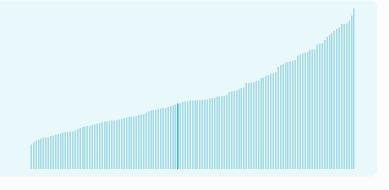


Jordan ranking in the Global Innovation Index 2024

Jordan ranks 73rd among the 133 economies featured in the GII 2024.

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.



Jordan ranks 8th among the 38 lowermiddle-income group economies.



Jordan ranks 12th among the 18 economies in Northern Africa and Western Asia.



> Jordan GII Ranking (2020-2024)

The table shows the rankings of Jordan 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 Jordan in the GII 2024 is between ranks 68 and 74.

Year	GII Position	Innovation Inputs	Innovation Outputs
2020	81st	77th	81st
2021	81st	79th	81st
2022	78th	71st	78th
2023	71st	70th	76th
2024	73rd	69th	74th

Jordan performs worse in innovation outputs than innovation inputs in 2024.

This year Jordan ranks 69th in innovation inputs. This position is higher than last year.

Jordan ranks 74th in innovation outputs. This position is higher than last year.

Jordan has no clusters in the top 100 S&T clusters of the Global Innovation Index.



> Global Innovation Tracker

The Global Innovation Tracker 2024 shows what is the current state of innovation in Jordan, how rapidly is technology being embraced and what are the resulting societal impacts.



For Jordan, 4 indicators have improved in the short-term and 5 indicators have worsened.

Science and innovation investment

Scientific publications	R&D investments	Venture	International patent filings	
		Deal numbers	Deal values	
▲ 7.7% 2022 - 2023	n/a	▼-20% 2022 - 2023	▼ -77.1% 2022 - 2023	▼ -24% 2022 - 2023
▲ 14.4% 2013 - 2023	▲ 9.5% 2008 - 2016	▼ -5.4% 2013 - 2023	▼ -14.3% 2013 - 2023	▲ 34.2% 2013 - 2023

Technology adoption

Safe sanitation	Conne	ectivity	Robots	Electric vehicles
	Fixed broadband	5G		
▲ 0.1% 2021 - 2022	▲ 10% 2021 - 2022	n/a	n/a	n/a
▲ 0.2% 2012 - 2022	▲ 5.4% 2012 - 2022		n/a	n/a
82.3 per 100 inhabitants in 2022	7.1 per 100 inhabitants in 2022	n/a		n/a

Socioeconomic impact

Labor productivity	Life expectancy	Temperature change
▲ 0.7% 2022 - 2023	▼-0.1% 2021 - 2022	▲ 2°C 2023
▼ -2.5% 2013 - 2023	0% 2012 - 2022	n/a
53,213 USD in 2023	74.2 years in 2022	

Notes: Not all indicators of the Global Innovation Tracker are used to calculate the Global Innovation Index. Long-term annual growth refers to the compound annual growth rate (CAGR) over the indicated period. For each variable, a one-year growth rate is set for the short run, and ten-year CAGR is set for the long run; time windows might differ when gaps exist in data availability. The end period corresponds to the most recent available observation, which may differ among countries. Temperature change is an exception: it indicates the change in degrees Celsius with respect to the average temperature in the country from 1951–1980. Figures are rounded.

