

GLOBAL INNOVATION INDEX 2018

Jamaica

A 1 St Jamaica is ranked 81st in the GII 2018, moving up 3 positions from the previous year.

The GII indicators are grouped into innovation inputs and outputs. The following table reflects Jamaica's rankings over time¹.

Jamaica's ranking over time

	GII	Input	Output	Efficiency
2018	81	83	76	80
2017	84	84	84	86
2016	89	83	99	104

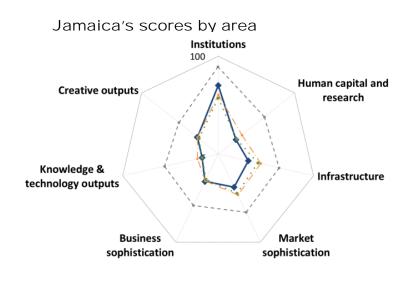
- Over the last three years, Jamaica demonstrates stable performance in innovation inputs, ranking 83rd-84th.
- It improves in innovation outputs, moving up 8 positions from 2017 and 23 from 2016. This year it reaches the 76th spot.
- The country also advances in the Innovation Efficiency Ratio (80th), gaining 6 positions from last year and 24 from 2016. This shows that Jamaica is becoming increasingly efficient in translating its innovation inputs into outputs. Such improvement in innovation efficiency is party driven by the improved rank in innovation outputs (76th), which is higher than the rank in inputs (83rd).

23rd Jamaica is ranked 23rd among the 34 upper-middle-income countries in the GII 2018.

1 Oth Jamaica is ranked 10th among the 18 countries in Latin America and the Caribbean.

¹ Note that year-on-year comparisons of the GII ranks are imperfect and influenced by changes in the GII model and data availability.

Benchmarking Jamaica to other upper-middle-income countries and the Latin America and the Caribbean region



→ Jamaica - Income group average · Regional average - Top 10

Upper-middle-income countries

Jamaica has high scores in 2 of the 7 GII areas – **Institutions** and **Business Sophistication**, in which it scores above the average of the upper-middle-income group.

Top scores in the areas *Business environment* and *Innovation linkages* are behind these high rankings.

Latin America and the Caribbean region

Compared to other countries in the Latin America and the Caribbean region, Jamaica performs above-average in 3 GII areas: Institutions, Business Sophistication, and Creative Outputs.

Jamaica's innovation profile

Strengths

- Jamaica's strengths are spread across 6 of the 7 GII areas.
- **Institutions** (41st), the top-ranked GII area for the country, is highlighted as a GII strength. Here Jamaica performs strongly in the area *Business environment* (23rd) and both its indicators, *Ease of resolving insolvency* (32nd) and *Ease of starting a business*, which ranks 5th in the world.
- Two additional strengths are exhibited in **Human Capital & Research** (88th) in the indicators *Expenditure on education* (35th) and *Government funding per pupil* (17th).
- In **Market Sophistication** (109th), Jamaica demonstrates strong performance in the indicator *Ease of getting credit* (18th).
- *ICT services imports* (42nd) and *FDI inflows* (24th) are strong indicators within **Business Sophistication** (60th).
- On the **innovation output** side, most comparative strengths for Jamaica are exhibited in **Creative Outputs** (67th), where the area *Intangible assets* (27th) and two of its four indicators *Trademarks by origin* (10th) and *Industrial designs by origin* (20th) are marked as strengths.
- Jamaica performs strongly also in the indicator Computer software spending (24th) within Knowledge & Technology Outputs (91st).

