



2020

2019

## **OMAN**

## 76th Oman ranks 76th 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 Oman 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 Oman in the GII 2021 is between ranks 73 and 79.

GII	Innovation inputs	Innovation output			
76	67	90			
	GII	GII Innovation inputs			

68

57

uts

109

101

#### Rankings for Oman (2019–2021)

• Oman performs better in innovation inputs than innovation outputs in 2021.

84

80

- This year Oman ranks 67th in innovation inputs, higher than last year but lower than 2019.
- As for innovation outputs, Oman ranks 90th. This position is higher than both 2020 and 2019.

**47th** Oman ranks 47th among the 51 high-income group economies.

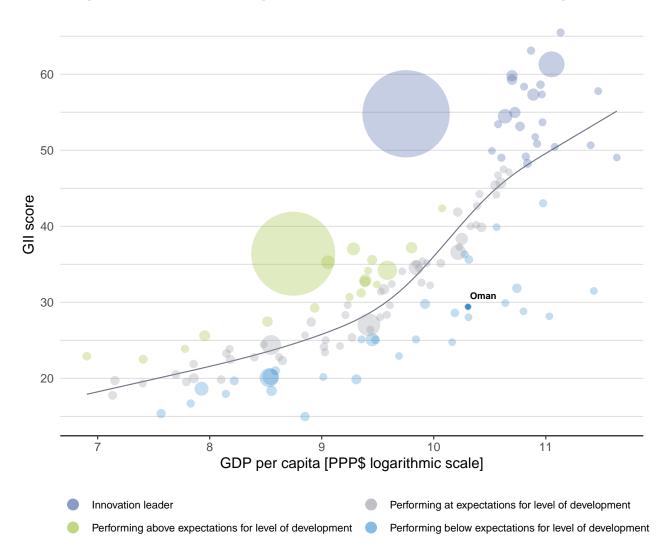
# **11th** Oman ranks 11th among the 19 economies in Northern Africa and Western Asia.



## **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, Oman's performance is below expectations for its level of development.



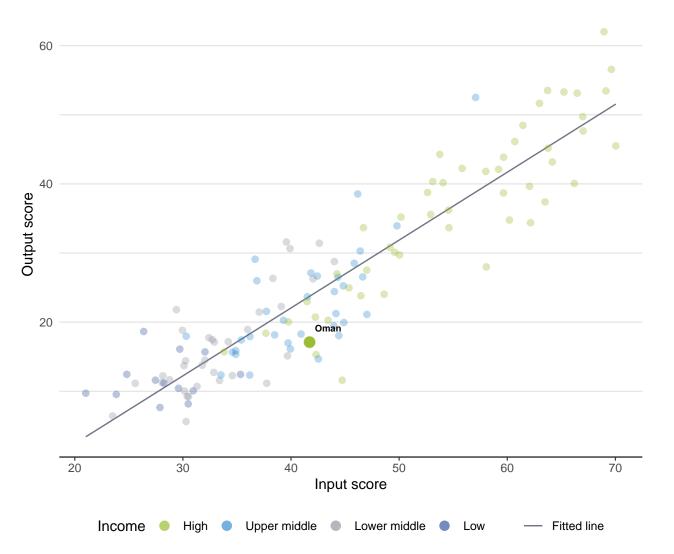
#### The positive relationship between innovation and development



# EFFECTIVELY TRANSLATING INNOVATION INVESTMENTS INTO INNOVATION OUTPUTS

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.

