

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$	GDP per capita, PPP\$	GII 2018 rank
32	18	High	SEAO	4.7	199.3	40,135.4	22
Score/Value Rank				Score/Value Rank			
INSTITUTIONS..... 92.1 5 ●				BUSINESS SOPHISTICATION..... 41.4 31 ◇			
1.1	Political environment..... 91.7			7 ●	5.1	Knowledge workers..... 43.8 [48]	
1.1.1	Political and operational stability*..... 96.5			2 ● ◆	5.1.1	Knowledge-intensive employment, %..... n/a n/a	
1.1.2	Government effectiveness*..... 89.4			10 ●	5.1.2	Firms offering formal training, % firms..... n/a n/a	
1.2	Regulatory environment..... 98.8			1 ●	5.1.3	GERD performed by business, % GDP...③..... 0.6 33 ◇	
1.2.1	Regulatory quality*..... 98.0			3 ● ◆	5.1.4	GERD financed by business, %...③..... 43.8 38	
1.2.2	Rule of law*..... 97.2			5 ●	5.1.5	Females employed w/advanced degrees, %...③..... 19.5 25	
1.2.3	Cost of redundancy dismissal, salary weeks..... 8.0			1 ●	5.2	Innovation linkages..... 40.2 28	
1.3	Business environment..... 85.9			18	5.2.1	University/industry research collaboration*..... 62.7 21	
1.3.1	Ease of starting a business*..... 100.0			1 ● ◆	5.2.2	State of cluster development*..... 55.2 35 ◇	
1.3.2	Ease of resolving insolvency*..... 71.8			29	5.2.3	GERD financed by abroad, %...③..... 7.8 50 ○	
HUMAN CAPITAL & RESEARCH..... 52.6 16				5.2.4	JV-strategic alliance deals/bn PPP\$ GDP..... 0.1 15		
2.1	Education..... 63.0			15	5.2.5	Patent families 2+ offices/bn PPP\$ GDP..... 2.2 19	
2.1.1	Expenditure on education, % GDP..... 6.3			17	5.3	Knowledge absorption..... 40.0 41 ◇	
2.1.2	Government funding/pupil, secondary, % GDP/cap... 20.8			47	5.3.1	Intellectual property payments, % total trade..... 1.7 17	
2.1.3	School life expectancy, years..... 18.8			7 ●	5.3.2	High-tech imports, % total trade..... 10.0 29	
2.1.4	PISA scales in reading, maths, & science.....505.9			14	5.3.3	ICT services imports, % total trade..... 1.4 49	
2.1.5	Pupil-teacher ratio, secondary..... 13.6			61 ○	5.3.4	FDI net inflows, % GDP..... 0.7 115 ○	
2.2	Tertiary education..... 51.3			12	5.3.5	Research talent, % in business enterprise...③..... 36.9 36 ◇	
2.2.1	Tertiary enrolment, % gross..... 82.0			15	KNOWLEDGE & TECHNOLOGY OUTPUTS...29.8 42 ◇		
2.2.2	Graduates in science & engineering, %..... 21.2			56 ○	6.1	Knowledge creation..... 39.1 20	
2.2.3	Tertiary inbound mobility, %..... 19.8			5 ● ◆	6.1.1	Patents by origin/bn PPP\$ GDP..... 5.4 22	
2.3	Research & development (R&D)..... 43.4			23 ◇	6.1.2	PCT patents by origin/bn PPP\$ GDP..... 1.4 24 ◇	
2.3.1	Researchers, FTE/mn pop.③.....4,052.4			24	6.1.3	Utility models by origin/bn PPP\$ GDP..... n/a n/a	
2.3.2	Gross expenditure on R&D, % GDP...③..... 1.2			30 ◇	6.1.4	Scientific & technical articles/bn PPP\$ GDP..... 26.4 11	
2.3.3	Global R&D companies, avg. exp. top 3, mn US\$..... 47.8			32	6.1.5	Citable documents H-index..... 33.9 27	
2.3.4	QS university ranking, average score top 3*..... 50.1			18	6.2	Knowledge impact..... 36.8 63 ◇	
