

IMD World Competitiveness Yearbook 2023

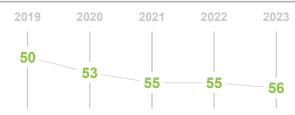
COUNTRY PROFILE

MEXICO



Competitiveness Trends - Overall

OVERALL PERFORMANCE (64 countries)



CHALLENGES IN 2023

- Implement logistics infrastructure to take advantage of nearshoring in Mexico.
- Improve the business environment, less uncertainty and better justice, security, and democracy framework.
- Promote a higher GDP growth (3 to 4%) by promoting internal market growth through innovation: "Mexican Markets for Mexican Products".
- Improve the relationship with relevant economies in the world.
- Promote structural reforms for better education and clean energy.

PROVIDED BY: Center for Strategic Studies for Competitiveness

BASIC FACTS Rank

Capital	Mexico City	
Land area (square km '000)	1.964 ²⁰²²	
Exchange rate (per \$)	20,127 ²⁰²²	
Population - market size (millions)	128,86 ²⁰²²	06
Gross Domestic Product (GDP) (US\$ billions)	1.474,1 ²⁰²²	13
GDP (PPP) per capita (US\$)	22.660 ²⁰²²	51
Real GDP growth (%)	3,5 2022	35
Consumer price inflation (%)	7,90 ²⁰²²	27
Unemployment rate (%)	2,76 ²⁰²²	08
Labor force (millions)	60,15 ²⁰²²	07
Current account balance (% of GDP)	-0,91 ²⁰²²	33
Direct investment stocks inward (\$bn)	578,8 ²⁰²¹	17
Direct investment flows inward (% of GDP)	2,58 ²⁰²¹	36

COMPETITIVENESS LANDSCAPE

Eco	nomi	c Perf	orma	nce	Go	vernn	nent E	fficier	псу	E	Busine	ss Eff	icienc	у		Infr	astruc	ture	
Domestic Economy	International Trade	International Investment	Employment	Prices	Public Finance	Tax Policy	Institutional Framework	Business Legislation	Societal Framework	Productivity & Efficiency	Labor Market	Finance	Management Practices	Attitudes & Values	Basic Infrastructure	Technological Infrastructure	Scientific Infrastructure	Health & Environment	Education
41 (54	27	8	29	44	46	59	61	- 58	47	40	60	_ 53 ~	- 50	60 -	62	48	54	61

PEER GROUPS RANKINGS





Competitiveness Evolution & Attractiveness Indicators

COMPETITIVENESS EVOLUTION

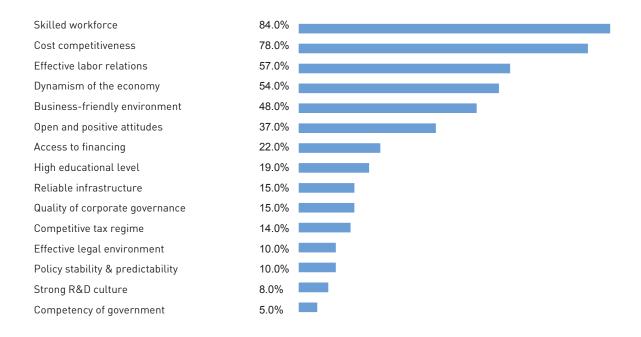
The criteria below highlight the 15 biggest Improvements and the 15 biggest Declines in the overall performance of the economy. They are determined by the largest percentage changes in the value of each criterion from one yearbook to the next.

	2022	2023
IMPROVEMENTS	WCY	WCY
1.4.04 Employment - long-term growth	1,42	4,48
3.2.15 Labor force - long-term growth	1,80	4,18
4.1.07 Population - growth	0,37	0,67
1.2.25 Tourism receipts	0,95	1,59
1.2.12 Exports of commercial services (\$bn)	27,03	36,35
3.2.01 Compensation levels	2,93	2,00
4.5.09 Student mobility inbound	0,26	0,34
2.3.10 Adaptability of government policy	2,11	2,73
2.1.07 Public finances	3,13	4,04
1.1.19 Resilience of the economy	4,48	5,68
2.5.04 Risk of political instability	2,65	3,36
2.3.13 Bribery and corruption	0,98	1,23
4.4.17 Exposure to particle pollution	20,11	15,05
1.4.07 Unemployment rate	3,66	2,76
3.2.23 Foreign highly skilled personnel	4,57	5,66

	2022	2023
DECLINES	WCY	WCY
1.2.02 Current account balance	-0,38	-0,91
1.4.08 Long-term unemployment	0,01	0,01
4.5.17 University education index	1,78	0,62
1.5.01 Consumer price inflation	5,69	7,90
1.1.15 Real GDP growth per capita	4,35	2,81
1.1.14 Real GDP growth	4,8	3,5
2.4.12 New business density	1,0	0,8
2.3.08 Exchange rate stability	0,085	0,100
3.3.10 Stock market capitalization (%)	35,86	29,83
4.1.13 Quality of air transportation	4,99	4,38
4.1.04 Access to water	5,22	4,60
2.1.02 Government budget surplus/deficit (%)	-3,80	-4,25
1.1.09 Gross fixed capital formation (%)	19,8	17,6
4.2.09 Digital/Technological skills	6,06	5,46
4.4.14 Water use efficiency	13,08	11,90

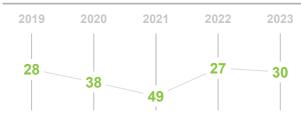
KEY ATTRACTIVENESS INDICATORS

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



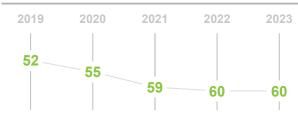
Competitiveness Trends - Factor Breakdown

ECONOMIC PERFORMANCE



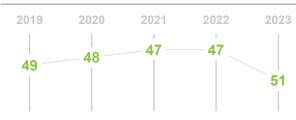
SUB-FACTOR RANKINGS:	2022	2023
Domestic Economy	42	41
International Trade	46	54
International Investment	21	27
Employment	05	08
Prices	35	29

GOVERNMENT EFFICIENCY



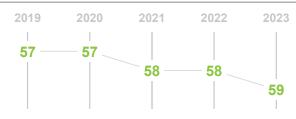
SUB-FACTOR RANKINGS:	2022	2023
Public Finance	42	44
Tax Policy	46	46
Institutional Framework	58	59
Business Legislation	60	61
Societal Framework	57	58

BUSINESS EFFICIENCY



SUB-FACTOR RANKINGS :	2022	2023
Productivity & Efficiency	43	47
Labor Market	38	40
Finance	55	60
Management Practices	49	53
Attitudes & Values	51	50

INFRASTRUCTURE



SUB-FACTOR RANKINGS :	2022	2023
Basic Infrastructure	59	60
Technological Infrastructure	58	62
Scientific Infrastructure	47	48
Health & Environment	55	54
Education	62	61



