

OMAN

80th Oman ranks 80th among the 129 economies featured in the GII 2019.

The Global Innovation Index (GII) is a ranking of world economies based on 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 Oman over the past three years, noting that data availability and the GII model influence year-on-year comparisons of the GII ranks. The confidence interval for Oman's ranking in the GII 2019 is between 76 and 88.

	GII	Innovation Inputs	Innovation Outputs
2019	80	57	101
2018	69	57	75
2017	77	62	90

Oman's Rankings, 2017 - 2019

- Oman performs better in Innovation Inputs than Outputs.
- This year Oman ranks 57th in Innovation Inputs, the same as last year and better compared to 2017.
- As for Innovation Outputs, Oman ranks 101st. This position is worse than last year and compared to 2017.



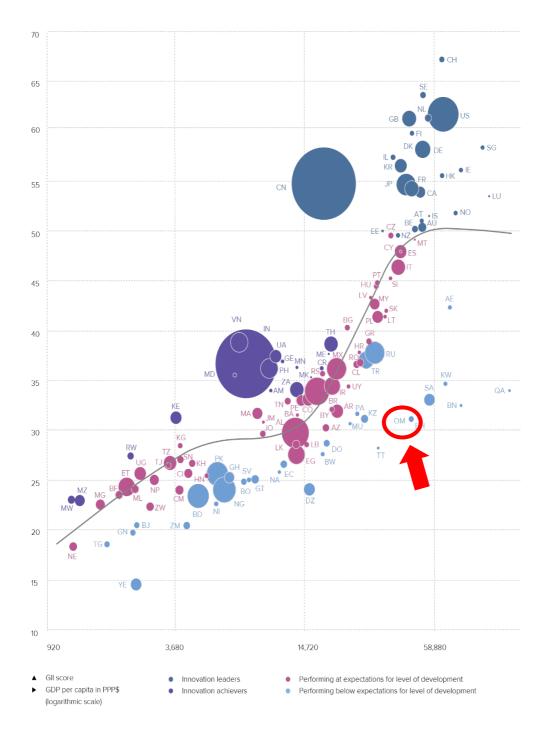
Oman ranks 13th among the 19 economies in Northern Africa and Western Asia.

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 considered Innovation under-performers relative to GDP.

Relative to GDP, Oman performs below its expected level of development.

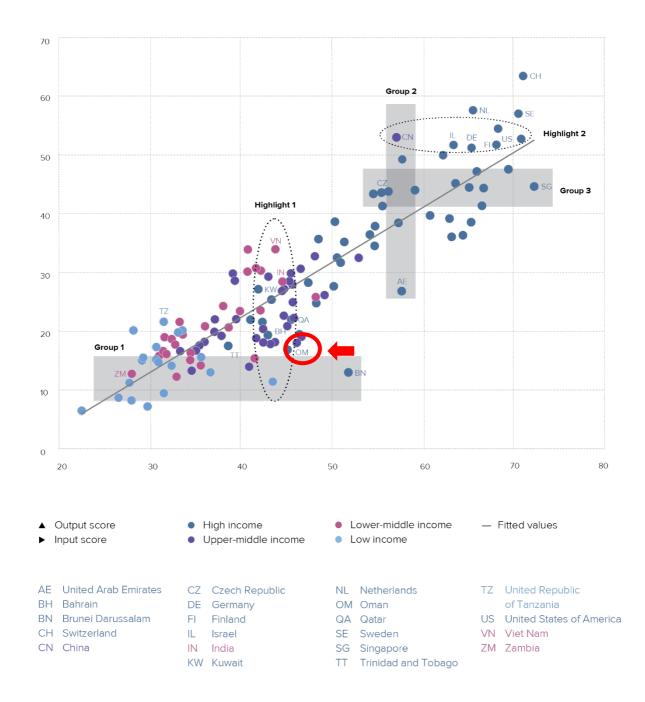
GII scores and GDP per capita in PPP US\$ (bubbles sized by population)



EFFECTIVELY TRANSLATING INNOVATION INVESTMENTS INTO INNOVATION OUTPUTS

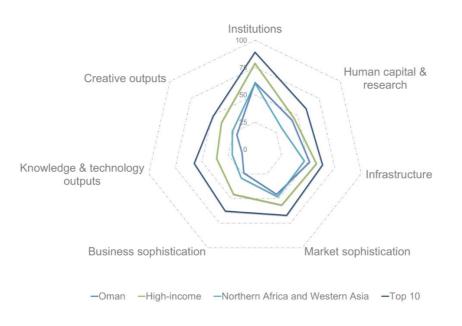
The chart below shows the relationship between innovation inputs and innovation outputs, indicating which economies best translate innovation inputs into innovation outputs. Economies appearing above the line are effectively translating their costly innovation investments into more and higher-quality outputs. In contrast, those below the line are not effectively translating innovation inputs into outputs.