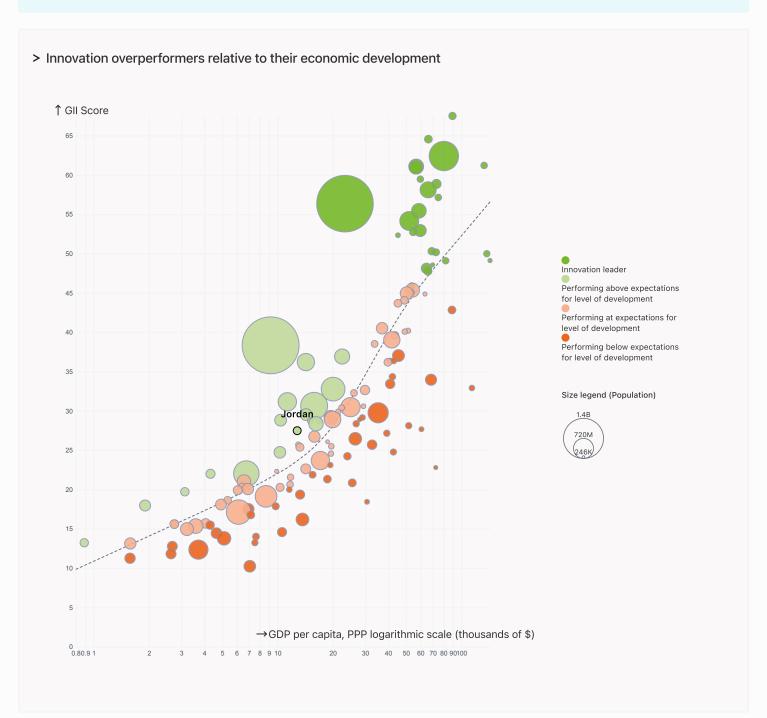


Expected vs. observed innovation performance

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, Jordan is performing above expectations for its level of development.



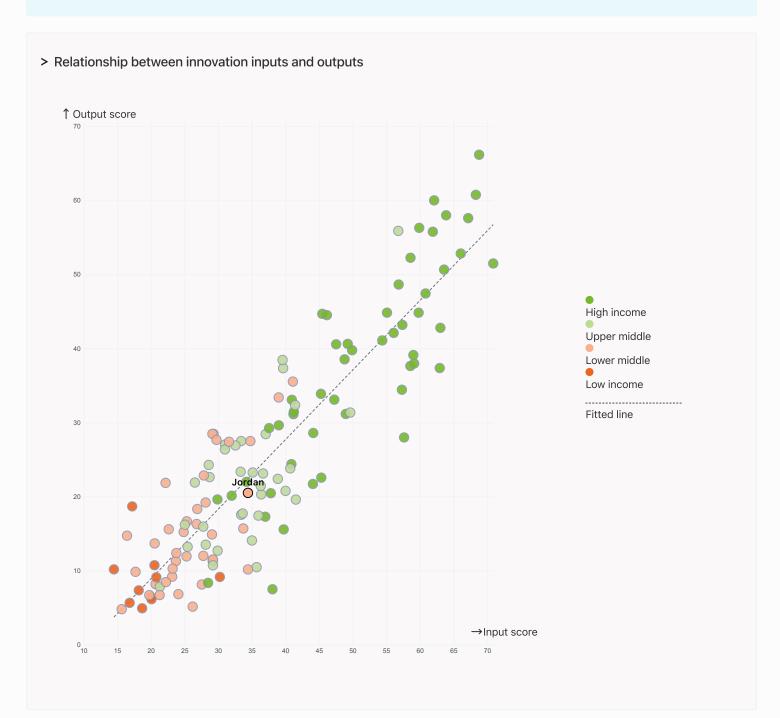


Effectively translating innovation investments into innovation outputs

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.



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





Overview of Jordan's rankings in the seven areas of the GII in 2024

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



Highest rankings



Jordan ranks highest in Institutions (52nd), Market sophistication (55th) and Business sophistication (72nd).

Lowest rankings



Jordan ranks lowest in Infrastructure (90th), Human capital and research (85th) and Knowledge and technology outputs, Creative outputs (76th).

The full WIPO Intellectual Property

Statistics profile for Jordan can be found on this link.



Benchmark of Jordan against other economy groupings for each of the seven areas of the GII Index

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



Lower-Middle-Income economies

Jordan performs above the lower-middle-income group average in all pillars.



Northern Africa And Western Asia

Jordan performs above the regional average in Institutions, Market sophistication.