Balance Sheet - Factor Breakdown

STRENGTHS	Rank	WEAKNESSES	Rank
1.4.08 Long-term unemployment	01	1.2.17 Export concentration by partner	63
1.4.07 Unemployment rate	08	1.2.13 Exports of commercial services (%)	59
1.4.04 Employment - long-term growth	09	1.1.09 Gross fixed capital formation (%)	56
1.3.13 Relocation threats of business	10	1.5.05 Food costs	52
1.1.18 Gross fixed capital formation - real growth	11	1.1.21 GDP (PPP) per capita	51
1.4.09 Youth unemployment	12	1.1.20 GDP per capita	50
1.2.08 Exports of goods (\$bn)	13	1.3.01 Direct investment flows abroad (\$bn)	49
1.3.05 Direct investment flows inward (\$bn)	15	1.4.10 Youth exclusion	47
1.5.02 Cost-of-living index	16	1.3.04 Direct investment stocks abroad (% of GDP)	47
1.3.07 Direct investment stocks inward (\$bn)	17	1.2.24 Terms of trade index	45
GOVERNMENT EFFICIENCY			
STRENGTHS	Rank	WEAKNESSES	Rank
2.4.01 Tariff barriers	08	2.2.09 Employer social security tax rate	64
2.2.10 Employee social security tax rate	10	2.3.14 Rule of law	63
2.3.05 Central bank policy	17	2.4.02 Protectionism	63
2.2.01 Collected total tax revenues	18	2.4.03 Public sector contracts	62
2.2.08 Consumption tax rate	25	2.3.11 Transparency	62
2.4.14 Start-up days	26	2.4.05 Capital markets	62
2.5.13 Unemployment rate - gender ratio	27	2.5.02 Homicide	61
2.2.02 Collected personal income tax	28	2.4.11 Parallel economy	61
2.1.04 Total general government debt (%)	28	2.5.01 Justice	60
2.5.15 Disposable income	37	2.3.13 Bribery and corruption	60
BUSINESS EFFICIENCY STRENGTHS	Rank	WEAKNESSES	Rank
3.2.01 Compensation levels	08	3.3.04 Access to financial services	63
3.1.08 Large corporations	09	3.3.05 Access to financial services - gender ratio	60
3.2.15 Labor force - long-term growth	09	3.2.21 Attracting and retaining talents	60
3.4.11 Women in management	16	3.5.06 Digital transformation in companies	59
3.1.07 Workforce productivity	19	3.3.17 Venture capital	58
3.4.14 Total early-stage Entrepreneurial Activity	21	3.3.01 Banking sector assets	57
3.2.24 International experience	25	3.5.05 Need for economic and social reforms	57
3.2.23 Foreign highly skilled personnel	31	3.2.18 Foreign labor force - migrant stock	57
3.5.01 Attitudes toward globalization	33	3.3.16 Credit	57
		3.3.14 Shareholders' rights	56
INFRASTRUCTURE			
STRENGTHS	Rank	WEAKNESSES	Rank
4.2.03 Mobile telephone costs	14	4.2.16 ICT service exports	62
4.1.20 Electricity costs for industrial clients	19	4.3.20 Scientific research legislation	62
	19	4.2.13 Funding for technological development	62
4.1.09 Dependency ratio		/ E.O.E. Dunil tanahan natio (assandany advention)	61
4.1.09 Dependency ratio 4.3.19 Medium- and high-tech value added	20	4.5.05 Pupil-teacher ratio (secondary education)	
	20	4.1.04 Access to water	
4.3.19 Medium- and high-tech value added 4.4.24 Environmental agreements		·	61
4.3.19 Medium- and high-tech value added	21	4.1.04 Access to water 4.4.26 Pollution problems 4.2.17 Cyber security	61
4.3.19 Medium- and high-tech value added 4.4.24 Environmental agreements 4.2.15 High-tech exports (%)	21 21	4.1.04 Access to water 4.4.26 Pollution problems	61 61
4.3.19 Medium- and high-tech value added 4.4.24 Environmental agreements 4.2.15 High-tech exports (%) 4.3.11 Graduates in Sciences	21 21 25	4.1.04 Access to water 4.4.26 Pollution problems 4.2.17 Cyber security	61 61 61

37

4.2.12 Development & application of tech.

4.4.17 Exposure to particle pollution

Extended Country Profile

1 - ECONOMIC PERFORMANCE

1.1 · Domestic Economy	Value	Average I	Rank Year
1.1.00 · Exchange rate	20,127	190,190	2022
National currency per US\$ (average)			
1.1.01 · Gross Domestic Product (GDP)	1.474,1	1.427,2	13 2022
US\$ billions			
1.1.02 · GDP (PPP)	2.919,9	2.165,1	12 2022
Estimates ; US\$ billions at purchasing power parity			
1.1.03 · World GDP contribution	1,42	1,43	13 2022
Percentage share of world GDP in market prices			
1.1.04 · Household consumption expenditure (\$bn)	851,7	790,7	11 2022
US\$ billions			
1.1.05 · Household consumption expenditure (%)	57,8	52,8	22 2022
Percentage of GDP	454.0	040.4	10
1.1.06 · Government consumption expenditure (\$bn) US\$ billions	151,3	240,4	16 2022
1.1.07 · Government consumption expenditure (%)	10,3	17,9	60 2022
Percentage of GDP	10,3	17,5	00 2022
1.1.08 · Gross fixed capital formation (\$bn)	259,0	380,4	17 2022
US\$ billions	200,0	000, 1	11 2022
1.1.09 · Gross fixed capital formation (%)	17,6	23,2	56 2022
Percentage of GDP	17,0	20,2	00 2022
1.1.10 · Gross domestic savings (\$bn)	471,1	414,2	13 2022
US\$ billions	,.	,_	.0 2022
1.1.11 · Gross domestic savings (%)	32,0	29,4	21 2022
Percentage of GDP			
1.1.12 · Economic sectors			2022
Breakdown of the economic sectors, percentage of GDP			
Economic sectors / Agriculture	5,3	3,6	2022
Economic sectors / Industry	32,2	30,3	2022
Economic sectors / Services	62,4	66,0	2022
1440 5			
1.1.13 · Economic complexity index	1,15	0,78	21 2020
Measures knowledge intensity, by considering exports	2.5		05
1.1.14 · Real GDP growth	3,5	4,2	35 2022
Percentage change, based on national currency in constant prices 1.1.15 · Real GDP growth per capita	2.04	2.24	27
Percentage change, based on national currency in constant prices	2,81	3,31	37 2022
1.1.16 · Household consumption expenditure - real growth	7,10	6,08	21 2021
Percentage change, based on constant prices	7,10	0,00	21 2021
1.1.17 · Government consumption expenditure - real growth	-1,71	1,64	56 2021
Percentage change, based on constant prices	,	,-	
1.1.18 · Gross fixed capital formation - real growth	10,25	4,89	11 2021
Percentage change, based on constant prices	-, -	,	
1.1.19 · Resilience of the economy	5,68	6,02	41 2023
Resilience of the economy to economic cycles is strong			
1.1.20 · GDP per capita	11.440	35.282	50 2022
US\$ per capita			
1.1.21 · GDP (PPP) per capita	22.660	49.086	51 2022
Estimates; US\$ per capita at purchasing power parity			
1.1.22 · Forecast: Real GDP growth	2,5	2,1	26 2023
Percentage change, based on national currency in constant prices			
1.1.23 · Forecast: Inflation	4,9	10,3	29 2023
Percentage change			
1.1.24 · Forecast: Unemployment	4,3	6,2	25 2023
Percentage of total labor force			
1.1.25 · Forecast: Current account balance	-0,8	1,6	39 2023
Percentage of GDP			

