



QATAR

68th

Qatar ranks 68th among the 132 economies featured in the GII 2021.

The Global Innovation Index (GII) ranks world economies according to their innovation capabilities. Consisting of roughly 80 indicators, grouped into innovation inputs and outputs, the GII aims to capture the multi-dimensional facets of innovation.

The following table shows the rankings of Qatar over the past three years, noting that data availability and changes to the GII model framework influence year-on-year comparisons of the GII rankings. The statistical confidence interval for the ranking of Qatar in the GII 2021 is between ranks 67 and 71.

Rankings for Qatar (2019–2021)

	GII	Innovation inputs	Innovation outputs
2021	68	64	70
2020	70	64	72
2019	65	53	70

- Qatar performs better in innovation inputs than innovation outputs in 2021.
- This year Qatar ranks 64th in innovation inputs, the same as last year but lower than 2019.
- As for innovation outputs, Qatar ranks 70th. This position is higher than last year but the same as 2019.

45th

Qatar ranks 45th among the 51 high-income group economies.

7th

Qatar ranks 7th among the 19 economies in Northern Africa and Western Asia.

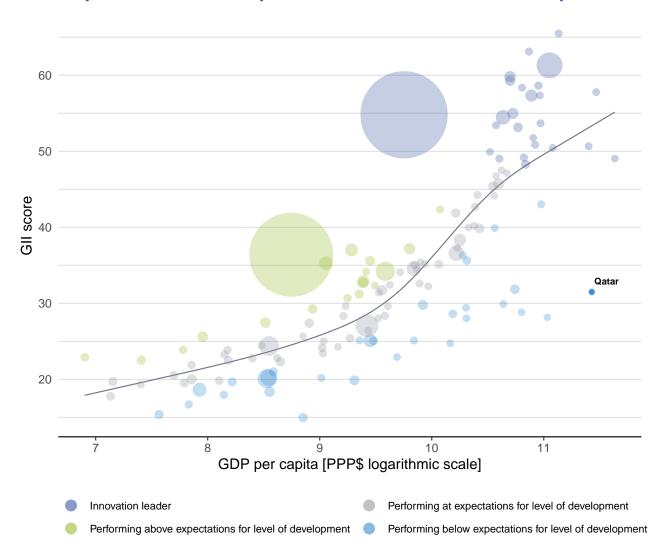


EXPECTED VS. OBSERVED INNOVATION PERFORMANCE

The bubble chart below shows the relationship between income levels (GDP per capita) and innovation performance (GII score). The trend line gives an indication of the expected innovation performance according to income level. Economies appearing above the trend line are performing better than expected and those below are performing below expectations.

Relative to GDP, Qatar's performance is below expectations for its level of development.

The positive relationship between innovation and development



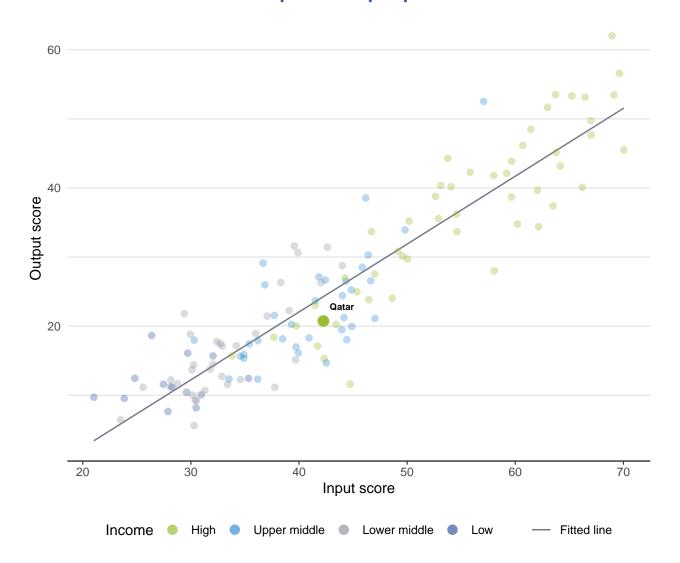




The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.

Qatar produces less innovation outputs relative to its level of innovation investments.

