

IMD World Competitiveness Yearbook 2021

COUNTRY PROFILE



ISRAEL

OVERALL PERFORMANCE (64 countries)



CHALLENGES IN 2021

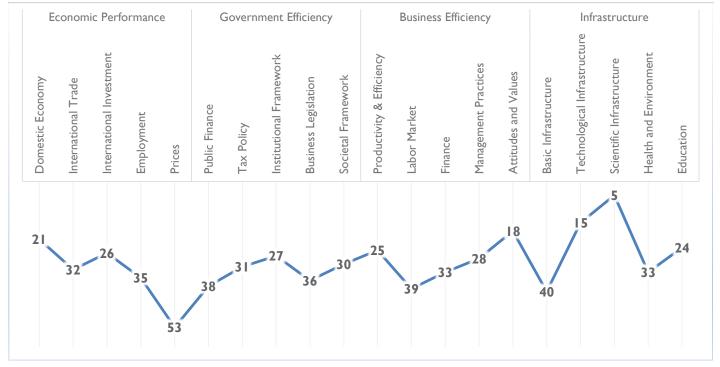
- To restart the economy after the COVID-19 crisis.
- To decrease the number of unemployed.
- To decrease the government deficit after the COVID-19 crisis.
- To help private companies to regain productivity.
- To increase productivity generally.

	Rank
Jerusalem	
22 ²⁰²⁰	
3.442 ²⁰²⁰	
9.29 ²⁰²⁰	41
402.6 ²⁰²⁰	28
40,208 2020	29
-2.4 ²⁰²⁰	11
-0.59 ²⁰²⁰	9
4.33 ²⁰²⁰	13
4.09 ²⁰²⁰	43
4.99 ²⁰²⁰	12
166.2 ²⁰¹⁹	34
4.83 ²⁰¹⁹	9
	22 ²⁰²⁰ 3.442 ²⁰²⁰ 9.29 ²⁰²⁰ 402.6 ²⁰²⁰ 40,208 ²⁰²⁰ -2.4 ²⁰²⁰ -0.59 ²⁰²⁰ 4.33 ²⁰²⁰ 4.09 ²⁰²⁰ 4.99 ²⁰²⁰ 166.2 ²⁰¹⁹

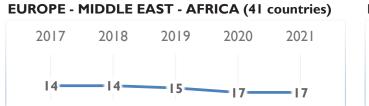
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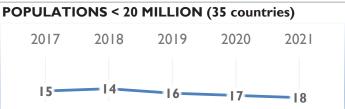
The Federation of Israeli Chambers of Commerce, Tel-Aviv

COMPETITIVENESS LANDSCAPE



PEER GROUPS RANKINGS





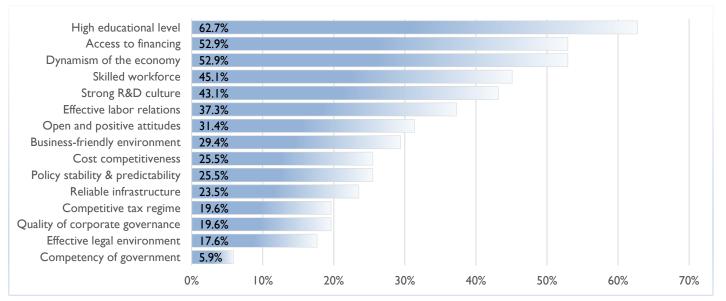
COMPETITIVENESS EVOLUTION

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 2020	WCY 2021	DECLINES	WCY 2020	WCY 2021
1.5.01 Consumer price inflation	0.84	-0.59	1.4.04 Employment - long-term growth	0.75	-3.78
4.1.07 Population - growth	1.93	2.73	3.2.14 Labor force long-term growth	-0.77	-4.25
1.2.02 Current account balance	3.63	4.99	1.1.18 Gross fixed capital formation - real growth	1.77	-5.83
2.3.07 Foreign currency reserves per capita	13,928	18,646	1.1.15 Real GDP growth per capita	1.55	-5.02
1.4.08 Long-term unemployment	1.34	1.00	2.3.08 Exchange rate stability	0.013	0.057
2.5.13 Unemployment rate - gender ratio	1.05	0.80	1.1.14 Real GDP growth	3.5	-2.4
4.4.04 Health infrastructure	5.90	7.04	2.1.02 Government budget surplus/deficit (%)	-3.71	-9.65
4.4.28 Quality of life	6.51	7.64	3.2.21 Brain drain	5.95	3.84
4.4.25 Sustainable development	5.56	6.44	2.4.11 Parallel economy	5.56	3.63
4.5.03 Total public exp. on education per student	8,519	9,763	2.2.11 Real personal taxes	6.39	4.71
4.3.18 Number of patents in force	690.5	786.2	2.3.12 Bureaucracy	3.61	2.86
4.4.27 Environmental laws	5.66	6.36	2.3.13 Bribery and corruption	4.73	3.76
1.5.06 Gasoline prices	1.82	1.61	2.1.04 Total general government debt (%)	61.08	73.04
3.5.02 Image abroad or branding	6.73	7.37	2.4.17 Unemployment legislation	5.76	4.75
2.4.10 Competition legislation	5.32	5.80	2.4.03 Public sector contracts	6.05	5.00

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.



ECONOMIC PERFORMANCE



Sub-Factor Rankings :	2020	2021
Domestic Economy	24	21
International Trade	36	32
International Investment	25	26
Employment	38	35
Prices	53	53

GOVERNMENT EFFICIENCY



Sub-Factor Rankings :	2020	2021
Public Finance	38	38
Tax Policy	21	31
Institutional Framework	27	27
Business Legislation	31	36
Societal Framework	26	30

BUSINESS EFFICIENCY



Sub-Factor Rankings :	2020	2021
Productivity & Efficiency	31	25
Labor Market	34	39
Finance	29	33
Management Practices	33	28
Attitudes and Values	16	18

INFRASTRUCTURE



Sub-Factor Rankings :	2020	2021
Basic Infrastructure	45	40
Technological Infrastructure	16	15
Scientific Infrastructure	5	5
Health and Environment	26	33
Education	23	24

Rank

Rank

STRENGTHS

Economic Performance	Rank
1.2.24 Terms of trade index	2
1.4.09 Youth unemployment	6
1.1.19 Resilience of the economy	8
1.5.01 Consumer price inflation	9
1.3.06 Direct investment flows inward (% of GDP)	9
I.I.I4 Real GDP growth	11
1.2.02 Current account balance	12
1.4.07 Unemployment rate	13
1.1.20 GDP per capita	19
1.2.13 Exports of commercial services (%)	19

Government Efficiency

2.3.07 Foreign currency reserves per capita	5
2.5.13 Unemployment rate - gender ratio	5
2.4.15 Start-up procedures	6
2.4.07 Government subsidies	13
2.2.09 Employer social security tax rate	14
2.1.09 Pension funding	20
2.3.16 Democracy Index	24
2.3.04 Country credit rating	25
2.3.10 Adaptability of government policy	26
2.4.16 Labor regulations	27

Business Efficiency

-	
3.4.07 Use of big data and analytics	7
3.4.09 Entrepreneurship	8
3.1.10 Use of digital tools and technologies	10
3.2.16 Female labor force	10
3.3.05 Access to financial services - gender ratio	10
3.5.03 National culture	14
3.2.17 Foreign labor force - migrant stock	14
3.2.23 International experience	16
3.5.06 Digital transformation in companies	18
3.2.09 Apprenticeships	18