Human capital and research Institutions Infrastructure Top 10 | Score: 80.81 Top 10 | Score: 61.30 Top 10 | Score: 58.57 Jordan | Score: 52.36 NAWA | Score: 34.27 NAWA | Score: 39.94 Jordan | Score: 26.12 Jordan | Score: 32.41 NAWA | Score: 51.34 Lower middle income | Score: 34.0 Lower middle income | Score: 22.1: Market sophistication Business sophistication Top 10 | Score: 62.12 Top 10 | Score: 63.64 Jordan | Score: 36.44 NAWA | Score: 27.20 NAWA | Score: 22.11 NAWA | Score: 33.58 Jordan | Score: 24.91 Lower middle income | Score: 20.8 Lower middle income | Score: 25.9 Creative outputs Top 10 | Score: 56.54 NAWA | Score: 26.23

Lower middle income | Score: 29.8

Knowledge and technology outputs

Top 10 | Score: 57.29

Jordan | Score: 19.60

Lower middle income | Score: 15.6

Jordan | Score: 21.31

Lower middle income | Score: 15.7



Innovation strengths and weaknesses in Jordan

The table below gives an overview of the indicator strengths and weaknesses of Jordan in the GII 2024.



Jordan's main innovation strengths are Scientific and technical articles/bn PPP\$ GDP (rank 12), VC received, value, % GDP (rank 14) and State of cluster development[†] (rank 15).

Strengths Weaknesses

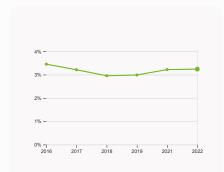
Rank	Code	Indicator name	Rank	Code	Indicator name
12	6.1.4	Scientific and technical articles/bn PPP\$ GDP	131	6.3.4	ICT services exports, % total trade
14	4.2.4	VC received, value, % GDP	127	5.3.3	ICT services imports, % total trade
15	5.2.3	State of cluster development [†]	117	3.2.3	Gross capital formation, % GDP
20	7.2.4	Creative goods exports, % total trade	116	5.2.1	Public Research-Industry co-publications, %
21	5.2.2	University-industry R&D collaboration [†]	110	7.2.1	Cultural and creative services exports, % total trade
23	2.2.3	Tertiary inbound mobility, %	81	2.1.4	PISA scales in reading, maths and science
26	7.3.3	Mobile app creation/bn PPP\$ GDP	75	7.2.2	National feature films/mn pop. 15–69
30	1.3.1	Policy stability for doing business [†]	54	7.2.3	Entertainment and media market/th pop. 15–69
31	3.1.1	ICT access*	49	6.2.2	Unicorn valuation, % GDP
34	6.2.3	Software spending, % GDP	41	2.3.3	Global corporate R&D investors, top 3, mn USD



Jordan's innovation system

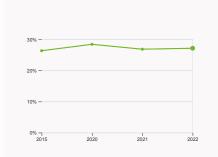
As far as practicable, the plots below present unscaled indicator data.

> Innovation inputs in Jordan



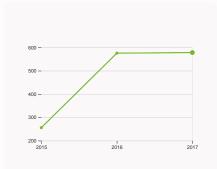
2.1.1 Expenditure on education

was equal to 3.24 % GDP in 2022, up by 0.02 percentage points from the year prior – and equivalent to an indicator rank of 98.



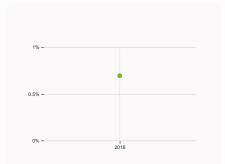
2.2.2 Graduates in science and engineering

was equal to 27.16 % of total graduates in 2022, up by 0.3 percentage points from the year prior – and equivalent to an indicator rank of 36.



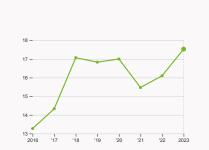
2.3.1 Researchers

was equal to 577.92 FTE per million population in 2017, up by 0.45% from the year prior – and equivalent to an indicator rank of 67.



2.3.2 Gross expenditure on R&D

was equal to 0.7 % GDP in 2016 – and equivalent to an indicator rank of 51.



