

**Key indicators**

Population (millions).....	7.7
GDP (US\$ billions).....	50.8
GDP per capita, PPP\$ .....	14,234.6
Income group.....	Upper-middle income
Region.....	Europe

Score (0–100)  
or value (hard data)

Rank

<b>Global Innovation Index (out of 142)</b>	<b>41.3</b>	<b>41</b>
Innovation Output Sub-Index.....	38.7	38
Innovation Input Sub-Index.....	44.0	50
Innovation Efficiency Ratio.....	0.9	35
Global Innovation Index 2012 (based on GII 2012 framework).....	40.7	43

**1 Institutions..... 68.0 51**

1.1 Political environment.....	61.2	56
1.1.1 Political stability*.....	73.6	51
1.1.2 Government effectiveness* .....	38.7	67
1.1.3 Press freedom*.....	71.4	71
1.2 Regulatory environment.....	77.2	39
1.2.1 Regulatory quality*.....	64.2	45
1.2.2 Rule of law*.....	44.7	65
1.2.3 Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3 Business environment.....	65.5	64
1.3.1 Ease of starting a business* .....	90.9	28
1.3.2 Ease of resolving insolvency*.....	34.3	82
1.3.3 Ease of paying taxes*.....	71.3	60

**2 Human capital & research..... 35.7 55**

2.1 Education.....	55.4	63
2.1.1 Current expenditure on education, % GNI .....	4.4	57
2.1.2 Public expenditure/pupil, % GDP/cap.....	26.6	19 ●
2.1.3 School life expectancy, years.....	14.0	53
2.1.4 PISA scales in reading, maths, & science .....	432.1	43
2.1.5 Pupil-teacher ratio, secondary.....	12.1	44
2.2 Tertiary education.....	42.5	37
2.2.1 Tertiary enrolment, % gross .....	56.9	41
2.2.2 Graduates in science & engineering, % .....	19.8	49
2.2.3 Tertiary inbound mobility, %.....	3.5	43
2.2.4 Gross tertiary outbound enrolment, % .....	4.8	15 ●
2.3 Research & development (R&D).....	9.4	69
2.3.1 Researchers, headcounts/mn pop.....	1,948.8	36
2.3.2 Gross expenditure on R&D, % GDP .....	0.6	54
2.3.3 QS university ranking, average score top 3* .....	0.0	68 ○

**3 Infrastructure..... 40.0 43**

3.1 Information & communication technologies (ICTs).....	35.5	71
3.1.1 ICT access* .....	59.7	49
3.1.2 ICT use* .....	30.4	50
3.1.3 Government's online service* .....	49.0	71
3.1.4 E-participation*.....	2.6	116 ○
3.2 General infrastructure.....	35.2	44
3.2.1 Electricity output, kWh/cap.....	6,103.1	36
3.2.2 Electricity consumption, kWh/cap.....	4,471.3	45
3.2.3 Logistics performance* .....	55.3	36
3.2.4 Gross capital formation, % GDP .....	24.1	57
3.3 Ecological sustainability.....	49.2	18 ●
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq .....	4.9	84
3.3.2 Environmental performance* .....	56.3	51
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP .....	9.2	8 ●

**4 Market sophistication..... 43.9 83**

4.1 Credit.....	40.7	58
4.1.1 Ease of getting credit* .....	75.0	38
4.1.2 Domestic credit to private sector, % GDP .....	72.1	47
4.1.3 Microfinance gross loans, % GDP .....	1.3	33

4.2 Investment .....	17.0	114 ○
4.2.1 Ease of protecting investors* .....	60.4	54
4.2.2 Market capitalization, % GDP .....	15.4	83 ○
4.2.3 Total value of stocks traded, % GDP .....	0.5	85 ○
4.2.4 Venture capital deals/tr PPP\$ GDP .....	0.0	74 ○
4.3 Trade & competition .....	74.0	88
4.3.1 Applied tariff rate, weighted mean, % .....	1.6	11
4.3.2 Non-agricultural mkt access weighted tariff, % .....	2.3	102 ○
4.3.3 Intensity of local competition† .....	55.5	98 ○

