

KUWAIT

72nd

Kuwait ranks 72nd 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 Kuwait 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 Kuwait in the GII 2021 is between ranks 72 and 78.

Rankings for Kuwait (2019–2021)

	GII	Innovation inputs	Innovation outputs
2021	72	73	73
2020	78	73	79
2019	60	75	56

- Kuwait performs equally in innovation inputs and outputs in 2021.
- This year Kuwait ranks 73rd in innovation inputs, the same as last year but higher than 2019.
- As for innovation outputs, Kuwait ranks 73rd. This position is higher than last year but lower than 2019.

46th

Kuwait ranks 46th among the 51 high-income group economies.

10th

Kuwait ranks 10th among the 19 economies in Northern Africa and Western Asia.

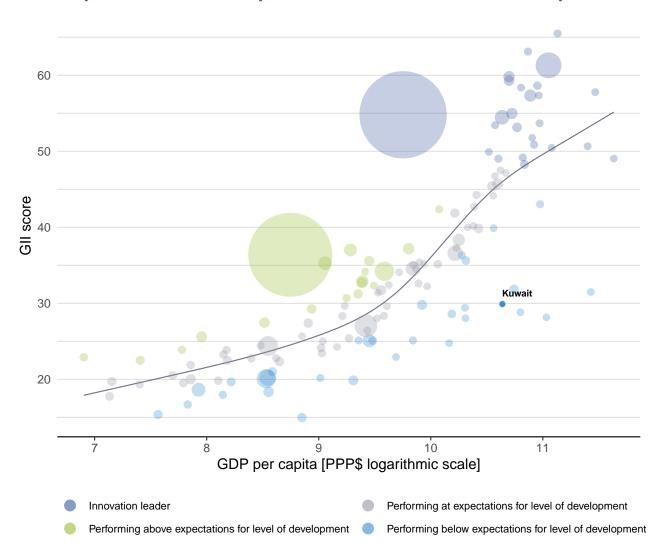




The bubble chart below shows the relationship between income levels (GDP per capita) and innovation performance (GII score). The trend line gives an indication of the expected innovation performance according to income level. Economies appearing above the trend line are performing better than expected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

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

The positive relationship between innovation and development



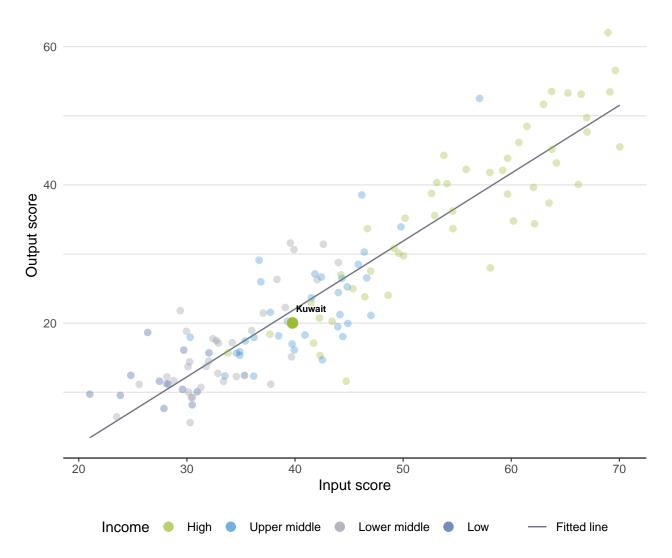




The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.

