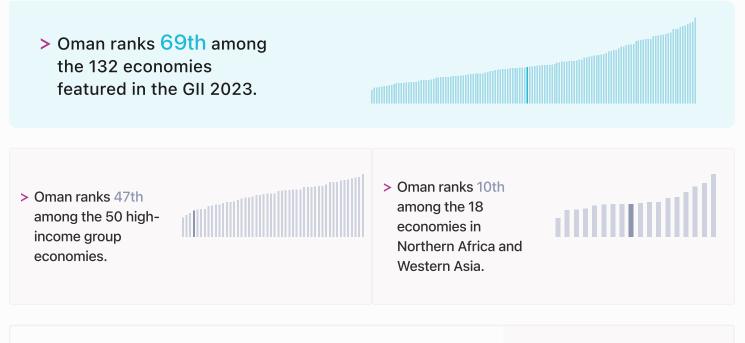


The Global Innovation Index (GII) ranks world economies according to their innovation capabilities.

Consisting of **roughly 80 indicators**, grouped into innovation inputs and outputs, the GII **aims to capture the multi-dimensional facets of innovation**.

Oman ranking in the Global Innovation Index 2023



> Oman GII Ranking (2020-2023)

The table shows the rankings of Oman over the past four years. 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 2023 is between ranks 67 and 74.

	GII Position	Innovation Inputs	Innovation Outputs
2020	84th	68th	109th
2021	76th	67th	90th
2022	79th	62nd	87th
2023	69th	65th	78th

Oman performs worse in innovation outputs than innovation inputs in 2023.

This year Oman ranks 65th in innovation inputs. This position is lower than last year.

Oman ranks 78th in innovation outputs. This position is higher than last year.



→ Expected vs. observed innovation performance

> Innovation overperformers relative to their economic development

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.



Innovation leader Performing above expectations for level of development Performing at expectations for level of development Performing below expectations for level of development

Size legend (Population)

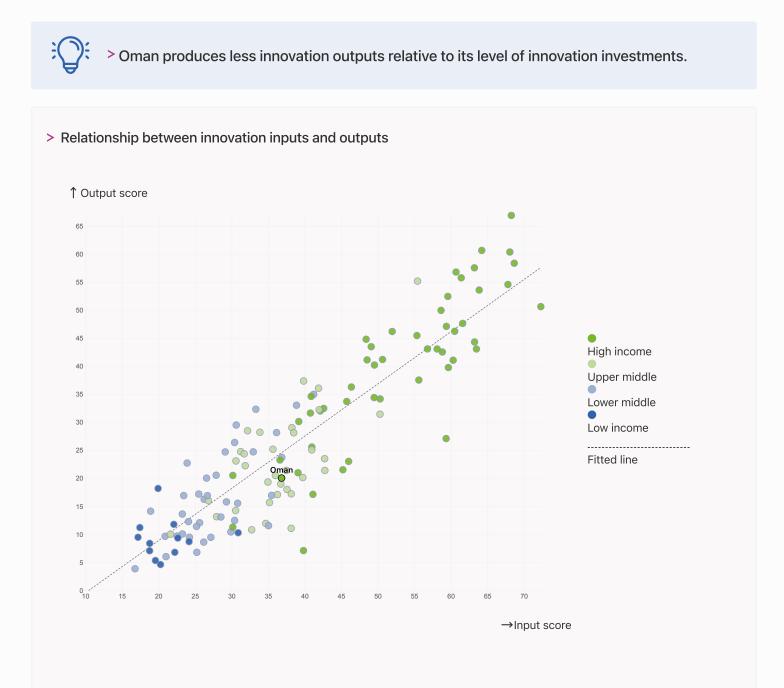


 \rightarrow GDP per capita, PPP logarithmic scale (thousands of \$)