1.2 · International Trade	Value .	Average	Rank Year
1.2.01 · Current account balance (\$bn)	-13,4	2,8	46 2022
US\$ billions (minus sign = deficit)	-13,4	2,0	40 2022
1.2.02 · Current account balance	-0,91	1,56	33 2022
Percentage of GDP	0,01	1,00	00 2022
1.2.03 · Balance of trade (\$bn)	-48,1	-11,6	55 2022
US\$ billions (minus sign = deficit)		,-	
1.2.04 · Balance of trade (%)	-3,27	-0,40	34 2022
Percentage of GDP			
1.2.05 · Balance of commercial services (\$bn)	-11,83	9,12	51 2022
US\$ billions (minus sign = deficit)			
1.2.06 · Balance of commercial services (%)	-0,80	2,26	40 2022
Percentage of GDP			
1.2.07 · World exports contribution	1,92	1,42	15 2022
Percentage share of world exports (goods and commercial services)			
1.2.08 · Exports of goods (\$bn)	578,19	353,20	13 2022
US\$ billions			
1.2.09 · Exports of goods (%)	39,22	45,61	29 2022
Percentage of GDP			
1.2.10 ⋅ Exports of goods per capita	4.487	17.009	48 2022
US\$ per capita			
1.2.11 · Exports of goods - growth	16,86	16,08	23 2022
Percentage change, based on US\$ values			
1.2.12 · Exports of commercial services (\$bn)	36,35	102,23	36 2022
US\$ billions			
1.2.13 · Exports of commercial services (%)	2,47	17,06	59 2022
Percentage of GDP	04.71	00.05	47
1.2.14 · Exports of commercial services - growth	34,74	29,25	17 2022
Percentage change, based on US\$ values	614.54	452.06	15 0000
1.2.15 · Exports of goods & commercial services	614,54	453,06	15 2022
US\$ billions 1.2.16 · Exports breakdown by economic sector			2004
Percentage of total exports			2021
Exports breakdown by economic sector / Agriculture	9,0	11,1	2021
Exports breakdown by economic sector / Agriculture	3,0	11,1	2021
Exports breakdown by economic sector / Industry	85,9	65,5	2021
Experte at earlier and a content of the content of	33,3	00,0	202.
Exports breakdown by economic sector / Services	5,2	23,5	2021
1	-,	-,-	
1.2.17 · Export concentration by partner	89,7	55,9	63 2021
Exports to top 5 countries, percentage of total exports			
1.2.18 · Export concentration by product	57,0	56,0	37 2021
Top 5 products, percentage of total exports			
1.2.19 · Imports of goods & commercial services (\$bn)	674,5	456,7	50 2022
US\$ billions			
1.2.20 · Imports of goods & commercial services [%]	45,8	60,7	28 2022
Percentage of GDP			
1.2.21 · Imports of goods & commerc. services growth	20,24	17,04	42 2022
Percentage change, based on US\$ values			
1.2.22 · Imports breakdown by economic sector			2021
Percentage of total imports			
Imports breakdown by economic sector / Agriculture	6,9	8,4	2021
Imports breakdown by economic sector / Industry	86,3	68,8	2021
Imports breakdown by economic sector / Services	6,9	22,9	2021
1.2.23 · Trade to GDP ratio	83,73	112,21	36 2021
(Exports + Imports) / GDP	55,75	,	00 2021
1.2.24 · Terms of trade index	96,8	105,6	45 2021
Unit value of exports over unit value of imports	30,0	.00,0	.0 2021
1.2.25 · Tourism receipts	1,59	1,92	20 2021
International tourism receipts as a percentage of GDP	1,00	.,02	_0 2021

1.3 - International Investment	Value A	Value Average Rank	
1.3.01 · Direct investment flows abroad (\$bn) US\$ billions	0,33	31,16	49 2021
1.3.02 · Direct investment flows abroad (% of GDP) Percentage of GDP	0,03	-0,89	54 2021
1.3.03 · Direct investment stocks abroad (\$bn) US\$ billions	185,3	642,4	29 2021
1.3.04 · Direct investment stocks abroad (% of GDP) Percentage of GDP	14,33	98,21	47 2021
1.3.05 · Direct investment flows inward (\$bn) US\$ billions	33,35	27,77	15 2021
1.3.06 · Direct investment flows inward (% of GDP) Percentage of GDP	2,58	-1,62	36 2021
1.3.07 · Direct investment stocks inward (\$bn) US\$ billions	578,8	665,5	17 2021
1.3.08 · Direct investment stocks inward (% of GDP) Percentage of GDP	44,76	109,33	33 2021
1.3.09 · Balance of direct investment flows (\$bn) US\$ billions (flows abroad minus flows inward)	-33,02	3,39	59 2021
1.3.10 · Balance of direct investment flows [%] Percentage of GDP (flows abroad minus flows inward)	-2,55	0,73	52 2021
1.3.11 · Net position in direct investment stocks (\$bn) US\$ billions (stocks abroad minus stocks inward)	-393,5	-23,1	61 2021
1.3.12 · Net position in direct investment stocks [%] Percentage of GDP (stocks abroad minus stocks inward)	-30,43	-11,12	46 2021
1.3.13 · Relocation threats of business Relocation of business is not a threat to the future of your economy	6,28	5,34	10 2023
1.3.14 · Portfolio investment assets US\$ billions	22,66	53,00	23 2021
1.3.15 · Portfolio investment liabilities US\$ billions	-18,92	48,31	59 2021

1.4 · Employment	Value	Average I	Rank Year
1.4.01 · Employment	58,35	38,14	7 2022
Total employment in millions			
1.4.02 · Employment (%)	45,28	48,17	44 2022
Percentage of population			
1.4.03 · Employment - growth	3,07	2,79	27 2022
Estimates: percentage change			
1.4.04 · Employment - long-term growth	4,48	0,31	9 2022
Estimates: five year percentage change			
1.4.05 · Employment by sector			2022
Percentage of total employment			
Employment by sector / Agriculture	11,8	7,4	2022
Employment by sector / Industry	25,0	23,3	2022
Employment by sector / Services	63,1	69,3	2022
1.4.06 · Employment in the public sector	12,88	17,74	19 2020
Percentage of total employment			
1.4.07 · Unemployment rate	2,76	6,33	8 2022
Percentage of labor force			
1.4.08 · Long-term unemployment	0,01	2,17	1 2022
Percentage of labor force			
1.4.09 · Youth unemployment	7,88	15,54	12 2021
Percentage of youth labor force (under the age of 25)			
1.4.10 · Youth exclusion	18,4	14,1	47 2021
Share of youth population (15-24) not in education, employment or training			
1.5 · Prices	Value	Average I	Rank Year
1.5.01 · Consumer price inflation Average annual rate	7,90	13,63	27 2022
1.5.02 · Cost-of-living index	64,62	73,99	16 2022
Index of a basket of goods & services in the main city, including housing (New York City = 100)	04,02	10,00	10 2022
1.5.03 · Apartment rent	1.110	1.530	23 2018
3-room apartment monthly rent in major cities, US\$	1.110	1.550	20 2010
1.5.04 · Office rent	582	654	37 2021
Total occupation cost in the main city (US\$/Sq.M. per year)	302	007	0, 2021
1.5.05 · Food costs	26,16	17,54	52 2022
Percentage of household final consumption expenditures	20,10	17,04	UL 2022
1.5.06 · Gasoline prices	1,01	1,25	20 2018
Premium unleaded gasoline (95 Ron) US\$ per litre	1,01	1,20	20 2010
- 1 ormani antodasa gassinio (10 ttori) osq per titro			

Extended Country Profile

2 · GOVERNMENT EFFICIENCY

2.1 · Public Finance	Value	Average	Rank Year
2.1.01 · Government budget surplus/deficit (\$bn)	-62,65	-73,19	52 2022
US\$ billions			
2.1.02 · Government budget surplus/deficit (%)	-4,25	-2,54	41 2022
Percentage of GDP			
2.1.03 · Total general government debt (\$bn)	814,30	1.367,78	51 2022
US\$ billions	55.04	05.40	00
2.1.04 · Total general government debt (%)	55,24	65,12	28 2022
Percentage of GDP 2.1.05 Total government debt, real growth	0.24	1 24	43 2022
2.1.05 · Total general government debt-real growth	0,31	-1,34	43 2022
Percentage change, based on national currency in constant prices 2.1.06 · Interest payment [%]	9,57	5,91	48 2022
Percentage of current revenue	9,57	3,91	40 2022
2.1.07 · Public finances	4,04	4,92	44 2023
Public finances are being efficiently managed	7,07	7,32	
2.1.08 · Tax evasion	3,80	5,15	51 2023
Tax evasion is not a threat to your economy	0,00	0,10	01 2020
2.1.09 · Pension funding	3,20	4,78	56 2023
Pension funding is adequately addressed for the future	-, -	, -	
2.1.10 · General government expenditure	25,5	36,1	20 2022
Percentage of GDP	,	,	
2.2 · Tax Policy 2.2.01 · Collected total tax revenues	16,70	Average 27,21	18 2021
Percentage of GDP			
2.2.02 · Collected personal income tax	3,58	6,04	28 2021
On profits, income and capital gains, as a percentage of GDP			
2.2.03 · Collected corporate taxes	3,43	3,29	39 2021
On profits, income and capital gains, as a percentage of GDP 2.2.04 · Collected indirect tax revenues	6.00	0.26	17 0004
Taxes on goods and services as a percentage of GDP	6,23	9,36	17 2021
2.2.05 · Collected capital and property taxes	0,30	1,49	14 2021
Percentage of GDP	0,50	1,43	14 2021
2.2.06 · Collected social security contribution	2,34	6,84	19 2021
Compulsory contribution of employees and employers as a percentage of GDP	2,01	0,01	10 2021
2.2.07 · Corporate tax rate on profit	30,00	22,23	56 2021
Maximum tax rate, calculated on profit before tax	,	,	
2.2.08 · Consumption tax rate	16,00	16,11	25 2022
Standard rate of VAT/GST			
2.2.09 · Employer social security tax rate	51,2	15,9	64 2021
%			
2.2.10 · Employee social security tax rate		10,4	10 2021
	2,8	10, 1	.0 202.
%	2,8		
$\frac{\%}{2.2.11 \cdot \text{Real personal taxes}}$	4,32	5,25	50 2023