Infrastructure

4.3.05	Business expenditure on R&D (%)	I
4.3.02	Total expenditure on R&D (%)	Ι
4.2.17	ICT service exports	I
4.1.07	Population - growth	2
4.2.18	Cyber security	2
4.5.01	Total public expenditure on education	3
4.5.08	Women with degrees	5
4.4.12	Energy intensity	5
4.3.22	Knowledge transfer	7
4.4.06	Life expectancy at birth	8

WEAKNESSES

Economic Performance	Rank
1.2.09 Exports of goods (%)	60
1.5.06 Gasoline prices	59
1.5.02 Cost-of-living index	54
1.2.23 Trade to GDP ratio	51
1.4.04 Employment - long-term growth	47
1.4.02 Employment (%)	47
1.2.08 Exports of goods (\$bn)	45
1.4.10 Youth exclusion	43
1.1.09 Gross fixed capital formation (%)	42
1.2.25 Tourism receipts	41

Government Efficiency

Rank

Rank

Rank

2.4.19	Redundancy costs	55
2.1.02	Government budget surplus/deficit (%)	51
2.4.13	Creation of firms	51
2.4.18	Immigration laws	46
2.5.06	Gini coefficient	46
2.4.03	Public sector contracts	45
2.4.09	State ownership of enterprises	44
2.5.09	Income distribution - lowest 40%	43
2.4.02	Protectionism	43
2.3.02	Cost of capital	43

Business Efficiency

	Marin
3.4.13 Entrepreneurial fear of failure	52
3.2.14 Labor force long-term growth	52
3.2.12 Labor force (%)	52
3.3.07 Regulatory compliance (banking laws)	52
3.1.08 Large corporations	50
3.4.02 Changing market conditions	50
3.2.01 Compensation levels	48
3.2.20 Attracting and retaining talents	48
3.2.21 Brain drain	47
3.3.14 Shareholders' rights	44

Rank Infrastructure 4.1.09 Dependency ratio 63 4.4.19 Forest area growth 62 56 4.4.18 Renewable energies (%) 4.2.01 Investment in Telecommunications 56 4.5.09 Student mobility inbound 47 4.4.24 Environmental agreements 47 4.2.04 Communications technology 46 4.4.17 Exposure to particle pollution 43 4.1.14 Distribution infrastructure 40 4.5.12 Students who are not low achievers - PISA 39

I ·Economic Performance

I.I ·Domestic Economy	Value	Average	Rank	Year
I.I.00 · Exchange Rate	3.442	859.762		2020
National currency per US\$ (average)				
1.1.01 · Gross Domestic Product (GDP)	402.6	1,235.5	28	2020
US\$ billions				
I.I.02 · GDP (PPP)	373.7	1,829.9	42	2020
Estimates ; US\$ billions at purchasing power parity				
1.1.03 · World GDP contribution	0.48	1.46	28	2020
Percentage share of world GDP in market prices				
1.1.04 · Household consumption expenditure (\$bn)	194.5	673.9	31	2020
US\$ billions				
1.1.05 · Household consumption expenditure (%)	48.3	54.8	48	2020
Percentage of GDP				
1.1.06 · Government consumption expenditure (\$bn)	97.0	219.7	23	2020
US\$ billions				
1.1.07 · Government consumption expenditure (%)	24.1	18.7	9	2020
Percentage of GDP				
I.I.08 · Gross fixed capital formation (\$bn)	82.2	317.6	29	2020
US\$ billions				
1.1.09 · Gross fixed capital formation (%)	20.4	22.2	42	2020
Percentage of GDP	20.1			
1.1.10 · Gross domestic savings (\$bn)	[]]].[336.5	30	2020
US\$ billions		550.5	50	
I.I.II · Gross domestic savings (%)	27.6	26.4	26	2020
Percentage of GDP	27.0	20.7	20	
1.1.12 · Economic sectors				2020
Breakdown of the economic sectors, percentage of GDP				
Economic sectors / Agriculture	1.7	3.8		2020
	1.7	5.0		
Economic sectors / Industry	21.3	27.6		2020
	21.5	27.0		
Economic sectors / Services	77.0	68.2		2020
	77.0	00.2		
1.1.13 · Economic complexity index	1.32	0.91	20	2019
Measures knowledge intensity, by considering exports	1.52	0.71	20	
1.1.14 · Real GDP growth	-2.4	-5.1	11	2020
Percentage change, based on national currency in constant prices	-2.7	-5.1		
	-5.02	-5.54	34	2020
I.I.I5 · Real GDP growth per capita Percentage change, based on national currency in constant prices	-5:02	-5.54	74	
	9.40	EII	E A	2020
I.I.I6 · Household consumption expenditure - real growth Percentage change, based on constant prices	-9.60	-5.11	54	
	1.01	2 5 5	42	2020
1.1.17 · Government consumption expenditure - real growth	1.81	3.55	43	2020
Percentage change, based on constant prices	E 03	F 7F	25	2020
1.1.18 · Gross fixed capital formation - real growth	-5.83	-5.75	35	2020
Percentage change, based on constant prices			•	2021
1.1.19 · Resilience of the economy	7.22	5.59	8	2021
Resilience of the economy to economic cycles is strong		00.011		2020
I.I.20 · GDP per capita	43,322	29,214	19	2020
US\$ per capita				000-
1.1.21 · GDP (PPP) per capita	40,208	39,600	29	2020
Estimates; US\$ per capita at purchasing power parity				
1.1.22 · Forecast: Real GDP growth	6.3	4.2	7	2021
Percentage change, based on national currency in constant prices				
1.1.23 · Forecast: Inflation	0.6	88.8	6	2021

Percentage change				
1.1.24 · Forecast: Unemployment	7.7	8.0	41	2021
Percentage of total labor force				
1.1.25 · Forecast: Current account balance	4.1	0.9	16	2021
Percentage of GDP				

1.2 · International Trade	Value	Average	Rank	Year
1.2.01 · Current account balance (\$bn)	20.1	9.3	21	2020
US\$ billions (minus sign = deficit)				
1.2.02 · Current account balance	4.99	1.65	12	2020
Percentage of GDP				
1.2.03 · Balance of trade (\$bn)	-20.3	0.7	54	2020
US\$ billions (minus sign = deficit)				
1.2.04 · Balance of trade (%)	-5.04	0.35	50	2020
Percentage of GDP				
1.2.05 · Balance of commercial services (\$bn)	28.30	4.81	5	2020
US\$ billions (minus sign = deficit)				
1.2.06 · Balance of commercial services (%)	7.03	1.21	5	2020
Percentage of GDP				
1.2.07 · World exports contribution	0.46	1.47	37	2020
Percentage share of world exports (goods and commercial services)				
1.2.08 · Exports of goods (\$bn)	49.63	257.28	45	2020
US\$ billions				
1.2.09 · Exports of goods (%)	12.33	37.14	60	2020
Percentage of GDP				
1.2.10 · Exports of goods per capita	5,340	11,553	36	2020
US\$ per capita				
1.2.11 · Exports of goods - growth	-15.18	-8.76	53	2020
Percentage change, based on US\$ values				
1.2.12 · Exports of commercial services (\$bn)	53.66	73.11	24	2020
US\$ billions				
1.2.13 · Exports of commercial services (%)	13.33	13.39	19	2020
Percentage of GDP				
1.2.14 · Exports of commercial services - growth	-3.00	-25.43	5	2020
Percentage change, based on US\$ values				
1.2.15 · Exports of goods & commercial services	103.29	332.15	37	2020
US\$ billions				
1.2.16 · Exports breakdown by economic sector				2019
Percentage of total exports				
Exports breakdown by economic sector / Agriculture	2.0	10.3		2019
Exports breakdown by economic sector / Industry	49.4	62.7		2019
Exports breakdown by economic sector / Services	48.6	27.0		2019
1.2.17 · Export concentration by partner	56.2	54.2	40	2019
Exports to top 5 countries, percentage of total exports				
1.2.18 · Export concentration by product	51.1	55.I	31	2019
Top 5 products, percentage of total exports				
1.2.19 · Imports of goods & commercial services (\$bn)	95.3	325.6	25	2020
US\$ billions				
1.2.20 · Imports of goods & commercial services (%)	23.7	48.8	14	2020
Percentage of GDP				
1.2.21 · Imports of goods & commercial services - growth	-12.15	-10.93	27	2020
Percentage change, based on US\$ values				2010
1.2.22 · Imports breakdown by economic sector				2019
Percentage of total imports				2010
Imports breakdown by economic sector / Agriculture	6.8	8.0		2019
	(2.0	(7)		2019
Imports breakdown by economic sector / Industry	63.8	67.I		2017