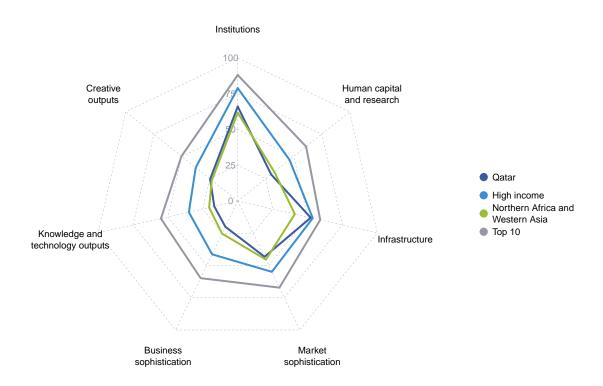
Innovation input to output performance





BENCHMARKING AGAINST OTHER HIGH-INCOME GROUP ECONOMIES AND NORTHERN AFRICA AND WESTERN ASIA

The seven GII pillar scores for Qatar



High-income group economies

Qatar performs below the high-income group average in all GII pillars.

Northern Africa and Western Asia

Qatar performs above the regional average in three pillars, namely: Institutions; Infrastructure; and, Creative outputs.



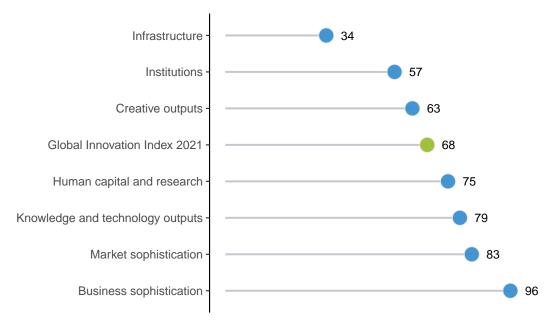




OVERVIEW OF RANKINGS IN THE SEVEN GII 2021 AREAS

Qatar performs best in Infrastructure and its weakest performance is in Business sophistication.

The seven GII pillar ranks for Qatar



Note: The highest possible ranking in each pillar is one.





The table below gives an overview of the strengths and weaknesses of Qatar in the GII 2021.

Strengths and weaknesses for Qatar

Strengths				Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank		
2.2.3	Tertiary inbound mobility, %	1	2.1.1	Expenditure on education, % GDP	105		
3.2	General infrastructure	2	2.3.3	Global corporate R&D investors, top 3, mn US\$	41		
3.2.1	Electricity output, GWh/mn pop.	6	4.1.1	Ease of getting credit	101		
3.2.2	Logistics performance	29	4.2	Investment	128		
4.1.2	Domestic credit to private sector, % GDP	24	4.2.1	Ease of protecting minority investors	124		
4.2.2	Market capitalization, % GDP	17	4.2.4	Venture capital recipients, deals/bn PPP\$ GDP	89		
5.2.1	University-industry R&D collaboration	14	5.1	Knowledge workers	118		
5.3.3	ICT services imports, % total trade	9	5.2.3	GERD financed by abroad, % GDP	93		
6.2.2	New businesses/th pop. 15–64	26	5.3.1	Intellectual property payments, % total trade	102		
7.1.2	Global brand value, top 5,000, % GDP	20	5.3.4	FDI net inflows, % GDP	123		
7.2.2	National feature films/mn pop. 15–69	4	6.2.1	Labor productivity growth, %	109		
			7.1.1	Trademarks by origin/bn PPP\$ GDP	121		

