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Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$ (bn)	GDP per capita, PPP\$
81	52	Upper middle	LCN	33.4	453.7	13,410


	Score/Value	Rank
 Institutions	58.0	61
1.1 Political environment	53.2	87
1.1.1 Political and operational stability*	61.8	87
1.1.2 Government effectiveness*	44.6	85
1.2 Regulatory environment	70.4	48
1.2.1 Regulatory quality*	58.1	45
1.2.2 Rule of law*	37.2	81
1.2.3 Cost of redundancy dismissal	11.4	37 ●
1.3 Business environment	50.4	56
1.3.1 Policies for doing business†	46.5	75
1.3.2 Entrepreneurship policies and culture*	54.4	29 ○


	Score/Value	Rank
 Human capital and research	36.8	47
2.1 Education	45.3	80
2.1.1 Expenditure on education, % GDP	4.2	69
2.1.2 Government funding/pupil, secondary, % GDP/cap	16.6	74
2.1.3 School life expectancy, years	15.0	53 ○
2.1.4 PISA scales in reading, maths and science	401.5	66 ○
2.1.5 Pupil-teacher ratio, secondary	13.8	63
2.2 Tertiary education	57.2	5 ● ◆
2.2.1 Tertiary enrolment, % gross	70.7	32 ●
2.2.2 Graduates in science and engineering, %	29.6	18 ● ◆
2.2.3 Tertiary inbound mobility, %	n/a	n/a
2.3 Research and development (R&D)	7.8	64
2.3.1 Researchers, FTE/mn pop.	n/a	n/a
2.3.2 Gross expenditure on R&D, % GDP	0.2	93
2.3.3 Global corporate R&D investors, top 3, mn USD	0.0	38 ○ ◆
2.3.4 QS university ranking, top 3*	18.1	53

	Score/Value	Rank
 Infrastructure	40.5	79
3.1 Information and communication technologies (ICTs)	68.1	81
3.1.1 ICT access*	70.4	98 ○
3.1.2 ICT use*	50.5	92
3.1.3 Government's online service*	75.3	52
3.1.4 E-participation*	76.2	55
3.2 General infrastructure	21.7	98
3.2.1 Electricity output, GWh/mn pop.	1,605.4	90
3.2.2 Logistics performance*	29.8	81
3.2.3 Gross capital formation, % GDP	21.2	83
3.3 Ecological sustainability	31.6	51
3.3.1 GDP/unit of energy use	15.4	23 ●
3.3.2 Environmental performance*	39.8	72
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	1.9	50

	Score/Value	Rank
 Market sophistication	40.2	40
4.1 Credit	51.5	14 ● ◆
4.1.1 Finance for startups and scaleups*	34.9	49 ○
4.1.2 Domestic credit to private sector, % GDP	55.1	63
4.1.3 Loans from microfinance institutions, % GDP	6.9	1 ● ◆
4.2 Investment	4.7	82
4.2.1 Market capitalization, % GDP	42.8	41
4.2.2 Venture capital investors, deals/bn PPP\$ GDP	0.0	90 ○
4.2.3 Venture capital recipients, deals/bn PPP\$ GDP	0.0	101 ○
4.2.4 Venture capital received, value, % GDP	0.0	71
4.3 Trade, diversification, and market scale	64.4	31 ●
4.3.1 Applied tariff rate, weighted avg., %	0.7	6 ● ◆
4.3.2 Domestic industry diversification	87.5	52
4.3.3 Domestic market scale, bn PPP\$	453.7	47

	Score/Value	Rank
 Business sophistication	32.1	49
5.1 Knowledge workers	46.1	[38]
5.1.1 Knowledge-intensive employment, %	14.1	91 ○
5.1.2 Firms offering formal training, %	65.9	6 ● ◆
5.1.3 GERD performed by business, % GDP	n/a	n/a
5.1.4 GERD financed by business, %	n/a	n/a
5.1.5 Females employed w/advanced degrees, %	11.3	67
5.2 Innovation linkages	19.4	97
5.2.1 University-industry R&D collaboration†	32.7	109 ○ ◆
5.2.2 State of cluster development and depth†	42.8	88
5.2.3 GERD financed by abroad, % GDP	n/a	n/a
5.2.4 Joint venture/strategic alliance deals/bn PPP\$ GDP	0.0	125 ○
5.2.5 Patent families/bn PPP\$ GDP	0.0	80
5.3 Knowledge absorption	30.8	62
5.3.1 Intellectual property payments, % total trade	0.7	59
5.3.2 High-tech imports, % total trade	10.0	43
5.3.3 ICT services imports, % total trade	1.6	58 ○
5.3.4 FDI net inflows, % GDP	2.3	65
5.3.5 Research talent, % in businesses	n/a	n/a

	Score/Value	Rank
 Knowledge and technology outputs	13.7	90
6.1 Knowledge creation	9.7	77
6.1.1 Patents by origin/bn PPP\$ GDP	0.3	88
6.1.2 PCT patents by origin/bn PPP\$ GDP	0.1	67
6.1.3 Utility models by origin/bn PPP\$ GDP	1.0	22 ●
6.1.4 Scientific and technical articles/bn PPP\$ GDP	5.8	108 ○
6.1.5 Citable documents H-index	14.4	56
6.2 Knowledge impact	22.5	80
6.2.1 Labor productivity growth, %	0.4	77
6.2.2 New businesses/th pop. 15–64	3.8	36
6.2.3 Software spending, % GDP	0.2	57
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	4.1	64
6.2.5 High-tech manufacturing, %	12.6	81
6.3 Knowledge diffusion	8.9	106 ○
6.3.1 Intellectual property receipts, % total trade	0.1	71
6.3.2 Production and export complexity	23.0	96 ○
6.3.3 High-tech exports, % total trade	0.4	93
6.3.4 ICT services exports, % total trade	0.3	112 ○

	Score/Value	Rank
 Creative outputs	19.5	65
7.1 Intangible assets	31.3	57
7.1.1 Intangible asset intensity, top 15, %	55.9	46
7.1.2 Trademarks by origin/bn PPP\$ GDP	66.0	35 ●
7.1.3 Global brand value, top 5,000, % GDP	7.2	63
7.1.4 Industrial designs by origin/bn PPP\$ GDP	0.2	102 ○
7.2 Creative goods and services	12.6	74
7.2.1 Cultural and creative services exports, % total trade	0.1	84
7.2.2 National feature films/mn pop. 15–69	0.2	76 ○ ◆
7.2.3 Entertainment and media market/th pop. 15–69	7.1	38
7.2.4 Printing and other media, % manufacturing	2.0	14 ●
7.2.5 Creative goods exports, % total trade	0.2	74
7.3 Online creativity	2.8	75
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69	5.1	52
7.3.2 Country-code TLDs/th pop. 15–69	1.7	73
7.3.3 GitHub commit pushes received/mn pop. 15–69	3.7	67
7.3.4 Mobile app creation/bn PPP\$ GDP	0.7	78

NOTES: ● indicates a strength; ○ a weakness; ◆ an income group strength; ◇ an income group weakness; * an index; † a survey question. ○ indicates that the economy's data are older than the base year; see appendices for details, including the year of the data, at https://www.wipo.int/global_innovation_index/en/2022. Square brackets [] indicate that the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level.