

Table 1: Global Innovation Index rankings

Country/Economy	Score (0–100)	Rank	Income	Rank	Region	Rank
Switzerland	68.2	1	HI	1	EUR	1
Sweden	64.8	2	HI	2	EUR	2
Singapore	63.5	3	HI	3	SEAO	1
Finland	61.8	4	HI	4	EUR	3
United Kingdom	61.2	5	HI	5	EUR	4
Netherlands	60.5	6	HI	6	EUR	5
Denmark	59.9	7	HI	7	EUR	6
Hong Kong (China)	58.7	8	HI	8	SEAO	2
Ireland	58.7	9	HI	9	EUR	7
United States of America	57.7	10	HI	10	NAC	1
Luxembourg	57.7	11	HI	11	EUR	8
Canada	56.9	12	HI	12	NAC	2
New Zealand	56.6	13	HI	13	SEAO	3
Norway	56.4	14	HI	14	EUR	9
Germany	56.2	15	HI	15	EUR	10
Malta	56.1	16	HI	16	EUR	11
Israel	56.0	17	HI	17	NAWA	1
Iceland	55.7	18	HI	18	EUR	12
Estonia	55.3	19	HI	19	EUR	13
Belgium	54.3	20	HI	20	EUR	14
Korea, Rep.	53.9	21	HI	21	SEAO	4
Austria	53.1	22	HI	22	EUR	15
Australia	51.9	23	HI	23	SEAO	5
France	51.8	24	HI	24	EUR	16
Japan	51.7	25	HI	25	SEAO	6
Slovenia	49.9	26	HI	26	EUR	17
Czech Republic	49.7	27	HI	27	EUR	18
Cyprus	47.9	28	HI	28	NAWA	2
Spain	47.2	29	HI	29	EUR	19
Latvia	47.0	30	UM	1	EUR	20
Hungary	46.5	31	HI	30	EUR	21
Malaysia	45.9	32	UM	2	SEAO	7
Qatar	45.5	33	HI	31	NAWA	3
China	45.4	34	UM	3	SEAO	8
Portugal	45.3	35	HI	32	EUR	22
Italy	44.5	36	HI	33	EUR	23
United Arab Emirates	44.4	37	HI	34	NAWA	4
Lithuania	44.0	38	UM	4	EUR	24
Chile	42.7	39	UM	5	LCN	1
Slovakia	41.4	40	HI	35	EUR	25
Bahrain	41.1	41	HI	36	NAWA	5
Croatia	40.7	42	HI	37	EUR	26
Bulgaria	40.7	43	UM	6	EUR	27
Poland	40.4	44	HI	38	EUR	28
Montenegro	40.1	45	UM	7	EUR	29
Serbia	40.0	46	UM	8	EUR	30
Oman	39.5	47	HI	39	NAWA	6
Saudi Arabia	39.3	48	HI	40	NAWA	7
Mauritius	39.2	49	UM	9	SSF	1
Moldova, Rep.	39.2	50	LM	1	EUR	31
Russian Federation	37.9	51	UM	10	EUR	32
Romania	37.8	52	UM	11	EUR	33
Brunei Darussalam	37.7	53	HI	41	SEAO	9
South Africa	37.4	54	UM	12	SSF	2
Kuwait	37.2	55	HI	42	NAWA	8
Jordan	37.1	56	UM	13	NAWA	9
Thailand	36.9	57	UM	14	SEAO	10
Brazil	36.6	58	UM	15	LCN	2
Tunisia	36.5	59	UM	16	NAWA	10
Costa Rica	36.3	60	UM	17	LCN	3
Lebanon	36.2	61	UM	18	NAWA	11
Macedonia, FYR	36.2	62	UM	19	EUR	34
Ukraine	36.1	63	LM	2	EUR	35
India	35.7	64	LM	3	CSA	1
Colombia	35.5	65	UM	20	LCN	4
Greece	35.3	66	HI	43	EUR	36
Uruguay	35.1	67	UM	21	LCN	5
Mongolia	35.0	68	LM	4	SEAO	11
Armenia	34.5	69	LM	5	NAWA	12
Argentina	34.4	70	UM	22	LCN	6
Georgia	34.3	71	LM	6	NAWA	13