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

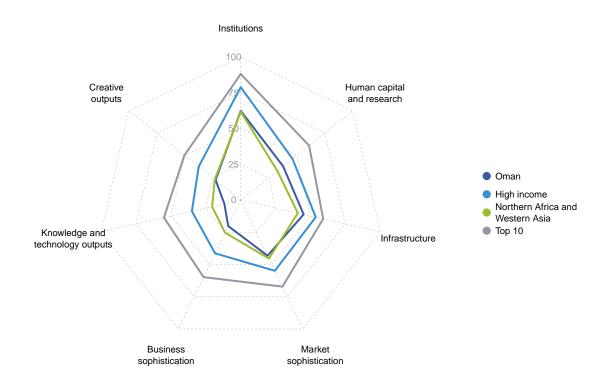


#### Innovation input to output performance



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

## The seven GII pillar scores for Oman



#### High-income group economies

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

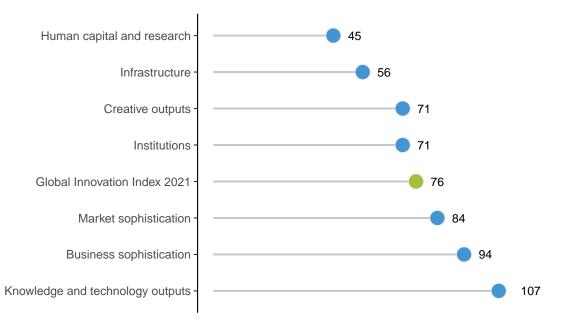
#### Northern Africa and Western Asia

Oman performs above the regional average in three pillars, namely: Institutions; Human capital and research; and, Infrastructure.



## **OVERVIEW OF RANKINGS IN THE SEVEN GII 2021 AREAS**

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



#### The seven GII pillar ranks for Oman

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



## **INNOVATION STRENGTHS AND WEAKNESSES**

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

## Strengths and weaknesses for Oman

Strengths				Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank		
1.3.1	Ease of starting a business	30	2.3.3	Global corporate R&D investors, top 3, mn US\$	41		
2.1.2	Government funding/pupil, secondary, % GDP/cap	13	4.1.1	Ease of getting credit	118		
2.2	Tertiary education	10	5.2.3	GERD financed by abroad, % GDP	88		
2.2.2	Graduates in science and engineering, %	1	5.3	Knowledge absorption	121		
3.1.1	ICT access	30	5.3.2	High-tech imports, % total trade	106		
3.1.3	Government's online service	24	5.3.3	ICT services imports, % total trade	117		
3.2.1	Electricity output, GWh/mn pop.	24	5.3.5	Research talent, % in businesses	85		
4.3.1	Applied tariff rate, weighted avg., %	23	6.2	Knowledge impact	107		
5.2.2	State of cluster development and depth	21	6.2.3	Software spending, % GDP	102		
5.3.4	FDI net inflows, % GDP	18	6.3.4	ICT services exports, % total trade	113		
7.1.1	Trademarks by origin/bn PPP\$ GDP	22	7.1.3	Industrial designs by origin/bn PPP\$ GDP	114		
7.3.4	Mobile app creation/bn PPP\$ GDP	23	7.2.4	Printing and other media, % manufacturing	89		