Imports breakdown by economic sector / Services	29.4	25.0		2019
	5 ())	104.04		2019
1.2.23 · Trade to GDP ratio	56.32	106.04	51	2015
(Exports + Imports) / GDP				2010
1.2.24 · Terms of trade index	110.6	97.1	2	2019
Unit value of exports over unit value of imports				
1.2.25 · Tourism receipts	1.93	3.79	41	2019
International tourism receipts as a percentage of GDP				
1.3 ·International Investment	Value	Average	Rank	Year
1.3.01 · Direct investment flows abroad (\$bn)	8.60	20.75	26	201
US\$ billions				
1.3.02 · Direct investment flows abroad (% of GDP)	2.18	3.34	16	2019
Percentage of GDP				
1.3.03 · Direct investment stocks abroad (\$bn)	110.4	535.2	36	2019
US\$ billions				
1.3.04 · Direct investment stocks abroad (% of GDP)	27.97	81.76	29	201
Percentage of GDP				
.3.05 · Direct investment flows inward (\$bn)	19.05	24.48	20	201
US\$ billions				
1.3.06 · Direct investment flows inward (% of GDP)	4.83	5.03	9	201
Percentage of GDP				
1.3.07 · Direct investment stocks inward (\$bn)	166.2	536.5	34	2019
US\$ billions				_
1.3.08 · Direct investment stocks inward (% of GDP)	42.12	96.59	34	2019
Percentage of GDP				
1.3.09 · Balance of direct investment flows (\$bn)	-10.45	-3.73	52	201
US\$ billions (flows abroad minus flows inward)				_
1.3.10 · Balance of direct investment flows (%)	-2.65	-1.69	51	201
Percentage of GDP (flows abroad minus flows inward)				
1.3.11 · Net position in direct investment stocks (\$bn)	-55.8	-1.3	40	201
US\$ billions (stocks abroad minus stocks inward)				
1.3.12 · Net position in direct investment stocks (%)	-14.15	-14.83	36	201
Percentage of GDP (stocks abroad minus stocks inward)				
1.3.13 · Relocation threats of business	5.76	5.38	19	202
Relocation of business is not a threat to the future of your economy				
1.3.14 · Portfolio investment assets	6.44	31.19	30	201
US\$ billions				_
1.3.15 · Portfolio investment liabilities	-0.03	29.61	49	201
US\$ billions				
I.4 ·Employment	Value	Average	Rank	Yesi
		-		
1.4.01 · Employment	3.91	38.49	42	2020

1 /	-
1.4.01 · Employment	3.91 38.49 42 ²
Total employment in millions	
I.4.02 · Employment (%)	42.10 46.43 47 2
Percentage of population	
1.4.03 · Employment - growth	-1.36 -2.20 29 ²
Estimates: percentage change	
1.4.04 · Employment - long-term growth	-3.78 -0.60 47 ²
Estimates: % of population, percentage change in 4 years	
1.4.05 · Employment by sector	2
Percentage of total employment	
Employment by sector / Agriculture	0.9 8.2 ²
Employment by sector / Industry	15.6 23.4 ²
Employment by sector / Services	83.4 68.4 ²
1.4.06 · Employment in the public sector	33.00 17.45 60 ²

Percentage of total employment				
I.4.07 · Unemployment rate	4.33	8.49	13	2020
Percentage of labor force				
I.4.08 · Long-term unemployment	1.00	2.17	20	2020
Percentage of labor force				
I.4.09 · Youth unemployment	6.68	17.16	6	2019
Percentage of youth labor force (under the age of 25)				
1.4.10 · Youth exclusion	15.3	13.6	43	2019

Share of youth population (15-24) not in education, employment or training

1.5 · Prices

1.5 · Prices	Value	Average	Rank	Year
1.5.01 · Consumer price inflation	-0.59	38.79	9	2020
Average annual rate				
1.5.02 · Cost-of-living index	93.10	76.02	54	2019
Index of a basket of goods & services in the main city, including housing (New York City = 100)				
1.5.03 · Apartment rent	1,969	1,525	45	2018
3-room apartment monthly rent in major cities, US\$				
1.5.04 · Office rent	637	664	40	2019
Total occupation cost in the main city (US\$/Sq.M. per year)				
1.5.05 · Food costs	15.54	18.82	24	2020
Percentage of household final consumption expenditures				
1.5.06 · Gasoline prices	1.61	1.13	59	2020

Premium unleaded gasoline (95 Ron) US\$ per litre

2 · Government Efficiency

2.1 · Public Finance	Value	Average	Rank	Year
2.1.01 · Government budget surplus/deficit (\$bn)	-38.86	-131.03	45	2020
US\$ billions				
2.1.02 · Government budget surplus/deficit (%)	-9.65	-7.12	51	2020
Percentage of GDP				
2.1.03 · Total general government debt (\$bn)	294.07	1,251.77	39	2020
US\$ billions				
2.1.04 · Total general government debt (%)	73.04	70.60	40	2020
Percentage of GDP				
2.1.05 · Total general government debt-real growth	20.68	16.13	48	2020
Percentage change, based on national currency in constant prices				
2.1.06 · Interest payment (%)	5.95	5.79	43	2020
Percentage of current revenue				
2.1.07 · Public finances	4.04	4.52	36	2021
Public finances are being efficiently managed				
2.1.08 · Tax evasion	4.55	4.66	28	2021
Tax evasion is not a threat to your economy				
2.1.09 · Pension funding	5.29	4.32	20	2021
Pension funding is adequately addressed for the future				
2.1.10 · General government expenditure	43.9	40.8	35	2020
Percentage of GDP				

2.2 · Tax Policy

2.2 · Tax Policy	Value	Average	Rank	Year
2.2.01 · Collected total tax revenues	30.47	27.57	35	2019
Percentage of GDP				
2.2.02 · Collected personal income tax	6.39	5.95	39	2019
On profits, income and capital gains, as a percentage of GDP				
2.2.03 · Collected corporate taxes	3.08	3.07	34	2019
On profits, income and capital gains, as a percentage of GDP				
2.2.04 · Collected indirect tax revenues	10.93	9.82	35	2019
Taxes on goods and services as a percentage of GDP				
2.2.05 · Collected capital and property taxes	3.09	1.34	56	2019
Percentage of GDP				
2.2.06 · Collected social security contribution	5.29	7.13	24	2019
Compulsory contribution of employees and employers as a percentage of GDP				
2.2.07 · Corporate tax rate on profit	23.00	22.80	34	2020
Maximum tax rate, calculated on profit before tax				
2.2.08 · Consumption tax rate	17.00	16.43	26	2020
Standard rate of VAT/GST				
2.2.09 · Employer social security tax rate	7.6	16.4	14	2020
%				
2.2.10 · Employee social security tax rate	12.0	10.4	40	2020
%				
2.2.11 · Real personal taxes	4.71	5.03	38	2021
Real personal taxes do not discourage people from working or seeking advancement				

