	72.2	27	2021
2.5.16 · Freedom of the Press Reporters Without Borders: World Press Freedom Score	10.11	27.85	8	2021

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3 · Business Efficiency

3.1 · Productivity & Efficiency

	Value	Average	Rank	Year
3.1.01 · Overall productivity (PPP) Estimates: GDP (PPP) per person employed, US\$	74,026	84,576	41	2021
3.1.02 · Overall productivity (PPP) - real growth Estimates: Percentage change of GDP (PPP) per person employed	2.85	2.84	33	2021
3.1.03 · Labor productivity (PPP) Estimates: GDP (PPP) per person employed per hour, US\$	40.48	48.28	40	2021
3.1.04 · Agricultural productivity (PPP) Estimates: Related GDP (PPP) per person employed in agriculture, US\$	73,733	55,834	17	2021
3.1.05 · Productivity in industry (PPP) Estimates: Related GDP (PPP) per person employed in industry, US\$	71,432	107,180	44	2021
3.1.06 · Productivity in services (PPP) Estimates: Related GDP (PPP) per person employed in services, US\$	81,613	86,235	38	2021
3.1.07 · Workforce productivity Workforce productivity is competitive by international standards	5.29	6.15	50	2022
3.1.08 · Large corporations Large corporations are efficient by international standards	6.39	6.67	42	2022
3.1.09 · Small and medium-size enterprises Small and medium-size enterprises are efficient by international standards	4.81	6.12	51	2022
3.1.10 · Use of digital tools and technologies Companies are very good at using digital tools and technologies to improve performance	5.61	6.29	43	2022

3.2 · Labor Market

Value Average Rank Year

3.2.01 · Compensation levels	6.62	15.09	22	2021
Total hourly compensation in manufacturing (wages + supplementary benefits), US\$				
3.2.02 · Unit labor costs for total economy	1.10	1.59	26	2021
Percentage change				
3.2.03 · Remuneration in services professions	21,500	28,619	27	2018
Gross annual income including supplements such as bonuses, US\$				
Remuneration in services professions / Call center agent	11,532	19,099		2018
Remuneration in services professions / Nurse	19,816	30,277		2018
Remuneration in services professions / Primary school	31,669	30,970		2018
Remuneration in services professions / Product Manager	40,678	49,302		2018
Remuneration in services professions / Sales Assistant	11,434	19,165		2018
Remuneration in services professions / Secretary / Personal	13,873	22,903		2018
3.2.04 · Remuneration of management	157,932	169,169	29	2019
Total base salary plus bonuses and long-term incentives, US\$				
Remuneration of management / CEO	297,298	306,535		2019
Remuneration of management / Director manufacturing	134,512	149,356		2019
Remuneration of management / Engineer	84,110	80,327		2019
Remuneration of management / Human resources director	115,808	140,455		2019
3.2.05 · Remuneration spread	22.42	17.99	42	2018
Ratio of CEO to personal assistant remuneration				
3.2.06 · Working hours	1,829	1,843	30	2021
Average number of working hours per year				
3.2.07 · Worker motivation	4.94	5.87	53	2022
Worker motivation in companies is high				
3.2.08 · Industrial disputes	4.33	12.21	34	2020
Working days lost per 1,000 inhabitants per year (average 2018-2020)				
3.2.09 · Apprenticeships	4.74	5.20	45	2022
Apprenticeships are sufficiently implemented				
3.2.10 · Employee training	4.48	6.03	61	2022
Employee training is a high priority in companies				
3.2.11 · Labor force	5.15	40.47	36	2021
Employed and registered unemployed (millions)				
3.2.12 · Labor force (%)	50.09	50.09	33	2021
Percentage of population				
3.2.13 · Labor force growth	2.32	1.18	16	2021
Percentage change				
3.2.14 · Labor force - long-term growth	-0.34	-0.67	32	2021
Estimates: five year percentage change				
3.2.15 · Part-time employment	6.22	15.19	45	2020
Percentage of total employment				
3.2.16 · Female labor force	49.70	42.68	3	2021
Percentage of total labor force				
3.2.17 · Foreign labor force - migrant stock	13.60	17.76	34	2020
Migrant stock, age 20-64, % of population				
3.2.18 · Skilled labor	5.55	5.21	32	2022
Skilled labor is readily available				
3.2.19 · Finance skills	5.38	6.07	45	2022
Finance skills are readily available				
3.2.20 · Attracting and retaining talents	5.97	6.82	51	2022
Attracting and retaining talents is a priority in companies				
3.2.21 · Brain drain	2.87	4.93	56	2022
Brain drain (well-educated and skilled people) does not hinder competitiveness in your economy				
3.2.22 · Foreign highly-skilled personnel	5.45	5.39	32	2022
Foreign highly-skilled personnel are attracted to your country's business environment				
3.2.23 · International experience	4.94	5.62	48	2022
International experience of senior managers is generally significant				
3.2.24 · Competent senior managers	4.48	5.45	47	2022
Competent senior managers are readily available				