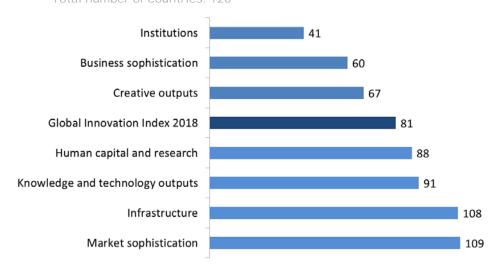
Weaknesses

- Most Jamaica's relative weaknesses are found in the innovation input side of the GII, and in particular among four of the five areas.
- Market Sophistication (109th), the lowest-ranked GII area for Jamaica, is the main weakness for the country. The component *Trade, competition & market scale* (120th) and two of its three indicators, *Applied tariff rate* (119th) and *Domestic market scale* (116th), are signaled as relative weaknesses.
- Weak performance is also shown in **Human Capital & Research** (88th) in the component Research & development R&D (117th) and both its available indicators, Global R&D companies expenditures (40th) and Quality of universities (78th).
- Jamaica exhibits weaknesses in **Infrastructure** (108th) in the area *General infrastructure* (114th) and the indicators *E-participation* (110th) and *Logistics performance* (111th).
- In **Business Sophistication** (60th), Jamaica performs relatively weakly in one indicator, *High-tech imports* (109th).
- On the **innovation output** side, Jamaica shows weakness in both the output areas of the GII.
- The indicators *Productivity growth* (100th) and *High-tech exports* (119th) present relative weaknesses in **Knowledge & Technology Outputs** (91st).
- In **Creative Outputs** (67th), the indicator *Creative goods exports* (107th) is relatively weak for Jamaica.

The following figure presents a summary of Jamaica's ranks in the 7 GII areas, as well as the overall rank in the GII 2018.

Jamaica's rank in the GII 2018 and the 7 GII areas

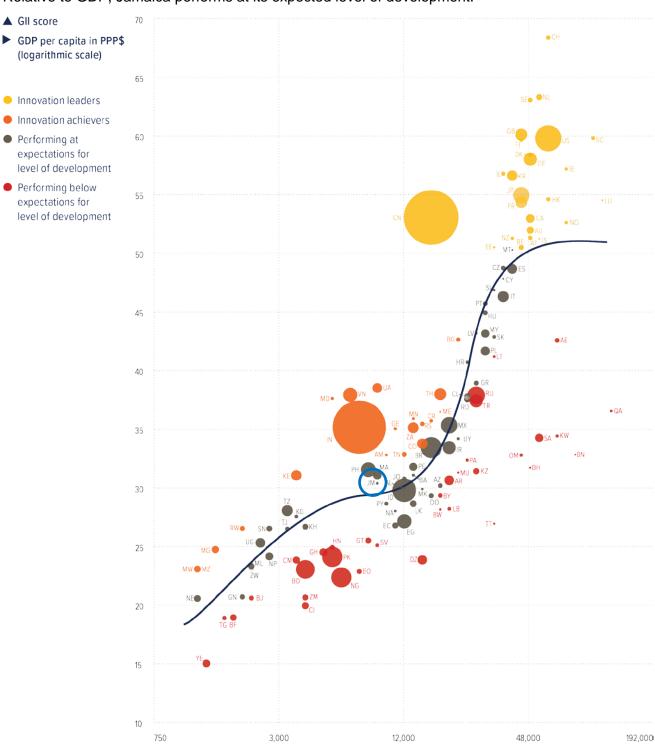
Rank 1 is the highest possible in each pillar Total number of countries: 126



Expected vs. Observed Innovation Performance

The GII bubble chart shows the relationship between income levels (GDP per capita) and innovation performance (GII score). The depicted trendline gives an indication of the expected innovation performance at different levels of income. Countries located above the trendline are performing better that what would be expected based on their income level. Countries below the line are Innovation Under-performers relative to GDP.

Relative to GDP, Jamaica performs at its expected level of development.



Missing and Outdated Data

More and better data improves the ability of a country to understand its strengths and weaknesses and give policymakers greater capacity to plan and adapt public policies accordingly. The GII 2018 covers 126 countries that complied with the minimum indicator coverage of 35 indicators in the Innovation Input Sub-Index (66%) and 18 indicators in the Innovation Output Sub-Index (66%).

The following tables show data for Jamaica that is not available or that is outdated.

