

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$	GDP per capita, PPP\$	GII 2018 rank
<b>27</b>	<b>13</b>	<b>High</b>	<b>EUR</b>	<b>5.4</b>	<b>398.3</b>	<b>74,356.1</b>	<b>19</b>
				Score/Value	Rank		
 <b>INSTITUTIONS.....</b>	<b>93.9</b>	<b>2 ● ◆</b>	 <b>BUSINESS SOPHISTICATION.....</b>	<b>50.2</b>	<b>21</b>		
<b>1.1 Political environment.....</b>	<b>94.7</b>	<b>3 ● ◆</b>	<b>5.1 Knowledge workers.....</b>	<b>69.4</b>	<b>10</b>		
1.1.1 Political and operational stability*.....	94.7	4 ●	5.1.1 Knowledge-intensive employment, %.....	52.5	4 ●		
1.1.2 Government effectiveness*.....	94.6	3 ● ◆	5.1.2 Firms offering formal training, % firms.....	n/a	n/a		
<b>1.2 Regulatory environment.....</b>	<b>97.1</b>	<b>4 ●</b>	5.1.3 GERD performed by business, % GDP.....	1.1	20		
1.2.1 Regulatory quality*.....	90.6	9	5.1.4 GERD financed by business, %.....	43.2	40 ◇		
1.2.2 Rule of law*.....	99.8	2 ●	5.1.5 Females employed w/advanced degrees, %.....	25.2	10		
1.2.3 Cost of redundancy dismissal, salary weeks.....	8.7	21					
<b>1.3 Business environment.....</b>	<b>89.9</b>	<b>3 ●</b>	<b>5.2 Innovation linkages.....</b>	<b>38.3</b>	<b>31</b>		
1.3.1 Ease of starting a business*.....	94.3	19	5.2.1 University/industry research collaboration*.....	61.7	22		
1.3.2 Ease of resolving insolvency*.....	85.4	5 ●	5.2.2 State of cluster development.....	64.6	18		
 <b>HUMAN CAPITAL &amp; RESEARCH.....</b>	<b>53.9</b>	<b>15</b>	5.2.3 GERD financed by abroad, %.....	9.5	45		
<b>2.1 Education.....</b>	<b>70.1</b>	<b>3 ● ◆</b>	5.2.4 JV-strategic alliance deals/bn PPP\$ GDP.....	0.1	22		
2.1.1 Expenditure on education, % GDP.....	7.6	4 ● ◆	5.2.5 Patent families 2+ offices/bn PPP\$ GDP.....	1.7	24 ◇		
2.1.2 Government funding/pupil, secondary, % GDP/cap.....	26.4	20 ◆					
2.1.3 School life expectancy, years.....	18.1	10					
2.1.4 PISA scales in reading, maths, & science.....	504.5	15					
2.1.5 Pupil-teacher ratio, secondary.①.....	8.7	14 ◆					
<b>2.2 Tertiary education.....</b>	<b>35.8</b>	<b>50</b>	<b>5.3 Knowledge absorption.....</b>	<b>42.7</b>	<b>33</b>		
2.2.1 Tertiary enrolment, % gross.....	82.0	16	5.3.1 Intellectual property payments, % total trade.....	0.4	69 ○ ◇		
2.2.2 Graduates in science & engineering, %.....	20.5	61 ○	5.3.2 High-tech imports, % total trade.....	6.6	80 ○		
2.2.3 Tertiary inbound mobility, %.....	3.9	55	5.3.3 ICT services imports, % total trade.....	2.8	10		
<b>2.3 Research &amp; development (R&amp;D).....</b>	<b>55.8</b>	<b>19</b>	5.3.4 FDI net inflows, % GDP.....	-0.9	125 ○		
2.3.1 Researchers, FTE/mn pop.....	6,407.5	7	5.3.5 Research talent, % in business enterprise.....	48.1	26		
2.3.2 Gross expenditure on R&D, % GDP.....	2.1	16					
2.3.3 Global R&D companies, avg. exp. top 3, mn US\$.....	57.2	24					
2.3.4 QS university ranking, average score top 3*.....	42.9	26					
 <b>INFRASTRUCTURE.....</b>	<b>69.9</b>	<b>1 ● ◆</b>	 <b>KNOWLEDGE &amp; TECHNOLOGY OUTPUTS....</b>	<b>33.7</b>	<b>30</b>	◇	
<b>3.1 Information &amp; communication technologies(ICTs).....</b>	<b>89.6</b>	<b>9</b>	<b>6.1 Knowledge creation.....</b>	<b>38.0</b>	<b>22</b>		
3.1.1 ICT access*.....	77.6	35	6.1.1 Patents by origin/bn PPP\$ GDP.....	4.4	26		
3.1.2 ICT use*.....	88.1	5 ● ◆	6.1.2 PCT patents by origin/bn PPP\$ GDP.....	1.9	18		