→ Effectively translating innovation investments into innovation outputs

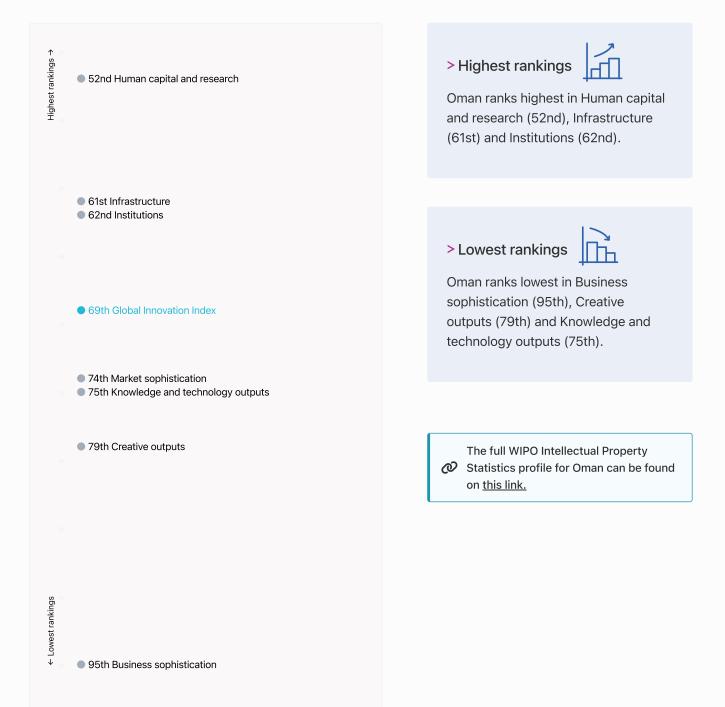
The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.





→ Overview of Oman's rankings in the seven areas of the GII in 2023

The chart shows the ranking for each of the seven areas that the GII comprises. The strongest areas for Oman are those that rank above the GII (shown in blue) and the weakest are those that rank below.





Benchmark of Oman against other country groupings for each of the seven areas of the GII Index

The charts shows the relative position of Oman (blue bar) against other country groupings (grey bars), for each of the seven areas of the GII Index.

Knowledge and technology outputs > Northern Africa And Western > High-Income Top 10 | Score: 58.96 Asia economies Oman performs below the regional average Oman performs below the high-High income | Score: 38.62 in Knowledge and technology income group average outputs, Creative outputs, Business in all the pillars. NAWA | Score: 24.01 sophistication, Market sophistication, Institutions. Oman | Score: 20.89 Creative outputs **Business sophistication** Market sophistication Top 10 | 56.09 Top 10 | 64.39 Top 10 | 61.93 High income | 40.27 High income | 46.38 High income | 46.42 NAWA | 24.51 NAWA | 29.44 NAWA | 36.12 Oman | 19.18 Oman | 22.32 Oman | 33.28 Human capital and research Infrastructure Institutions Top 10 | 60.28 Top 10 | 62.83 Top 10 | 79.85 High income | 46.30 High income | 55.85 High income | 68.16 Oman | 34.22 Oman | 42.48 NAWA | 53.39 NAWA | 32.72 NAWA | 41.60 **Oman** | 51.90



→ Innovation strengths and weaknesses in Oman

The table below gives an overview of the indicator strengths and weaknesses of Oman in the GII 2023.

> Oman's main innovation strengths are Graduates in science and engineering, % (rank 2), Government funding/pupil, secondary, % GDP/cap (rank 9) and ICT access (rank 16).

Strengths

Weaknesses

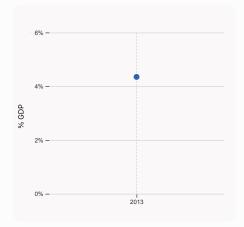
Rank	Code	Indicator name	Rank	Code	Indicator name
2	2.2.2	Graduates in science and engineering, %	119	5.1.5	Females employed w/advanced degrees, %
9	2.1.2	Government funding/pupil, secondary, % GDP/cap	116	3.3.1	GDP/unit of energy use
16	3.1.1	ICT access	116	5.3.2	High-tech imports, % total trade
19	6.2.1	Labor productivity growth, %	113	7.1.4	Industrial designs by origin/bn PPP\$ GDP
19	1.3.1	Policies for doing business	92	4.2.3	VC recipients, deals/bn PPP\$ GDP
21	5.2.2	State of cluster development	91	4.2.4	VC received, value, % GDP
23	6.1.1	Patents by origin/bn PPP\$ GDP	86	5.2.3	GERD financed by abroad, % GDP
23	3.2.1	Electricity output, GWh/mn pop.	83	5.3.5	Research talent, % in businesses
24	5.3.4	FDI net inflows, % GDP	48	6.2.2	Unicorn valuation, % GDP
			40	2.3.3	Global corporate R&D investors, top 3, mn
31	7.3.4	Mobile app creation/bn PPP\$ GDP			US\$