2.3 · Institutional Framework	Value	Average	Rank	Year
2.3.01 · Real short-term interest rate	0.69	-0.04	44	2020
Real discount / bank rate				
2.3.02 · Cost of capital	5.04	5.53	43	2021
Cost of capital encourages business development				
2.3.03 · Interest rate spread	2.81	3.53	32	2020

Lending rate minus deposit rate

Index (64) of the county rate range, Fach, Hody, and 34P Cornel that polely has a potter separate region of the conney 13305 - Cornel that polely has a potter separate region of the conney 13305 - Cornel that polely has a potter separate region 13305 - Cornel that polely has a potter separate region 13305 - Cornel that polely has a potter separate region 13305 - Cornel that polely has a potter separate region 13305 - Cornel that polely has a potter separate region 13305 - Cornel that polely has a potter separate region 13305 - Cornel that polely has a potter polely 13305 - Cornel that polely and pole of the cornel that for all pole 13305 - Cornel that pole	2.3.04 · Country credit rating	49.0	42.8	25	2020
21.03 Control base (poly has a polotice impact on the economy 173.29 209.20 18 209 23.06 Foreign currency reserves (73.29 209.20 18 209 23.07 Foreign currency reserves per capita (86.46 8.255 5 200 23.08 Exchange rate stability 0.057 0.009 44 200 23.09 Legal and regulatory framework incomages the competitives of enterprises 10 1000 44.89 34 24 24 23.10 Adaptability of government policy 4.12 4.36 33 244 23.11 Transparency 2.86 3.31 34 27 23.12 Burencarrency 2.86 3.31 34 27 23.13 Substantion poly is statificatoy 2.86 3.31 34 27 23.14 Role of law 82.21 71.01 28 27 23.14 Role of law 82.21 71.00 24 27 23.15 Sustanable Ror	Index (0-60) of three country credit ratings: Fitch, Moody's and S&P				2021
23.06 - Foreign currency reserves 173.29 209.20 18 240 US blios 18.644 8.256 5 240 23.07 -Foreign currency reserves per capita 18.644 8.256 5 240 23.08 -Exchange rate stability 0.057 0.069 44 440 23.09 -Exchange rate stability 0.057 0.069 44 450 450 24 26 240 241 436 25 240 241 436 25 240 241 436 23 241 710.10 28 23 211 24.50 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 748 740 74 2		6.47	6.31	36	2021
2.1.00 10 role of the least of		172.20	200.20	10	2020
2.307 - Foreign currency reserves per capita 18.646 8.256 5 100 US3 procept 2.308 Exchange rate stability 0.057 0.089 44 400 2.307 Exchange rate stability 0.057 0.089 44 400 2.307 Exclange rate stability 0.057 0.089 44 400 2.307 Exclange rate stability 0.057 0.089 44 400 2.307 Exclanders framework 0.637 0.489 436 24 436 25 101 7789999797 412 436 33 40 401 2.310 Angatolity of government policy 4.44 37 701 784 701 28 301 743999797 23.12 Bureaurcey des not holder stations activity 23.13 7301 784 700 24 445 446 74.64 56 445 446 74.64 56 445 446 56 446 446 56 446 446 56 446 56 446 56 446 446 446 56		1/3.29	209.20	18	2020
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Initial recision Original domestic) are easily accessible Capital markets (foreign and domestic) are easily accessible 6.27 5.79 28 2021 Investment incentives are attractive to foreign investors 0.99 1.94 13 2019 To private and public companies as a percentage of GDP 70 5.11 5.22 31 2021 2.4.08 Subsidies 5.41 5.22 31 2021 Subsidies do not disort fair competition and economic development 2.4.09 5.18 5.73 44 2021 2.4.09 State ownership of enterprises 5.18 5.77 29 2021 Competition legislation 5.80 5.57 29 2021 Competition legislation is efficient in preventing unfair competition 2.4.10 Competition legislation 2.4.12 2.4.12 2.02 2021 Competition legislation is efficient in preventing unfair conomic development 2.4.12 .4.12 2.01 2.01 2.4.12 New businesse per 1'000 people aged 15-64 2.4.13 .7 1 2021 Creati	Foreign investors are free to acquire control in domestic companies				
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2.1.0 Government subsidies 0.7 1.7 1.3 To private and public companies as a percentage of GDP 2.4.08 Subsidies 5.41 5.22 31 2021 Subsidies do not distort fair competition and economic development 2.4.09 5.18 5.73 44 2021 State ownership of enterprises 5.18 5.73 44 2021 State ownership of enterprises is not a threat to business activities 2.4.10 Competition legislation is efficient in preventing unfair competition 2.4.10 Competition legislation is efficient in preventing unfair competition 3.63 4.67 41 2021 Parallel (black-market, unrecorded) economy does not impair economic development 2.4.12 New business density 3.3 6.0 34 2018 Registered new businesses per 1'000 people aged 15-64 2.4.13 Creation of firms 5.33 6.43 51 2021 Number of days to start a business 11.0 14.9 38 2019 Number of procedures to start a business 3.0 6.0 6 2019 Number of procedures to start a business 3.0 6.0 6 2019	Investment incentives are attractive to foreign investors				
2.4.08 · Subsidies 5.41 5.22 31 2021 Subsidies do not distort fair competition and economic development 2.4.09 · State ownership of enterprises 5.18 5.73 44 2021 State ownership of enterprises is not a threat to business activities 2.4.10 · Competition legislation 5.80 5.57 29 2021 Competition legislation is efficient in preventing unfair competition 3.63 4.67 41 2021 Parallel (black-market, unrecorded) economy does not impair economic development 3.3 6.0 34 2018 Registered new business density 3.3 6.0 34 2018 Creation of firms 5.33 6.43 51 2021 Creation of firms is supported by legislation 2.4.14 · Start-up days 11.0 14.9 38 2019 Number of days to start a business 3.0 6.0 6 2019 Number of procedures to start a business 3.0 6.0 6 2019 Number of procedures to start a business 2.4.16 · Labor regulations 5.76 5.24 27 2021	2.4.07 · Government subsidies	0.99	1.94	13	2019
Subsidies do not distort fair competition and economic development 2.4.09 · State ownership of enterprises 5.18 5.73 44 2021 State ownership of enterprises is not a threat to business activities 2 2.4.10 · Competition legislation 5.80 5.57 29 2021 Competition legislation is efficient in preventing unfair competition 3.63 4.67 41 2021 Competition legislation is efficient in preventing unfair competition 3.63 4.67 41 2021 Parallel economy 3.63 4.67 41 2021 Parallel (black-market, unrecorded) economy does not impair economic development 3.3 6.0 34 2018 Registered new businesses per 1'000 people aged 15-64 2 2 2021 2021 Creation of firms is supported by legislation 2 2.4.13 · Creation of firms is supported by legislation 2 2.019 Number of days to start a business 11.0 14.9 38 2019 Number of procedures 3.0 6.0 6 2019 Number of procedures to start a business 2 2.4.16 · Lab	To private and public companies as a percentage of GDP				
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2.4.0 · State ownership of enterprises5.705.7044State ownership of enterprises is not a threat to business activities2.4.10 · Competition legislation5.805.57292021Competition legislation is efficient in preventing unfair competition3.634.67412021Parallel conomy3.634.67412021Parallel (black-market, unrecorded) economy does not impair economic development3.36.0342018Registered new business density3.36.0342018Registered new businesses per 1'000 people aged 15-642.4.13 · Creation of firms5.336.43512021Creation of firms is supported by legislation2.4.14 · Start-up days11.014.9382019Number of days to start a business3.06.062019Number of procedures to start a business3.06.062019Number of procedures to start a business2.4.16 · Labor regulations5.765.24272021	Subsidies do not distort fair competition and economic development				
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2.4.10 Competition legislation 5.00 5.37 27 Competition legislation is efficient in preventing unfair competition 3.63 4.67 41 2021 Parallel conomy 3.63 4.67 41 2021 Parallel (black-market, unrecorded) economy does not impair economic development 3.3 6.0 34 2018 Registered new businesse per 1'000 people aged 15-64 3.3 6.43 51 2021 Creation of firms 5.33 6.43 51 2021 Creation of firms is supported by legislation 24.14 Start-up days 11.0 14.9 38 2019 Number of days to start a business 3.0 6.0 6 2019 Number of procedures to start a business 3.0 6.0 6 2019 Number of procedures to start a business 2.4.16 Labor regulations 5.76 5.24 27 2021					
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Parallel (black-market, unrecorded) economy does not impair economic development 2.4.12 · New business density 3.3 6.0 34 ²⁰¹⁸ Registered new businesses per 1'000 people aged 15-64	2.4.11 · Parallel economy	3.63	4.67	41	2021
2.4.12 · New business density 3.3 6.0 34 2018 Registered new businesses per 1'000 people aged 15-64					
Registered new businesses per 1'000 people aged 15-64 2.4.13 · Creation of firms 5.33 6.43 51 2021 Creation of firms is supported by legislation 7 <t< td=""><td></td><td>3.3</td><td>6.0</td><td>34</td><td>2018</td></t<>		3.3	6.0	34	2018
2.4.13 · Creation of firms 5.33 6.43 51 2021 Creation of firms is supported by legislation	· · ·				
Creation of firms is supported by legislation2.4.14 · Start-up days11.014.9382019Number of days to start a business3.06.0620192.4.15 · Start-up procedures3.06.062019Number of procedures to start a business3.05.765.24272021		5.33	6.43	51	2021
2.4.14 · Start-up days 11.0 14.9 38 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 3.0 6.0 6 2019 Number of procedures to start a business 3.0 5.76 5.24 27 2021		,			
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 5.76 5.24 27 ²⁰²¹		110	149	38	2019
2.4.15 · Start-up procedures 3.0 6.0 6 ²⁰¹⁹ Number of procedures to start a business 2.4.16 · Labor regulations 5.76 5.24 27 ²⁰²¹					
2.1.15 State up procedures Number of procedures to start a business 2.4.16 Labor regulations 5.76 5.24 27		3.0	6.0	6	2019
2.4.16 Labor regulations 5.76 5.24 27 ²⁰²¹		5.0	0.0	U	
	· · · ·	5 76	5 24	27	2021
		5.7 5			