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



Innovation input/output performance by income group, 2019

BENCHMARKING OMAN TO OTHER HIGH-INCOME ECONOMIES AND THE NORTHERN AFRICA AND WESTERN ASIA REGION



Oman's scores in the seven GII pillars

High-income economies

Oman scores below the income group average in all the 7 GII pillars.

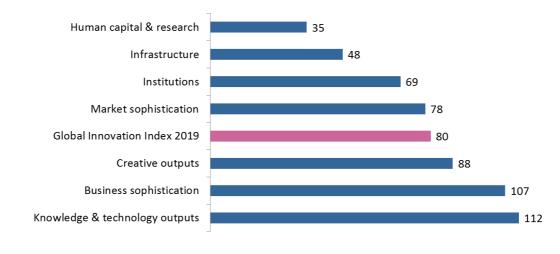
Northern Africa and Western Asia Region

Compared to other economies in the Northern Africa and Western Asia, Oman performs above average in 3 out of the 7 GII pillars: Institutions, Human capital & research, and Infrastructure.

Top ranks are found in sub-pillars Political environment, Education, Tertiary education, Information and communication technologies (ICTs), and General infrastructure where the country ranks in the top 50 worldwide.

OVERVIEW OF OMAN'S RANKINGS IN THE 7 GII AREAS

Oman performs the best in Human capital & research and its weakest performance is in Knowledge & technology outputs.



*The highest possible ranking in each pillar is 1.

OMAN'S INNOVATION STRENGTHS AND WEAKNESSES

The table below gives an overview of Oman's strengths and weaknesses in the GII 2019.

Strengths					
Code	Indicator name Ra				
1.3.1	Ease of starting a business* 34				
2.1	Education	10			
2.1.1	Expenditure on education, % GDP	12			
2.1.2	2.1.2 Government funding/pupil, secondary, % 9 GDP/cap				
2.1.5	Pupil-teacher ratio, secondary 29				
2.2	Tertiary education 4				
2.2.2	Graduates in science & engineering, % 1				
3.2	General infrastructure 24				
3.2.1	3.2.1 Electricity output, kWh/mn pop 25				
3.2.3	2.3 Gross capital formation, % GDP 16				
4.3.1	Applied tariff rate, weighted mean, %	21			
5.2.2	State of cluster development ⁺ 24				
5.2.4	JV–strategic alliance deals/bn PPP\$ GDP	27			

Weaknesses				
Code	Code Indicator name			
2.3.3	Global R&D companies, top 3, in mn US\$	43		
4.1.1	Ease of getting credit*	110		
5.2.3	GERD financed by abroad, % 99			
5.3	Knowledge absorption	126		
5.3.3	ICT services imports, % total trade	114		
5.3.5	Research talent, % in business enterprise 79			
6	Knowledge & technology outputs	112		
6.1.1	Patents by origin/bn PPP\$ GDP	120		
6.2	Knowledge impact	112		
6.2.1	Growth rate of PPP\$ GDP/worker, %, 3-year average	110		
6.3.2	High-tech net exports, % total trade	109		
7.1.2	Industrial designs by origin/bn PPP\$ GDP	109		
7.2.4	Printing & other media, % manufacturing	89		

STRENGTHS

- Gll strengths for Oman are found in five of the seven Gll pillars.
- All of them are concentrated on the innovation input side of the GII, which measures the investments that countries make to produce more and better innovations.
- Many of these relative strengths are in Human capital & research (35), the best ranked GII pillar for Oman. Here strengths are sub-pillars Education (10) and Tertiary education (4) and four of their indicators: Expenditure on education (12), Government funding per pupil (9), Pupil-teacher ratio (29), and Graduates in science & engineering. In the latter, Oman ranks 1st in the world.
- In Institutions (69), Oman's strength is indicator Ease of starting a business (34).
- In Infrastructure (48), Oman's strengths are sub-pillar General infrastructure (24) and two of its indicators: Electricity output (25) and Gross capital formation (16).
- In Market sophistication (78), indicator Applied tariff rate (21) is a GII strength for Oman.
- In Business sophistication (107), Oman's strengths are indicators State of cluster development (24) and Joint-Venture strategic alliance deals (27).