3.3 · Finance

Value Average Rank Year

3.3.01 · Banking sector assets Percentage of GDP	149.94	157.54	25	2021
3.3.02 · Financial cards in circulation Number of cards per capita	3.46	3.45	16	2021
3.3.03 · Financial card transactions US\$ per capita	9,910	11,334	28	2021
3.3.04 · Access to financial services Proportion of adults with a bank account or mobile-money-service provider	92.34	82.66	30	2017
3.3.05 · Access to financial services - gender ratio Ratio of the female and male access to a bank account or mobile-money-service provider	0.96	0.96	37	2017
3.3.06 · Banking and financial services Banking and financial services do support business activities efficiently	5.97	6.24	43	2022
3.3.07 · Regulatory compliance (banking laws) Regulatory compliance is sufficiently developed	6.94	6.92	34	2022
3.3.08 · Stock markets Stock markets provide adequate financing to companies	4.33	5.83	53	2022
3.3.09 · Stock market capitalization (\$bn) US\$ billions	96.2	1,470.4	41	2021
3.3.10 · Stock market capitalization (%) Percentage of GDP	38.47	105.47	39	2021
3.3.11 · Value traded on stock markets US\$ per capita	5,219	23,478	29	2020
3.3.12 · Listed domestic companies Number of listed domestic companies	43	718	52	2020
3.3.13 · Stock market index Percentage change on index in national currency	21.50	26.39	35	2021
3.3.14 · Shareholders' rights Shareholders' rights are sufficiently implemented	7.00	6.91	33	2022
3.3.15 · Initial Public Offerings By acquiror nation (average 2019-2021) US\$ millions	59.1	4,258.5	43	2021
3.3.16 · Credit Credit is easily available for business	6.06	6.05	38	2022
3.3.17 · Venture capital Venture capital is easily available for business	4.61	5.34	46	2022
3.3.18 · M&A Activity Deals per listed company (average 2018-2020)	1.868	1.193	13	2020
3.3.19 · Corporate debt Corporate debt does not restrain the ability of enterprises to compete	4.16	5.83	56	2022

3.4 · Management Practices	Value	Average	Rank	Year
3.4.01 · Agility of companies Companies are agile	5.13	6.08	59	2022
3.4.02 · Changing market conditions Companies are generally extremely aware of changing market conditions	5.87	6.69	54	2022
3.4.03 · Opportunities and threats Companies are very good at responding quickly to opportunities and threats	5.58	6.29	52	2022
3.4.04 · Credibility of managers Credibility of managers in society is strong	5.25	6.15	54	2022
3.4.05 · Corporate boards Corporate boards do supervise the management of companies effectively	5.52	6.17	51	2022
3.4.06 · Auditing and accounting practices Auditing and accounting practices are adequately implemented in business	6.82	7.25	43	2022
3.4.07 · Use of big data and analytics Companies are very good at using big data and analytics to support decision-making	4.10	5.33	61	2022
3.4.08 · Customer satisfaction Customer satisfaction is emphasized in companies	6.45	6.95	47	2022
3.4.09 · Entrepreneurship Entrepreneurship of managers is widespread in business	5.65	6.07	43	2022
3.4.10 · Social responsibility Social responsibility of business leaders is high	4.94	6.16	59	2022
3.4.11 · Women in management Female share of senior and middle management (% of management)	36.97	31.46	16	2019
3.4.12 · Women on boards Boardmembers of all companies analyzed by MSCI	31.10	24.22	19	2021
3.4.13 · Entrepreneurial fear of failure % indicating that fear of failure would prevent them from setting up a business	52.59	42.81	44	2019
3.4.14 · Total early-stage Entrepreneurial Activity % who are either a nascent entrepreneur or owner-manager of a new business	12.89	12.11	21	2019