2.3 · Institutional Framework	Value	Average I	Rank Year
2.3.01 · Real short-term interest rate	2,41	-4,33	60 2022
Real discount / bank rate			
2.3.02 · Cost of capital	3,76	5,26	59 2023
Cost of capital encourages business development			
2.3.03 · Interest rate spread	5,61	3,64	56 2022
Lending rate minus deposit rate			
2.3.04 · Country credit rating	35,7	43,3	48 2022
Index (0-60) of three country credit ratings: Fitch, Moody's and S&P			
2.3.05 · Central bank policy	6,94	6,11	17 2023
Central bank policy has a positive impact on the economy			
2.3.06 · Foreign currency reserves	201,12	202,22	16 2022
US\$ billions			
2.3.07 · Foreign currency reserves per capita	1.561	8.240	50 2022
US\$ per capita			
2.3.08 · Exchange rate stability	0,100	0,067	57 2022
Parity change from national currency to SDR, 2022 / 2020			
2.3.09 · Legal and regulatory framework	3,82	5,34	56 2023
The legal and regulatory framework encourages the competitiveness of enterprises			
2.3.10 · Adaptability of government policy	2,73	4,79	60 2023
Adaptability of government policy to changes in the economy is high			
2.3.11 · Transparency	1,74	4,85	62 2023
Transparency of government policy is satisfactory			
2.3.12 · Bureaucracy	1,96	3,78	57 2023
Bureaucracy does not hinder business activity			
2.3.13 · Bribery and corruption	1,23	4,83	60 2023
Bribery and corruption do not exist			
2.3.14 · Rule of law	23,08	71,84	63 2021
Rule of Law Index			
2.3.15 · Sustainable Development Goals	70,2	74,9	48 2022
Country performance on the 17 SDGs			
2.3.16 · Democracy Index	5,25	6,98	54 2022
EIU Overall Democracy Index, © The Economist Intelligence Unit Limited 2022			

2.4 · Business Legislation	Value A	verage I	Rank Year
2.4.01 · Tariff barriers	1,21	2,33	8 2018
Tariffs on imports: Applied weighted mean tariff rate for all products			
2.4.02 · Protectionism	3,05	5,77	63 2023
Protectionism of your government does not impair the conduct of your business			
2.4.03 · Public sector contracts	3,19	6,03	62 2023
Public sector contracts are sufficiently open to foreign bidders			
2.4.04 · Foreign investors	5,58	6,82	54 2023
Foreign investors are free to acquire control in domestic companies			
2.4.05 · Capital markets	4,68	6,55	62 2023
Capital markets (foreign and domestic) are easily accessible			
2.4.06 · Investment incentives	4,31	5,92	58 2023
Investment incentives are attractive to foreign investors			
2.4.07 · Government subsidies	2,24	1,73	44 2022
To private and public companies as a percentage of GDP			
2.4.08 · Subsidies	3,72	5,54	59 2023
Subsidies do not distort fair competition and economic development			
2.4.09 · State ownership of enterprises	3,94	6,02	60 2023
State ownership of enterprises is not a threat to business activities			
2.4.10 · Competition legislation	4,44	5,90	60 2023
Competition legislation is efficient in preventing unfair competition			
2.4.11 · Parallel economy	2,22	5,19	61 2023
Parallel (black-market, unrecorded) economy does not impair economic development			
2.4.12 · New business density	0,8	5,8	53 2020
Registered new businesses per 1'000 people aged 15-64			
2.4.13 · Creation of firms	4,68	6,67	59 2023
Creation of firms is supported by legislation			
2.4.14 · Start-up days	8,0	15,1	26 2019
Number of days to start a business			
2.4.15 · Start-up procedures	8,0	6,0	49 2019
Number of procedures to start a business			
2.4.16 · Labor regulations	4,52	5,58	53 2023
Labor regulations (hiring/firing practices, minimum wages, etc.) do not hinder business activities			
2.4.17 · Unemployment legislation	4,40	5,05	44 2023
Unemployment legislation provides an incentive to look for work			
2.4.18 · Immigration laws	5,01	5,84	50 2023
Immigration laws do not prevent your company from employing foreign labor			
2.4.19 · Redundancy costs	22,0	9,5	54 2019
Number of weeks of salary			

2.5 · Societal Framework	Value A	Average I	Rank Year
2.5.01 · Justice	2,58	5,84	60 2023
Justice is fairly administered			
2.5.02 · Homicide	28,37	4,28	61 2020
Intentional homicide, rate per 100'000 population			
2.5.03 · Ageing of population	7,8	14,9	14 2022
Population over 65, percentage of total population			
2.5.04 · Risk of political instability	3,36	5,90	54 2023
The risk of political instability is very low			
2.5.05 · Social cohesion	3,27	5,64	58 2023
Social cohesion is high			
2.5.06 · Gini coefficient	45,40	35,19	56 2021
Equal distribution of income scale: 0 (absolute equality) to 100 (absolute inequality)			
2.5.07 · Income distribution - lowest 10%	1,80	2,82	2020
Percentage of household incomes going to lowest 10% of households			
2.5.08 · Income distribution - highest 10%	35,50	26,42	2020
Percentage of household incomes going to highest 10% of households			
2.5.09 · Income distribution - lowest 40%	14,30	19,36	48 2020
Percentile going to the lowest 40% of households			
2.5.10 · Income distribution - lowest 40% growth	-	0,16	
Percentile going to the lowest 40% of households - growth			
2.5.11 · Equal opportunity	4,58	6,20	57 2023
Equal opportunity legislation in your economy encourages economic development			
2.5.12 · Females in parliament	50,00	29,30	2 2022
Percentage of total seats in Parliament			
2.5.13 · Unemployment rate - gender ratio	1,04	1,31	27 2022
Ratio of the female and male unemployement rates			
2.5.14 · Gender inequality	0,309	0,174	52 2021
Gender Inequality Index (UNDP)			
2.5.15 · Disposable income	71,8	70,8	37 2022
Female / male ratio			
2.5.16 · Freedom of the press	47,98	65,94	50 2023
Reporters Without Borders: World Press Freedom Score	,	•	
2.5.17 · Inequality in life expectancy	0,70	0,84	57 2021
Index	2,1.2	-,	

Extended Country Profile

3 · BUSINESS EFFICIENCY

3.1 · Productivity & Efficiency	Value Average Ran		Rank Year
3.1.01 · Overall productivity (PPP)	47.948	91.004	53 2022
Estimates: GDP (PPP) per person employed, US\$			
3.1.02 · Overall productivity (PPP) - real growth	-0,69	1,44	54 2022
Estimates: Percentage change of GDP (PPP) per person employed			
3.1.03 · Labor productivity [PPP]	29,17	51,68	50 2022
Estimates: GDP (PPP) per person employed per hour, US\$			
3.1.04 · Agricultural productivity (PPP)	22.513	60.869	49 2022
Estimates: Related GDP (PPP) per person employed in agriculture, US\$			
3.1.05 · Productivity in industry (PPP)	64.400	118.637	52 2022
Estimates: Related GDP (PPP) per person employed in industry, US\$			
3.1.06 · Productivity in services (PPP)	49.512	91.074	52 2022
Estimates: Related GDP (PPP) per person employed in services, US\$			
3.1.07 · Workforce productivity	6,88	6,10	19 2023
Workforce productivity is competitive by international standards			
3.1.08 · Large corporations	7,90	6,75	9 2023
Large corporations are efficient by international standards			
3.1.09 · Small and medium-size enterprises	5,38	6,11	44 2023
Small and medium-size enterprises are efficient by international standards			
3.1.10 · Use of digital tools and technologies	5,38	6,28	55 2023
Companies are very good at using digital tools and technologies to improve performance			