WEAKNESSES

- Oman's weaknesses are found in five of the seven GII pillars.
- Pillar Knowledge & technology outputs (112) is a notable GII weaknesses for the country.
- In Knowledge & technology outputs (112), several of Oman's weaknesses are present. These are sub-pillar Knowledge impact (112) and indicators Patents by origin (120), Labor productivity growth (110), and High-tech exports (109).
- Other four weaknesses are found in Business sophistication (107). These are sub-pillar Knowledge absorption (126) as well as indicators R&D financed by abroad (99), ICT services imports (114), and Research talent (79).
- In Creative outputs (88), relative weaknesses are indicators Industrial designs by origin (109) and Printing & other media (89).
- The other GII weaknesses for Oman are indicators Global R&D companies (43) in Human capital & research (35) and Ease of getting credit (110) in Market sophistication (78).



80

Outp	ut rank	Input rank	Income	Region		Рор	ulation (mn) GDP, PPP\$	GDP per capita, PPP\$	GII 2	018 r	an
101		57	High	NAWA		4.8		198.2	46,584.0	69		
			Score	e/Value	Rank				Sco	re/Value	Rank	
	INSTITU	JTIONS		61.5	69	\$	4	BUSINESS SOPH	STICATION	23.8	107	
	-	· .					54					
			ability*		49 35	\diamond	5.1 5.1.1		employment, %.		[86] 77	-
2			**		57	\diamond	5.1.2	•	training, % firms		n/a	
2	Governin	ient encetiveness		51.0	57	~	5.1.2	•	ousiness, % GDP		64	
2	Regulato	orv environment.		55.5	97	\diamond	5.1.4		siness, %		49	
.1					50	\diamond	5.1.5	,	//advanced degrees, %		n/a	
.2	Rule of la	W*		57.8	45	\diamond						
2.3	Cost of re	edundancy dismis	sal, salary weeks	n/a	n/a		5.2				67	
							5.2.1	, ,	search collaboration ⁺		38	
3			*		72	^	5.2.2		opment ⁺		24	
		0	*		34		5.2.3 5.2.4		vroad, % deals/bn PPP\$ GDP		99 27	
8.2	Edse of f	esolving insolven	су*	42.3	88	\diamond	5.2.4		ices/bn PPP\$ GDP		86	
							5.2.5			0.0	80	
	HUMAN		ESEARCH	43.3	35		5.3	Knowledge absorpti	on	18.0	126	(
							5.3.1		payments, % total trade		n/a	
1					10		5.3.2	0	total trade			
.1			% GDP			• •	5.3.3		% total trade		114	
			secondary, % GDP/cap			• •	5.3.4		P		98	
			Brs		58		5.3.5	кesearch talent, % in	business enterprise	0.8	79	'
		0	ths, & science lary		n/a 29	•						
	. apiriedi	Second		10.0	29	•	5	KNOWLEDGE & T	ECHNOLOGY OUTPUTS.	12.3	112	C
2	Tertiary	education		61.4	4	• •						Ľ
2.1	Tertiary e	enrolment, % gros	s.@	44.6	66	\diamond	6.1	Knowledge creation		4.2	104	
			gineering, %			• •	6.1.1	, ,	PPP\$ GDP			
2.3	Tertiary in	nbound mobility, S	%	2.9	63		6.1.2		1/bn PPP\$ GDP		70	
_							6.1.3		in/bn PPP\$ GDP		n/a	
			(R&D)		82 75	\diamond	6.1.4 6.1.5		articles/bn PPP\$ GDP -index		105 88	
			, % GDP		88	\diamond	0.1.5		-IIIdex	6.1	00	
			g. exp. top 3, mn US\$			oò	6.2	Knowledge impact		20.1	112	. (
			age score top 3*		65	\$	6.2.1		GDP/worker, %		110	
		, ,					6.2.2	New businesses/th p	op. 15-64	2.1	48	
e 1							6.2.3	Computer software s	pending, % GDP	0.1	101	
Х.		TRUCTURE					6.2.4		ficates/bn PPP\$ GDP		71	
							6.2.5	High- & medium-high	-tech manufactures, %	0.2	61	
			ation technologies(ICTs)		42 38		6.3	Knowledge diffusion	۱	12.6	89	
					50 52	\diamond	6.3.1		eceipts, % total trade		n/a	
			ce*		43	~	6.3.2		s, % total trade		109	
					43		6.3.3	5	% total trade		108	
							6.3.4	FDI net outflows, % G	DP	1.5	41	
2					24							
			рор7		25	•	.*.					
			GDP		42	• •	Ť.	CREATIVE OUTPU	JTS	21.5	88	
د.ب	UIUSS Cd	pitai iomiation, %		31.3	10	• •	7.1	Intangible assets			74	
3	Ecologic	al sustainability		30.0	95	\diamond	7.1.1		/bn PPP\$ GDP		36	
	-				84	-	7.1.2		origin/bn PPP\$ GDP		109	
3.2	Environm	iental performanc	e*	51.3	94	\diamond	7.1.3		el creation†		70	
3.3	ISO 1400	1 environmental c	ertificates/bn PPP\$ GDP	1.2	62		7.1.4	ICTs & organizational	model creation ⁺	52.5	71	I
							7 0	Creative goods 9	nicos	6.0	~-	
1	MARKE		TION	45 5	78	\diamond	7.2 7.2.1	-	rvices ervices exports, % total trade		97 n/a	
	MARKE	- SOFTISTICA			-70		7.2.1		/mn pop. 15-69		79	
1	Credit			35.0	67	\diamond	7.2.3		ia market/th pop. 15-69		48	
			•			0 \$	7.2.4		a, % manufacturing	0.6		
			sector, % GDP		42		7.2.5	Creative goods expo	rts, % total trade	0.5	58	į.
.3	Microfina	nce gross loans, s	% GDP	n/a	n/a							
2	Investor	 +		20.0	04		7.3				85	
			nvestors*		94	~	7.3.1		mains (TLDs)/th pop. 15-69		84 106	
		· · · · ·	P		101 35	\diamond	7.3.2 7.3.3		h pop. 15-69 op. 15-69 [©]		106 77	
			PP\$ GDP		n/a		7.3.3 7.3.4		bn PPP\$ GDP		n/a	
	2			170	, u		, .o. r	eshe app creation/		170	i i/ Ci	
			rket scale		53							
			d avg., %		21	•						
			on [†]		76							
3.3	Lomoctic	markot scalo hn	PPP\$	100 2	62							

