

## **JORDAN**

**81st** 

Jordan ranks 81st 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 Jordan 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 Jordan in the GII 2021 is between ranks 77 and 83.

#### Rankings for Jordan (2019–2021)

	GII	Innovation inputs	Innovation outputs
2021	81	79	81
2020	81	77	81
2019	86	91	71

- Jordan performs better in innovation inputs than innovation outputs in 2021.
- This year Jordan ranks 79th in innovation inputs, lower than last year but higher than 2019.
- As for innovation outputs, Jordan ranks 81st. This position is the same as last year but lower than 2019.

**25th** 

Jordan ranks 25th among the 34 upper middle-income group economies.

15th

Jordan ranks 15th among the 19 economies in Northern Africa and Western Asia.

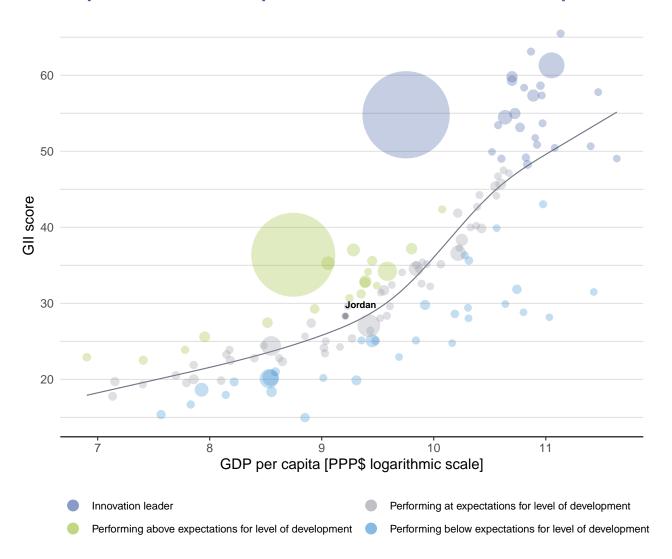


#### **EXPECTED VS. OBSERVED INNOVATION PERFORMANCE**

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, Jordan's performance is at expectations for its level of development.

#### The positive relationship between innovation and development



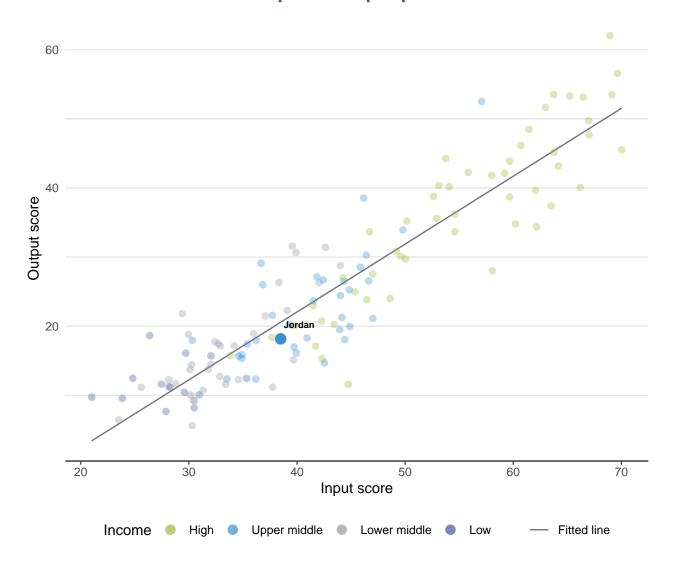




The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.

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

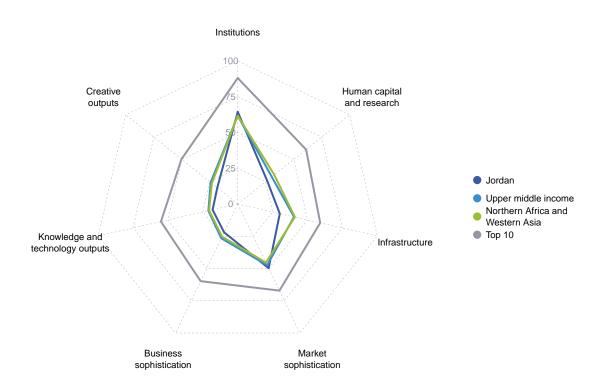
#### Innovation input to output performance





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

#### The seven GII pillar scores for Jordan



#### Upper middle-income group economies

Jordan performs above the upper middle-income group average in two pillars, namely: Institutions; and, Market sophistication.