Table 1: Global Innovation Index rankings (continued)

Country/Economy	Score (0–100)	Rank	Income	Rank	Region	Rank
Bosnia and Herzegovina	34.2	72	UM	23	EUR	37
Namibia	34.1	73	UM	24	SSF	3
Turkey	34.1	74	UM	25	NAWA	14
Peru	34.1	75	UM	26	LCN	7
Viet Nam	33.9	76	LM	7	SEAO	12
Guyana	33.7	77	LM	8	LCN	8
Belarus	32.9	78	UM	27	EUR	38
Mexico	32.9	79	UM	28	LCN	9
Belize	32.5	80	LM	9	LCN	10
Trinidad and Tobago	32.5	81	HI	44	LCN	11
Swaziland	32.0	82	LM	10	SSF	4
Kazakhstan	31.9	83	UM	29	CSA	2
Paraguay	31.6	84	LM	11	LCN	12
Botswana	31.4	85	UM	30	SSF	5
Dominican Republic	30.9	86	UM	31	LCN	13
Panama	30.9	87	UM	32	LCN	14
Morocco	30.7	88	LM	12	NAWA	15
Azerbaijan	30.4	89	UM	33	NAWA	16
Albania	30.4	90	UM	34	EUR	39
Jamaica	30.2	91	UM	35	LCN	15
Ghana	29.6	92	LM	13	SSF	6
El Salvador	29.5	93	LM	14	LCN	16
Sri Lanka	29.1	94	LM	15	CSA	3
Philippines	29.0	95	LM	16	SEAO	13
Kenya	28.9	96	LI	1	SSF	7
Senegal	28.8	97	LM	17	SSF	8
Ecuador	28.5	98	UM	36	LCN	17
Guatemala	28.4	99	LM	18	LCN	18
Indonesia	28.1	100	LM	19	SEAO	14
Fiji	27.9	101	LM	20	SEAO	15
Rwanda	27.9	102	LI	2	SSF	9
Egypt	27.9	103	LM	21	NAWA	17
Iran, Islamic Rep.	27.3	104	UM	37	CSA	4
Nicaragua	26.7	105	LM	22	LCN	19
Gabon	26.5	106	UM	38	SSF	10
Zambia	26.4	107	LM	23	SSF	11
Tajikistan	26.4	108	LI	3	CSA	5
Kyrgyzstan	26.4	109	LI	4	CSA	6
Mozambique	26.3	110	LI	5	SSF	12
Honduras	26.3	111	LM	24	LCN	20
Bangladesh	26.1	112	LI	6	CSA	7
Nepal	26.0	113	LI	7	CSA	8
Bolivia, Plurinational St.	25.8	114	LM	25	LCN	21
Zimbabwe	25.7	115	LI	8	SSF	13
Lesotho	25.7	116	LM	26	SSF	14
Uganda	25.6	117	LI	9	SSF	15
Venezuela, Bolivarian Rep.	25.4	118	UM	39	LCN	22
Mali	25.4	119	LI	10	SSF	16
Malawi	25.4	120	LI	11	SSF	17
Cameroon	25.0	121	LM	27	SSF	18
Burkina Faso	24.6	122	LI	12	SSF	19
Nigeria	24.6	123	LM	28	SSF	20
Algeria	24.4	124	UM	40	NAWA	18
Benin	24.4	125	LI	13	SSF	21
Madagascar	24.2	126	LI	14	SSF	22
Uzbekistan	23.9	127	LM	29	CSA	9
Tanzania, United Rep.	23.9	128	LI	15	SSF	23
Cambodia	23.4	129	LI	16	SEAO	16
Gambia	23.3	130	LI	17	SSF	24
Ethiopia	23.3	131	LI	18	SSF	25
Syrian Arab Rep.	23.1	132	LM	30	NAWA	19
Pakistan	23.1	133	LM	31	CSA	10
Côte d'Ivoire	22.6	134	LM	32	SSF	26
Angola	22.2	135	LM	33	SSF	27
Togo	20.5	136	LI	19	SSF	28
Burundi	20.5	137	LI	20	SSF	29
Lao PDR	20.2	138	LM	34	SEAO	17
Yemen	19.2	139	LM	35	NAWA	20
Niger	18.6	140	LI	21	SSF	30
Sudan	16.8	141	LM	36	SSF	31