**5 Business sophistication ..... 32.2 65**

5.1 Knowledge workers.....	45.2	59
5.1.1 Knowledge-intensive employment, % .....	23.5	50
5.1.2 Firms offering formal training, % firms .....	30.7	64
5.1.3 R&D performed by business, % GDP .....	0.3	41
5.1.4 R&D financed by business, % .....	30.2	52
5.1.5 GMAT mean score .....	578.7	16 ●
5.1.6 GMAT test takers/mn pop. 20–34 .....	358.7	12 ●
5.2 Innovation linkages .....	19.9	100 ○
5.2.1 University/industry research collaboration† .....	33.4	114 ○
5.2.2 State of cluster development† .....	41.2	79
5.2.3 R&D financed by abroad, % .....	8.4	43
5.2.4 JV-strategic alliance deals/tr PPP\$ GDP .....	0.0	73
5.2.5 Patent families filed in 3+ offices/bn PPP\$ GDP .....	0.1	49
5.3 Knowledge absorption .....	31.4	50
5.3.1 Royalty & license fees payments, % service imports .....	2.9	48
5.3.2 High-tech imports less re-imports, % .....	7.8	70
5.3.3 Comm., computer & info. services imports, % .....	7.6	28
5.3.4 FDI net inflows, % GDP .....	4.8	46

**6 Knowledge & technology outputs ..... 35.0 36**

6.1 Knowledge creation .....	17.0	54
6.1.1 Domestic resident patent ap/bn PPP\$ GDP .....	2.8	45
6.1.2 PCT resident patent ap/bn PPP\$ GDP .....	0.3	50
6.1.3 Domestic res utility model ap/bn PPP\$ GDP .....	2.0	18
6.1.4 Scientific & technical articles/bn PPP\$ GDP .....	20.5	47
6.1.5 Citable documents H index .....	129.0	44
6.2 Knowledge impact .....	55.7	8 ●
6.2.1 Growth rate of PPP\$ GDP/worker, % .....	5.5	7 ●
6.2.2 New businesses/th pop. 15–64 .....	7.2	17 ●
6.2.3 Computer software spending, % GDP .....	0.3	37
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP .....	49.5	1 ●
6.2.5 High- & medium-high-tech manufactures, % .....	15.6	59
6.3 Knowledge diffusion .....	23.4	85
6.3.1 Royalty & license fees receipts, % service exports .....	0.2	68
6.3.2 High-tech exports less re-exports, % .....	3.8	48
6.3.3 Comm., computer & info. services exports, % .....	9.7	43
6.3.4 FDI net outflows, % GDP .....	0.4	60

**7 Creative outputs ..... 42.4 49**

7.1 Intangible assets .....	44.7	61
7.1.1 Domestic res trademark reg/bn PPP\$ GDP .....	79.0	16 ●
7.1.2 Madrid trademark registrations/bn PPP\$ GDP .....	2.3	13
7.1.3 ICT & business model creation† .....	51.1	94 ○
7.1.4 ICT & organizational model creation† .....	46.5	92
7.2 Creative goods & services .....	41.6	47
7.2.1 Audio-visual & related services exports, % .....	0.5	25
7.2.2 National feature films/mn pop. 15–69 .....	2.7	50
7.2.3 Paid-for dailies, circulation, % pop. 15–69 .....	19.9	23 ●
7.2.4 Printing & publishing manufactures, % .....	1.5	64 ○
7.2.5 Creative goods exports, % .....	1.4	44
7.3 Online creativity .....	38.5	41
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69 .....	25.9	29
7.3.2 Country-code TLDs/th pop. 15–69 .....	23.1	70
7.3.3 Wikipedia monthly edits/mn pop. 15–69 .....	4,822.0	31
7.3.4 Video uploads on YouTube/pop. 15–69 .....	77.1	52

NOTE: ● indicates a strength; ○ a weakness; \* an index; † a survey question.