2.3.4 QS university ranking

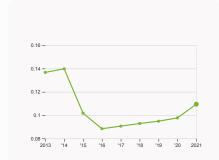
was equal to an average score of 17.53 for the top three universities in 2023, up by 8.88% from the year prior – and equivalent to an indicator rank of 52.



4.2.4 VC received, value

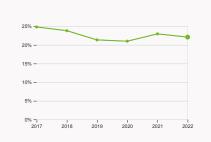
was equal to 1.21 thousand USD in 2023, down by 77.13% from the year prior – and equivalent to an indicator rank of 14.





4.3.2 Domestic industry diversification

was equal to an index score of 0.11 in 2021, up by 12.05% from the year prior – and equivalent to an indicator rank of 38.

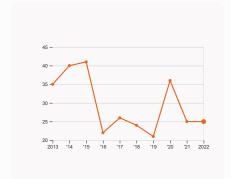


5.1.1 Knowledge-intensive employment

was equal to 22.1 % in 2022, down by 0.86 percentage points from the year prior – and equivalent to an indicator rank of 68.

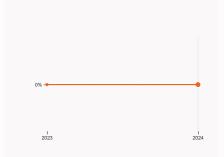


> Innovation outputs in Jordan



6.1.1 Patents by origin

was equal to 25 patents in 2022 with no change from the year prior – and equivalent to an indicator rank of 100.



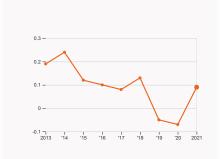
6.2.2 Unicorn valuation

was equal to 0 % GDP in 2024 with no change from the year prior – and equivalent to an indicator rank of 49.



6.2.4 High-tech manufacturing

was equal to 20.47 % of total manufacturing output in 2021, up by 2.69 percentage points from the year prior – and equivalent to an indicator rank of 61.



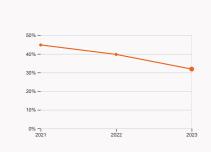
6.3.2 Production and export complexity

was equal to a score of 0.09 in 2021, up by 228.57% from the year prior – and equivalent to an indicator rank of 57.



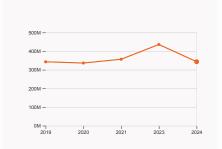
6.3.3 High-tech exports

was equal to 262.05 million USD in 2022, up by 10.33% from the year prior – and equivalent to an indicator rank of 75.



7.1.1 Intangible asset intensity

was equal to 31.86 % for the top 15 companies in 2023, down by 7.87 percentage points from the year prior – and equivalent to an indicator rank of 65.



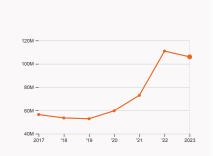
7.1.3 Global brand value

was equal to 343.58 million USD for the brands in the top 5,000 in 2024, down by 21.17% from the year prior – and equivalent to an indicator rank of 59.



7.2.2 National feature films

was equal to 4 films in 2022 with no change from the year prior – and equivalent to an indicator rank of 75.



7.3.3 Mobile app creation

was equal to 106.01 million global downloads of mobile apps in 2023, down by 4.44% from the year prior – and equivalent to an indicator rank of 26.



Jordan's innovation top performers

2.3.4 QS university ranking of Jordan's top universities

Rank	University	Score
498	UNIVERSITY OF JORDAN	23.20
731-740	JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY	16.00
801-850	AL-AHLIYYA AMMAN UNIVERSITY	13.40

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 Jordan

Rank	Firm	Intensity, %
1	JORDAN PHOSPHATE MINES CO. PLC	30.81
2	ARAB POTASH COMPANY	18.83
3	JORDAN PETROLEUM REFINERY CO. LTD.	15.18

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 Jordan with highest global brand value