→ Oman's innovation system

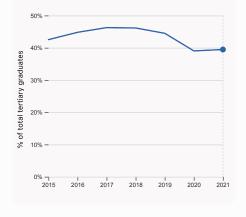
As far as practicable, the plots below present unscaled indicator data.

> Innovation inputs in Oman



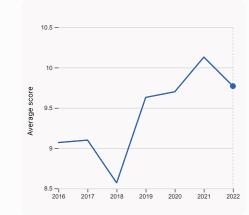
2.1.1 Expenditure on education, % GDP

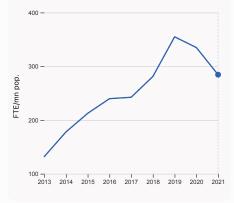
was equal to 4.35 % GDP in 2013, equivalent to an indicator rank of 59.



2.2.2 Graduates in science and engineering, %

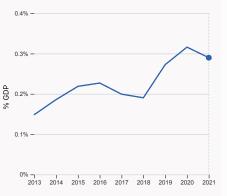
was equal to 39.47% of total tertiary graduates in 2021, up by 0.43 percentage points from the year prior – and equivalent to an indicator rank of 2.





2.3.1 Researchers, FTE/mn pop.

was equal to 284.45 FTE/mn pop. in 2021, down by 15.069% from the year prior – and equivalent to an indicator rank of 80.

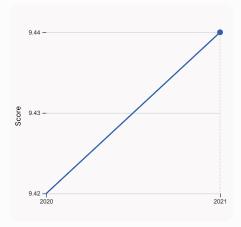


2.3.2 Gross expenditure on R&D, % GDP

was equal to 0.29% GDP in 2021, down by 0.026 percentage points from the year prior – and equivalent to an indicator rank of 77.

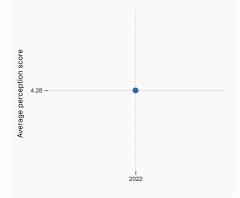
2.3.4 QS university ranking, top 3

was equal to an average score of 9.77 for the top 3 universities in 2022, down by 3.55% from the year prior – and equivalent to an indicator rank of 65.

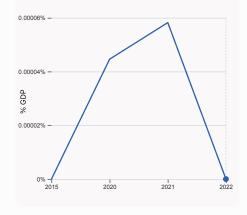


3.1.1 ICT access

was equal to a score of 9.44 in 2021, up by 0.21% from the year prior – and equivalent to an indicator rank of 16.







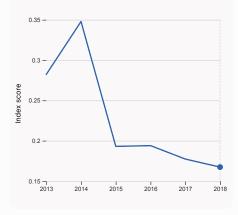
4.2.4 VC received, value, % GDP

91.

was equal to 0% GDP in 2022, down by

0.000058 percentage points from the year

prior - and equivalent to an indicator rank of

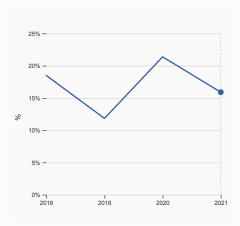


4.3.2 Domestic industry diversification

was equal to an index score of 0.167 in 2018, down by 5.62% from the year prior – and equivalent to an indicator rank of 57.



was equal to an average perception score of 4.28 in 2022, equivalent to an indicator rank of 55.