3.2 · Labor Market	Value	Average	Rank Year
3.2.01 · Compensation levels	2,00	14,46	8 2022
Total hourly compensation in manufacturing (wages + supplementary benefits), US\$ 3.2.02 · Unit labor costs for total economy	0,26	1,59	20 2019
Percentage change 3.2.03 · Remuneration in services professions	7.429	28.619	4 2018
Gross annual income including supplements such as bonuses, US\$			
Remuneration in services professions / Call center agent	3.939	19.099	2018
Remuneration in services professions / Nurse	8.571	30.277	2018
Remuneration in services professions / Primary school	6.097	30.970	2018
Remuneration in services professions / Product Manager	13.093	49.302	2018
Remuneration in services professions / Sales Assistant	3.915	19.165	2018
Remuneration in services professions / Secretary / Personal	8.956	22.903	2018
3.2.04 · Statutory minimum wage Statutory gross monthly minimum wage	-	952,70	
3.2.05 · Remuneration of management	200.980	167.160	41 2019
Total base salary plus bonuses and long-term incentives, US\$	200.000		20.0
Remuneration of management / CEO	347.888	301.424	2019
Remuneration of management / Director manufacturing	210.828	147.725	2019
Remuneration of management / Engineer	65.834	79.053	2019
Remuneration of management / Human resources director	179.370	140.438	2019
3.2.06 · Remuneration spread	38,38	17,78	56 2018
Ratio of CEO to personal assistant remuneration 3.2.07 · Working hours	1.644	1.867	46 2022
Average number of working hours per year			
3.2.08 · Worker motivation Worker motivation in companies is high	5,78	5,95	35 2023
3.2.09 · Industrial disputes	0,00	12,00	12 2020
Working days lost per 1,000 inhabitants per year (average 2019-2021) 3.2.10 · Apprenticeships	4,98	5,29	37 2023
Apprenticeships are sufficiently implemented			
3.2.11 · Employee training Employee training is a high priority in companies	5,18	6,11	51 2023
3.2.12 · Labor force Employed and registered unemployed (millions)	60,15	40,36	7 2022
3.2.13 · Labor force (%)	46,68	50,73	48 2022
Percentage of population			
3.2.14 · Labor force growth Percentage change	2,36	1,94	23 2022
3.2.15 · Labor force - long-term growth Estimates: five year percentage change	4,18	-0,21	9 2022
3.2.16 · Part-time employment	17,92	14,52	17 2021
Percentage of total employment 3.2.17 · Female labor force	39,33	42,98	52 2022
Percentage of total labor force 3.2.18 · Foreign labor force - migrant stock	0,56	17,76	57 2020
Migrant stock, age 20-64, % of population 3.2.19 · Skilled labor	5,18	5,29	35 2023
Skilled labor is readily available 3.2.20 · Finance skills	5,38	6,15	52 2023
Finance skills are readily available 3.2.21 · Attracting and retaining talents	5,60	6,94	60 2023
Attracting and retaining talents is a priority in companies			
3.2.22 · Brain drain Brain drain (well-educated and skilled people) does not hinder competitiveness in your economy	4,04	4,88	42 2023
3.2.23 · Foreign highly skilled personnel Foreign highly-skilled personnel are attracted to your country's business environment	5,66	5,39	31 2023
3.2.24 · International experience International experience of senior managers is generally significant	5,92	5,74	25 2023
3.2.25 · Competent senior managers	5,12	5,53	41 2023

3.3 · Finance	Value	Average I	Rank Year
.3.01 · Banking sector assets Percentage of GDP	58,41	157,21	57 2021
3.3.02 · Financial cards in circulation	2,30	3,52	32 2022
Number of cards per capita 3.3.03 · Financial card transactions	3.251	11.423	49 2022
US\$ per capita	0.20	20	.0 2022
.3.04 · Access to financial services Proportion of adults with a bank account or mobile-money-service provider	36,93	88,03	63 2017
3.3.05 · Access to financial services – gender ratio	0,81	0,96	60 2017
Ratio of the female and male access to a bank account or mobile-money-service provider 3.3.06 · Banking and financial services	5,18	6,22	52 2023
Banking and financial services do support business activities efficiently 3.3.07 · Regulatory compliance (banking laws)	6,12	6,95	53 2023
Regulatory compliance is sufficiently developed			
3.3.08 · Stock markets	4,74	5,78	50 2023
Stock markets provide adequate financing to companies 3.3.09 · Stock market capitalization (\$bn)	439,7	1.220,9	26 2022
US\$ billions			
3.3.10 · Stock market capitalization (%) Percentage of GDP	29,83	87,80	42 2022
3.3.11 · Value traded on stock markets	1.020	28.493	39 2021
US\$ per capita			
3.3.12 · Listed domestic companies Number of listed domestic companies	138	724	39 2021
3.3.13 · Stock market index	1,50	4,18	31 2022
Percentage change on index in national currency 3.3.14 · Shareholders' rights	5,80	6,88	56 2023
Shareholders' rights are sufficiently implemented	5,80	0,00	JU 2023
3.3.15 · Initial Public Offerings	332,9	4.094,9	35 2022
By acquiror nation (average 2020-2022) US\$ millions 3.3.16 · Credit	4,44	5,91	57 2023
Credit is easily available for business			
3.3.17 · Venture capital Venture capital is easily available for business	3,60	5,24	58 2023
3.3.18 · M&A Activity Deals per listed company (average 2019-2021)	0,458	1,267	33 2021
3.3.19 · Corporate debt	5,24	5,74	44 2023
Corporate debt does not restrain the ability of enterprises to compete			
3.4 · Management Practices	Value	Average I	Rank Year
3.4.01 · Agility of companies	5,62	6,15	48 2023
Companies are agile			
3.4.02 · Changing market conditions	6,16	6,71	50 2023
Companies are generally extremely aware of changing market conditions 3.4.03 · Opportunities and threats	5,64	6,30	53 2023
Companies are very good at responding quickly to opportunities and threats		-,	
3.4.04 · Credibility of managers	6,12	6,18	35 2023
Credibility of managers in society is strong 3.4.05 · Corporate boards	5,94	6,17	41 2023
Corporate boards do supervise the management of companies effectively 3.4.06 · Auditing and accounting practices	6,28	7,21	55 2023
Auditing and accounting practices are adequately implemented in business	0,20	7,2.	00 2020
3.4.07 · Use of big data and analytics Companies are very good at using big data and analytics to support decision-making	4,38	5,39	54 2023
3.4.08 · Customer satisfaction	6,48	6,95	48 2023
Customer satisfaction is emphasized in companies 3.4.09 · Entrepreneurship	5,44	6,11	53 2023
Entrepreneurship of managers is widespread in business	·		
3.4.10 · Social responsibility Social responsibility of business leaders is high	5,26	6,21	53 2023
3.4.11 · Women in management	37,50	33,44	16 2021
Female share of senior and middle management (% of management) 3.4.12 · Women on boards	11,50	25,52	52 2022
			•
Boardmembers of all companies analyzed by MSCI			
Boardmembers of all companies analyzed by MSCI 3.4.13 · Entrepreneurial fear of failure % indicating that fear of failure would prevent them from setting up a business	47,74	42,91	34 2019