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

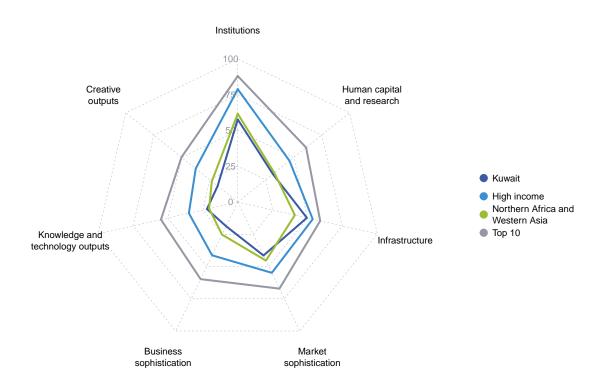
Innovation input to output performance





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

The seven GII pillar scores for Kuwait



High-income group economies

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

Northern Africa and Western Asia

Kuwait performs above the regional average in two pillars, namely: Infrastructure; and, Knowledge and technology outputs.



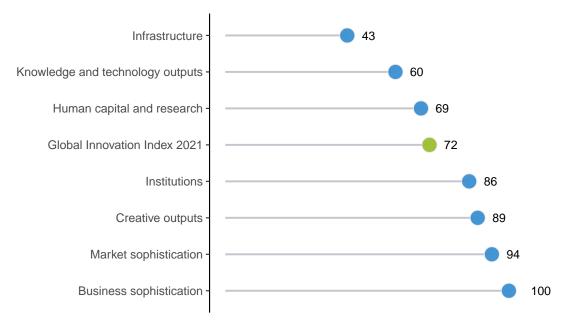




OVERVIEW OF RANKINGS IN THE SEVEN GII 2021 AREAS

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

The seven GII pillar ranks for Kuwait



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





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

Strengths and weaknesses for Kuwait

Strengths				Weaknesses				
Code	Indicator name	Rank	Code	Indicator name	Rank			
2.1.5	Pupil-teacher ratio, secondary	4	1.2.3	Cost of redudancy dismissal	116			
3.1	Information and communication technologies (ICTs)	31	2.3.2	Gross expenditure on R&D, % GDP	111			
3.1.1	ICT access	35	2.3.3	Global corporate R&D investors, top 3, mn US\$	41			
3.1.3	Government's online service	31	4.2.4	Venture capital recipients, deals/bn PPP\$ GDP	84			
3.1.4	E-participation	18	4.3.2	Domestic industry diversification	105			
3.2	General infrastructure	27	5.1.4	GERD financed by business, %	94			
3.2.1	Electricity output, GWh/mn pop.	4	5.3	Knowledge absorption	124			
4.1.2	Domestic credit to private sector, % GDP	30	5.3.1	Intellectual property payments, % total trade	125			
5.2.2	State of cluster development and depth	37	5.3.4	FDI net inflows, % GDP	122			
6.2.2	New businesses/th pop. 15–64	27	6.1.1	Patents by origin/bn PPP\$ GDP	116			
6.2.3	Software spending, % GDP	26	7.2.4	Printing and other media, % manufacturing	97			
6.3	Knowledge diffusion	31						
6.3.4	ICT services exports, % total trade	6						

