

# **JAMAICA**

# 74th

Jamaica ranks 74th 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 Jamaica 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 Jamaica in the GII 2021 is between ranks 68 and 76.

#### Rankings for Jamaica (2019–2021)

	GII	Innovation inputs	Innovation outputs
2021	74	82	66
2020	72	86	62
2019	81	84	69

- Jamaica performs better in innovation outputs than innovation inputs in 2021.
- This year Jamaica ranks 82nd in innovation inputs, higher than both 2020 and 2019.
- As for innovation outputs, Jamaica ranks 66th. This position is lower than last year but higher than 2019.

# **21st**

Jamaica ranks 21st among the 34 upper middle-income group economies.

### 9th

Jamaica ranks 9th among the 18 economies in Latin America and the Caribbean.

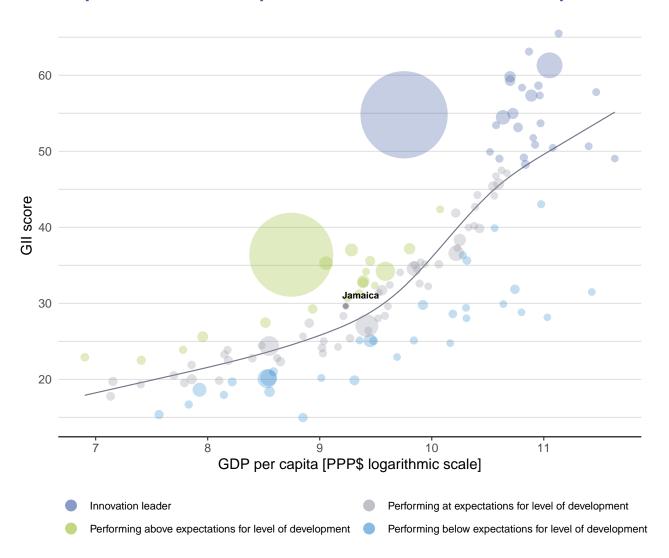


#### **EXPECTED VS. OBSERVED INNOVATION PERFORMANCE**

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

#### The positive relationship between innovation and development



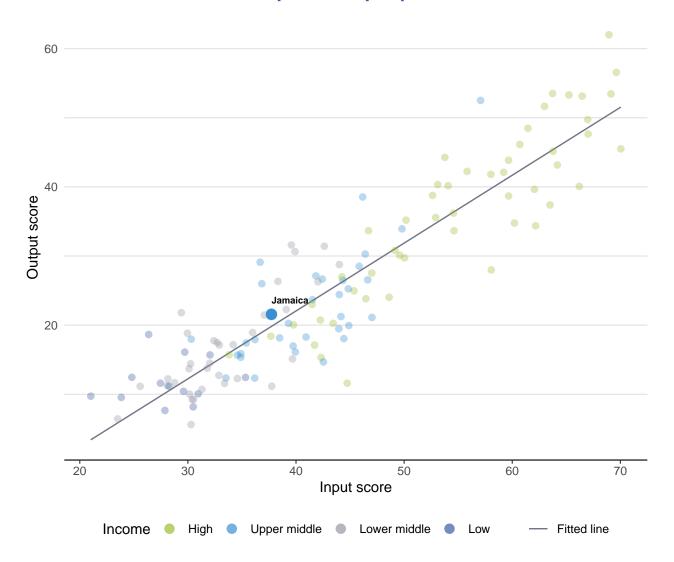




The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.

Jamaica produces more innovation outputs relative to its level of innovation investments.

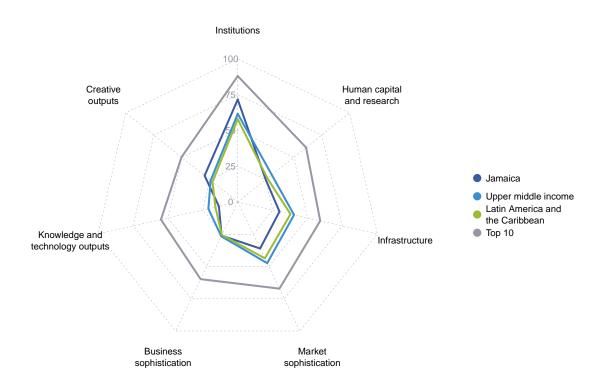
#### Innovation input to output performance





# BENCHMARKING AGAINST OTHER UPPER MIDDLE-INCOME GROUP ECONOMIES AND LATIN AMERICA AND THE CARIBBEAN

#### The seven GII pillar scores for Jamaica



#### Upper middle-income group economies

Jamaica performs above the upper middle-income group average in two pillars, namely: Institutions; and, Creative outputs.