3.5 · Attitudes & Values		Value Average Rank Year			
3.5.01 · Attitudes toward globalization	6,54	6,47	33 2023		
Attitudes toward globalization are generally positive in your society					
3.5.02 · Image abroad or branding	5,12	6,45	52 2023		
The image abroad of your country encourages business development					
3.5.03 · National culture	6,38	6,88	45 2023		
The national culture is open to foreign ideas					
3.5.04 · Flexibility and adaptability	6,20	6,73	49 2023		
Flexibility and adaptability of people are high when faced with new challenges					
3.5.05 · Need for economic and social reforms	4,53	5,88	57 2023		
The need for economic and social reforms is generally well understood					
3.5.06 · Digital transformation in companies	4,82	5,99	59 2023		
Digital transformation in companies is generally well implemented					
3.5.07 · Value system	5,32	6,23	49 2023		
The value system in your society supports competitiveness					

Extended Country Profile

4 · INFRASTRUCTURE

4.1 · Basic Infrastructure	Value	Average I	Rank Year
4.1.01 · Land area	1.964	1.189	10 2022
Square kilometers ('000)			
4.1.02 · Arable area	1.793	2.650	30 2020
Square meters per capita			
4.1.03 · Water resources	3.172	17.827	32 2020
Total internal renewable per capita in cubic meters			
4.1.04 · Access to water	4,60	7,72	61 2023
Access to water is adequately ensured and managed			
4.1.05 · Management of cities	4,88	6,50	58 2023
Management of cities supports business development			
4.1.06 · Population - market size	128,86	81,65	6 2022
Estimates in millions			
4.1.07 · Population - growth	0,67	0,84	35 2022
Percentage change			
4.1.08 · Dependent Population	32,1	33,5	2022
Percentage of total population			
Population over 65 years	7,8	14,9	2022
Population under 15 years	24,3	18,6	2022
4.1.09 · Dependency ratio	47,4	51,1	19 2022
Population under 15 and over 64 years old, divided by active population (15 to 64 years)			
4.1.10 · Roads	0,39	1,42	37 2019
Density of the network, km roads/square km land area			
4.1.11 · Railroads	0,014	0,049	39 2021
Density of the network, km per square km			
4.1.12 · Air transportation	54.218	33.022	7 2021
Number of passengers carried by main companies, thousands			
4.1.13 · Quality of air transportation	4,38	6,89	60 2023
Quality of air transportation encourages business development			
4.1.14 · Distribution infrastructure	5,18	7,09	57 2023
The distribution infrastructure of goods and services is generally efficient			
4.1.15 · Energy infrastructure	4,22	6,77	60 2023
Energy infrastructure is adequate and efficient			
4.1.16 · Total indigenous energy production	148,06	164,21	15 2020
Millions MTOE			
4.1.17 · Total indigenous energy production [%]	83,7	106,9	22 2020
Percentage of total requirements in tons of oil equivalent			
4.1.18 · Total final energy consumption	96,38	116,68	49 2020
Millions MTOE			
4.1.19 · Total final energy consumption per capita	0,76	2,37	9 2020
MTOE per capita			
MIOL per capita			
4.1.20 · Electricity costs for industrial clients	0,090	0,108	19 2018

4.2 · Technological Infrastructure	Value	Average I	Rank Year
4.2.01 · Investment in Telecommunications	0,39	0,37	27 2022
Percentage of GDP			
4.2.02 · Mobile broadband subscribers	66,7	77,8	48 2021
4G & 5G market, % of mobile market			
4.2.03 · Mobile telephone costs	6,6	15,5	14 2021
Monthly Blended Average Revenue per User			
4.2.04 · Communications technology	5,98	7,69	59 2023
Communications technology (voice and data) meets business requirements			
4.2.05 · Secure internet servers	323	35.542	58 2020
publicly-trusted TLS/SSL certificates, Netcraft Secure Server Survey.			
4.2.06 · Internet users	685	844	55 2021
Number of internet users per 1000 people			
4.2.07 · Broadband subscribers	236	384	49 2021
Number of subscriptions per 1000 inhabitants			
4.2.08 · Internet bandwidth speed	40,4	90,4	55 2022
Average speed			
4.2.09 · Digital/Technological skills	5,46	6,81	61 2023
Digital/Technological skills are readily available			
4.2.10 · Qualified engineers	6,32	6,33	37 2023
Qualified engineers are available in your labor market			
4.2.11 · Public-private partnerships	4,82	5,97	55 2023
Public and private sector ventures are supporting technological development			
4.2.12 · Development & application of tech.	4,67	6,52	60 2023
Development and application of technology are supported by the legal environment			
4.2.13 · Funding for technological development	3,16	5,98	62 2023
Funding for technological development is readily available			
4.2.14 · High-tech exports (\$)	74.932	54.836	12 2021
US\$ millions			
4.2.15 · High-tech exports (%)	19,80	17,51	21 2021
Percentage of manufactured exports			
4.2.16 · ICT service exports	0,2	14,1	62 2021
Percentage of service exports			
4.2.17 · Cyber security	3,66	5,90	61 2023
Cyber security is being adequately addressed by corporations			