2.4.17 · Unemployment legislation	4.75	4.86	36	202
Unemployment legislation provides an incentive to look for work				
2.4.18 · Immigration laws	5.33	5.93	46	202
Immigration laws do not prevent your company from employing foreign labor				
2.4.19 · Redundancy costs	23.1	9.5	55	201
Number of weeks of salary				
2.5 · Societal Framework	Value	Average	Rank	Year
2.5.01 · Justice	5.49	5.43	33	202
Justice is fairly administered				
2.5.02 · Homicide	1.49	4.53	38	201
Intentional homicide, rate per 100'000 population				
2.5.03 · Ageing of population	12.1	14.8	20	2020
Population over 65, percentage of total population				
2.5.04 · Risk of political instability	4.94	5.60	38	202
The risk of political instability is very low				
2.5.05 · Social cohesion	5.06	5.28	35	202
Social cohesion is high				
2.5.06 · Gini coefficient	39.00	35.59	46	201
Equal distribution of income scale: 0 (absolute equality) to 100 (absolute inequality)				
2.5.07 · Income distribution - lowest 10%	1.90	2.76		201
Percentage of household incomes going to lowest 10% of households				
2.5.08 · Income distribution - highest 10%	27.80	27.05		201
Percentage of household incomes going to highest 10% of households				
2.5.09 · Income distribution - lowest 40%	15.70	18.77	43	201
Percentile going to the lowest 40% of households				
2.5.09 · Income share held by lowest 60% - growth	-	0.00		
Percentage change of household incomes going to lowest 60% of households				
2.5.10 · Income distribution - lowest 40% growth	-	0.54		
Percentile going to the lowest 40% of households - growth				
2.5.11 · Equal opportunity	6.08	5.93	34	202
Equal opportunity legislation in your economy encourages economic development				
2.5.12 · Females in parliament	27.50	28.00	32	202
Percentage of total seats in Parliament				
2.5.13 · Unemployment rate - gender ratio	0.80	1.26	5	202
Ratio of the female and male unemployement rates				_
2.5.14 Gender inequality	0.109	0.184	28	201
Gender Inequality Index (UNDP)				
2.5.15 · Disposable Income	72.0	71.5	38	202
Female / male ratio				
2.5.16 · Freedom of the Press	30.84	28.29	42	202
Reporters Without Borders: World Press Freedom Score				

Reporters Without Borders: World Press Freedom Score

3 · Business Efficiency

3.1 · Productivity & Efficiency	Value	Average	Rank	Year
3.1.01 · Overall productivity (PPP)	88,353	81,620	26	2019
Estimates: GDP (PPP) per person employed, US\$				
3.1.02 · Overall productivity (PPP) - real growth	1.89	0.53	21	2019
Estimates: Percentage change of GDP (PPP) per person employed				
3.1.03 · Labor productivity (PPP)	46.48	47.29	29	2019
Estimates: GDP (PPP) per person employed per hour, US\$				
3.1.04 · Agricultural productivity (PPP)	171,695	52,322	I	2020
Estimates: Related GDP (PPP) per person employed in agriculture, US\$				
3.1.05 · Productivity in industry (PPP)	130,271	100,324	14	2020
Estimates: Related GDP (PPP) per person employed in industry, US\$,	,		
3.1.06 · Productivity in services (PPP)	88,129	82,232	27	2020
Estimates: Related GDP (PPP) per person employed in services, US\$,	- , -		
3.1.07 · Workforce productivity	5.88	6.06	37	2021
Workforce productivity is competitive by international standards				
3.1.08 · Large corporations	5.84	6.64	50	2021
Large corporations are efficient by international standards				
3.1.09 · Small and medium-size enterprises	6.24	5.99	26	2021
Small and medium-size enterprises are efficient by international standards	0.21	0.77	20	
3.1.10 · Use of digital tools and technologies	6.90	5.96	10	2021
Companies are very good at using digital tools and technologies to improve performance	0.70	5.70	10	
3.2 ·Labor Market	Value	Average	Rank	Year
3.2.01 · Compensation levels	21.99	13.69	48	2020
Total hourly compensation in manufacturing (wages + supplementary benefits), US\$				
3.2.02 · Unit labor costs for total economy	1.37	2.04	21	2019
Percentage change				
3.2.03 · Remuneration in services professions	35,783	27,862	40	2018
Gross annual income including supplements such as bonuses, US\$,	,		
Remuneration in services professions / Call center agent	21,164	18,772		2018
	,			
Remuneration in services professions / Nurse	16,848	18,706		2018
P				
Remuneration in services professions / Primary school	31,001	30,039		2018
	,	,		
Remuneration in services professions / Product Manager	72.985	47,954		2018
G.	, , , , , , , , , , , , , , , , , , , ,			
Remuneration in services professions / Sales Assistant	46,501	29,313		2018
Remuneration in services professions / Secretary / Personal	26,202	22,391		2018
3.2.04 · Remuneration of management	181 516	165,956	39	2019
Total base salary plus bonuses and long-term incentives, US\$,	,		
Remuneration of management / CEO	299 486	299,663		2019
	277,100	277,005		
Remuneration of management / Director manufacturing	175 219	146,459		2019
	173,217	. 10, 107		
Remuneration of management / Engineer	110,420	78,229		2019
	110,120	10,227		
Remuneration of management / Human resources director	140.940	139,473		2019
	. 10,710			