72

GII 2020 rank

Kuwait

Output rank Input rank

-		input rank	income	Region		-		GDP, PPP\$ (bn)	GDP per capita, PPP\$	- GII	2020		лк —
•	73	73	High	NAWA		4.	.3	203.8	41,735		78	3	
				Score/	Rank					Scor	re/ ue Ra	ank	
m	Institu	tions		57.7	86	\Diamond	•	Business sophist	tication		.7 1		\Diamond
1.1		l environment		54.9	78	\Diamond	5.1	Knowledge workers		47	.4[10	251	
1.1.1		and operational	stability*	62.5	89	\langle	5.1.1	Knowledge-intensive	employment, %	Ø 22		70	\Diamond
1.1.2	Governn	nent effectivenes	ss*	51.1	73	\Diamond		Firms offering formal to				n/a	
1.2		ory environmer	nt	54.5	97	\Diamond		GERD performed by b GERD financed by bus	•			n/a 94 ∈) ()
1.2.1	Regulate Rule of la	ory quality* aw*		45.2 52.4	67 53	\Diamond		Females employed w/a				n/a	/ \
		redundancy dism	nissal	28.1	116		5.2	Innovation linkages		25	.1	45	
1.3	Busines	s environment		63.8	90	\Diamond		University-industry R&		42		69	
		starting a busine		88.4	67			State of cluster develo GERD financed by abr	•	54 n		37 € n/a	,
1.3.2	Ease of I	resolving insolve	ncy"	39.2	101	\Diamond			alliance deals/bn PPP\$ GDP			45	
• •	Humai	n capital and	research	31.4	[69]			Patent families/bn PPF				93	
		•	rescaren				5.3	Knowledge absorption				24 (25 (
2.1 2.1.1	Educati		~ 0/ CDD		[57]			Intellectual property pa High-tech imports, %				05	, 🗸
	•	ture on educatio nent funding/pub	n, % GDP il, secondary, % GDP/ca	n/a 17.3 ⊈ p	n/a 64			ICT services imports,				96	\Diamond
		ife expectancy, y		Ø 14.7	59	\Diamond		FDI net inflows, % GDI				22)
2.1.4		0,	naths and science	n/a			5.3.5	Research talent, % in I	ousinesses	n	/a ı	n/a	
		acher ratio, seco	ndary	Ø 7.6		• •	مهمر	Knowledge and	technology outputs	22	4	60	
2.2 2.2.1	-	education enrolment, % gro	oss	38.4 55.3	[47] 54			Tillowicage and	teermology outputs		'	00	
2.2.2	Graduat	es in science and	d engineering, %	n/a			6.1	Knowledge creation	DD¢ CDD			08	\Diamond
2.2.3	Tertiary i	inbound mobility	r, %	n/a	n/a			Patents by origin/bn Pl PCT patents by origin/				116 (72)
2.3		ch and develop		2.8	89	\Diamond		Utility models by origin				n/a	
		hers, FTE/mn po penditure on R8	•	② 513.9 ② 0.1	67 111	00			al articles/bn PPP\$ GDP			03	\Diamond
			vestors, top 3, mn US\$	0.0		0 0		Citable documents H-i	index			82	\Diamond
2.3.4	QS unive	ersity ranking, to	p 3*	4.4	71	\Diamond	6.2 6.2.1	Knowledge impact Labor productivity gro	wth. %	29 –1		67 86	
								New businesses/th po				27	•
Ą٣	Intrast	tructure		49.6	43			Software spending, %				26 • 79	•
3.1			cation technologies (ICT			-		ISO 9001 quality certif High-tech manufacturi		23		79 53	
3.1.1	ICT acce			79.3	35 53		6.3	Knowledge diffusion	•	31		31 €	
3.1.2	ICT use* Governn	nent's online ser	vice*	67.6 84.1	31			Intellectual property re				n/a	
3.1.4				90.5	18	-		Production and export		27		99	\Diamond
3.2	General	l infrastructure		41.4		-		High-tech exports, % t ICT services exports, 9			.3 1 '.4	03 6 •	\langle
3.2.1		ty output, GWh/r	nn pop.	17,912.3		• •		,			-		•
		s performance* apital formation,	% GDP	37.8 25.1	62 46	\Diamond	@!	Creative outputs		18.	.0	89	\Diamond
3.3		cal sustainabili		26.9	74	\Diamond	7.1			26	Ω	80	^
3.3.1	GDP/uni	it of energy use		8.4	87			Intangible assets Trademarks by origin/b	on PPP\$ GDP	② 16		80 98	\Diamond
		mental performar		53.6	45	\Diamond		Global brand value, to		53		34	
3.3.3	150 1400) i environmental	certificates/bn PPP\$ GD	P 1.2	64			Industrial designs by o	•			n/a 70	^
***	Marke	t sophisticat	ion	41.4	94	\Diamond	7.1.4 7.2	ICTs and organizationa Creative goods and s		50 4		79 1 07	\Diamond
11111		- John Strout							rvices exports, % total trade			n/a	~
4.1 4.1.1	Credit	getting credit*		40.7 45.0		\Diamond	7.2.2	National feature films/r	mn pop. 15–69	1	.9	70	\Diamond
			e sector, % GDP	Ø 89.3	30			Entertainment and me	dia market/th pop. 15-69	10		36 97 (\Diamond
		ance gross loans		n/a				Creative goods export	,			88	/ \
4.2	Investm			26.2	78		7.3	Online creativity		13		78	\Diamond
4.2.1		protecting minor capitalization, %		66.0	50 n/a				ains (TLDs)/th pop. 15-69	7	'.6	44	
			, deals/bn PPP\$ GDP	n/a 0.0	n/a 41			Country-code TLDs/th Wikipedia edits/mn po		0 46		05 72	\Diamond
		•	s, deals/bn PPP\$ GDP	0.0	84	0		Mobile app creation/bi			.8	74	~
4.3			and market scale		104	\Diamond							
4.3.1		tariff rate, weight		4.5 53.6	80 105								
		ic industry divers ic market scale, b		53.6 203.8		$\cup \lor$							

