








Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$ (bn)	GDP per capita, PPP\$	GII 2020 rank
12	18	High	NAWA	8.7	361.0	39,126	13

	Score/Value	Rank		Score/Value	Rank
 Institutions	76.2	34 ◊	 Business sophistication	58.7	8
1.1 Political environment	76.6	28 ◊	5.1 Knowledge workers	61.2	15
1.1.1 Political and operational stability*	69.6	60 ◊	5.1.1 Knowledge-intensive employment, %	⊙ 48.4	12
1.1.2 Government effectiveness*	80.1	22	5.1.2 Firms offering formal training, %	⊙ 18.6	81 ◊
1.2 Regulatory environment	68.6	53 ◊	5.1.3 GERD performed by business, % GDP	4.4	1 ●◆
1.2.1 Regulatory quality*	77.0	23	5.1.4 GERD financed by business, %	36.6	52 ◊
1.2.2 Rule of law*	74.3	27 ◊	5.1.5 Females employed w/advanced degrees, %	⊙ 22.4	25
1.2.3 Cost of redundancy dismissal	27.4	114 ◊	5.2 Innovation linkages	82.1	1 ●◆
1.3 Business environment	83.4	24	5.2.1 University-industry R&D collaboration†	79.2	1 ●◆
1.3.1 Ease of starting a business*	94.1	26	5.2.2 State of cluster development and depth†	56.9	32
1.3.2 Ease of resolving insolvency*	72.7	27	5.2.3 GERD financed by abroad, % GDP	2.5	1 ●◆
			5.2.4 Joint venture/strategic alliance deals/bn PPP\$ GDP	0.3	3 ●◆
			5.2.5 Patent families/bn PPP\$ GDP	5.3	8 ◆
 Human capital and research	51.6	19	5.3 Knowledge absorption	33.0	48 ◊
2.1 Education	58.1	38	5.3.1 Intellectual property payments, % total trade	0.6	64 ◊
2.1.1 Expenditure on education, % GDP	6.1	14	5.3.2 High-tech imports, % total trade	10.9	22
2.1.2 Government funding/pupil, secondary, % GDP/cap	19.4	50	5.3.3 ICT services imports, % total trade	2.2	28
2.1.3 School life expectancy, years	16.1	34	5.3.4 FDI net inflows, % GDP	5.1	20
2.1.4 PISA scales in reading, maths and science	465.2	39 ◊	5.3.5 Research talent, % in businesses	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	⊙ 14.4	68 ◊	 Knowledge and technology outputs	55.9	6
2.2 Tertiary education	28.6	77 ◊	6.1 Knowledge creation	53.8	12
2.2.1 Tertiary enrolment, % gross	61.5	47	6.1.1 Patents by origin/bn PPP\$ GDP	3.6	23
2.2.2 Graduates in science and engineering, %	18.1	85 ◊	6.1.2 PCT patents by origin/bn PPP\$ GDP	5.4	1 ●◆
2.2.3 Tertiary inbound mobility, %	⊙ 2.8	70 ◊	6.1.3 Utility models by origin/bn PPP\$ GDP	n/a	n/a
2.3 Research and development (R&D)	68.0	8	6.1.4 Scientific and technical articles/bn PPP\$ GDP	41.6	15
2.3.1 Researchers, FTE/mn pop.	n/a	n/a	6.1.5 Citable documents H-index	47.4	16
2.3.2 Gross expenditure on R&D, % GDP	4.9	1 ●◆	6.2 Knowledge impact	42.2	21
2.3.3 Global corporate R&D investors, top 3, mn US\$	64.2	20	6.2.1 Labor productivity growth, %	1.0	45
2.3.4 QS university ranking, top 3*	39.9	32	6.2.2 New businesses/th pop. 15–64	3.3	42
			6.2.3 Software spending, % GDP	0.2	56
 Infrastructure	50.2	40 ◊	6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	21.7	7 ◆
3.1 Information and communication technologies (ICTs)	76.6	45 ◊	6.2.5 High-tech manufacturing, %	33.0	37
3.1.1 ICT access*	81.6	27	6.3 Knowledge diffusion	71.8	2 ●◆
3.1.2 ICT use*	78.4	25	6.3.1 Intellectual property receipts, % total trade	2.1	12
3.1.3 Government's online service*	74.7	55 ◊	6.3.2 Production and export complexity	71.7	20
3.1.4 E-participation*	71.4	66 ◊	6.3.3 High-tech exports, % total trade	11.4	14
3.2 General infrastructure	33.7	45 ◊	6.3.4 ICT services exports, % total trade	15.3	1 ●◆
3.2.1 Electricity output, GWh/mn pop.	7,757.5	25	 Creative outputs	36.3	30 ◊
3.2.2 Logistics performance*	58.5	36 ◊	7.1 Intangible assets	27.5	75 ◊
3.2.3 Gross capital formation, % GDP	20.7	84 ◊	7.1.1 Trademarks by origin/bn PPP\$ GDP	11.3	109 ◊
3.3 Ecological sustainability	40.3	35	7.1.2 Global brand value, top 5,000, % GDP	19.9	49 ◊
3.3.1 GDP/unit of energy use	15.0	22	7.1.3 Industrial designs by origin/bn PPP\$ GDP	2.2	46
3.3.2 Environmental performance*	65.8	29	7.1.4 ICTs and organizational model creation†	77.0	12
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	2.1	38	7.2 Creative goods and services	31.2	23
			7.2.1 Cultural and creative services exports, % total trade	2.9	5 ●◆
 Market sophistication	66.8	8	7.2.2 National feature films/mn pop. 15–69	5.3	41
4.1 Credit	48.0	39	7.2.3 Entertainment and media market/th pop. 15–69	35.6	22 ◊
4.1.1 Ease of getting credit*	70.0	44	7.2.4 Printing and other media, % manufacturing	⊙ 1.2	38
4.1.2 Domestic credit to private sector, % GDP	65.4	50 ◊	7.2.5 Creative goods exports, % total trade	1.4	37
4.1.3 Microfinance gross loans, % GDP	n/a	n/a	7.3 Online creativity	59.0	9
4.2 Investment	74.4	7 ◆	7.3.1 Generic top-level domains (TLDs)/th pop. 15–69	21.9	26
4.2.1 Ease of protecting minority investors*	78.0	18	7.3.2 Country-code TLDs/th pop. 15–69	14.3	34 ◊
4.2.2 Market capitalization, % GDP	58.7	26	7.3.3 Wikipedia edits/mn pop. 15–69	93.9	1 ●◆
4.2.3 Venture capital investors, deals/bn PPP\$ GDP	0.6	1 ●◆	7.3.4 Mobile app creation/bn PPP\$ GDP	100.0	1 ●◆
4.2.4 Venture capital recipients, deals/bn PPP\$ GDP	0.5	1 ●◆			
4.3 Trade, diversification, and market scale	77.9	36			
4.3.1 Applied tariff rate, weighted avg., %	⊙ 1.8	53			
4.3.2 Domestic industry diversification	⊙ 91.7	46			
4.3.3 Domestic market scale, bn PPP\$	361.0	48			

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 <http://globalinnovationindex.org>. Square brackets [] indicate that the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level.