3.301 - Total expenditure on R&D (\$) 3.5 200 3.5 2	4.3 · Scientific Infrastructure	Value	Average I	Rank Year
A.3.02 - Total expenditure on R&D [9k] 9.30 1.66 54 2020 Percentage of GDP 4.3.03 - Total expenditure on R&D per capita (\$) 25.3 732.7 53 2020 US5 per capita 2.3.04 - Business expenditure on R&D [\$] 0.06 1.11 54 2020 0.05 2.3.04 2.2.05 0.05 2.3.04 2.3.05 2.3.04 2.3.05 2.3.04 2.3.05 2.3.04 2.3.05 2.3.04 2.3.05 2.3.04 2.3.05 2.3.04 2.3.05 2.3.04 2.3.05	4.3.01 · Total expenditure on R&D (\$)	3.232	35.459	35 2020
Percentage of GDP	US\$ millions			
A.3.03 - Total expenditure on R&D per capita (\$) 25.3 732, 7 53 2020 US\$ per capita 25.0 25	4.3.02 · Total expenditure on R&D (%)	0,30	1,66	54 2020
U.S. per capita 4.3.04	Percentage of GDP			
A.3.04 - Business expenditure on R&D (\$) U\$\$ miltions willions as expenditure on R&D (\$) U\$\$ miltions are expended in physics, chemistry, physiology or medicine and economics since 1950 per miltion people	4.3.03 · Total expenditure on R&D per capita (\$)	25,3	732,7	53 2020
U.S. Pusiness expenditure on R&D [%] 0,06 1,11 54 2020				
3.05 - Business expenditure on R&D (%) Percentage of GDP Percentage of GDP Recentage of GDP Recent	4.3.04 · Business expenditure on R&D (\$)	696	26.492	42 2020
Percentage of GDP	US\$ millions			
A.3.06 · Total R&D personnel 70,0 278,3 26 2020 Full-time work equivalent [FTE thousands] 3.07 · Total R&D personnel per capita 3.08 · Total R&D personnel per capita 3.13 · 181,2 29 2020 Full-time work equivalent [FTE] per 1000 people 3.308 · Total R&D personnel in business enterprise 31,3 · 181,2 29 2020 Full-time work equivalent [FTE] per 1000 people 3.309 · Total R&D personnel in business per capita 0.25 · 3.51 48 2020 Full-time work equivalent [FTE] per 1000 people 3.310 · Researchers in R&D per capita 0.4 3.7 52 2020 Full-time work equivalent [FTE] per 1000 people 3.311 · Graduates in Sciences 25,82 24,26 25 2020 Full-time work equivalent [FTE] per 1000 people 3.312 · Graduates in Sciences 25,82 24,26 25 2020 Full-time work equivalent [FTE] per 1000 people 3.313 · Nobel prizes 3.38 · 30	4.3.05 · Business expenditure on R&D (%)	0,06	1,11	54 2020
Full-time work equivalent (FTE thousands) 4.3.07 * Total R&D personnel per capita 0.56 * 5.70 * 5.4 * 202 *	Percentage of GDP			
A.3.07 · Total R&D personnel per capita 5.07 5.4 2020 Full-time work equivalent [FTE] per 1000 people 5.07	4.3.06 · Total R&D personnel	70,0	278,3	26 2020
Full-time work equivalent (FTE) per 1000 people	Full-time work equivalent (FTE thousands)			
	4.3.07 · Total R&D personnel per capita	0,55	5,70	54 2020
Full-time work equivalent (FTE thousands) 4.3.09	Full-time work equivalent (FTE) per 1000 people			
4.3.09 · Total R&D personnel in business per capita 0.25 3.51 48 2020 Full-time work equivalent (FTE) per 1000 people	4.3.08 · Total R&D personnel in business enterprise	31,3	181,2	29 2020
Full-time work equivalent (FTE) per 1000 people	Full-time work equivalent (FTE thousands)			
3.10 Researchers in R&D per capita 0.4 3.7 52 2020 Full-time work equivalent (FTE) per 1000 people	4.3.09 · Total R&D personnel in business per capita	0,25	3,51	48 2020
Full-time work equivalent (FTE) per 1000 people	Full-time work equivalent (FTE) per 1000 people			
A.3.11 • Graduates in Sciences 25,82 24,26 25 2020 % of graduates in ICT, Engineering, Math & Natural Sciences 38.874 22 2019 \$	4.3.10 ⋅ Researchers in R&D per capita	0,4	3,7	52 2020
% of graduates in ICT, Engineering, Math & Natural Sciences 4.3.12 · Scientific articles 18.496 38.874 22 2019 Scientific articles published by origin of author 0 9 29 2022 Awarded in physics, chemistry, physiology or medicine and economics since 1950 0,00 0,21 29 2022 Awarded in physics, chemistry, physiology or medicine and economics since 1950 per million people 0,00 0,21 29 2022 4.3.15 · Patent applications 1.994 54.136 33 2021 Number of applications filed by applicant's origin 1,56 81,99 56 2021 Number of applications filed by applicant's origin, per 100,000 inhabitants 1,185 26.637 35 2021 Number of patents granted by applicant's origin (average 2019-2021) 4.3.18 · Number of patents in force 9,3 489,5 51 2021 by applicant's origin, per 100,000 inhabitants 4.3.19 · Medium- and high-tech value added 45,60 38,95 20 2020 Proportion of total manufacturing value added, expressed as a percentage 4.3.20 · Scientific research legislation 3,14 6,01 62 2031 Laws relating to scientific research do encourage innovation 4,00 6,61 58 2023 Intellectual property	Full-time work equivalent (FTE) per 1000 people			
4.3.12 · Scientific articles 18.496 38.874 22 2019 Scientific articles published by origin of author 4.3.13 · Nobel prizes 0 9 29 2022 Awarded in physics, chemistry, physiology or medicine and economics since 1950 0.00 0.21 29 2022 Awarded in physics, chemistry, physiology or medicine and economics since 1950 per million people 0.00 0.21 29 2022 4.3.15 · Patent applications 1.994 54.136 33 2021 Number of applications filed by applicant's origin 1.994 54.136 33 2021 Number of applications filed by applicant's origin, per 100,000 inhabitants 1.185 26.637 35 2021 Number of patents granted by applicant's origin (average 2019-2021) 4.3.18 · Number of patents in force 9,3 489,5 51 2021 by applicant's origin, per 100,000 inhabitants 4.3.19 · Medium- and high-tech value added 45,60 38,95 20 2020 Proportion of total manufacturing value added, expressed as a percentage 4.3.20 · Scientific research legislation 3,14 6,01 62 2023 Laws relating to scientific research do encourage innovation 4.3.21 · Intellectual property rights 5,06 6,61 58 2023 Intellectual property r	4.3.11 · Graduates in Sciences	25,82	24,26	25 2020
Scientific articles published by origin of author	% of graduates in ICT, Engineering, Math & Natural Sciences			
4.3.13 · Nobel prizes Awarded in physics, chemistry, physiology or medicine and economics since 1950 4.3.14 · Nobel prizes per capita Awarded in physics, chemistry, physiology or medicine and economics since 1950 per million people 4.3.15 · Patent applications Number of applications filed by applicant's origin 4.3.16 · Patent applications per capita Number of applications per capita Number of applications filed by applicant's origin, per 100,000 inhabitants 4.3.17 · Patent grants Number of patents granted by applicant's origin (average 2019-2021) 4.3.18 · Number of patents in force by applicant's origin, per 100,000 inhabitants 4.3.19 · Medium- and high-tech value added Proportion of total manufacturing value added, expressed as a percentage 4.3.20 · Scientific research legislation Laws relating to scientific research do encourage innovation 4.3.21 · Intellectual property rights are adequately enforced 4.3.22 · Knowledge transfer 4.28 5,54 54 2023	4.3.12 · Scientific articles	18.496	38.874	22 2019
Awarded in physics, chemistry, physiology or medicine and economics since 1950 4.3.14 · Nobel prizes per capita Awarded in physics, chemistry, physiology or medicine and economics since 1950 per million people 4.3.15 · Patent applications Number of applications filed by applicant's origin 4.3.16 · Patent applications per capita Number of applications filed by applicant's origin, per 100,000 inhabitants 4.3.17 · Patent grants Number of patents granted by applicant's origin (average 2019-2021) 4.3.18 · Number of patents in force by applicant's origin, per 100,000 inhabitants 4.3.19 · Medium- and high-tech value added Proportion of total manufacturing value added, expressed as a percentage 4.3.20 · Scientific research legislation Laws relating to scientific research do encourage innovation 4.3.21 · Intellectual property rights 5,06 6,61 58 2023 Intellectual property rights are adequately enforced 4.3.22 · Knowledge transfer	Scientific articles published by origin of author			
4.3.14 · Nobel prizes per capita Awarded in physics, chemistry, physiology or medicine and economics since 1950 per million people 4.3.15 · Patent applications 1.994 54.136 33 2021 Number of applications filed by applicant's origin 4.3.16 · Patent applications per capita Number of applications filed by applicant's origin, per 100,000 inhabitants 4.3.17 · Patent grants Number of patents granted by applicant's origin (average 2019-2021) 4.3.18 · Number of patents in force by applicant's origin, per 100,000 inhabitants 4.3.19 · Medium- and high-tech value added Proportion of total manufacturing value added, expressed as a percentage 4.3.20 · Scientific research legislation Laws relating to scientific research do encourage innovation 4.3.21 · Intellectual property rights Intellectual property rights are adequately enforced 4.3.22 · Knowledge transfer 4.28 5,54 54 2023	4.3.13 · Nobel prizes	0	9	29 2022
4.3.14 · Nobel prizes per capita Awarded in physics, chemistry, physiology or medicine and economics since 1950 per million people 4.3.15 · Patent applications 1.994 54.136 33 2021 Number of applications filed by applicant's origin 4.3.16 · Patent applications per capita Number of applications filed by applicant's origin, per 100,000 inhabitants 4.3.17 · Patent grants Number of patents granted by applicant's origin (average 2019-2021) 4.3.18 · Number of patents in force by applicant's origin, per 100,000 inhabitants 4.3.19 · Medium- and high-tech value added Proportion of total manufacturing value added, expressed as a percentage 4.3.20 · Scientific research legislation Laws relating to scientific research do encourage innovation 4.3.21 · Intellectual property rights Intellectual property rights are adequately enforced 4.3.22 · Knowledge transfer 4.28 5,54 54 2023	Awarded in physics, chemistry, physiology or medicine and economics since 1950			
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4.3.15 · Patent applications1.99454.13633 2021Number of applications filed by applicant's origin4.3.16 · Patent applications per capita1,5681,9956 2021Number of applications filed by applicant's origin, per 100,000 inhabitants4.3.17 · Patent grants1.18526.63735 2021Number of patents granted by applicant's origin (average 2019-2021)4.3.18 · Number of patents in force9,3489,551 2021by applicant's origin, per 100,000 inhabitants45,6038,9520 2020Proportion of total manufacturing value added45,6038,9520 2020Proportion of total manufacturing value added, expressed as a percentage4.3.20 · Scientific research legislation3,146,0162 2023Laws relating to scientific research do encourage innovation4.3.21 · Intellectual property rights5,066,6158 2023Intellectual property rights are adequately enforced4.3.22 · Knowledge transfer4,285,5454 2023	Awarded in physics, chemistry, physiology or medicine and economics since 1950 per million people			
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4.3.16 · Patent applications per capita Number of applications filed by applicant's origin, per 100,000 inhabitants 4.3.17 · Patent grants Number of patents granted by applicant's origin (average 2019-2021) 4.3.18 · Number of patents in force by applicant's origin, per 100,000 inhabitants 4.3.19 · Medium- and high-tech value added Proportion of total manufacturing value added, expressed as a percentage 4.3.20 · Scientific research legislation Laws relating to scientific research do encourage innovation 4.3.21 · Intellectual property rights Intellectual property rights are adequately enforced 4.3.22 · Knowledge transfer 4.28 5,54 54 2023	Number of applications filed by applicant's origin			
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4.3.18 · Number of patents in force by applicant's origin, per 100,000 inhabitants9,3489,551 20214.3.19 · Medium- and high-tech value added Proportion of total manufacturing value added, expressed as a percentage45,6038,9520 20204.3.20 · Scientific research legislation Laws relating to scientific research do encourage innovation3,146,0162 20234.3.21 · Intellectual property rights Intellectual property rights are adequately enforced5,066,6158 20234.3.22 · Knowledge transfer4,285,5454 2023	· · · · · · · · · · · · · · · · · · ·			
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		4.28	5,54	54 2023
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4.4 · Health & Environment	Value	Average	Rank Year
4.4.01 · Total health expenditure Percentage of GDP	6,2	8,2	47 2020
4.4.02 · Total health expenditure per capita US\$ per capita	527	2.767	50 2020
4.4.03 · Public expenditure on health (%)	52,88	68,64	56 2020
Percentage of total health expenditure	,	,	
4.4.04 · Health infrastructure	2,82	5,75	60 2023
Health infrastructure meets the needs of society			
4.4.05 · Universal health coverage index	74	78	42 2019
Coverage index for essential health services (0-100)			
4.4.06 · Life expectancy at birth	70,2	77,7	58 2021
Average estimate			
4.4.07 · Healthy life expectancy	64,7	68,4	50 2022
Average estimate			
4.4.08 · Infant mortality	13,7	8,0	55 2020
Under five mortality rate per 1000 live births			
4.4.09 · Medical assistance	376,55	384,55	53 2022
Number of inhabitants per physician and per nurse	240.00	000.07	
Medical assistance / Per nurse	349,89	268,97	2022
Medical assistance / Per physician	403,20	500,13	2022
4.4.10 · Urban population	79	78	2022
Percentage of total population			
4.4.11 · Human development index	0,758	0,861	54 2021
Combines economic - social - educational indicators/ Source: Human Development Report			
4.4.12 · Energy intensity	90	108	29 2020
Total energy consumed for each 1000 US\$ of GDP in MTOE			
4.4.13 · Safely treated waste water	60,1	76,8	51 2020
Percentage of waste water			
4.4.14 · Water use efficiency	11,90	93,75	52 2020
US\$ per cubic meter			
4.4.15 · CO2 emissions	397,8	418,8	54 2021
Metric tons of carbon dioxide from fuel combustion	207.0	244.0	40
4.4.16 · CO2 emissions intensity	307,6	341,9	40 2021
CO2 emissions from fuel combustion in metric tons per one million US\$ of GDP 4.4.17 · Exposure to particle pollution	15,05	18,49	37 2020
Mean population exposure to PM2.5, Micrograms per cubic metre	15,05	10,49	37 2020
4.4.18 · Renewable energies (%)	9,3	18,0	45 2020
Share of renewables in total energy requirements, %	9,5	10,0	43 2020
4.4.19 · Forest area growth	-1,0	0,4	52 2020
Five year percentage change of hectares	.,-	-, -	
4.4.20 · Total biocapacity	1,15	3,22	41 2018
Global hectares per capita of biologically productive space	,	,	
4.4.21 · Ecological footprint	2,4	5,0	9 2018
Global hectares per person			
4.4.22 · Ecological balance (reserve/deficit)	-1,23	-1,83	24 2018
Total biocapacity minus total footprint in global hectares per capita			
4.4.23 · Environment-related technologies	0,08	1,58	32 2019
Development of environment-related technologies, % inventions worldwide			
4.4.24 · Environmental agreements	87,04	80,04	21 2020
Multilateral agreements on hazardous waste, proportion fulfilled			
4.4.25 · Sustainable development	4,50	6,18	59 2023
Sustainable development is a priority in companies			
4.4.26 · Pollution problems	3,41	5,82	61 2023
Pollution problems do not seriously affect your economy		0.00	04 :
4.4.27 · Environmental laws	4,60	6,09	61 2023
Environmental laws and compliance do not hinder the competitiveness of businesses 4.4.29. Quality of life	F 50	6 74	47
4.4.28 · Quality of life	5,56	6,71	47 2023
Quality of life is high			