Missing Data

Code	Indicator	Country Year	Model Year	Source
2.1.3	School life expectancy, years	n/a	2016	UNESCO Institute for Statistics
2.1.4	PISA scales in reading, maths & science	n/a	2015	OECD PISA
2.2.2	Graduates in science & engineering, %	n/a	2016	UNESCO Institute for Statistics
2.2.3	Tertiary inbound mobility, %	n/a	2016	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	n/a	2016	UNESCO Institute for Statistics
2.3.2	Gross expenditure on R&D, % GDP	n/a	2016	UNESCO Institute for Statistics
4.2.3	Venture capital deals/bn PPP\$ GDP	n/a	2017	Thomson Reuters, Thomson One Banker Private Equity, SDC Platinum
5.1.3	GERD performed by business, % GDP	n/a	2016	UNESCO Institute for Statistics
5.1.4	GERD financed by business, %	n/a	2015	UNESCO Institute for Statistics
5.1.5	Females employed w/advanced degrees, %	n/a	2016	ILO, ILOSTAT
5.2.3	GERD financed by abroad, %	n/a	2015	UNESCO Institute for Statistics
5.2.4	JV-strategic alliance deals/bn PPP\$ GDP	n/a	2017	Thomson Reuters, Thomson One Banker Private Equity, SDC Platinum
5.3.5	Research talent, % in business enterprise	n/a	2016	UNESCO Institute for Statistics
6.1.2	PCT patents by origin/bn PPP\$ GDP	n/a	2017	WIPO, Intellectual Property Statistics
6.1.3	Utility models by origin/bn PPP\$ GDP	n/a	2016	WIPO, Intellectual Property Statistics
6.2.5	High- & medium-high-tech manufactures, %	n/a	2015	UNIDO, Industrial Statistics
7.2.2	National feature films/mn pop. 15-69	n/a	2015	UNESCO Institute for Statistics
7.2.3	Entertainment & Media market/th pop. 15–69	n/a	2016	PwC's Global Entertainment and Media Outlook, 2017–2021
7.2.4	Printing & other media, % manufacturing	n/a	2015	UNIDO, Industrial Statistics
7.3.4	Mobile app creation/bn PPP\$ GDP	n/a	2017	App Annie Intelligence

Outdated Data

Code	Indicator	Country Year	Model Year	Source
2.2.1	Tertiary enrolment, % gross	2015	2016	UNESCO Institute for Statistics
4.2.2	Market capitalization, % GDP	2011	2016	World Bank, World Development Indicators
5.1.1	Knowledge-intensive employment, %	2008	2016	ILO, ILOSTAT
5.1.2	Firms offering formal training, % firms	2010	2013	World Bank, Enterprise Surveys
7.3.3	Wikipedia edits/mn pop. 15-69	2014	2017	Wikimedia Foundation