## Oman

GII 2021 rank

76

	Input rank	Income	Region	- opi		on (mn)		GDP per capita, PPP\$	GII 20	
90	67	High	NAWA		5.1	1	129.2	29,908	:	84
			Score/						Score/	
🖬 Institu	utions		Value 62.3	Rank 71	$\diamond$		Business sophist	tication	Value 20.2	Rank 94
	al environment and operational s	stabilitv*	<b>62.0</b> 73.2	<b>52</b> 44	$\diamond$		Knowledge workers Knowledge-intensive	employment, %	<b>22.4</b>	[ <b>95</b> ] 84
	ment effectivenes		56.4	57	$\diamond$	5.1.2 F	Firms offering formal to	raining, %	n/a	n/a
Regula	tory environmen	ıt	56.2	91	$\diamond$		GERD performed by b		0.1	66
2.1 Regulat 2.2 Rule of	ory quality*		51.1 61.3	57 41	$\diamond$		GERD financed by bus Females employed w/a		31.8 n/a	57 n/a
	redundancy dism	issal	n/a	n/a			nnovation linkages	<b>U</b>	23.7	52
B Busine	ss environment		68.7	73	$\diamond$		University-industry R&		51.5	37
	starting a busines		93.5	30 •			State of cluster develo GERD financed by abr		62.5 0.0	21 88
3.2 Ease of	resolving insolver	ncy^	44.0	88	$\diamond$			alliance deals/bn PPP\$ GDP	0.1	30
9 Huma	n capital and	research	37.9	45		5.2.5 I	Patent families/bn PPF	P\$ GDP	0.0	97
	-	Toocuron					Knowledge absorption	<b>on</b> ayments, % total trade	<b>14.5</b> n/a	<b>121</b> n/a
.1 Expend	i <b>on</b> iture on educatior	% GDP	56.6 ⊘ 5.0	<b>44</b> 41			High-tech imports, %		D 5.5	106
		l, secondary, % GDP/ca		13 ●	٠		CT services imports,		0.3	117
	life expectancy, y		14.3	66	$\diamond$		FDI net inflows, % GD Research talent, % in I		5.4 D 0.3	18 85
	ales in reading, m acher ratio, secor		n/a 10.6	n/a 35		0.0.0			0.0	00
	v education	iddi y	52.8		•	****	Knowledge and	technology outputs	11.7	107
2.1 Tertiary	enrolment, % gro		40.4	73	$\diamond$	_			74	96
	tes in science and inbound mobility,		44.5 2.8	1 ● 67	•		Knowledge creation Patents by origin/bn P	PP\$ GDP	<b>7.1</b> 0.2	90 94
-	ch and develop		2.0 <b>4.3</b>	81	$\diamond$	6.1.2 I	PCT patents by origin/	bn PPP\$ GDP	0.1	67
	chers, FTE/mn po		281.2		$\diamond$		Utility models by origir	n/bn PPP\$ GDP al articles/bn PPP\$ GDP	n/a 9.9	n/a 86
	xpenditure on R&		Ø 0.2	90	$\diamond$		Citable documents H-		7.5	87
	corporate R&D inv rersity ranking, top	vestors, top 3, mn US\$	0.0 9.7	41 ⊖ 65	$\diamond$	6.2 I	Knowledge impact		19.4	107
	orony running, top		0.1	00			Labor productivity gro		-1.7	96
🕫 Infras	tructure		45.1	56	$\diamond$		New businesses/th po Software spending, %		1.4 0.0	72 102
Informa	tion and communi	cation technologies (ICTs	s) 79.7	33		6.2.4 I	SO 9001 quality certif	icates/bn PPP\$ GDP	4.5	59
.1 ICT acc		cation technologies (ich	80.3	30 •			High-tech manufacturi	•	17.5	67
.2 ICT use			69.8		$\diamond$		Knowledge diffusion Intellectual property re		<b>8.8</b> n/a	<b>99</b> n/a
.3 Govern .4 E-partic	ment's online serv	/ice <sup>_</sup>	85.3 83.3	24 • 38			Production and export		32.7	82
•	I infrastructure		33.5	46			High-tech exports, %		D 0.8	78
	ity output, GWh/n	nn pop.	7,801.0	24 🜒		0.3.4 1	CT services exports,		0.3	113
	s performance*	% GDP	53.4 22.0	42 68		æ!	Creative outputs		22.5	71
	ical sustainabilit		21.9	87	$\diamond$					=0
3.1 GDP/ur	it of energy use	-	7.5	98	Ť		I <b>ntangible assets</b> Trademarks by origin/l	on PPP\$ GDP	<b>34.5</b> 78.2	<b>53</b> 22
	mental performar	ice* certificates/bn PPP\$ GDI	38.5	91 50	$\diamond$	7.1.2 (	Global brand value, to	p 5,000, % GDP	10.4	60
1.3 1.30 140	orenvironmentar	er unicales/ DITFFF GDI	P 1.7	50			ndustrial designs by o CTs and organization		0.1 52.5	114 72
Marke	et sophisticat	ion	43.2	84			Creative goods and s		5.0	105
					Â	7.2.1 (	Cultural and creative se	rvices exports, % total trade	n/a	n/a
Credit .1 Ease of	getting credit*		<b>32.6</b> 35.0	<b>99</b> 118 〇	$\diamond$		National feature films/	mn pop. 15–69 dia market/th pop. 15–69	1.1 5.0	82 48
.2 Domest	tic credit to private		75.1	42			Printing and other med		5.0 0.5	40 89
	nance gross loans	, % GDP	n/a	n/a			Creative goods export	· •	0.4	65
Investrict 1 Investrict 1	nent protecting minori	ty investors*	<b>24.4</b> 56.0	<b>88</b> 82			Online creativity	-l (TID-)///	15.8	70
	capitalization, %		25.4	62 52			Generic top-level dom Country-code TLDs/th	ains (TLDs)/th pop. 15–69	1.6 0.3	86 106
	•	deals/bn PPP\$ GDP	0.0	45		7.3.3 \	Wikipedia edits/mn po	p. 15–69	39.3	85
		, deals/bn PPP\$ GDP	n/a	n/a		7.3.4 I	Mobile app creation/b	n PPP\$ GDP	23.7	23
	diversification, a tariff rate, weight	nd market scale ed avg %	<b>72.5</b> 1.7	54 23 ●						
	tic industry divers	ification	88.0	59						
		on PPP\$	129.2	76						