INFRASTRUCTURE..... 60.9 20				6.2.1	Growth rate of PPP\$ GDP/worker, %..... -0.6 100 ○ ◇		
3.1	Information & communication technologies (ICTs) 90.5			6 ●	6.2.2	New businesses/th pop. 15-64..... 14.5 9	
3.1.1	ICT access*..... 86.2			12	6.2.3	Computer software spending, % GDP..... 0.3 56 ◇	
3.1.2	ICT use*..... 82.3			11	6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP..... 5.5 57	
3.1.3	Government's online service*..... 95.1			9	6.2.5	High- & medium-high-tech manufactures, %...③..... 0.1 66 ○ ◇	
3.1.4	E-participation*..... 98.3			5 ●	6.3	Knowledge diffusion..... 13.6 82 ○ ◇	
3.2	General infrastructure..... 50.4			18	6.3.1	Intellectual property receipts, % total trade..... 0.7 23	
3.2.1	Electricity output, kWh/mn pop..... 8,935.3			18	6.3.2	High-tech net exports, % total trade..... 1.0 69 ○ ◇	
3.2.2	Logistics performance*..... 84.8			15	6.3.3	ICT services exports, % total trade..... 1.1 77 ○	
3.2.3	Gross capital formation, % GDP..... 25.4			43	6.3.4	FDI net outflows, % GDP..... -0.3 121 ○ ◇	
3.3	Ecological sustainability..... 41.8			49	CREATIVE OUTPUTS.....42.2 23		
3.3.1	GDP/unit of energy use..... 7.9			77 ○	7.1	Intangible assets..... 53.4 27	
3.3.2	Environmental performance*..... 76.0			17	7.1.1	Trademarks by origin/bn PPP\$ GDP..... 90.5 22	
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.. 1.5			57	7.1.2	Industrial designs by origin/bn PPP\$ GDP..... 1.8 54	
MARKET SOPHISTICATION..... 68.5 6 ●				7.1.3	ICTs & business model creation*..... 73.5 23		
4.1	Credit..... 87.2			3 ● ◆	7.1.4	ICTs & organizational model creation*..... 71.3 18	
4.1.1	Ease of getting credit*..... 100.0			1 ● ◆	7.2	Creative goods & services..... 24.8 43	
4.1.2	Domestic credit to private sector, % GDP..... 152.9			8 ●	7.2.1	Cultural & creative services exports, % total trade..... 0.5 52	
4.1.3	Microfinance gross loans, % GDP..... n/a			n/a	7.2.2	National feature films/mn pop. 15-69..... 6.2 36	
4.2	Investment..... 51.5			36	7.2.3	Entertainment & Media market/th pop. 15-69..... 59.0 11	
4.2.1	Ease of protecting minority investors*..... 81.7			2 ● ◆	7.2.4	Printing & other media, % manufacturing...③..... 1.8 23	
4.2.2	Market capitalization, % GDP..... 43.4			33 ◇	7.2.5	Creative goods exports, % total trade..... 0.5 61	
4.2.3	Venture capital deals/bn PPP\$ GDP..... 0.1			18	7.3	Online creativity..... 37.1 21	
4.3	Trade, competition, & market scale..... 66.7			46	7.3.1	Generic top-level domains (TLDs)/th pop. 15-69..... 32.5 20	
4.3.1	Applied tariff rate, weighted avg., %..... 1.4			13	7.3.2	Country-code TLDs/th pop. 15-69..... 59.7 10 ●	
4.3.2	Intensity of local competition*..... 70.8			52	7.3.3	Wikipedia edits/mn pop. 15-69..... 59.7 16	
4.3.3	Domestic market scale, bn PPP\$..... 199.3			61	7.3.4	Mobile app creation/bn PPP\$ GDP..... 15.9 31	

NOTES: ● indicates a strength; ○ a weakness; ◆ a strength relative to the other top 25-ranked GII economies; ◇ a weakness relative to the other top 25-ranked GII economies; * 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.