3.2.05 · Remuneration spread

Ratio of CEO to personal assistant remuneration

11.23 17.91 18 ²⁰¹⁸

3.2.06 · Working hours	1,901	1,837	25	2019
Average number of working hours per year	.,	.,		
3.2.07 · Worker motivation	6.20	5.79	24	2021
Worker motivation in companies is high				
3.2.08 · Industrial disputes	35.39	13.05	46	2019
Working days lost per 1,000 inhabitants per year (average 2017-2019)				
3.2.09 · Apprenticeships	5.65	5.08	18	2021
Apprenticeships are sufficiently implemented				
3.2.10 · Employee training	5.61	5.97	40	2021
Employee training is a high priority in companies				
3.2.11 · Labor force	4.09	41.25	43	2020
Employed and registered unemployed (millions)				
3.2.12 · Labor force (%)	44.01	49.90	52	2020
Percentage of population				
3.2.13 · Labor force growth	-0.82	-0.68	43	2020
Percentage change			-	
3.2.14 · Labor force long-term growth	-4.25	-0.53	52	2020
Estimates: % of population, percentage change in 4 years				
3.2.15 · Part-time employment	15.08	13.20	23	2019
Percentage of total employment				
3.2.16 · Female labor force	48.04	43.18	10	2020
Percentage of total labor force				
3.2.17 · Foreign labor force - migrant stock	24.82	17.11	14	2020
Migrant stock, age 20-64, % of population				
3.2.18 · Skilled labor	6.20	5.51	21	2021
Skilled labor is readily available				
3.2.19 · Finance skills	6.20	6.27	38	2021
Finance skills are readily available				
3.2.20 · Attracting and retaining talents	6.16	6.76	48	2021
Attracting and retaining talents is a priority in companies			-	
3.2.21 · Brain drain	3.84	4.78	47	2021
Brain drain (well-educated and skilled people) does not hinder competitiveness in your economy				
3.2.22 · Foreign highly-skilled personnel	5.49	5.28	33	2021
Foreign highly-skilled personnel are attracted to your country's business environment				
3.2.23 · International experience	6.08	5.52	16	2021
International experience of senior managers is generally significant				
3.2.24 · Competent senior managers	6.12	5.51	24	2021
Competent senior managers are readily available				
3.3 · Finance	Value	Average	Rank	Year
3.3.01 · Banking sector assets	115.70	161.34		2019
Percentage of GDP				
3.3.02 · Financial cards in circulation	1.55	3.36	48	2020
Number of cards per capita				
3.3.03 · Financial card transactions	13,729	10,208	20	2020
US\$ per capita		,	•	
3.3.04 · Access to financial services	92.81	82.18	29	2017
Proportion of adults with a bank account or mobile-money-service provider		•=•		
3.3.05 · Access to financial services - gender ratio	1.02	0.96	10	2017
Ratio of the female and male access to a bank account or mobile-money-service provider	1.02	0.70	10	
3.3.06 · Banking and financial services	5.80	6.09	38	2021
Banking and financial services do support business activities efficiently	5.00	0.07		
3.3.07 · Regulatory compliance (banking laws)	6.00	6.77	52	2021
Regulatory compliance is sufficiently developed	0.00	0.77	52	
3.3.08 · Stock markets	5.92	5.62	30	2021
Stock markets provide adequate financing to companies	5.72	5.02	50	
3.3.09 · Stock market capitalization (\$bn)	244.6	1,276.4	33	2020
US\$ billions	277.0	1,270.7	55	
3.3.10 · Stock market capitalization (%)	60.74	101.96	27	2020
Percentage of GDP	50.74	101.70	21	

3.3.11 · Value traded on stock markets	7,568	15,149	21	2019
US\$ per capita				
3.3.12 · Listed domestic companies	414	713	20	2019
Number of listed domestic companies				
3.3.13 · Stock market index	-3.40	-3.62	30	2020
Percentage change on index in national currency				
3.3.14 · Shareholders' rights	6.31	6.70	44	2021
Shareholders' rights are sufficiently implemented				
3.3.15 · Initial Public Offerings	595.I	3,591.6	31	2020
By acquiror nation (average 2018-2020) US\$ millions				
3.3.16 · Credit	6.08	5.95	36	2021
Credit is easily available for business				
3.3.17 · Venture capital	5.73	5.13	24	2021
Venture capital is easily available for business				
3.3.18 · M&A Activity	0.205	1.329	52	2019
Deals per listed company (average 2017-2019)				
3.3.19 · Corporate debt	5.33	5.83	41	2021
Corporate debt does not restrain the ability of enterprises to compete				
3.4 · Management Practices	Value	Average	Rank	Yoor
		-		2021
3.4.01 · Agility of companies	5.76	5.99	43	2021
Companies are agile			50	2021
3.4.02 · Changing market conditions	6.16	6.68	50	2021
Companies are generally extremely aware of changing market conditions				2021
3.4.03 · Opportunities and threats	6.59	6.23	22	2021
Companies are very good at responding quickly to opportunities and threats				
3.4.04 · Credibility of managers	5.96	5.96	37	2021
Credibility of managers in society is strong				
3.4.05 · Corporate boards	6.12	6.03	32	2021
Corporate boards do supervise the management of companies effectively				
3.4.06 · Auditing and accounting practices	6.94	7.15	39	2021
Auditing and accounting practices are adequately implemented in business				
3.4.07 · Use of big data and analytics	6.31	5.10	7	2021
Companies are very good at using big data and analytics to support decision-making				
3.4.08 · Customer satisfaction	6.71	6.91	40	2021
Customer satisfaction is emphasized in companies				
3.4.09 · Entrepreneurship	6.94	5.95	8	2021
Entrepreneurship of managers is widespread in business				
3.4.10 · Social responsibility	5.69	5.84	39	2021
Social responsibility of business leaders is high				
3.4.11 · Women in management	34.54	31.42	24	2017
Female share of senior and middle management (% of management)				
3.4.12 · Women on boards	24.30	21.73	27	2020
Boardmembers of all companies analyzed by MSCI				
3.4.13 · Entrepreneurial fear of failure	55.36	40.12	52	2019
% indicating that fear of failure would prevent them from setting up a business				
3.4.14 · Total early-stage Entrepreneurial Activity	12.69	12.48	23	2019
% who are either a nascent entrepreneur or owner-manager of a new business				
3.5 · Attitudes and Values	Value	Average	Rank	Year
				2021
3.5.01 · Attitudes toward globalization	6.82	6.32	20	
Attitudes toward globalization are generally positive in your society	7 77	(10	10	2021
3.5.02 · Image abroad or branding	7.37	6.18	19	2021
The image abroad of your country encourages business development				2021
3.5.03 · National culture	7.49	6.69	14	2021
The national culture is open to foreign ideas				2021
3.5.04 · Flexibility and adaptability	7.14	6.61	20	2021
Flexibility and adaptability of people are high when faced with new challenges			-	
3.5.05 · Need for economic and social reforms	6.24	5.77	26	2021
The need for economic and social reforms is generally well understood				