4.5 · Education	Value	Average I	Rank Year
4.5.01 · Total public expenditure on education	3,1	4,8	59 2021
Percentage of GDP			
4.5.02 · Total public expenditure on education per capita	310	1.682	55 2021
US\$ per capita			
4.5.03 · Total public exp. on education per student	958	7.451	59 2020
Spending per enrolled pupil/student, all levels			
4.5.04 · Pupil-teacher ratio (primary education)	24,11	15,49	57 2021
Ratio of students to teaching staff			
4.5.05 · Pupil-teacher ratio (secondary education)	25,89	13,29	61 2021
Ratio of students to teaching staff			
4.5.06 · Secondary school enrollment	81,9	92,5	55 2020
Percentage of relevant age group receiving full-time education			
4.5.07 · Higher education achievement	27,1	44,4	52 2021
Percentage of population that has attained at least tertiary education for persons 25-34			
4.5.08 · Women with degrees	19,9	40,3	53 2021
Share of women who have a degree in the population 25-65			
4.5.09 · Student mobility inbound	0,34	4,04	55 2020
Foreign tertiary-level students per 1000 inhabitants			
4.5.10 · Student mobility outbound	0,27	2,63	59 2020
National tertiary-level students studying abroad per 1000 inhabitants			
4.5.11 · Educational assessment - PISA	416	471	46 2018
PISA survey of 15-year olds			
Educational assessment - PISA / Mathematics	409	472	2018
Educational assessment - PISA / Reading	420	468	2018
Educational assessment - PISA / Sciences	419	472	2018
4.5.12 · Students who are not low achievers - PISA	35,7	58,5	45 2018
% of students who are not low achievers in maths, sciences and reading			
4.5.13 · English proficiency - TOEFL	88	92	46 2021
TOEFL scores			
4.5.14 · Primary and secondary education	4,06	6,00	56 2023
Primary and secondary education meets the needs of a competitive economy			
4.5.15 · University education	5,64	6,35	45 2023
University education meets the needs of a competitive economy			
4.5.16 · Management education	5,52	6,36	50 2023
Management education meets the needs of the business community			
4.5.17 · University education index	0,62	13,47	54 2022
Country score calculated from Times Higher Education university ranking			
4.5.18 · Illiteracy	4,8	2,4	55 2020
Adult (over 15 years) illiteracy rate as a percentage of population			
4.5.19 · Language skills	4,84	6,45	56 2023
Language skills are meeting the needs of enterprises			

About the Institute for Management Development (IMD)

IMD is an independent academic institution with Swiss roots and global reach, founded almost 75 years ago by business leaders for business leaders. Since its creation, IMD has been a pioneering force in developing leaders who transform organizations and contribute to society.

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We believe that this consistency at the forefront of our industry is grounded in IMD's unique approach to creating "Real Learning. Real Impact". Led by an expert and diverse faculty, we strive to be the trusted learning partner of choice for ambitious individuals and organizations worldwide. Challenging what is and inspiring what could be.

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