Qatar

Output rank Input rank

68

GII 2020 rank

70	64	High	NAWA		2.9	257.5	91,897		70
			Score/ Value	Rank				Score/ Value	Rank
<u>iii</u> Ins	titutions		66.0	57 <	> =	Business sophistica	ation	19.9	96
1.1 Poli 1.2 Gov	itical environment tical and operational sta vernment effectiveness*	ıbility*	69.2 75.0 66.3	41 40 39	E 1 0	Firms offering formal train	ing, %	n/a	86
2.1 Reg 2.2 Rule	gulatory environment gulatory quality* e of law*		66.8 61.3 66.1	61 < 40 36	5.1.4 5.1.5	GERD performed by busine GERD financed by busine Females employed w/adv	ss, %	9.3 4.5	77 96
Bus	st of redundancy dismiss siness environment e of starting a business'		23.2 62.0 86.1	98 < 84 <	5.2.1 5.2.2	Innovation linkages University-industry R&D o	ent and depth†	22.8 65.4 54.1	14 38
	e of resolving insolvenc		38.0	107 < 75 <	5.2.4	GERD financed by abroac Joint venture/strategic allia Patent families/bn PPP\$ 0	nce deals/bn PPP\$ GDP	0.0 0.1 0.0	93 34 69
Edu	ucation enditure on education,		40.1 2.7	94 < 105 O <	5.3.2	Knowledge absorption Intellectual property paym High-tech imports, % total	al trade	7.5	68
.3 Sch .4 PIS	remment funding/pupil, s nool life expectancy, yea A scales in reading, mat	rs hs and science	p n/a 12.3 413.5	n/a 89 〈 60 〈	5.3.4	ICT services imports, % to FDI net inflows, % GDP Research talent, % in bus		2.9 -0.7 16.1	9 123 57
. Ter	oil-teacher ratio, secondati tiary education tiary enrolment, % gross	•	11.8 42.0 18.9	47 37 98 <		Knowledge and te	chnology outputs	16.8	
.2 Gra	duates in science and e tiary inbound mobility, %	ngineering, %	24.2 35.3 7.4	43 1 • •	6.1 6.1.1 6.1.2	PCT patents by origin/bn	PPP\$ GDP	8.7 0.2 0.1	87 102 66
.1 Res .2 Gro	search and developme searchers, FTE/mn pop. sss expenditure on R&D,	% GDP	② 577.3 ② 0.5 0.0	67 < 63 < 66 41 0 <	6.1.4	Utility models by origin/br Scientific and technical ar Citable documents H-inde	ticles/bn PPP\$ GDP	n/a 12.2 10.2	70
.4 QS	bal corporate R&D inves university ranking, top 3		12.6	61	6.2 6.2.1	Knowledge impact Labor productivity growth New businesses/th pop. 1		30.0 -2.6 6.3	
Info	rastructure mationandcommunica	tion technologies (ICTs		57	6.2.4	Software spending, % GE ISO 9001 quality certificat High-tech manufacturing,	tes/bn PPP\$ GDP	0.3 3.1 34.7	32 73 35
.2 ICT .3 Gov	access* use* /ernment's online servic articipation*	e*	79.8 72.1 65.9 65.5	34 41 76 < 77 <	6.3.2	Knowledge diffusion Intellectual property recei Production and export co	mplexity	11.8 n/a 36.7	n/a 74
.1 Elec	neral infrastructure ctricity output, GWh/mn pistics performance*	рор.	64.4 17,222.5 66.3	2 ● 	6.3.4	High-tech exports, % total		0.3 1.1	96 79
	ss capital formation, % blogical sustainability	GDP	n/a 21.7	n/a 89 <		Creative outputs		24.7	63
i.1 GDI i.2 Env i.3 ISO	P/unit of energy use ironmental performance 14001 environmental cer	tificates/bn PPP\$ GDI	7.7 37.1	94 99 51	7.1.1	Global brand value, top 5, Industrial designs by origi	,000, % GDP n/bn PPP\$ GDP	32.7 5.0 97.5 n/a 63.9	20
ĭ Ma	rket sophisticatio	n	43.2	83	7.2 7.2.1	Creative goods and service Cultural and creative service		20.4 0.3	
2 Don	edit e of getting credit* nestic credit to private s rofinance gross loans, 9		43.2 45.0 100.9 n/a	55 101 ○ < 24 ● n/a	7.2.2 7.2.3 7.2.4	National feature films/mn Entertainment and media Printing and other media, Creative goods exports, 9	pop. 15–69 market/th pop. 15–69 % manufacturing	23.0 19.6 0.7	4
.1 Eas .2 Mar	estment e of protecting minority ket capitalization, % GI ture capital investors, d)P	15.6 28.0 87.0 0.0	128 ○ < 124 ○ < 17 ● 60	7.3 7.3.1 7.3.2	Online creativity Generic top-level domains Country-code TLDs/th po	s (TLDs)/th pop. 15–69 p. 15–69	12.9 3.4 2.6	81 60
2.4 Ven	ture capital investors, on ture capital recipients, on de, diversification, and blied tariff rate, weighted	leals/bn PPP\$ GDP I market scale	② 0.0 70.8 3.5	89 ○ 59 67		Wikipedia edits/mn pop. 1 Mobile app creation/bn Pl		45.8 0.4	73 83
3.2 Don	nestic industry diversific nestic market scale, bn	ation	81.8 257.5	72 59					