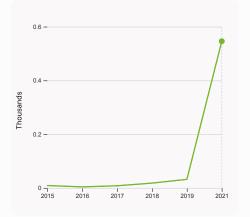


5.1.1 Knowledge-intensive employment, %

was equal to 15.9% in 2021, down by 5.48 percentage points from the year prior – and equivalent to an indicator rank of 85.

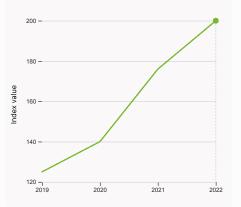


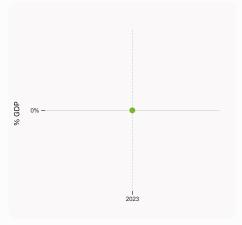
> Innovation outputs in Oman



6.1.1 Patents by origin

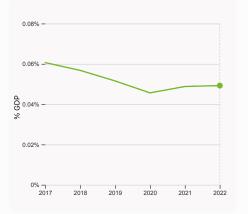
was equal to 0.55 Thousands in 2021, up by 1606.25% from the year prior – and equivalent to an indicator rank of 23.





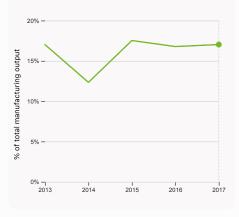
6.2.2 Unicorn valuation, % GDP

was equal to 0 % GDP in 2023 – and equivalent to an indicator rank of 48.



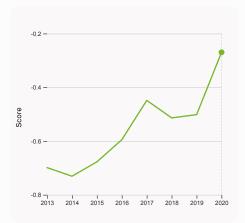
6.2.3 Software spending, % GDP

was equal to 0.049% GDP in 2022, up by 0.00046 percentage points from the year prior – and equivalent to an indicator rank of 105.



6.2.4 High-tech manufacturing, %

was equal to 17.03% of total manufacturing output in 2017, up by 0.25 percentage points from the year prior – and equivalent to an indicator rank of 72.

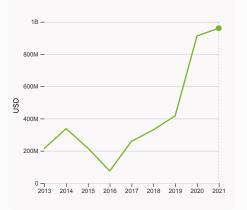


6.3.2 Production and export complexity

was equal to a score of -0.27 in 2020, up by 46.23% from the year prior – and equivalent to an indicator rank of 78.

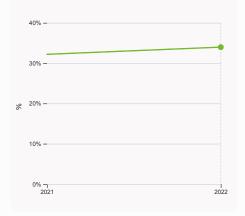
6.1.5 Citable documents H-index

was equal to an index value of 200 in 2022, up by 13.64% from the year prior – and equivalent to an indicator rank of 85.



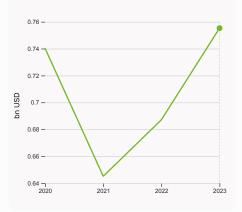
6.3.3 High-tech exports

was equal to 960,667,977 USD in 2021, up by 5.31% from the year prior – and equivalent to an indicator rank of 56.



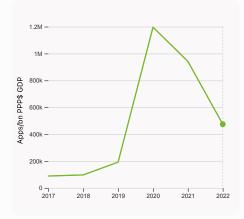
7.1.1 Intangible asset intensity, top 15, %

was equal to 33.97% in 2022, up by 1.78 percentage points from the year prior – and equivalent to an indicator rank of 66.



7.1.3 Global brand value, top 5,000

was equal to 0.76 bn USD in 2023, up by 9.93% from the year prior – and equivalent to an indicator rank of 60.



7.3.4 Mobile app creation/bn PPP\$ GDP

was equal to 474,253.04 Apps/bn PPP\$ GDP in 2022, down by 49.64% from the year prior – and equivalent to an indicator rank of 31.





→ Oman's innovation top performers

> 2.3.4 QS university ranking of Oman's top universities

Rank	University	Score
384	SULTAN QABOOS UNIVERSITY	29.30

Source: QS Quacquarelli Symonds Ltd (https://www.topuniversities.com/university-rankings/world-university-rankings/2023).

