

Key indicators

Population (millions).....	8.1
GDP (US\$ billions).....	296.1
GDP per capita, PPP\$.....	33,656.1
Income group.....	High income
Region.....	Northern Africa and Western Asia

	Score 0–100 or value (hard data)	Rank
Global Innovation Index (out of 128).....	52.3	21
Innovation Output Sub-Index.....	46.8	16
Innovation Input Sub-Index.....	57.8	21
Innovation Efficiency Ratio.....	0.8	23
Global Innovation Index 2015 (out of 141).....	53.5	22

1	Institutions.....	67.0	52
1.1	Political environment.....	54.7	55
1.1.1	Political stability & safety*.....	38.1	114 ○
1.1.2	Government effectiveness*.....	71.2	24
1.2	Regulatory environment.....	68.1	58
1.2.1	Regulatory quality*.....	74.7	21
1.2.2	Rule of law*.....	74.7	27
1.2.3	Cost of redundancy dismissal, salary weeks.....	27.4	110 ○
1.3	Business environment.....	78.2	37
1.3.1	Ease of starting a business*.....	90.6	46
1.3.2	Ease of resolving insolvency*.....	72.5	27
1.3.3	Ease of paying taxes*.....	71.7	78 ○
2	Human capital & research.....	55.4	16
2.1	Education.....	53.3	45
2.1.1	Expenditure on education, % GDP [Ⓔ]	5.6	33
2.1.2	Gov't expenditure/pupil, secondary, % GDP/cap [Ⓔ]	15.5	79 ○
2.1.3	School life expectancy, years.....	16.0	31
2.1.4	PISA scales in reading, maths, & science.....	474.1	36
2.1.5	Pupil-teacher ratio, secondary [Ⓔ]	9.8	24
2.2	Tertiary education.....	33.0	73
2.2.1	Tertiary enrolment, % gross.....	66.3	29
2.2.2	Graduates in science & engineering, %.....	n/a	n/a
2.2.3	Tertiary inbound mobility, % [Ⓔ]	1.2	77 ○
2.3	Research & development (R&D).....	80.1	3 ●
2.3.1	Researchers, FTE/mn pop. [Ⓔ]	8,255.4	1 ●
2.3.2	Gross expenditure on R&D, % GDP.....	4.1	2 ●
2.3.3	Global R&D companies, avg. expend. top 3, mn \$US.....	440.5	19
2.3.4	QS university ranking, average score top 3*.....	56.1	22
3	Infrastructure.....	56.1	25
3.1	Information & communication technologies (ICTs).....	77.3	16
3.1.1	ICT access*.....	79.8	23
3.1.2	ICT use*.....	55.7	38
3.1.3	Government's online service*.....	87.4	13
3.1.4	E-participation*.....	86.3	12
3.2	General infrastructure.....	40.0	48
3.2.1	Electricity output, kWh/cap.....	7,003.3	27
3.2.2	Logistics performance*.....	3.3	39
3.2.3	Gross capital formation, % GDP.....	20.7	77 ○
3.3	Ecological sustainability.....	50.9	37
3.3.1	GDP/unit of energy use, 2005 PPP\$/kg oil eq.....	10.4	25
3.3.2	Environmental performance*.....	78.1	48
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	3.0	31
4	Market sophistication.....	56.5	22
4.1	Credit.....	45.2	34
4.1.1	Ease of getting credit*.....	65.0	39
4.1.2	Domestic credit to private sector, % GDP.....	66.9	46
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	58.1	15
4.2.1	Ease of protecting minority investors*.....	73.3	8
4.2.2	Market capitalization, % GDP.....	65.6	28
4.2.3	Total value of stocks traded, % GDP.....	15.5	28
4.2.4	Venture capital deals/bn PPP\$ GDP.....	0.5	1 ●
4.3	Trade, competition, & market scale.....	66.3	49
4.3.1	Applied tariff rate, weighted mean, % [Ⓔ]	0.9	8
4.3.2	Intensity of local competition [†]	57.2	109 ○
4.3.3	Domestic market scale, bn PPP\$.....	272.1	53
5	Business sophistication.....	53.9	6 ●