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. \oslash 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 Kuwait.

Missing data for Kuwait

Code	Indicator name	Economy year	Model year	Source
2.1.1	Expenditure on education, % GDP	n/a	2017	UNESCO Institute for Statistics
2.1.4	PISA scales in reading, maths and science	n/a	2018	OECD Programme for International Student Assessment (PISA)
2.2.2	Graduates in science and engineering, %	n/a	2018	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.2.3	Tertiary inbound mobility, %	n/a	2018	UNESCO Institute for Statistics
4.1.3	Microfinance gross loans, % GDP	n/a	2018	Microfinance Information Exchange
4.2.2	Market capitalization, % GDP	n/a	2019	World Federation of Exchanges
5.1.2	Firms offering formal training, %	n/a	2019	World Bank
5.1.3	GERD performed by business, % GDP	n/a	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
5.1.5	Females employed w/advanced degrees, %	n/a	2019	International Labour Organization
5.2.3	GERD financed by abroad, % GDP	n/a	2018	UNESCO Institute for Statistics
5.3.5	Research talent, % in businesses	n/a	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
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
7.2.1	Cultural and creative services exports, % total trade	n/a	2019	World Trade Organization





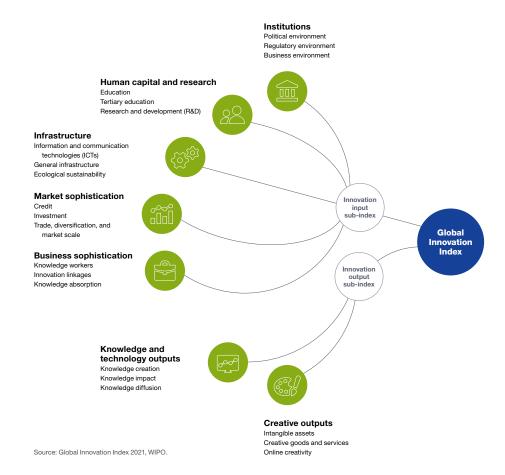
Code	Indicator name	Economy year	Model year	Source
2.1.2	Government funding/pupil, secondary, % GDP/cap	2014	2017	UNESCO Institute for Statistics
2.1.3	School life expectancy, years	2015	2018	UNESCO Institute for Statistics
2.1.5	Pupil-teacher ratio, secondary	2015	2019	UNESCO Institute for Statistics
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
4.1.2	Domestic credit to private sector, % GDP	2018	2019	International Monetary Fund
5.1.1	Knowledge-intensive employment, %	2016	2019	International Labour Organization
5.1.4	GERD financed by business, %	2014	2018	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
5.3.1	Intellectual property payments, % total trade	2014	2019	World Trade Organization
6.1.1	Patents by origin/bn PPP\$ GDP	2018	2019	World Intellectual Property Organization
7.1.1	Trademarks by origin/bn PPP\$ GDP	2018	2019	World Intellectual Property 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.