#### Latin America and the Caribbean

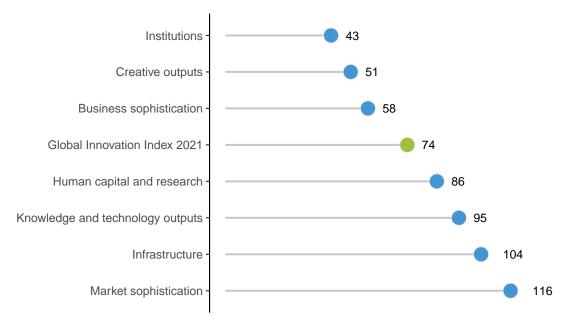
Jamaica performs above the regional average in three pillars, namely: Institutions; Business sophistication; and, Creative outputs.





Jamaica performs best in Institutions and its weakest performance is in Market sophistication.

## The seven GII pillar ranks for Jamaica



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





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

## **Strengths and weaknesses for Jamaica**

	Strengths	Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank
1.3	Business environment	23	2.3.3	Global corporate R&D investors, top 3, mn US\$	41
1.3.1	Ease of starting a business	6	2.3.4	QS university ranking, top 3	74
1.3.2	Ease of resolving insolvency	32	3.1.3	Government's online service	118
2.1.2	Government funding/pupil, secondary, % GDP/cap	10	3.1.4	E-participation	116
4.1.1	Ease of getting credit	14	3.2	General infrastructure	113
4.2.2	Market capitalization, % GDP	13	3.2.2	Logistics performance	106
5.2.4	Joint venture/strategic alliance deals/bn PPP\$ GDP	24	4.3	Trade, diversification, and market scale	129
5.3.4	FDI net inflows, % GDP	21	4.3.1	Applied tariff rate, weighted avg., %	120
6.2.3	Software spending, % GDP	23	4.3.3	Domestic market scale, bn PPP\$	124
7.1	Intangible assets	20	5.2.5	Patent families/bn PPP\$ GDP	100
7.1.1	Trademarks by origin/bn PPP\$ GDP	9	5.3.2	High-tech imports, % total trade	115
7.1.3	Industrial designs by origin/bn PPP\$ GDP	21	6.2.1	Labor productivity growth, %	111
			6.3.3	High-tech exports, % total trade	111