3.5 · Attitudes and Values	Value	Average	Rank	Year
3.5.01 · Attitudes toward globalization Attitudes toward globalization are generally positive in your society	6.97	6.47	22	2022
3.5.02 · Image abroad or branding The image abroad of your country encourages business development	6.87	6.44	29	2022
3.5.03 · National culture The national culture is open to foreign ideas	8.23	6.82	4	2022
3.5.04 · Flexibility and adaptability Flexibility and adaptability of people are high when faced with new challenges	7.29	6.63	16	2022
3.5.05 · Need for economic and social reforms The need for economic and social reforms is generally well understood	4.74	5.88	53	2022
3.5.06 · Digital transformation in companies Digital transformation in companies is generally well implemented	5.26	5.95	45	2022
3.5.07 · Value system The value system in your society supports competitiveness	5.35	6.23	50	2022

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Extended Country Profile

4 · Infrastructure

4.1 · Basic Infrastructure

Value Average Rank Year

	Value	Average	Rank	Year
4.1.01 · Land area Square kilometers ('000)	92	1,207	41	2021
4.1.02 · Arable area Square meters per capita	1,655	2,704	33	2019
4.1.03 · Water resources Total internal renewable per capita in cubic meters	3,705	18,375	28	2018
4.1.04 · Access to water Access to water is adequately ensured and managed	8.23	7.90	36	2022
4.1.05 · Management of cities Management of cities supports business development	7.19	6.61	23	2022
4.1.06 · Population - market size Estimates in millions	10.28	81.51	37	2021
4.1.07 · Population - growth Percentage change	-0.08	0.30	49	2021
4.1.08 · Dependent Population Percentage of total population	35.9	33.6		2021
Population over 65 years	22.4	14.8		2021
Population under 15 years	13.4	18.7		2021
4.1.09 · Dependency ratio Population under 15 and over 64 years old, divided by active population (15 to 64 years)	55.9	51.2	46	2021
4.1.10 · Roads Density of the network, km roads/square km land area	0.16	1.39	46	2019
4.1.11 · Railroads Density of the network, km per square km	0.027	0.049	29	2020
4.1.12 · Air transportation Number of passengers carried by main companies, thousands	6,220	27,297	37	2020
4.1.13 · Quality of air transportation Quality of air transportation encourages business development	7.39	7.07	31	2022
4.1.14 · Distribution infrastructure The distribution infrastructure of goods and services is generally efficient	8.20	7.12	18	2022
4.1.15 · Energy infrastructure Energy infrastructure is adequate and efficient	8.32	6.81	13	2022
4.1.16 · Total indigenous energy production Millions MTOE	5.88	169.14	50	2019
4.1.17 · Total indigenous energy production (%) Percentage of total requirements in tons of oil equivalent	27.0	106.4	53	2019
4.1.18 · Total final energy consumption Millions MTOE	16.78	122.04	21	2019
4.1.19 · Total final energy consumption per capita MTOE per capita	1.63	2.46	22	2019
4.1.20 · Electricity costs for industrial clients US\$ per kwh	0.128	0.107	41	2020

4.2 · Technological Infrastructure

Value Average Rank Year

4.2.01 · Investment in Telecommunications Percentage of GDP	0.32	0.42	44	2021
4.2.02 · Mobile Broadband subscribers 4G & 5G market, % of mobile market	42.2	71.5	59	2020
4.2.03 · Mobile Telephone costs Monthly Blended Average Revenue per User	10.0	15.7	22	2020
4.2.04 · Communications technology Communications technology (voice and data) meets business requirements	9.03	7.67	8	2022
4.2.05 · Secure internet servers publicly-trusted TLS/SSL certificates, Netcraft Secure Server Survey.	22,161	36,109	31	2020
4.2.06 · Internet users Number of internet users per 1000 people	782	839	47	2021
4.2.07 · Broadband subscribers Number of subscriptions per 1000 inhabitants	451	381	20	2020
4.2.08 · Internet bandwidth speed Average speed	109.3	93.5	22	2021
4.2.09 · Digital/Technological skills Digital/Technological skills are readily available	7.42	6.79	20	2022
4.2.10 · Qualified engineers Qualified engineers are available in your labor market	7.13	6.35	18	2022
4.2.11 · Public-private partnerships Public and private sector ventures are supporting technological development	5.80	6.08	39	2022
4.2.12 · Development & application of tech. Development and application of technology are supported by the legal environment	6.61	6.46	29	2022
4.2.13 · Funding for technological development Funding for technological development is readily available	5.55	5.98	42	2022
4.2.14 · High-tech exports (\$) US\$ millions	3,371	47,160	38	2020
4.2.15 · High-tech exports (%) Percentage of manufactured exports	7.11	18.12	51	2020
4.2.16 · ICT service exports Percentage of service exports	5.7	9.7	41	2018
4.2.17 · Cyber security Cyber security is being adequately addressed by corporations	4.94	5.89	50	2022