Rank	Brand	Industry	Brand Value, mn USD
1	ARAB BANK	Banking	343.6

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

4.3.3 Domestic market scale, bn PPP\$



GII 2024 rank

Output rank 74	Input rank 69	Income Lower middle	N/	gion AWA	-	Population (mn) 11.4	GDP, PPP\$ (bn) 132.1	GDP per cap	0.2	
			Score / Value 52.4			A Dusiness combinationalis	•	Score / Value		
					Y.	Business sophistication				
1.1 Institutional envir			51.9		•	5.1 Knowledge workers		25.3	-	-
1.1.1 Operational stabil	-		54.7	85		5.1.1 Knowledge-intensive emp		22.1		
1.1.2 Government effect				56 58	*	5.1.2 Firms offering formal trai		1 6.9		
1.2 Regulatory environments 1.2.1 Regulatory quality			46	65	•	5.1.3 GERD performed by busine 5.1.4 GERD financed by busine		•	n/a n/a	
1.2.2 Rule of law*	y			56	•	5.1.5 Females employed w/adv		_	85	
1.3 Business environ	ment		57.2			5.2 Innovation linkages	anou dogrood, 70	34.5		
1.3.1 Policy stability for			69.2	30	• •	5.2.1 Public Research-Industry	y co-publications, %	0.6	116	
1.3.2 Entrepreneurship	_		45.2	35		5.2.2 University-industry R&D		73.1	21	•+
R Human capital a	and research		26.1	85		5.2.3 State of cluster develop	ment [†]	84.4	15	•+
			20.1			5.2.4 Joint venture/strategic a	lliance deals/bn PPP\$ GDP	0.02	52	•
2.1 Education			33.7			5.2.5 Patent families/bn PPP\$	GDP	0.02	85	
2.1.1 Expenditure on ed				98		5.3 Knowledge absorption		15	126	6 0
	ding/pupil, secondary, % GDP,	//cap	16.6			5.3.1 Intellectual property pays	ments, % total trade	0.2	97	
2.1.3 School life expec			n/a 359.3	n/a 81	0	5.3.2 High-tech imports, % tot	tal trade	6	99	
2.1.5 Pupil–teacher rat	ading, maths and science		15.1		0	5.3.3 ICT services imports, %	total trade			7 0
2.2 Tertiary educatio				55	•	5.3.4 FDI net inflows, % GDP			78	
2.2.1 Tertiary enrolmer				85		5.3.5 Research talent, % in bu	sinesses	n/a	n/a	
	ence and engineering, %		27.2			Knowledge and techno	logy outputs	19.6	76	
2.2.3 Tertiary inbound			10.8	23	• •	6.1 Knowledge creation		22.5	49	•
2.3 Research and dev	velopment (R&D)		8.7	63		6.1.1 Patents by origin/bn PPP	\$ GDP	0.2	100	Э
2.3.1 Researchers, FTE	E/mn pop.		© 577.9	67		6.1.2 PCT patents by origin/bn	PPP\$ GDP	0.1	54	•
2.3.2 Gross expenditur	re on R&D, % GDP		0 0.7	51		6.1.3 Utility models by origin/b	on PPP\$ GDP	-	-	
2.3.3 Global corporate	R&D investors, top 3, mn US	SD	0	41	$\circ \diamond$	6.1.4 Scientific and technical a	articles/bn PPP\$ GDP	33.8	12	•+
2.3.4 QS university rar	nking, top 3*		17.7	52		6.1.5 Citable documents H-ind	dex	10.8	70	
⇔ Infrastructure			32.4	90		6.2 Knowledge impact		23	78	
3.1 Information and c	communication technologies	s (ICTs)	71.6	71	•	6.2.1 Labor productivity growt			114	
3.1.1 ICT access*	communication technologies	3 (1013)	97.8	31	• •	6.2.2 Unicorn valuation, % GD		0	49	
3.1.2 ICT use*			72.8			6.2.3 Software spending, % G		0.3		••
3.1.3 Government's on	nline service*		62.4	73	•	6.2.4 High-tech manufacturing	g, %	20.5 13.3		
3.1.4 E-participation*			53.5	67	•	6.3 Knowledge diffusion 6.3.1 Intellectual property rece	pinte % total trado	0.08		
3.2 General infrastru	cture		8	128	0	6.3.2 Production and export of		45.3		
3.2.1 Electricity output	t, GWh/mn pop.		0 1,916	83		6.3.3 High-tech exports, % tot			75	
3.2.2 Logistics perform	mance*		n/a	n/a		6.3.4 ICT services exports, %				1 0
3.2.3 Gross capital for	mation, % GDP		16.8	117	$\circ \diamond$	6.3.5 ISO 9001 quality/bn PPP			56	
3.3 Ecological sustain	nability		17.6	75		Creative outputs		21.3	76	
3.3.1 GDP/unit of energ	gy use		11.5	57		Creative outputs		21.3	70	
3.3.2 Low-carbon ener	rgy use, %		13	80		7.1 Intangible assets		24	75	
3.3.3 ISO 14001 enviro	onment/bn PPP\$ GDP		1.7	59	•	7.1.1 Intangible asset intensity,		31.9		
<u>ы</u> Market sophistic	cation		36.4			7.1.2 Trademarks by origin/bn		27.4		
4.1 Credit			30.1	58		7.1.3 Global brand value, top 5			59	
4.1.1 Finance for startu	ups and scaleups†		50.2	38		7.1.4 Industrial designs by orig			74	
	to private sector, % GDP		84.4	34	•	7.2 Creative goods and servi 7.2.1 Cultural and creative servi		10.3 0.003		
4.1.3 Loans from micro	ofinance institutions, % GDP		0.9	33		7.2.1 Cultural and creative serv			75	
4.2 Investment			22.5	37		7.2.3 Entertainment and media		1.4	54	_
4.2.1 Market capitaliza	ation, % GDP		47	40		7.2.4 Creative goods exports,			20	
4.2.2 Venture capital (VC) investors, deals/bn PPP\$	GDP	0.1	45		7.3 Online creativity			59	
4.2.3 VC recipients, de	eals/bn PPP\$ GDP		0.06	45		7.3.1 Top-level domains (TLDs)/th pop. 15–69		83	
4.2.4 VC received, value	ue, % GDP		0.004	14	• •	7.3.2 GitHub commits/mn pop.			81	
4.3 Trade, diversifica	ation and market scale		56.7			7.3.3 Mobile app creation/bn P		74.5		•+
4.3.1 Applied tariff rate	e, weighted avg., %		2.9	79						
4.3.2 Domestic industr	ry diversification		90.5	38						
4 0 0 D				0 =						