Note: World Bank Income Group Classification (April 2012): LI = low income; LM = lower-middle income; UM = upper-middle income; and HI = high income. Regions are based on the United Nations Classification (20 September 2011): EUR = Europe; NAC = Northern America; LCN = Latin America and the Caribbean; CSA = Central and Southern Asia; SEAO = South East Asia and Oceania; NAWA = Northern Africa and Western Asia; and SSF = Sub-Saharan Africa.

Key indicators

Population (millions)	22.5
GDP per capita, PPP\$	40,836.4
GDP (US\$ billions)	1,507.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141)	51.9	23
Innovation Output Sub-Index	40.4	31
Innovation Input Sub-Index	63.4	13
Innovation Efficiency Index	0.6	107 ○
Global Innovation Index 2011 (out of 125)		21
GII 2012 rank among GII 2011 economies (125)		22

1 Institutions	90.0	10 ●
1.1 Political environment	88.1	12 ●
1.1.1 Political stability*.....	85.0	26
1.1.2 Government effectiveness*.....	88.7	9 ●
1.1.3 Press freedom*.....	90.5	27
1.2 Regulatory environment	93.5	14
1.2.1 Regulatory quality*.....	93.8	11
1.2.2 Rule of law*.....	94.7	11
1.2.3 Cost of redundancy dismissal, salary weeks.....	11.7	49
1.3 Business environment	88.4	8 ●
1.3.1 Ease of starting a business*.....	99.2	2 ●
1.3.2 Ease of resolving insolvency*.....	92.8	11
1.3.3 Ease of paying taxes*.....	73.3	38
2 Human capital & research	53.3	24
2.1 Education	59.4	39
2.1.1 Current expenditure on education, % GNI.....	4.5	53
2.1.2 Public expenditure/pupil, % GDP/cap.....	19.1	66 ○
2.1.3 School life expectancy, years.....	19.2	2 ●
2.1.4 PISA scales in reading, maths, & science.....	518.8	9
2.1.5 Pupil-teacher ratio, secondary.....	n/a	n/a
2.2 Tertiary education	46.8	29
2.2.1 Tertiary enrolment, % gross.....	75.9	11
2.2.2 Graduates in science & engineering, %.....	17.7	64 ○
2.2.3 Tertiary inbound mobility, %.....	21.5	8
2.2.4 Gross tertiary outbound enrolment, %.....	0.6	88 ○
2.3 Research & development (R&D)	53.6	16
2.3.1 Researchers, headcounts/mn pop.....	4,224.3	22
2.3.2 Gross expenditure on R&D, % GDP.....	2.3	13
2.3.3 Quality of scientific research institutions†.....	74.7	13
3 Infrastructure	56.3	13
3.1 Information & communication technologies (ICT)	75.1	11
3.1.1 ICT access*.....	72.2	23
3.1.2 ICT use*.....	65.7	9 ●
3.1.3 Government's online service*.....	86.3	9
3.1.4 E-participation*.....	76.3	8 ●
3.2 General infrastructure	60.2	9 ●
3.2.1 Electricity output, kWh/cap.....	11,526.8	11
3.2.2 Electricity consumption, kWh/cap.....	10,789.8	12
3.2.3 Quality of trade & transport infrastructure*.....	69.5	18
3.2.4 Gross capital formation, % GDP.....	27.5	25
3.3 Ecological sustainability	33.6	59
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.7	60
3.3.2 Environmental performance*.....	56.6	47
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP.....	1.7	49
4 Market sophistication	63.2	11
4.1 Credit	65.6	12
4.1.1 Ease of getting credit*.....	87.6	8
4.1.2 Domestic credit to private sector, % GDP.....	127.8	19
4.1.3 Microfinance gross loans, % GDP.....	n/a	n/a