4.3 · Scientific Infrastructure

Value Average Rank Year

4.3.01 · Total expenditure on R&D (\$) US\$ millions	3,696	31,953	31	2020
4.3.02 · Total expenditure on R&D (%) Percentage of GDP	1.62	1.63	25	2020
4.3.03 · Total expenditure on R&D per capita (\$) US\$ per capita	359.2	647.1	31	2020
4.3.04 · Business expenditure on R&D (\$) US\$ millions	2,106	24,238	31	2020
4.3.05 · Business expenditure on R&D (%) Percentage of GDP	0.92	1.11	25	2020
4.3.06 · Total R&D personnel Full-time work equivalent (FTE thousands)	66.0	233.3	25	2020
4.3.07 · Total R&D personnel per capita Full-time work equivalent (FTE) per 1000 people	6.42	5.37	23	2020
4.3.08 · Total R&D personnel in business enterprise Full-time work equivalent (FTE thousands)	30.9	183.3	28	2020
4.3.09 · Total R&D personnel in business per capita Full-time work equivalent (FTE) per 1000 people	3.00	3.31	29	2020
4.3.10 · Researchers in R&D per capita Full-time work equivalent (FTE) per 1000 people	5.2	3.6	16	2020
4.3.11 · Graduates in Sciences % of graduates in ICT, Engineering, Math & Natural Sciences	27.99	24.75	15	2019
4.3.12 · Scientific articles Scientific articles published by origin of author	15,928	39,473	26	2019
4.3.13 · Nobel prizes Awarded in physics, chemistry, physiology or medicine and economics since 1950	0	9	28	2021
4.3.14 · Nobel prizes per capita Awarded in physics, chemistry, physiology or medicine and economics since 1950 per million people	0.00	0.19	28	2021
4.3.15 · Patent applications Number of applications filed by applicant's origin	1,874	52,962	35	2020
4.3.16 · Patent applications per capita Number of applications filed by applicant's origin, per 100,000 inhabitants	18.21	80.01	33	2020
4.3.17 · Patent grants Number of patents granted by applicant's origin (average 2018-2020)	630	25,007	40	2020
4.3.18 · Number of patents in force by applicant's origin, per 100,000 inhabitants	58.8	491.7	35	2020
4.3.19 · Medium- and high-tech value added Proportion of total manufacturing value added, expressed as a percentage	25.53	38.63	49	2019
4.3.20 · Scientific research legislation Laws relating to scientific research do encourage innovation	6.39	5.97	28	2022
4.3.21 · Intellectual property rights Intellectual property rights are adequately enforced	6.89	6.59	29	2022
4.3.22 · Knowledge transfer Knowledge transfer is highly developed between companies and universities	4.98	5.52	41	2022