132.1 85



Data availability

The following tables list indicators that are either missing or outdated for Jordan.



Jordan has missing data for six indicators and outdated data for five indicators.

Missing data for Jordan

Code	Indicator name	Economy Year	Model Year	Source
2.1.3	School life expectancy, years	n/a	2022	UNESCO Institute for Statistics
3.2.2	Logistics performance*	n/a	2023	World Bank, Logistics Performance Index 2023 (https://lpi.worldbank.org/); and World Bank 2023, Connecting to Compete 2023: Trade Logistics in the Global Economy The Logistics Performance Index and its Indicators.
5.1.3	GERD performed by business, % GDP	n/a	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.4	GERD financed by business, %	n/a	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.3.5	Research talent, % in businesses	n/a	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
6.1.3	Utility models by origin/bn PPP\$ GDP	n/a	2022	World Intellectual Property Organization; International Monetary Fund

Outdated data for Jordan

Code	Indicator name	Economy Year	Model Year	Source
2.3.1	Researchers, FTE/mn pop.	2017	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
2.3.2	Gross expenditure on R&D, % GDP	2016	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
3.2.1	Electricity output, GWh/mn pop.	2021	2022	International Energy Agency
5.1.2	Firms offering formal training, %	2019	2023	World Bank Enterprise Surveys
5.1.5	Females employed w/advanced degrees, %	2022	2023	International Labour Organization



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.