#### Northern Africa and Western Asia

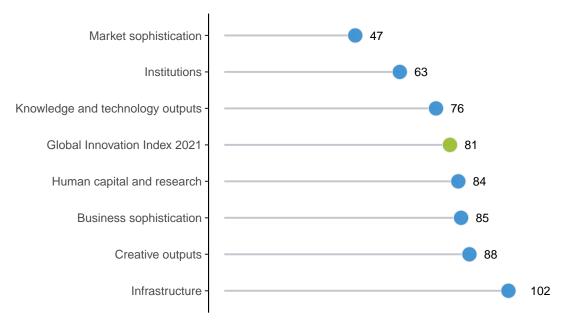
Jordan performs above the regional average in two pillars, namely: Institutions; and, Market sophistication.





Jordan performs best in Market sophistication and its weakest performance is in Infrastructure.

### The seven GII pillar ranks for Jordan



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





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

## **Strengths and weaknesses for Jordan**

Strengths				Weaknesses			
Code	Indicator name Rank		Code	Indicator name	Rank		
1.2	Regulatory environment	39	2.1.1	Expenditure on education, % GDP	97		
1.2.3	Cost of redudancy dismissal	1	2.1.3	School life expectancy, years	103		
2.2.2	Graduates in science and engineering, % 31		2.3.3	Global corporate R&D investors, top 3, mn US\$			
2.2.3	Tertiary inbound mobility, %	13	3.1.3	Government's online service	121		
4.1	Credit	25	3.1.4	E-participation	120		
4.1.1	Ease of getting credit	4	5.1.2	Firms offering formal training, %	87		
4.1.2	Domestic credit to private sector, % GDP	40	5.3.3	ICT services imports, % total trade	126		
4.2.4	Venture capital recipients, deals/bn PPP\$	30	6.3.4	ICT services exports, % total trade	129		
4.3.2	Domestic industry diversification	29	7.2.1	Cultural and creative services exports, % total trade	108		
5.2.2	State of cluster development and depth	30	7.2.3	Entertainment and media market/th pop. 15–69	54		
6.1.4	Scientific and technical articles/bn PPP\$ GDP	30					
7.2.4	Printing and other media, % manufacturing	9					