NOTES:  $\bullet$  indicates a strength;  $\bigcirc$  a weakness;  $\bullet$  an income group strength;  $\diamondsuit$  an income group weakness; \* an index;  $^{\dagger}$  a survey question.  $\emptyset$  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.



## DATA AVAILABILITY

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

## Missing data for Oman

Code	Indicator name	Economy year	Model year	Source
1.2.3	Cost of redudancy dismissal	n/a	2019	World Bank
2.1.4	PISA scales in reading, maths and science	n/a	2018	OECD Programme for International Student Assessment (PISA)
4.1.3	Microfinance gross loans, % GDP	n/a	2018	Microfinance Information Exchange
4.2.4	Venture capital recipients, deals/bn PPP\$ GDF	n/a	2020	Refinitiv Eikon
5.1.2	Firms offering formal training, %	n/a	2019	World Bank
5.1.5	Females employed w/advanced degrees, %	n/a	2019	International Labour Organization
5.3.1	Intellectual property payments, % total trade	n/a	2019	World Trade Organization
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
7.2.1	Cultural and creative services exports, % total trade	n/a	2019	World Trade Organization

## **Outdated data for Oman**

Code	Indicator name	Economy year	Model year	Source
2.1.1	Expenditure on education, % GDP	2013	2017	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
5.1.1	Knowledge-intensive employment, %	2016	2019	International Labour Organization



Code	Indicator name	Economy year	Model year	Source
5.1.3	GERD performed by business, % GDP	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
5.3.2	High-tech imports, % total trade	2018	2019	United Nations, COMTRADE
5.3.5	Research talent, % in businesses	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
6.3.3	High-tech exports, % total trade	2018	2019	United Nations, COMTRADE
7.2.5	Creative goods exports, % total trade	2018	2019	United Nations, COMTRADE

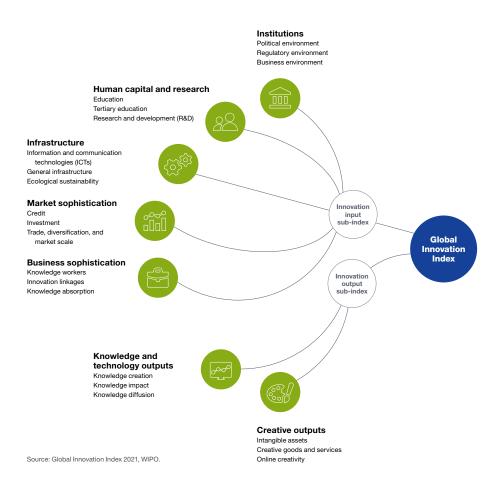
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## ABOUT THE GLOBAL INNOVATION INDEX

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.