Note: QS Quacquarelli Symonds Ltd annually assesses over 1,200 universities across the globe and scores them between [0,100]. Ranks can represent a single value "x", a tie "x=" or a range "x-y".

> 7.1.1 Top 15 intangible-asset intensive companies in Oman

Rank	Firm	Intensity, %
1	OMAN TELECOMMUNICATIONS CO SAOG	68.80
2	BANK MUSCAT SAOG	5.36
3	OMANI QATARI TELECOMMUNICATIONS CO SAOG	29.90

Source: Brand Finance (https://brandirectory.com/reports/gift-2022). Note: Brand Finance only provides within economy ranks.

> 7.1.3 Top 5,000 companies in Oman with highest global brand value

Rank	Brand	Industry	Brand Value, mn USD
1	BANK MUSCAT	Banking	415.6
2	OMANTEL	Telecoms	339.6

Source: Brand Finance (https://brandirectory.com). Note: Rank corresponds to within economy ranks.



Oman

Output rank 78	Input rank 65	Income High	Regio	
			Score / Value	e Rank
🏦 Institutions			51.9	62 ◊
 1.1 Institutional enviro 1.1.1 Operational stabili 1.1.2 Government effec 1.2 Regulatory environ 1.2.1 Regulatory quality 1.2.2 Rule of law* 1.2.3 Cost of redundant 1.3 Business environn 1.3.1 Policies for doing 1.3.2 Entrepreneurship 	ty for businesses* tiveness* n ment * cy dismissal nent business*		47.0 60.4 33.5 50.7 51.6 n/a 57.6 74.8 40.5	61 ◇ 46 ◇ 78 ◇ 96 ◇ 54 ◇ 47 ◇ n/a 39 19 ● 48 >
🙁 Human capital	and research		34.2	52 ◊
2.1 Education 2.1.1 Expenditure on ed 2.1.2 Government fundi 2.1.3 School life expect 2.1.4 PISA scales in rea 2.1.5 Pupil-teacher ratio 2.2 Tertiary education 2.2.1 Tertiary enrolmen 2.2.2 Graduates in scie 2.3 Tertiary inbound in 2.3 Research and dev 2.3.1 Researchers, FTE, 2.3.2 Gross expenditure 2.3.3 Global corporate 2.3.4 QS university ran	ing/pupil, secondary, ancy, years ding, maths and scie b, secondary t, % gross nce and engineering, nobility, % elopment (R&D) (mn pop. e on R&D, % GDP R&D investors, top 3,	nce %	 56.3 4.4 28.5 14.6 n/a 12.2 41.9 47.4 39.5 3.1 4.4 284.4 0.3 0.0 9.9 	52 59 9 ● 63 ◇ n/a 54 27 69 ◇ 2 ● 63 79 ◇ 80 ◇ 77 ◇ 40 ○ ◇ 65 ◇
♣ Infrastructure			42.5	61 💠
 3.1 Information and co 3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's onl 3.1.4 E-participation* 3.2 General infrastruct 3.2.1 Electricity output, 3.2.2 Logistics perform 3.3 Gross capital form 3.3 Ecological sustain 3.3.1 GDP/unit of energ 3.2 Environmental pe 3.3 ISO 14001 environ 	ine service* GWh/mn pop. ance* nation, % GDP nability y use rformance* nment/bn PPP\$ GDP	nologies (ICTs)	76.3 91.7 76.6 71.5 65.1 37.0 7,474.1 54.5 23.2 14.2 5.3 20.0 1.7	46 16 ● 58 ◇ 58 50 38 24 ● 42 71 107 ◇ 116 ○ ◇ 107 ◇ 53
네 Market sophisti	cation		33.3	74
 4.1 Credit 4.1.1 Finance for startup 4.1.2 Domestic credit to 4.1.3 Loans from microid 4.2 Investment 4.2.1 Market capitalizat 4.2.2 Venture capital (V 4.2.3 VC recipients, det 4.2.4 VC received, valu 4.3 Trade, diversificat 4.3.1 Applied tariff rate 4.3.2 Domestic industry 4.3.3 Domestic market 	o private sector, % G finance institutions, % ion, % GDP /C) investors, deals/b als/bn PPP\$ GDP e, % GDP tion, and market sca , weighted avg., % y diversification	% GDP nn PPP\$ GDP	36.0 43.9 76.6 0.1 0.0 0.0 60.3 1.7 87.8 190.5	49 55 ↔ 44 n/a 89 ↔ 58 46 92 ○ ↔ 91 ○ ↔ 53 54 57 71