The need for economic and social reforms is generally well understood

3.5.06 · Digital transformation in companies	6.55	5.75	18	2021
Digital transformation in companies is generally well implemented				
3.5.07 · Value system	6.86	6.11	19	2021

The value system in your society supports competitiveness

4 · Infrastructure

4.1 · Basic Infrastructure	Value	Average	Rank	Year
4.1.01 · Land area	22	1,462	58	2020
Square kilometers ('000)				
4.1.02 · Arable area	545	2,951	55	2018
Square meters per capita				
4.1.03 · Water resources	90	18,657	60	2017
Total internal renewable per capita in cubic meters				
4.1.04 · Access to water	8.44	7.94	34	202
Access to water is adequately ensured and managed				
4.1.05 · Management of cities	7.04	6.52	25	2021
Management of cities supports business development				
4.1.06 · Population - market size	9.29	82.75	41	2020
Estimates in millions				
4.1.07 · Population - growth	2.73	0.55	2	2020
Percentage change				
4.1.08 · Dependent Population	40.1	33.5		2020
Percentage of total population				
Population over 65 years	[2.]	14.8		2020
· · · · · · · · · · · · · · · · · · ·				
Population under 15 years	28.1	18.8		2020
	20.1	10.0		
4.1.09 · Dependency ratio	67.0	51.1	63	2020
Population under 15 and over 64 years old, divided by active population (15 to 64 years)	07.0	51.1	00	
4.1.10 · Roads	_	1.26		
Density of the network, km roads/square km land area		1.20		
4.1.11 · Railroads	0.072	0.051	П	2019
Density of the network, km per square km	0.072	0.031		
4.1.12 · Air transportation	6,660	67,271	48	2019
Number of passengers carried by main companies, thousands	0,000	07,271	10	
4.1.13 · Quality of air transportation	7.48	7.10	35	202
Quality of air transportation encourages business development	7.10	7.10	55	
4.1.14 · Distribution infrastructure	7.12	7.21	40	202
The distribution infrastructure of goods and services is generally efficient	7.12	7.21	10	
4.1.15 · Energy infrastructure	7.20	7.11	36	202
Energy infrastructure is adequate and efficient	7.20	7.11	50	
4.1.16 · Total indigenous energy production	8.10	185.53	48	2018
Millions MTOE	0.10	105.55	-10	
4.1.17 · Total indigenous energy production (%)	36.3	105.8	46	2018
Percentage of total requirements in tons of oil equivalent	J0.J	105.0	-10	
	15.60	125.76	18	201
4.1.18 · Total final energy consumption Millions MTOE	15.00	125.76	10	
	1.79	2.44	25	2017
4.1.19 · Total final energy consumption per capita	1./7	2.44	25	
MTOE per capita	0.004	0.102	22	2017
4.1.20 · Electricity costs for industrial clients	0.094	0.103	23	2017
US\$ per kwh				
4.2 ·Technological Infrastructure	Value	Average	Rank	Year
4.2.01 · Investment in Telecommunications	0.22	0.45	56	2020
Percentage of GDP				
4.2.02 · Mobile Broadband subscribers	72.9	63.4	25	2019
4G & 5G market, % of mobile market				
4G & 5G market, % of mobile market 4.2.03 · Mobile Telephone costs	11.0	15.3	27	2019

4.2.04 · Communications technology	7.12	7.65	46	2021
Communications technology (voice and data) meets business requirements				
4.2.05 · Computers in use	0.31	1.36	39	2018
Worldwide share/ Source: Computer Industry Almanac				
4.2.06 · Computers per capita	998	719	22	201
Number of computers per 1000 people/ Source: Computer Industry Almanac				
4.2.07 · Internet users	825	793	37	202
Number of internet users per 1000 people				
4.2.08 · Broadband subscribers	407	374	30	201
Number of subscriptions per 1000 inhabitants				
4.2.09 · Internet bandwidth speed	55.1	56.5	34	202
Average speed				
4.2.10 · Digital/Technological skills	7.52	6.88	20	202
Digital/Technological skills are readily available				
4.2.11 · Qualified engineers	7.28	6.55	22	202
Qualified engineers are available in your labor market				
4.2.12 · Public-private partnerships	6.92	5.95	16	202
Public and private sector ventures are supporting technological development				
4.2.13 · Development & application of tech.	6.92	6.35	22	202
Development and application of technology are supported by the legal environment				
4.2.14 · Funding for technological development	6.84	5.84	21	202
Funding for technological development is readily available				
4.2.15 · High-tech exports (\$)	12,565	46,556	28	201
US\$ millions				
4.2.16 · High-tech exports (%)	23.09	17.16	14	201
Percentage of manufactured exports				
4.2.17 · ICT service exports	45.6	9.3	I	201
Percentage of service exports				
4.2.18 · Cyber security	7.92	5.77	2	202

Cyber security is being adequately addressed by corporations

4.3 · Scientific Infrastructure	Value	Average	Rank	Year
4.3.01 · Total expenditure on R&D (\$)	19,474	29,862	15	2019
US\$ millions				
4.3.02 · Total expenditure on R&D (%)	4.93	1.53	1	2019
Percentage of GDP				
4.3.03 · Total expenditure on R&D per capita (\$)	2,152.5	619.4	2	2019
US\$ per capita				
4.3.04 · Business expenditure on R&D (\$)	17,314	22,065	9	2019
US\$ millions				
4.3.05 · Business expenditure on R&D (%)	4.39	1.02	I	2019
Percentage of GDP				
4.3.06 · Total R&D personnel	-	221.6		
Full-time work equivalent (FTE thousands)				
4.3.07 · Total R&D personnel per capita	-	5.01		
Full-time work equivalent (FTE) per 1000 people				
4.3.08 · Total R&D personnel in business enterprise	93.8	174.4	17	2018
Full-time work equivalent (FTE thousands)				
4.3.09 · Total R&D personnel in business per capita	10.57	3.14	I	2018
Full-time work equivalent (FTE) per 1000 people				
4.3.10 · Researchers in R&D per capita	-	3.3		
Full-time work equivalent (FTE) per 1000 people				
4.3.11 · Graduates in Sciences	-	24.82		
% of graduates in ICT, Engineering, Math & Natural Sciences				
4.3.11 · Science degrees	-	0.00		
Percentage of total first university degrees in science and engineering				
4.3.12 · Scientific articles	12,235	38,476	32	2018
Scientific articles published by origin of author				
4.3.13 · Nobel prizes	8	9		2020
Avanded in physics, chemistry, physicles, on medicine and companies since 1950				