NOTES: • Indicates a strength; O a weakness; • an income group strength; > an income group weakness; * an index; * a survey question. • indicates that the economy's data are older than the base year; see Appendix II 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.

DATA AVAILABILITY

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

Missing data

Code	Indicator name	Country year	Model year	Source
1.2.3	Cost of redundancy dismissal, salary weeks	n/a	2018	World Bank
2.1.4	PISA scales in reading, maths & science	n/a	2015	OECD Programme for International Student Assessment (PISA)
4.1.3	Microfinance gross loans, % GDP	n/a	2017	Microfinance Information Exchange
4.2.3	Venture capital deals/bn PPP\$ GDP	n/a	2018	Thomson Reuters
5.1.2	Firms offering formal training, % firms	n/a	2013	World Bank
5.1.5	Females employed w/advanced degrees, %	n/a	2017	International Labour Organization
5.3.1	Intellectual property payments, % total trade	n/a	2017	World Trade Organization
6.1.3	Utility models by origin/bn PPP\$ GDP	n/a	2017	World Intellectual Property Organization
6.3.1	Intellectual property receipts, % total trade	n/a	2017	World Trade Organization
7.2.1	Cultural & creative services exports, % total trade	n/a	2017	World Trade Organization
7.3.4	Mobile app creation/bn PPP\$ GDP	n/a	2018	App Annie

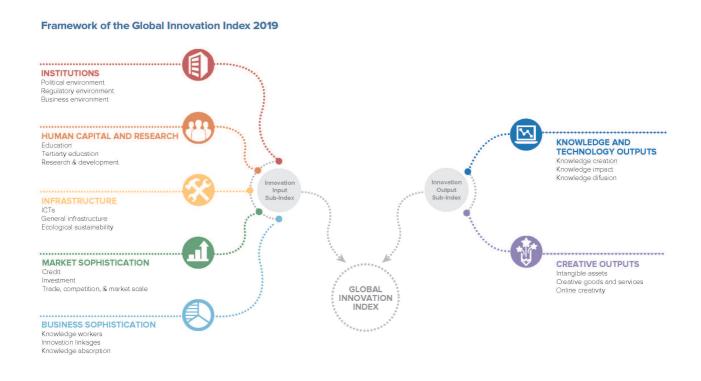
Outdated data

Code	Indicator name	Country	Model	Source
		year	year	
2.2.1	Tertiary enrolment, % gross	2016	2017	UNESCO Institute for Statistics
4.1.2	Domestic credit to private sector, % GDP	2016	2017	International Monetary Fund
5.1.1	Knowledge-intensive employment, %	2016	2017	Source: International Labour Organization
7.3.3	Wikipedia edits/mn pop. 15–69	2014	2017	Wikimedia Foundation

ABOUT THE GLOBAL INNOVATION INDEX

The Global Innovation Index (GII) is co-published by Cornell University, INSEAD, and the World Intellectual Property Organization (WIPO), a specialized agency of the United Nations. In 2019, the GII presents its 12th edition devoted to the theme **Creating Healthy Lives—The Future of Medical Innovation**.

Recognizing that innovation is a key driver of economic development, the GII aims to provide a rich innovation ranking and 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 countries 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 includes 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 containing three sub-pillars.