GII 2021 rank

## **Jordan**

Output rank Input rank

81

GII 2020 rank

81	79	Upper middle	NAWA	10	0.2	102.2	10,007		81
			Score/					Score/	
de las	titutiono		Value			Dusiness sembiatio	ation	Value	
	titutions		64.4	63		Business sophistic	ation	21.9	85
1.1.1 Politi 1.1.2 Gove	tical environmen ical and operation ernment effectiver ulatory environm	al stability* ness*	<b>57.3</b> 66.1 52.9 <b>73.7</b>	<b>69</b> 74 65 <b>39</b> • •		Knowledge workers Knowledge-intensive em Firms offering formal train GERD performed by busi	ning, %	<b>23.1</b> 21.4 16.9 n/a	[ <b>92]</b> 75 87 O < n/a
1.2.1 Regi 1.2.2 Rule	ulatory quality*		44.4 50.5 8.0	68 56		GERD financed by busine Females employed w/adv Innovation linkages		n/a 7.6 <b>26.5</b>	n/a 82 <b>42</b>
1.3 Busi 1.3.1 Ease	iness environme e of starting a busi e of resolving insol	nt ness*	<b>62.1</b> 84.5 39.7	<b>97</b> 92 98	5.2.1 5.2.2 5.2.3 5.2.4	University-industry R&D of State of cluster developm GERD financed by abroad Joint venture/strategic allia	nent and depth† d, % GDP ance deals/bn PPP\$ GDP	46.8 57.6 n/a 0.0	50 30 ● <b>4</b> n/a 47
2.1 Edu	man capital ar		26.2 32.9		<b>5.3</b> 5.3.1	Patent families/bn PPP\$  Knowledge absorption Intellectual property payr High-tech imports, % tot	ments, % total trade	0.0 <b>16.2</b> 0.1 7.0	72 <b>112</b> 100 79
2.1.2 Gove 2.1.3 Scho	ool life expectancy	upil, secondary, % GDP/ca	3.1 ap 15.5 10.6 416.0	97 ○ 72 103 ○ ◇ 58	5.3.3 5.3.4	ICT services imports, % FDI net inflows, % GDP Research talent, % in bus	total trade	0.2 3.0 n/a	126 O < 49
2.2 Terti	il-teacher ratio, se iary education	·	14.4 <b>36.3</b> 33.1	67 <b>54</b> 81	5 mg/s	Knowledge and te	chnology outputs	18.0	76
2.2.2 Grad 2.2.3 Tertia	ary inbound mobil	and engineering, % ity, %	② 26.4 14.0	31 <b>●</b> 13 <b>● ♦</b>	<b>6.1</b> 6.1.1 6.1.2	Knowledge creation Patents by origin/bn PPP PCT patents by origin/bn		<b>16.6</b> 0.2 0.2	<b>63</b> 98 50
2.3.1 Rese 2.3.2 Gros	earch and develo earchers, FTE/mn ss expenditure on oal corporate R&D	pop.	9.5 ② 596.0 ② 0.7 0.0	<b>60</b> 62 51 41 ○ ◊	6.1.4	Utility models by origin/b Scientific and technical a Citable documents H-ind	rticles/bn PPP\$ GDP	n/a 29.2 10.0	n/a 30 <b>● ∢</b> 78
2.3.4 QS u	university ranking,		17.0	56		New businesses/th pop.	15–64	<b>26.8</b> -0.8 0.5	<b>78</b> 79 95
3.1 Infor	astructure mationandcommo access*	unication technologies (ICT	30.1 s) 41.4 45.9		6.2.4	Software spending, % Gi ISO 9001 quality certifica High-tech manufacturing	tes/bn PPP\$ GDP	0.3 5.6 22.1	42 53 57
3.1.2 ICT u 3.1.3 Gove 3.1.4 E-pa	use* ernment's online s		50.4 35.9	80 121 ○ ♢ 120 ○ ♢	6.3.2 6.3.3	Knowledge diffusion Intellectual property rece Production and export co High-tech exports, % tot	omplexity al trade	10.7 0.1 47.8 1.4	93 52 51 66
3.2.1 Elect 3.2.2 Logis	tricity output, GWI stics performance ss capital formatio	n/mn pop. *	2,057.2 29.8 19.8	80 83 89		ICT services exports, % to Creative outputs	total trade	18.3	129 $\bigcirc$
3.3.1 GDP 3.3.2 Envii	logical sustainab Vunit of energy us ronmental perforn	ility e	<b>28.5</b> 9.8 53.4	65 71 46 ◆ 62	<b>7.1</b> 7.1.1	Intangible assets Trademarks by origin/bn Global brand value, top 5 Industrial designs by orig	i,000, % GDP iin/bn PPP\$ GDP	22.0 25.7 7.9 0.7 52.6	<b>92</b> 81 64 80 68
Mai	rket sophistic	ation	49.7	47	<b>7.2</b>	Creative goods and ser Cultural and creative service		13.8	<b>68</b>
4.1.2 Dom	of getting credit*	rate sector, % GDP ans, % GDP	<b>51.7</b> 95.0 76.9 0.4	<b>25                                    </b>	7.2.3 7.2.4	National feature films/mn Entertainment and media Printing and other media, Creative goods exports,	pop. 15–69 a market/th pop. 15–69 , % manufacturing		108 ○ n/a 54 ○ 〈 9 ● ◆ 46
4.2.1 Ease 4.2.2 Mark 4.2.3 Vent	•		26.3 50.0 52.7 0.1 0.0	<b>76</b> 92 34 30 ◆	7.3.3	Online creativity Generic top-level domain Country-code TLDs/th p Wikipedia edits/mn pop. Mobile app creation/bn F	op. 15–69 15–69	<b>15.4</b> 4.8 0.2 45.5 11.6	<b>73</b> 54 108 74 44
4.3.1 Appl 4.3.2 Dom	le, diversification lied tariff rate, weig nestic industry dive nestic market scale	ersification	<b>71.2</b>	<b>58</b> 79 29 <b>●</b> 83					

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.  $\bigcirc$  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 Jordan.

## **Missing data for Jordan**

Code	Indicator name	Economy year	Model year	Source
5.1.3	GERD performed by business, % GDP	n/a	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
5.1.4	GERD financed by business, %	n/a	2018	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
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
7.2.2	National feature films/mn pop. 15–69	n/a	2017	UNESCO Institute for Statistics

#### **Outdated data for Jordan**

Code	Indicator name	Economy year	Model year	Source
2.2.2	Graduates in science and engineering, %	2015	2018	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.3.1	Researchers, FTE/mn pop.	2017	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.3.2	Gross expenditure on R&D, % GDP	2016	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
4.3.1	Applied tariff rate, weighted avg., %	2017	2019	World Bank
7.2.4	Printing and other media, % manufacturing	2016	2018	United Nations Industrial Development Organization



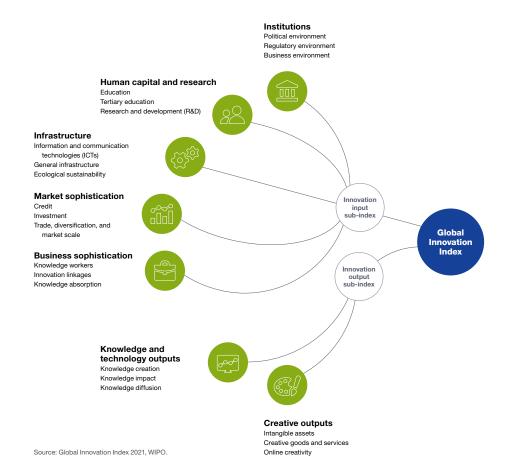






The Global Innovation Index (GII) is published by the World Intellectual Property Organization (WIPO), a specialized agency of the United Nations.

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.