GII 2021 rank

# **Jamaica**

Output rank Input rank

74

GII 2020 rank

6	66 82	2	Upper middle	LCN			3.	0	27.9	10,221		72	
				Score/	David						Score		_1.
m	Institutions			Value 71.6			•	•	Business sophistica	ation	26.	e Ran 0 5	
1.1 1.1.1 1.1.2 1.2 1.2.1 1.2.2 1.2.3	Political environment of the Control	rationa ectiven ironm ty* ncy dis	al stability* ess* ent smissal	65.5 73.2 61.7 65.7 47.9 38.5 14.0	46 44 44 63 60 79 52	•	•	5.1.3 5.1.4 5.1.5 <b>5.2</b> 5.2.1	Knowledge workers Knowledge-intensive emp Firms offering formal train GERD performed by busin GERD financed by busine Females employed w/adv Innovation linkages University-industry R&D of	oloyment, % (ing, % (i	29. 2 21. 2 25. n/ n/ n/ 26. 2 44.	6 [70 6 7 9 6 ⁄a n/ ⁄a n/ ⁄a n/ <b>7 4</b>	0] 74 61 /a /a /a /a
1.3.2	Ease of starting Ease of resolving	j insol	vency*	97.4 70.1	32	• •	•	5.2.3 5.2.4	State of cluster developm GERD financed by abroad Joint venture/strategic allia Patent families/bn PPP\$ 0	d, % GDP ince deals/bn PPP\$ GDP	② 46. n/ 0. 0.	a n/ 1 2	
2.1 2.1.1 2.1.2 2.1.3 2.1.4	School life expec	educat ling/pu ctancy eading	ion, % GDP upil, secondary, % GDP/cap , years maths and science	5.2	<b>[45]</b> 33 10	• •	•	5.3.2 5.3.3 5.3.4	Knowledge absorption Intellectual property payor High-tech imports, % tota ICT services imports, % t FDI net inflows, % GDP Research talent, % in bus	al trade otal trade iinesses	<b>21.</b> 0. 4. 1. 5.	8 5 2 11 2 6 0 2	57  5 ⊖  64  21 ●
	Tertiary educat		aross	<b>18.5</b> ② 27.1	[ <b>100</b> ] 89		$\diamond$	90.90	Knowledge and te	chnology outputs	13.	5 9	5
2.2.2 2.2.3 <b>2.3</b> 2.3.1 2.3.2 2.3.3	Graduates in sci Tertiary inbound Research and C Researchers, FT Gross expenditu	ence a mobil levelo E/mn re on l e R&D	nd engineering, % ity, % pment (R&D) pop. R&D, % GDP investors, top 3, mn US\$	n/a n/a <b>0.0</b>	n/a n/a <b>[123]</b> n/a n/a 41			6.1.3 6.1.4 6.1.5 <b>6.2</b>	PCT patents by origin/bn Utility models by origin/br	PPP\$ GDP n PPP\$ GDP ticles/bn PPP\$ GDP ex	5. 0. n/ n/ 6. 5. <b>23.</b> -2.	'a n/ 'a n/ 2 10 2 10 <b>2 8</b>	31 /a /a /5 )3
3.1	Infrastructui		nicationtechnologies (ICTs	29.9 ) 43.6 56.0	104 102 83	. <	$\Diamond$	6.2.3 6.2.4	New businesses/th pop. 1 Software spending, % GI ISO 9001 quality certificat High-tech manufacturing,	)P tes/bn PPP\$ GDP	1. 0. 1. n/	4 2 4 10	23 <b>● ∢</b> 01
3.1.2 3.1.3 3.1.4 <b>3.2</b> 3.2.1	ICT use* Government's or E-participation* General infrast Electricity outpu	ructur t, GWh	e ı/mn pop.	42.8 38.8 36.9 <b>19.2</b> 1,499.8	96 118 116 <b>113</b> 91	0 <		6.3.2 6.3.3	Knowledge diffusion Intellectual property recei Production and export co High-tech exports, % tota ICT services exports, % to	mplexity al trade	11. 0. 30. 0. 2.	1 6 5 9 2 11	64 91 11 ()
	Logistics perform Gross capital for			21.9 21.2	106 78		$\Diamond$	<b>&amp;</b> ,	Creative outputs		29.	6 5	1
3.3.1 3.3.2 3.3.3		gy use erform nment	e ance* al certificates/bn PPP\$ GDF	27.0 9.2 48.2 9 1.7	72 79 60 52			<b>7.1</b> 7.1.1 7.1.2 7.1.3 7.1.4	Intangible assets Trademarks by origin/bn I Global brand value, top 5, Industrial designs by origi ICTs and organizational m	000, % GDP n/bn PPP\$ GDP	<b>50</b> . 97. 67. 6. 55.	6 2 8 2	20 • 4 9 • 4 29 • 21 •
<b>4.1</b> 4.1.1 4.1.2	Credit Ease of getting of Domestic credit Microfinance gro	redit* to priv	ate sector, % GDP	<b>40.9</b> 85.0 41.3 0.2	116 65 14 81 52	•	$\Diamond$	7.2.3 7.2.4	Creative goods and serr Cultural and creative servic National feature films/mn Entertainment and media Printing and other media, Creative goods exports, 9	es exports, % total trade pop. 15–69 market/th pop. 15–69 % manufacturing	<b>1.</b> 0. n/ n/ 0.	'a n/ 'a n/ 'a n/	)2 /a /a /a
4.2.1 4.2.2 4.2.3 4.2.4 <b>4.3</b>	Venture capital r	ation, 9 nvesto ecipie cation	% GDP rs, deals/bn PPP\$ GDP nts, deals/bn PPP\$ GDP , and market scale		57 60 13 27 38 129	•		<b>7.3</b> 7.3.1 7.3.2 7.3.3	Online creativity Generic top-level domain: Country-code TLDs/th pc Wikipedia edits/mn pop. Mobile app creation/bn P	s (TLDs)/th pop. 15–69 pp. 15–69 15–69	16. 1. 1. 48.	9 6 8 8 0 8 2 6	<b>58</b> 31 35 59
4.3.2	Applied tariff rate Domestic indust Domestic marke	ry dive	rsification	n/a	120 n/a 124								