3.1.3 Government's online service*.....	95.1	9	6.1.3 Utility models by origin/bn PPP\$ GDP.....	n/a	n/a		
3.1.4 E-participation*.....	97.8	11	6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	19.3	26		
<b>3.2 General infrastructure.....</b>	<b>68.5</b>	<b>1 ● ◆</b>	6.1.5 Citable documents H-index.....	39.3	20		
3.2.1 Electricity output, kWh/mn pop.....	28,078.2						
3.2.2 Logistics performance*.....	76.4	21					
3.2.3 Gross capital formation, % GDP.....	28.2	27					
<b>3.3 Ecological sustainability.....</b>	<b>51.5</b>	<b>24</b>	<b>6.2 Knowledge impact.....</b>	<b>41.0</b>	<b>45</b>		
3.3.1 GDP/unit of energy use.....	11.8	32	6.2.1 Growth rate of PPP\$ GDP/worker, %.....	0.6	71 ○		
3.3.2 Environmental performance*.....	77.5	14	6.2.2 New businesses/th pop. 15-64.....	8.2	18		
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP..	3.5	29	6.2.3 Computer software spending, % GDP.....	0.6	16		
 <b>MARKET SOPHISTICATION.....</b>	<b>58.6</b>	<b>22</b>	6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP.....	6.5	48		
<b>4.1 Credit.....</b>	<b>63.0</b>	<b>18</b>	6.2.5 High- & medium-high-tech manufactures, %.....	0.2	58 ○ ◇		
4.1.1 Ease of getting credit*.....	55.0	77 ○					
4.1.2 Domestic credit to private sector, % GDP.....	146.3	10					
4.1.3 Microfinance gross loans, % GDP.....	n/a	n/a					
<b>4.2 Investment.....</b>	<b>45.3</b>	<b>54</b>	<b>6.3 Knowledge diffusion.....</b>	<b>22.1</b>	<b>43</b>	◇	
4.2.1 Ease of protecting minority investors*.....	75.0	14	6.3.1 Intellectual property receipts, % total trade.....	0.4	28	◇	
4.2.2 Market capitalization, % GDP.....	61.5	27	6.3.2 High-tech net exports, % total trade.....	3.0	45		
4.2.3 Venture capital deals/bn PPP\$ GDP.....	0.0	40 ○ ◇	6.3.3 ICT services exports, % total trade.....	1.7	63		
<b>4.3 Trade, competition, &amp; market scale.....</b>	<b>67.4</b>	<b>44</b>	6.3.4 FDI net outflows, % GDP.....	2.8	26		
4.3.1 Applied tariff rate, weighted avg., %.....	3.1	65 ◇					
4.3.2 Intensity of local competition*.....	69.3	65 ○ ◇					
4.3.3 Domestic market scale, bn PPP\$.....	398.3	45					
 <b>CREATIVE OUTPUTS.....</b>	<b>43.2</b>	<b>20</b>					
<b>7.1 Intangible assets.....</b>	<b>48.0</b>	<b>45</b>	◇				
7.1.1 Trademarks by origin/bn PPP\$ GDP.....	33.9	72 ○					
7.1.2 Industrial designs by origin/bn PPP\$ GDP.....	1.5	57					
7.1.3 ICTs & business model creation*.....	73.2	24					
7.1.4 ICTs & organizational model creation*.....	77.4	10					
<b>7.2 Creative goods &amp; services.....</b>	<b>28.5</b>	<b>33</b>					
7.2.1 Cultural & creative services exports, % total trade.①	0.6	45					
7.2.2 National feature films/mn pop. 15-69.....	10.1	18					
7.2.3 Entertainment & Media market/th pop. 15-69.....	92.3	3 ● ◆					
7.2.4 Printing & other media, % manufacturing.....	1.2	52					
7.2.5 Creative goods exports, % total trade.....	0.5	60					
<b>7.3 Online creativity.....</b>	<b>48.4</b>	<b>13</b>					
7.3.1 Generic top-level domains (TLDs)/th pop. 15-69.....	50.7	15					
7.3.2 Country-code TLDs/th pop. 15-69.....	56.5	12					
7.3.3 Wikipedia edits/mn pop. 15-69.....	104.3	5 ● ◆					
7.3.4 Mobile app creation/bn PPP\$ GDP.....	16.0	30					

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. ① 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.