4.4 · Health and Environment

Value Average Rank Year

4.4.01 · Total health expenditure Percentage of GDP	9.5	7.5	17	2019
4.4.02 · Total health expenditure per capita US\$ per capita	2,228	2,614	26	2019
4.4.03 · Public expenditure on health (%) Percentage of total health expenditure	60.91	65.44	38	2019
4.4.04 · Health infrastructure Health infrastructure meets the needs of society	6.68	5.97	29	2022
4.4.05 · Universal health coverage index Coverage index for essential health services (0-100)	84	78	18	2019
4.4.06 · Life expectancy at birth Average estimate	81.0	78.4	25	2020
4.4.07 · Healthy life expectancy Average estimate	70.3	68.3	24	2021
4.4.08 · Infant mortality Under five mortality rate per 1000 live births	3.3	7.9	17	2020
4.4.09 · Medical assistance Number of inhabitants per physician and per nurse			10	2021
Medical assistance / Per nurse	150.96	302.83		2021
Medical assistance / Per physician	200.23	533.91		2021
4.4.10 · Urban population Percentage of total population	67	77		2021
4.4.11 · Human development index Combines economic - social - educational indicators/ Source: Human Development Report	0.864	0.862	36	2019
4.4.12 · Energy intensity Total energy consumed for each 1000 US\$ of GDP in MTOE	67	102	20	2018
4.4.13 · Safely treated waste water Percentage of waste water	73.6	76.7	41	2020
4.4.14 · Water use efficiency US\$ per cubic meter	30.75	97.67	40	2019
4.4.15 · CO2 emissions Metric tons of carbon dioxide from fuel combustion	37.3	420.2	23	2020
4.4.16 · CO2 emissions intensity CO2 emissions from fuel combustion in metric tons per one million US\$ of GDP	163.3	354.2	21	2020
4.4.17 · Exposure to particle pollution Mean population exposure to PM2.5, Micrograms per cubic metre	8.18	20.45	11	2019
4.4.18 · Renewable energies (%) Share of renewables in total energy requirements, %	24.7	16.8	13	2019
4.4.19 · Forest area growth Five year percentage change of hectares	0.0	0.4	30	2020
4.4.20 · Total biocapacity Global hectares per capita of biologically productive space	1.29	3.26	36	2018
4.4.21 · Ecological footprint Global hectares per person	4.6	5.0	29	2018
4.4.22 · Ecological balance (reserve/deficit) Total biocapacity minus total footprint in global hectares per capita	-3.26	-1.73	43	2018
4.4.23 · Environment-related technologies Development of environment-related technologies, % inventions worldwide	0.07	1.60	36	2019
4.4.24 · Environmental agreements Multilateral agreements on hazardous waste, proportion fulfilled	87.50	83.34	29	2015
4.4.25 · Sustainable development Sustainable development is a priority in companies	5.58	6.21	45	2022
4.4.26 · Pollution problems Pollution problems do not seriously affect your economy	6.39	5.71	17	2022
4.4.27 · Environmental laws Environmental laws and compliance do not hinder the competitiveness of businesses	6.55	6.17	19	2022
4.4.28 · Quality of life Quality of life is high	7.39	6.76	29	2022

4.5 · Education

Value Average Rank Year

	Value	Average	Rank	Year
4.5.01 · Total public expenditure on education Percentage of GDP	5.0	5.0	30	2020
4.5.02 · Total public expenditure on education per capita US\$ per capita	1,112	1,562	32	2020
4.5.03 · Total public exp. on education per student Spending per enrolled pupil/student, all levels	5,398	6,944	32	2019
4.5.04 · Pupil-teacher ratio (primary education) Ratio of students to teaching staff	12.31	15.95	17	2019
4.5.05 · Pupil-teacher ratio (secondary education) Ratio of students to teaching staff	9.15	13.74	5	2019
4.5.06 · Secondary school enrollment Percentage of relevant age group receiving full-time education	99.8	92.7	1	2019
4.5.07 · Higher education achievement Percentage of population that has attained at least tertiary education for persons 25-34	41.9	44.2	36	2020
4.5.08 · Women with degrees Share of women who have a degree in the population 25-65	33.0	39.7	39	2020
4.5.09 · Student mobility inbound Foreign tertiary-level students per 1000 inhabitants	3.48	4.01	28	2019
4.5.10 · Student mobility outbound National tertiary-level students studying abroad per 1000 inhabitants	2.01	2.62	23	2019
4.5.11 · Educational assessment - PISA PISA survey of 15-year olds	492	471	26	2018
Educational assessment - PISA / Mathematics	492	472		2018
Educational assessment - PISA / Reading	492	468		2018
Educational assessment - PISA / Sciences	492	472		2018
4.5.12 · Students who are not low achievers - PISA % of students who are not low achievers in maths, sciences and reading	69.6	58.5	24	2018
4.5.13 · English proficiency - TOEFL TOEFL scores	94	92	22	2020
4.5.14 · Primary and secondary education Primary and secondary education meets the needs of a competitive economy	6.29	6.10	32	2022
4.5.15 · University education University education meets the needs of a competitive economy	7.29	6.40	20	2022
4.5.16 · Management education Management education meets the needs of the business community	6.94	6.34	21	2022
4.5.17 · University education index Country score calculated from Times Higher Education university ranking	12.31	14.07	27	2021
4.5.18 · Illiteracy Adult (over 15 years) illiteracy rate as a percentage of population	3.9	2.4	51	2018
4.5.19 · Language skills Language skills are meeting the needs of enterprises	8.39	6.41	8	2022

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