Population (mn) 4.6				
		Score / Value	Rank	
🖶 Business sophist	ication	22.3	9 5 ♦	
5.1 Knowledge workers		16.1	111 💠	
5.1.1 Knowledge-intensive		§ 15.9	85 🛇	
5.1.2 Firms offering forma		n/a	n/a	
5.1.3 GERD performed by	,	• 0.1	65 ¢	
5.1.4 GERD financed by b 5.1.5 Females employed v		31.80.9	56 119 ⊖ ◊	
5.2 Innovation linkages		27.9	46	
5.2.1 University-industry	R&D collaboration ⁺	§ 54.4	43	
5.2.2 State of cluster dev		§ 71.4	21 ●	
5.2.3 GERD financed by a	abroad, % GDP	0.0	86 0 🛇	
5.2.4 Joint venture/strate	gic alliance deals/bn PPP\$ GDP	0.0	37	
5.2.5 Patent families/bn F		0.0	87	
5.3 Knowledge absorpt		23.0	115 🔷	
5.3.1 Intellectual property		n/a	n/a	
5.3.2 High-tech imports,		5.0 0.7	116 ○ 97 ◇	
5.3.3 ICT services import 5.3.4 FDI net inflows, % (4.4	97 ↓ 27 ●	
5.3.5 Research talent, %		0 .3	83 ○ ◇	
	echnology outputs	20.9	75 ◊	
6.1 Knowledge creation		14.7	65 🛇	
6.1.1 Patents by origin/bn		3.2	23 ●	
6.1.2 PCT patents by orig	in/bn PPP\$ GDP	0.0	77 💠	
6.1.3 Utility models by ori	igin/bn PPP\$ GDP	n/a	n/a	
	iical articles/bn PPP\$ GDP	n/a	n/a	
6.1.5 Citable documents	H-index	8.7	85 💠	
6.2 Knowledge impact	www.whle_O/	23.8	83 ¢	
6.2.1 Labor productivity c 6.2.2 Unicorn valuation, 9		2.9 0.0	19 ● 48 ○ ◇	
6.2.3 Software spending,		0.0	48 0 ♥ 105 ♦	
6.2.4 High-tech manufac		Q 17.0	72 ◊	
6.3 Knowledge diffusion		24.1	59 🛇	
6.3.1 Intellectual property	/ receipts, % total trade	n/a	n/a	
6.3.2 Production and exp	ort complexity	46.9	78 💠	
6.3.3 High-tech exports,	% total trade	2.2	56	
6.3.4 ICT services export		1.2	80	
6.3.5 ISO 9001 quality/bn	PPP\$ GDP	3.8	64	
Creative outputs		19.2	79 ◊	
7.1 Intangible assets		27.2	75	
7.1.1 Intangible asset inte		34.0	66 45	
7.1.2 Trademarks by origin 7.1.3 Global brand value,		49.8 0.7	45 60	
7.1.4 Industrial designs by		0.7	113 O ♦	
7.2 Creative goods and		2.9	99	
-	e services exports, % total trade	n/a	n/a	
7.2.2 National feature film		n/a	n/a	
7.2.3 Entertainment and r	3.0	50 💠		
7.2.4 Creative goods exp	0.2 19.5	74 68 ◇		
7.3 Online creativity				
	omains (TLDs)/th pop. 15-69	2.3	78 ◊	
7.3.2 Country-code TLDs		0.4	103 ◊ 112 ◊	
7.3.3 GitHub commits/mn7.3.4 Mobile app creation		1.3 74.2	112 ◇ 31 ●	
mobile app creation	η Si τ τ τ Ψ Ο D Ι	/ 4.2	UI 🖝	

69

NOTES: • indicates a strength; O a weakness; • an income group strength; \diamond an income group weakness; * an index; * a survey question, • indicates that the economy's data are older than the base year; see appendices for details, including the year of the data, at https://www.wipo.int/gii-ranking. 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 indicators that are either missing or outdated for Oman.