Awarded in physics, chemistry, physiology or medicine and economics since 1950

4.3.14 · Nobel prizes per capita	0.86	0.19	6	2020
Awarded in physics, chemistry, physiology or medicine and economics since 1950 per million people	1 4 9 7 9			2010
4.3.15 · Patent applications	16,078	51,785	16	2019
Number of applications filed by applicant's origin	177 70	70.00		2019
4.3.16 · Patent applications per capita	177.72	79.88		2017
Number of applications filed by applicant's origin, per 100,000 inhabitants	7 404	22.070	10	2019
4.3.17 · Patent grants	7,484	23,979	19	2017
Number of patents granted by applicant's origin (average 2017-2019)	786.2	459.4	12	2019
4.3.18 · Number of patents in force	/00.2	459.6	13	
by applicant's origin, per 100,000 inhabitants	39.30	37.97	32	2018
4.3.19 · Medium- and high-tech value added Proportion of total manufacturing value added, expressed as a percentage	37.30	37.77	32	2010
	753	E 04		2021
4.3.20 · Scientific research legislation	7.52	5.84		2021
Laws relating to scientific research do encourage innovation	7 20	45	24	2021
4.3.21 Intellectual property rights	7.28	6.45	24	2021
Intellectual property rights are adequately enforced	714	F 24	7	2021
4.3.22 · Knowledge transfer	7.16	5.36	7	2021
Knowledge transfer is highly developed between companies and universities				
4.4 ·Health and Environment	Value	Average	Rank	Year
4.4.01 · Total health expenditure	7.5	7.4	32	2018
Percentage of GDP				
4.4.02 · Total health expenditure per capita	3,139	2,591	20	2018
US\$ per capita				
4.4.03 · Public expenditure on health (%)	64.70	64.56	34	2018
Percentage of total health expenditure				
4.4.04 · Health infrastructure	7.04	5.98	25	2021
Health infrastructure meets the needs of society				
4.4.05 · Universal health care coverage index	82	77	18	2017
Index (0-100) measuring coverage of essential health services				
4.4.06 · Life expectancy at birth	83.0	78.5	8	2019
Average estimate				
4.4.07 · Healthy life expectancy	73.7	69.6	9	2020
Average estimate				
4.4.08 · Infant mortality	3.7	8.1	21	2019
Under five mortality rate per 1000 live births				
4.4.09 · Medical assistance			37	2020
Number of inhabitants per physician and per nurse				
Medical assistance / Per nurse	201.86	301.56		2020
	201.00	501.50		
Medical assistance / Per physician	308.80	568.09		2020
	500.00	500.07		
4.4.10 · Urban population	93	77		2020
Percentage of total population	,,,			
4.4.11 · Human development index	0.919	0.861	19	2019
Combines economic - social - educational indicators/ Source: Human Development Report	0.717	0.001	17	
4.4.12 · Energy intensity	44	119	5	2017
Total energy consumed for each 1000 US\$ of GDP in MTOE		117	5	
4.4.13 · Safely treated waste water	90.5	71.7	17	2018
Percentage of waste water	70.5	/1./	17	
-	138.97	86.77	10	2018
4.4.14 · Water use efficiency	130.77	00.77	10	
US\$ per cubic meter 4.4.15 · CO2 emissions	59.6	455.9	26	2018
4.4.15 · CO2 emissions Metric tons of carbon dioxide from fuel combustion	57.0	-133.7	20	
	1/0.0	272.1	17	2018
4.4.16 · CO2 emissions intensity	160.9	372.1	16	2010
CO2 emissions from fuel combustion in metric tons per one million US\$ of GDP	10.42	10.72	42	2019
4.4.17 · Exposure to particle pollution	19.42	19.63	43	2017
Mean population exposure to PM2.5, Micrograms per cubic metre	F	14.0		2017
4.4.18 · Renewable energies (%)	2.5	16.0	56	2017
Share of renewables in total energy requirements, %				

		• •		2010
4.4.19 · Forest area growth	-12.8	0.4	62	2018
Five year percentage change of hectares	0.00	2.44	50	2017
4.4.20 · Total biocapacity	0.22	3.44	59	2017
Global hectares per capita of biologically productive space		4.0	41	2017
4.4.21 · Ecological footprint	5.5	4.9	41	2017
Global hectares per person	F 77	1.45	Γ4	2017
4.4.22 · Ecological balance (reserve/deficit)	-5.33	-1.45	54	2017
Total biocapacity minus total footprint in global hectares per capita	0.40	1.57	21	2018
4.4.23 · Environment-related technologies	0.48	1.56	21	2010
Development of environment-related technologies, % inventions worldwide	77 72	82.69	47	2015
4.4.24 · Environmental agreements	76.72	82.67	47	2015
Multilateral agreements on hazardous waste, proportion fulfilled		(10	24	2021
4.4.25 Sustainable development	6.44	6.10	26	2021
Sustainable development is a priority in companies	F 0.4	F 71	21	2021
4.4.26 · Pollution problems	5.84	5.71	31	2021
Pollution problems do not seriously affect your economy	() ((2)	24	2021
4.4.27 · Environmental laws	6.36	6.21	24	2021
Environmental laws and compliance do not hinder the competitiveness of businesses			0.5	2021
4.4.28 · Quality of life	7.64	6.67	25	2021
Quality of life is high				
4.5 · Education	Value	Average	Rank	Year
4.5.01 · Total public expenditure on education	7.1	4.7	3	2018
Percentage of GDP				
4.5.02 · Total public expenditure on education per capita	2,980	1,502	8	2018
US\$ per capita				
4.5.03 · Total public exp. on education per student	9,763	6,873	18	2018
Spending per enrolled pupil/student, all levels				
4.5.04 · Pupil-teacher ratio (primary education)	15.43	16.30	36	2018
Ratio of students to teaching staff				
4.5.05 · Pupil-teacher ratio (secondary education)	10.40	13.64	16	2018
Ratio of students to teaching staff				
4.5.06 · Secondary school enrollment	98.2	92.5	18	2018
Percentage of relevant age group receiving full-time education				
4.5.07 · Higher education achievement	47.0	43.5	27	2019
Percentage of population that has attained at least tertiary education for persons 25-34				
4.5.08 · Women with degrees	55.4	40.I	5	2019
Share of women who have a degree in the population 25-65			-	
4.5.09 · Student mobility inbound	1.28	3.68	47	2014
Foreign tertiary-level students per 1000 inhabitants		5100		
4.5.10 · Student mobility outbound	1.83	2.55	26	2018
National tertiary-level students studying abroad per 1000 inhabitants	1.05	2.55	20	
4.5.11 · Educational assessment - PISA	465	471	37	2018
PISA survey of 15-year olds	105	17.1	57	
Educational assessment - PISA / Mathematics	463	472		2018
	LOL	772		
Educational according	470	468		2018
Educational assessment - PISA / Reading	1/0	00		
Educational assessment - PISA / Sciences	462	472		2018
Educational assessment - PISA / Sciences	462	4/2		2010
		F0 (20	2018
4.5.12 · Students who are not low achievers - PISA	55.9	58.6	39	2010
% of students who are not low achievers in maths, sciences and reading	00	00	22	2019
4.5.13 · English proficiency - TOEFL	90	89	33	2019
TOEFL scores				2021
4.5.14 · Primary and secondary education	6.16	6.01	33	2021
Primary and secondary education meets the needs of a competitive economy			~	0.05
4.5.15 · University education	6.96	6.30	25	2021
University education meets the needs of a competitive economy				
4.5.16 · Management education	6.24	6.32	35	2021

4.5.17 · University education index	8.90	15.03	32	2020
Country score calculated from Times Higher Education university ranking				
4.5.18 · Illiteracy	-	2.6		
Adult (over 15 years) illiteracy rate as a percentage of population				
4.5.19 · Language skills	6.47	6.28	33	2021
Language skills are meeting the needs of enterprises				

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