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.



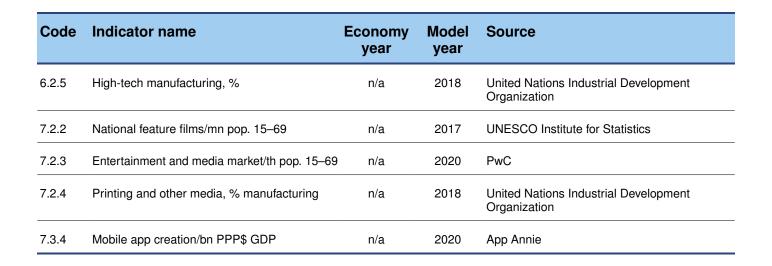


The following tables list data that are either missing or outdated for Jamaica.

# **Missing data for Jamaica**

Code	Indicator name Econ ye		Model year	Source
2.1.3	School life expectancy, years	n/a	2018	UNESCO Institute for Statistics
2.1.4	PISA scales in reading, maths and science	n/a	2018	OECD Programme for International Student Assessment (PISA)
2.2.2	Graduates in science and engineering, %	n/a	2018	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.2.3	Tertiary inbound mobility, %	n/a	2018	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	n/a	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.3.2	Gross expenditure on R&D, % GDP	n/a	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
4.3.2	Domestic industry diversification	n/a	2018	United Nations Industrial Development Organization
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
5.1.5	Females employed w/advanced degrees, %	n/a	2019	International Labour Organization
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
6.1.2	PCT patents by origin/bn PPP\$ GDP	n/a	2020	World Intellectual Property Organization
6.1.3	Utility models by origin/bn PPP\$ GDP	n/a	2019	World Intellectual Property Organization





#### **Outdated data for Jamaica**

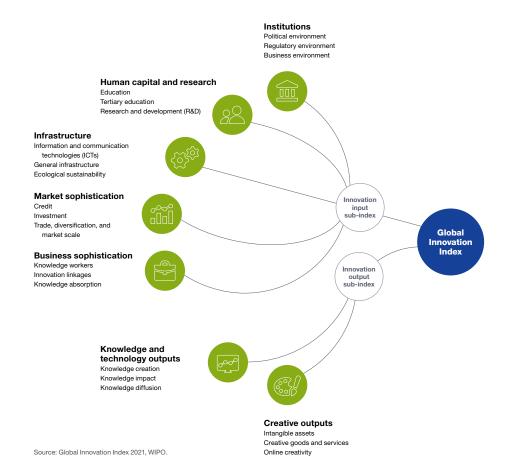
Code	Indicator name	Economy Model year year		Source
2.2.1	Tertiary enrolment, % gross	2015	2018	UNESCO Institute for Statistics
4.2.4	Venture capital recipients, deals/bn PPP\$ GDP	2019	2020	Refinitiv Eikon
4.3.1	Applied tariff rate, weighted avg., %	2016	2019	World Bank
5.1.1	Knowledge-intensive employment, %	2017	2019	International Labour Organization
5.1.2	Firms offering formal training, %	2010	2019	World Bank
5.2.1	University-industry R&D collaboration	2019	2020	World Economic Forum
5.2.2	State of cluster development and depth	2019	2020	World Economic Forum





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.