> Oman has missing data for nine indicators and outdated data for fourteen indicators.

> Missing data for Oman

Code	Indicator name	Economy Year	Model Year	Source
1.2.3	Cost of redundancy dismissal	n/a	2020	World Bank, Employing Workers Project
2.1.4	PISA scales in reading, maths and science	n/a	2018	OECD, PISA
4.1.3	Loans from microfinance institutions, % GDP	n/a	2021	International Monetary Fund, Financial Access Survey (FAS)
5.1.2	Firms offering formal training, %	n/a	2019	World Bank Enterprise Surveys
5.3.1	Intellectual property payments, % total trade	n/a	2021	World Trade Organization and United Nations Conference on Trade and Development
6.1.3	Utility models by origin/bn PPP\$ GDP	n/a	2021	World Intellectual Property Organization; International Monetary Fund
6.3.1	Intellectual property receipts, % total trade	n/a	2021	World Trade Organization and United Nations Conference on Trade and Development
7.2.1	Cultural and creative services exports, % total trade	n/a	2021	World Trade Organization and United Nations Conference on Trade and Development
7.2.2	National feature films/mn pop. 15-69	n/a	2021	OMDIA; United Nations, World Population Prospects

> Outdated data for Oman

Code	Indicator name	Economy Year	Model Year	Source
1.3.1	Policies for doing business	2020	2022	World Economic Forum, Executive Opinion Survey (EOS)
2.1.1	Expenditure on education, % GDP	2013	2021	UNESCO Institute for Statistics
3.2.1	Electricity output, GWh/mn pop.	2020	2021	International Energy Agency
4.3.2	Domestic industry diversification	2018	2020	United Nations Industrial Development Organization
5.1.1	Knowledge-intensive employment, %	2021	2022	International Labour Organization

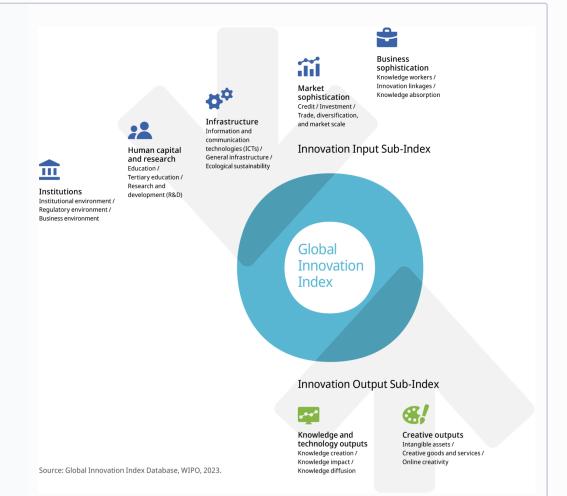


Code	Indicator name	Economy Year	Model Year	Source
5.1.3	GERD performed by business, % GDP	2018	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.4	GERD financed by business, %	2018	2020	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.5	Females employed w/advanced degrees, %	2018	2022	International Labour Organization
5.2.1	University-industry R&D collaboration	2020	2022	World Economic Forum, Executive Opinion Survey (EOS)
5.2.2	State of cluster development	2020	2022	World Economic Forum, Executive Opinion Survey (EOS)
5.2.3	GERD financed by abroad, % GDP	2018	2020	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.3.5	Research talent, % in businesses	2018	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
6.2.4	High-tech manufacturing, %	2017	2020	United Nations Industrial Development Organization
7.1.2	Trademarks by origin/bn PPP\$ GDP	2020	2021	World Intellectual Property Organization; International Monetary Fund



→ 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.