	6	83	Upper-middle	LCN	8	80		tion (mn) 2.9	26.2	9,162.6	<u> </u>	84
				Score/Value	Rank	,				Scor	e/Value	Rank
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					48		5.1					[78]
					51		5.1.1			oyment, %0		74
			S*		47		5.1.2			g, % firms [©]		60
					6.4		5.1.3		-	ess, % GDP		n/a
					64		5.1.4			5, %		n/a
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						• •	5.2.2			nt [†]		65
			SS*			• •	5.2.3			%		n/a
	Ease of re	esolving insolver	ncy*	69.3	32	• •	5.2.4			bn PPP\$ GDP		n/a
							5.2.5		•	n PPP\$ GDP		58
							F 2	I/m accidenda			20.4	68
-	Human (capital & rese	arch	23.1	88		5.3 5.3.1			nts, % total trade		40
	Education			47.8	62		5.3.2			tal trade		109
	Expenditu	ire on education	n, % GDP	5.4	35	•	5.3.3	-		ıl trade		42
			il, secondary, % GE		17	• •	5.3.4					24
	School life	e expectancy, ye	ears	n/a	n/a		5.3.5			ess enterprise		n/a
		_	aths & science		n/a					•		
-	Pupil-teac	her ratio, secon	dary	18.1	77							
	Tertiary ed	ducation		21.6	[89]			Knowled	dae & technolo	gy outputs	16.7	91
			ss [©]		85	\Diamond	_					
	Graduates	s in science & e	ngineering, %	n/a	n/a		6.1 6.1.1	_				94 74
	Tertiary in	bound mobility,	%	n/a	n/a		6.1.2			9DP PP\$ GDP		n/a
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)		n/a	0 V	6.1.4			s/bn PPP\$ GDP		105
			D, % GDP		n/a		6.1.5					100
			op 3, mn US\$		40	$\bigcirc \diamondsuit$						00
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							6.2.1			vorker, % -64	. ,	63
							6.2.3			ng, % GDP		24
	Infrastru	cture		31.6	108	\Diamond	6.2.4			s/bn PPP\$ GDP		106
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					79		6.3	Knowledo	a diffusion			89
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	ICT use*				78		6.3.1	Intellectua	al property recein	ts % total trade		
				39.4	78 103	\Diamond	6.3.1 6.3.2			ts, % total trade tal trade	0.1	57
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	Governme E-participa General in Electricity	ent's online servation* output, kWh/ca	rice*	39.4 35.5 271 227 1,477.4	103 110 114 87	○ ○ 	6.3.2 6.3.3	High-tech ICT servic	net exports, % to	tal tradeal trade	0.1 0.0 2.5	57 119 46
! !	Governme E-participa General in Electricity Logistics	ent's online serv ation* output, kWh/capperformance*	rice*	39.4 35.5 271 227 1,477.4 15.6	103 110 114 87	○ ♦ ♦	6.3.2 6.3.3	High-tech ICT servic FDI net ou	net exports, % to ses exports, % tota utflows, % GDP	tal tradeal trade	0.1 0.0 2.5 0.5	57 119 46
	Governme E-participa General ir Electricity Logistics I Gross cap	ent's online serv ation* offastructure output, kWh/cal performance* bital formation, %	p		103 110 114 87 111 101	○ ♦ ♦	6.3.2 6.3.3 6.3.4	High-tech ICT service FDI net ou	net exports, % to ses exports, % tota utflows, % GDP	tal tradel trade	0.1 0.0 2.5 0.5	57 119 46 68
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	Governme E-participe General ir Electricity Logistics Gross cap Ecologica GDP/unit Environme ISO 14001 Market s Credit	ent's online servation* output, kWh/capperformance* ital formation, % I sustainability of energy use ental performance environmental	p	39.4 35.5 22.7 22.7 1,477.4 15.6 18.3 33.2 7.9 58.6 \$ GDP0.6	103 110 114 87 111 101 82 74 68 84	◇◇◇◇	6.3.2 6.3.3 6.3.4 7.1 7.1.1 7.1.2 7.1.3 7.1.4 7.2 7.2.1	Creative Intangible Trademarl Industrial ICTs & bu ICTs & org Creative Cultural & National for	net exports, % to ses exports, % tota utflows, % GDP e outputs	tal trade	01002505273527108.27062.652.32401	57 119 46 68 67 27 10 20 54 70 [117] 60
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	Governme E-participe General ir Electricity Logistics Gross cap Ecologica GDP/unit Environme ISO 14001 Market s Credit Ease of g Domestic Microfinar Investmer Ease of pr	ent's online servation*	p	39.4 35.5 27.1 22.7 1,477.4 15.6 33.2 7.9 58.6 \$ GDP0.6 37.6 32.4 80.0 32.1 0.3 41.4 55.0	103 110 114 87 111 101 82 74 68 84 109 79 18 96 46 60 78	◇◇◇◇	6.3.2 6.3.3 6.3.4 7.1 7.1.1 7.1.2 7.1.3 7.1.4 7.2 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5	Creative Intangible Trademarl Industrial ICTs & bu ICTs & org Cultural & National fi Entertainn Printing & Creative g Online cre Generic to	net exports, % to see exports, % GDP assets	tal trade	0100250527.3527108.27062.652.301	57 119 46 68 67 27 10 20 54 70 [117] 60 n/a n/a 107 98