4.2 Investment	57.4	11
4.2.1 Ease of protecting investors*.....	58.2	48
4.2.2 Market capitalization, % GDP.....	136.1	11
4.2.3 Total value of stocks traded, % GDP.....	82.4	11
4.2.4 Venture capital deals/tr PPP\$ GDP.....	59.8	21
4.3 Trade & competition	66.7	51
4.3.1 Applied tariff rate, weighted mean, %.....	1.9	42
4.3.2 Non-agricultural mkt access weighted tariff, %.....	1.0	73
4.3.3 Imports of goods & services, % GDP.....	21.6	131 ○
4.3.4 Exports of goods & services, % GDP.....	19.8	126 ○
4.3.5 Intensity of local competition†.....	81.2	6 ●
5 Business sophistication	54.0	20
5.1 Knowledge workers	79.0	7 ●
5.1.1 Knowledge-intensive employment, %.....	42.9	11
5.1.2 Firms offering formal training, % firms.....	n/a	n/a
5.1.3 R&D performed by business, %.....	60.8	22
5.1.4 R&D financed by business, %.....	61.4	13
5.1.5 GMAT mean score.....	590.5	6 ●
5.1.6 GMAT test takers/mn pop. 20–34.....	171.8	33
5.2 Innovation linkages	45.3	36
5.2.1 University/industry research collaboration†.....	69.2	13
5.2.2 State of cluster development†.....	49.4	36
5.2.3 R&D financed by abroad, %.....	1.7	76 ○
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP.....	154.5	6 ●
5.2.5 PCT patent filings with foreign inventor, %.....	29.0	66 ○
5.3 Knowledge absorption	37.8	61
5.3.1 Royalty & license fees payments/th GDP.....	2.9	34
5.3.2 High-tech imports less re-imports, %.....	13.9	25
5.3.3 Computer & comm. service imports, %.....	26.7	75
5.3.4 FDI net inflows, % GDP.....	2.9	60
6 Knowledge & technology outputs	34.9	43
6.1 Knowledge creation	43.7	31
6.1.1 Domestic resident patent ap/bn PPP\$ GDP.....	2.7	46
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	1.9	23
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	1.3	26
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	22.2	10 ●
6.2 Knowledge impact	37.8	50
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	1.0	93 ○
6.2.2 New businesses/th pop. 15–64.....	6.4	14
6.2.3 Computer software spending, % GDP.....	0.3	30
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP.....	9.9	47
6.3 Knowledge diffusion	23.3	83 ○
6.3.1 Royalty & license fees receipts/th GDP.....	0.7	38
6.3.2 High-tech exports less re-exports, %.....	2.2	59
6.3.3 Computer & comm. service exports, %.....	22.5	84 ○
6.3.4 FDI net outflows, % GDP.....	1.7	27
7 Creative outputs	45.9	23
7.1 Creative intangibles	43.4	59
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	47.0	36
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	1.1	20
7.1.3 ICT & business model creation†.....	65.4	23
7.1.4 ICT & organizational model creation†.....	63.0	21
7.2 Creative goods & services	33.7	37
7.2.1 Recreation & culture consumption, %.....	11.3	6 ●
7.2.2 National feature films/mn pop. 15–69.....	2.9	38
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	158.3	33
7.2.4 Creative goods exports, %.....	0.5	89 ○
7.2.5 Creative services exports, %.....	7.1	29
7.3 Online creativity	63.4	12
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	73.9	11
7.3.2 Country-code TLDs/th pop. 15–69.....	69.7	15
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	6,958.9	24
7.3.4 Video uploads on YouTube/pop. 15–69.....	74.5	15