Region

Income

Population (mn)

GDP, PPP\$ (bn)

GDP per capita, PPP\$

NOTES: • indicates a strength; \bigcirc a weakness; • an income group strength; \bigcirc an income group weakness; * an index; † a survey question. \bigcirc indicates that the economy's data are older than the base year; see Appendix IV 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.





The following tables list data that are either missing or outdated for Qatar.

Missing data for Qatar

Code	Indicator name	Economy year	Model year	Source
2.1.2	Government funding/pupil, secondary, % GDP/cap	n/a	2017	UNESCO Institute for Statistics
3.2.3	Gross capital formation, % GDP	n/a	2020	International Monetary Fund
4.1.3	Microfinance gross loans, % GDP	n/a	2018	Microfinance Information Exchange
5.1.2	Firms offering formal training, %	n/a	2019	World Bank
6.1.3	Utility models by origin/bn PPP\$ GDP	n/a	2019	World Intellectual Property Organization
6.3.1	Intellectual property receipts, % total trade	n/a	2019	World Trade Organization
7.1.3	Industrial designs by origin/bn PPP\$ GDP	n/a	2019	World Intellectual Property Organization

Outdated data for Qatar

Code	Indicator name	Economy year	Model year	Source
2.3.1	Researchers, FTE/mn pop.	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.3.2	Gross expenditure on R&D, % GDP	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
4.2.4	Venture capital recipients, deals/bn PPP\$ GDF	2019	2020	Refinitiv Eikon
5.1.1	Knowledge-intensive employment, %	2017	2019	International Labour Organization
5.1.3	GERD performed by business, % GDP	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
5.1.5	Females employed w/advanced degrees, %	2013	2019	International Labour Organization
5.3.1	Intellectual property payments, % total trade	2010	2019	World Trade Organization



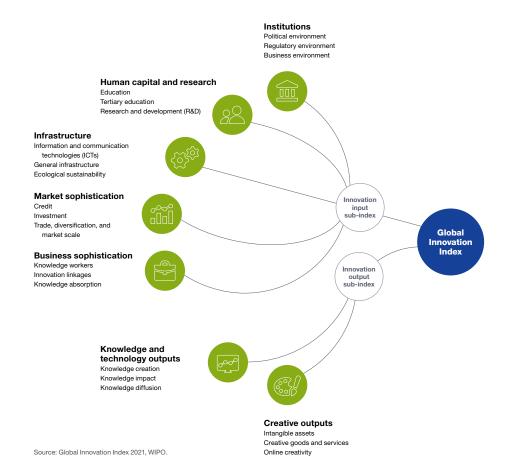






The Global Innovation Index (GII) is published by the World Intellectual Property Organization (WIPO), a specialized agency of the United Nations.

Recognizing that innovation is a key driver of economic development, the GII aims to provide an innovation ranking and rich analysis referencing around 130 economies. Over the last decade, the GII has established itself as both a leading reference on innovation and a "tool for action" for economies that incorporate the GII into their innovation agendas.



The Index is a ranking of the innovation capabilities and results of world economies. It measures innovation based on criteria that include institutions, human capital and research, infrastructure, credit, investment, linkages; the creation, absorption and diffusion of knowledge; and creative outputs.

The GII has two sub-indices: the Innovation Input Sub-Index and the Innovation Output Sub-Index, and seven pillars, each consisting of three sub-pillars.