	Governme E-participe General ir Electricity Logistics Gross cap Ecologica GDP/unit Environme ISO 14001 Market s Credit Ease of gp Domestic Microfinar Investmer Ease of pp Market ca	ent's online servation*	p	39.4 35.5 27.1 22.7 1,477.4 15.6 33.2 7.9 58.6 \$ GDP0.6 37.6 32.4 80.0 32.1 0.3 41.4 55.0 32.1	103 110 114 87 111 101 82 74 68 84 109 79 18 96 46 60 78 44	◇◇◇◇	6.3.2 6.3.3 6.3.4 71 7.1.1 7.1.2 7.1.3 7.1.4 7.2 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 7.3	Creative Intangible Trademarl Industrial ICTs & bu ICTs & org Creative Q Cultural & National fi Entertainn Printing & Creative Q Online cre Generic to Country-co	net exports, % to tes exports, % total titlows, % GDP	tal trade	0100250527.352.7108.27062.652.301	57 119 46 68 67 27 10 20 54 70 [117] 60 n/a n/a 107 98 78
	Governme E-participe General ir Electricity Logistics Gross cap Ecologica GDP/unit Environme ISO 14001 Market s Credit Ease of go Domestic Microfinar Investmer Ease of pi Market ca Venture c	ent's online servation*	p	39.4 35.5 27.1 22.7 1,477.4 15.6 18.3 33.2 7.9 58.6 \$GDP 0.6 32.4 80.0 32.1 37.6 32.1 32.1	103 110 114 87 111 101 82 74 68 84 109 79 18 96 46 60 78 44 n/a	◇◇◇◇	6.3.2 6.3.3 6.3.4 7.1 7.1.1 7.1.2 7.1.3 7.1.4 7.2 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 7.3.1 7.3.2	Creative Intangible Trademarl Industrial ICTs & bu ICTs & org Cultural & National fi Entertainn Printing & Creative G Generic to Country-c Wikipedia	net exports, % to these exports, % total titlows, % GDP	tal trade		577 119 46 68 67 27 10 20 54 70 [117] 60 n/a n/a 107 98 81
22 1 1 1 1 1 1 1 1 1	Governme E-participe General ir Electricity Logistics Gross cap Ecologica GDP/unit Environme ISO 14001 Market s Credit Cre	ent's online servation*	p	39.4 35.5 27.1 22.7 1,477.4 15.6 18.3 33.2 7.9 58.6 \$ GDP0.6 32.4 80.0 32.10.3 41.4 55.0 32.11/a	103 110 114 87 111 101 82 74 68 84 109 79 18 96 46 60 78 44 n/a	◇◇◇◇	6.3.2 6.3.3 6.3.4 7.1 7.1.1 7.1.2 7.1.3 7.1.4 7.2 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 7.3.1 7.3.2 7.3.3	Creative Intangible Trademarl Industrial ICTs & bu ICTs & org Cultural & National fi Entertainn Printing & Creative G Generic to Country-c Wikipedia	net exports, % to these exports, % total titlows, % GDP	tal trade		67 119 46 68 27 10 20 54 70 [117] 60 n/a n/a 107 98 78 81 98
22	Governme E-participe General ir Electricity Logistics Gross cap Ecologica GDP/unit Environme ISO 14001 Market s Credit Cre	ent's online servation*	p	39.4 35.5 27.1 22.7 1,477.4 15.6 33.2 58.6 \$GDP0.6 37.6 32.4 80.0 32.10.3 41.4 55.0 32.11/a39.1	103 110 114 87 111 101 82 74 68 84 109 79 18 96 46 60 78 44 n/a	◇◇◇◇	6.3.2 6.3.3 6.3.4 7.1 7.1.1 7.1.2 7.1.3 7.1.4 7.2 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 7.3.1 7.3.2 7.3.3	Creative Intangible Trademarl Industrial ICTs & bu ICTs & org Cultural & National fi Entertainn Printing & Creative G Generic to Country-c Wikipedia	net exports, % to these exports, % total titlows, % GDP	tal trade		67 119 46 68 27 10 20 54 70 [117] 60 n/a n/a 107 98 78 81 98

 $\textbf{NOTES:} \bullet \text{ indicates a strength;} \bigcirc \text{ a weakness;} \bullet \text{ an income group strength;} \bigcirc \text{ an income group weakness;} ^* \text{ an index;} ^\dagger \text{ a survey question.}$ ① indicates that the country's data are older than the base year; see Appendix II for details, including the year of the data, at http://globalinnovationindex.org. $Square\ brackets\ indicate\ that\ the\ data\ minimum\ coverage\ (DMC)\ requirements\ were\ not\ met\ at\ the\ sub-pillar\ or\ pillar\ level;\ see\ page\ 75\ of\ this\ appendix\ for\ details.$