5.1	Knowledge workers.....	60.5	18
5.1.1	Knowledge-intensive employment, %.....	47.7	7
5.1.2	Firms offering formal training, % firms.....	18.6	82 ○
5.1.3	GERD performed by business, % of GDP.....	3.5	1 ●
5.1.4	GERD financed by business, % [Ⓔ]	36.5	43
5.1.5	Females employed w/advanced degrees, % total [Ⓔ]	28.4	3 ●
5.2	Innovation linkages.....	57.4	3 ●
5.2.1	University/industry research collaboration [†]	75.1	7 ●
5.2.2	State of cluster development [†]	55.7	29
5.2.3	GERD financed by abroad, % [Ⓔ]	48.8	5 ●
5.2.4	JV-strategic alliance deals/bn PPP\$ GDP.....	0.0	22
5.2.5	Patent families 2+ offices/bn PPP\$ GDP.....	5.3	8
5.3	Knowledge absorption.....	43.7	16
5.3.1	Intellectual property payments, % total trade [Ⓔ]	0.5	53
5.3.2	High-tech imports less re-imports, % total trade.....	9.8	33
5.3.3	ICT services imports, % total trade [Ⓔ]	1.2	52
5.3.4	FDI net inflows, % GDP.....	2.2	72
5.3.5	Research talent, % in business enterprise [Ⓔ]	83.7	1 ●
6	Knowledge & technology outputs.....	47.8	12
6.1	Knowledge creation.....	56.4	10
6.1.1	Patents by origin/bn PPP\$ GDP.....	4.1	29
6.1.2	PCT patent applications/bn PPP\$ GDP.....	6.0	7
6.1.3	Utility models by origin/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	45.8	10
6.1.5	Citable documents H index.....	496.0	15
6.2	Knowledge impact.....	40.8	45
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	(0.3)	93 ○
6.2.2	New businesses/th pop. 15–64.....	3.1	36
6.2.3	Computer software spending, % GDP.....	0.3	42
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	32.6	6 ●
6.2.5	High- & medium-high-tech manufactures, % [Ⓔ]	29.0	41
6.3	Knowledge diffusion.....	46.2	14
6.3.1	Intellectual property receipts, % total trade [Ⓔ]	0.6	22
6.3.2	High-tech exports less re-exports, % total trade.....	12.9	16
6.3.3	ICT services exports, % total trade [Ⓔ]	6.5	7 ●
6.3.4	FDI net outflows, % GDP.....	1.2	41
7	Creative outputs.....	45.8	26
7.1	Intangible assets.....	50.3	34
7.1.1	Trademarks by origin/bn PPP\$ GDP.....	13.5	90 ○
7.1.2	Industrial designs by origin/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICTs & business model creation [†]	75.3	15
7.1.4	ICTs & organizational model creation [†]	68.7	20
7.2	Creative goods & services.....	38.5	19
7.2.1	Cultural & creative services exports, % of total trade [Ⓔ]	0.9	12
7.2.2	National feature films/mn pop. 15–69.....	10.8	10
7.2.3	Global ent. & media market/th pop. 15–69.....	32.3	22
7.2.4	Printing & publishing manufactures, % [Ⓔ]	1.3	48
7.2.5	Creative goods exports, % total trade.....	1.7	25
7.3	Online creativity.....	43.9	21
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	24.7	24
7.3.2	Country-code TLDs/th pop. 15–69.....	16.0	34
7.3.3	Wikipedia edits/mn pop. 15–69.....	7,906.3	8
7.3.4	Video uploads on YouTube/pop. 15–69.....	76.7	7

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

Ⓔ indicates that the country's data are older than the base year; see Appendix II for details, including the year of the data.

Square brackets indicate a top 10 or 100 or below sub-pillar ranking in the presence of a relevant number of missing variables; see page 172 of this appendix for details.