

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$	GDP per capita, PPP\$	GII 2018 rank
99	88	High	LCN	1.4	44.3	32,253.8	96
Score/Value				Score/Value			
INSTITUTIONS.....				BUSINESS SOPHISTICATION.....			
63.4 63				26.2 92			
1.1 Political environment.....				5.1 Knowledge workers.....			
1.1.1 Political and operational stability*.....				5.1.1 Knowledge-intensive employment, %.....			
1.1.2 Government effectiveness*.....				5.1.2 Firms offering formal training, % firms.....			
1.2 Regulatory environment.....				5.1.3 GERD performed by business, % GDP.....			
1.2.1 Regulatory quality*.....				5.1.4 GERD financed by business, %.....			
1.2.2 Rule of law*.....				5.1.5 Females employed w/advanced degrees, %.....			
1.2.3 Cost of redundancy dismissal, salary weeks.....				5.2 Innovation linkages.....			
1.3 Business environment.....				5.2.1 University/industry research collaboration*.....			
1.3.1 Ease of starting a business*.....				5.2.2 State of cluster development*.....			
1.3.2 Ease of resolving insolvency*.....				5.2.3 GERD financed by abroad, %.....			
				5.2.4 JV-strategic alliance deals/bn PPP\$ GDP.....			
				5.2.5 Patent families 2+ offices/bn PPP\$ GDP.....			
2.1 Education.....				5.3 Knowledge absorption.....			
2.1.1 Expenditure on education, % GDP.....				5.3.1 Intellectual property payments, % total trade.....			
2.1.2 Government funding/pupil, secondary, % GDP/cap.....				5.3.2 High-tech imports, % total trade.....			
2.1.3 School life expectancy, years.....				5.3.3 ICT services imports, % total trade.....			
2.1.4 PISA scales in reading, maths, & science.....				5.3.4 FDI net inflows, % GDP.....			
2.1.5 Pupil-teacher ratio, secondary.....				5.3.5 Research talent, % in business enterprise.....			
2.2 Tertiary education.....				6.1 Knowledge creation.....			
2.2.1 Tertiary enrolment, % gross.....				6.1.1 Patents by origin/bn PPP\$ GDP.....			
2.2.2 Graduates in science & engineering, %.....				6.1.2 PCT patents by origin/bn PPP\$ GDP.....			
2.2.3 Tertiary inbound mobility, %.....				6.1.3 Utility models by origin/bn PPP\$ GDP.....			
2.3 Research & development (R&D).....				6.1.4 Scientific & technical articles/bn PPP\$ GDP.....			
2.3.1 Researchers, FTE/mn pop.....				6.1.5 Citable documents H-index.....			
2.3.2 Gross expenditure on R&D, % GDP.....				6.2 Knowledge impact.....			
2.3.3 Global R&D companies, avg. exp. top 3, mn US\$.....				6.2.1 Growth rate of PPP\$ GDP/worker, %.....			
2.3.4 QS university ranking, average score top 3*.....				6.2.2 New businesses/th pop. 15-64.....			
				6.2.3 Computer software spending, % GDP.....			
				6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP.....			
				6.2.5 High- & medium-high-tech manufactures, %.....			
3.1 Information & communication technologies (ICTs).....				6.3 Knowledge diffusion.....			
3.1.1 ICT access*.....				6.3.1 Intellectual property receipts, % total trade.....			
3.1.2 ICT use*.....				6.3.2 High-tech net exports, % total trade.....			
3.1.3 Government's online service*.....				6.3.3 ICT services exports, % total trade.....			
3.1.4 E-participation*.....				6.3.4 FDI net outflows, % GDP.....			
3.2 General infrastructure.....				7.1 Intangible assets.....			
3.2.1 Electricity output, kWh/mn pop.....				7.1.1 Trademarks by origin/bn PPP\$ GDP.....			
3.2.2 Logistics performance*.....				7.1.2 Industrial designs by origin/bn PPP\$ GDP.....			
3.2.3 Gross capital formation, % GDP.....				7.1.3 ICTs & business model creation*.....			
3.3 Ecological sustainability.....				7.1.4 ICTs & organizational model creation*.....			
3.3.1 GDP/unit of energy use.....				7.2 Creative goods & services.....			
3.3.2 Environmental performance*.....				7.2.1 Cultural & creative services exports, % total trade.....			
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP.....				7.2.2 National feature films/mn pop. 15-69.....			
				7.2.3 Entertainment & Media market/th pop. 15-69.....			
				7.2.4 Printing & other media, % manufacturing.....			
				7.2.5 Creative goods exports, % total trade.....			
4.1 Credit.....				7.3 Online creativity.....			
4.1.1 Ease of getting credit*.....				7.3.1 Generic top-level domains (TLDs)/th pop. 15-69.....			
4.1.2 Domestic credit to private sector, % GDP.....				7.3.2 Country-code TLDs/th pop. 15-69.....			
4.1.3 Microfinance gross loans, % GDP.....				7.3.3 Wikipedia edits/mn pop. 15-69.....			
4.2 Investment.....				7.3.4 Mobile app creation/bn PPP\$ GDP.....			
4.2.1 Ease of protecting minority investors*.....							
4.2.2 Market capitalization, % GDP.....							
4.2.3 Venture capital deals/bn PPP\$ GDP.....							
4.3 Trade, competition, & market scale.....							
4.3.1 Applied tariff rate, weighted avg., %.....							
4.3.2 Intensity of local competition*.....							
4.3.3 Domestic market scale, bn PPP\$.....							

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 Appendix II 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.