



COSTA RICA

56th Costa Rica ranks 56th 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 Costa Rica 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 Costa Rica in the GII 2021 is between ranks 51 and 58.

	GII	Innovation inputs	Innovation outputs
2021	56	66	49
2020	56	66	51
2019	55	68	48

Rankings for Costa Rica (2019–2021)

- Costa Rica performs better in innovation outputs than innovation inputs in 2021.
- This year Costa Rica ranks 66th in innovation inputs, the same as last year but higher than 2019.
- As for innovation outputs, Costa Rica ranks 49th. This position is higher than last year but lower than 2019.

10th Costa Rica ranks 10th among the 34 upper middle-income group economies.

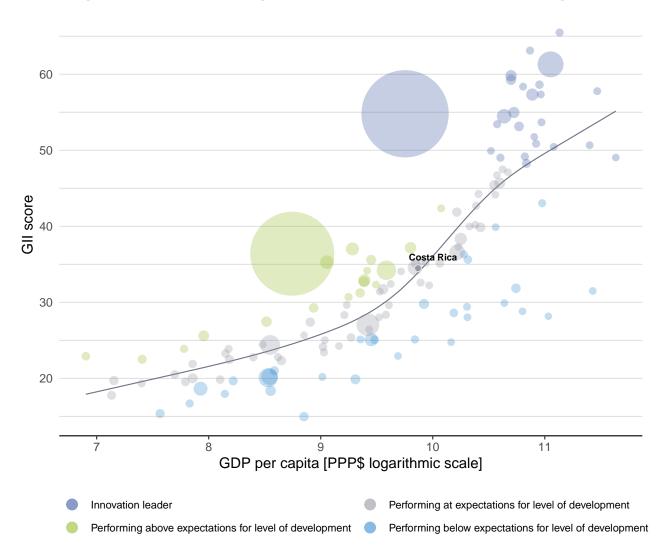
3rd Costa Rica ranks 3rd among the 18 economies in Latin America and the Caribbean.



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



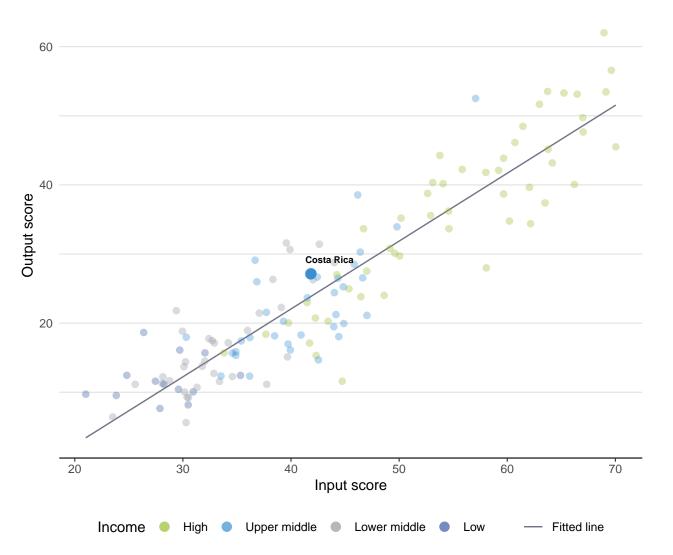
The positive relationship between innovation and development



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.

Costa Rica produces more innovation outputs relative to its level of innovation investments.

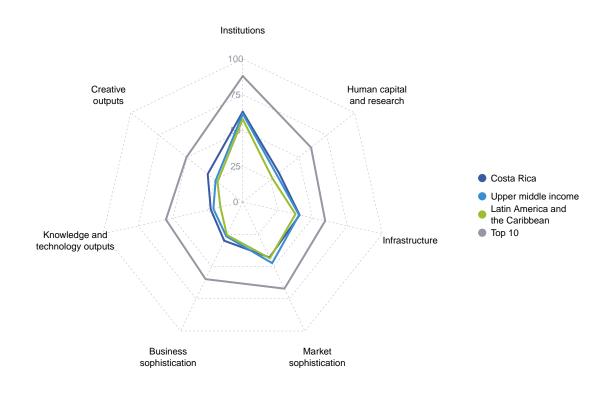


Innovation input to output performance



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

The seven GII pillar scores for Costa Rica



Upper middle-income group economies

Costa Rica performs above the upper middle-income group average in six pillars, namely: Institutions; Human capital and research; Infrastructure; Business sophistication; Knowledge and technology outputs; and, Creative outputs.

Latin America and the Caribbean

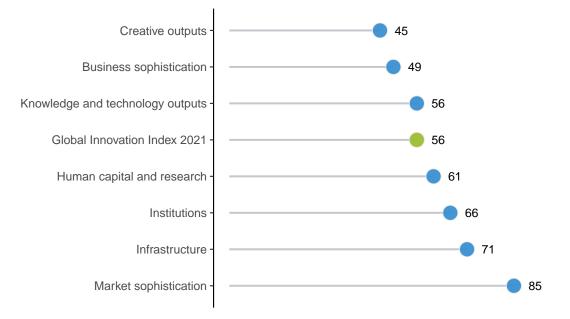
Costa Rica performs above the regional average in six pillars, namely: Institutions; Human capital and research; Infrastructure; Business sophistication; Knowledge and technology outputs; and, Creative outputs.



OVERVIEW OF RANKINGS IN THE SEVEN GII 2021 AREAS

Costa Rica performs best in Creative outputs and its weakest performance is in Market sophistication.

The seven GII pillar ranks for Costa Rica



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



INNOVATION STRENGTHS AND WEAKNESSES

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

Strengths and weaknesses for Costa Rica

Strengths				Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank		
2.1	Education	18	1.3	Business environment	112		
2.1.1	Expenditure on education, % GDP	6	1.3.1	Ease of starting a business	110		
3.3.1	GDP/unit of energy use	14	1.3.2	Ease of resolving insolvency	114		
4.1.1	Ease of getting credit	14	2.2.2	Graduates in science and engineering, %	99		
4.3.1	Applied tariff rate, weighted avg., %	20	2.3.3	Global corporate R&D investors, top 3, mn US\$	41		
5.1.2	Firms offering formal training, %	12	3.2	General infrastructure	115		
5.3	Knowledge absorption	22	3.2.3	Gross capital formation, % GDP	114		
5.3.1	Intellectual property payments, % total trade	7	4.2	Investment	125		
6.3.4	ICT services exports, % total trade	7	4.2.2	Market capitalization, % GDP	72		
7.1.1	Trademarks by origin/bn PPP\$ GDP	16	4.2.3	Venture capital investors, deals/bn PPP\$ GDP	73		
7.2	Creative goods and services	22	5.1.4	GERD financed by business, %	93		
7.2.1	Cultural and creative services exports, % total trade	1	7.1.2	Global brand value, top 5,000, % GDP	80		
7.2.4	Printing and other media, % manufacturing	13	7.1.3	Industrial designs by origin/bn PPP\$ GDP	109		

Costa Rica

Gll 2021 rank



Dutput rank	Input rank		Region	Popula	tion (mn)	GDP, PPP\$ (bn)	GDP per capita, PPP\$	GII 20	20 rai
49	66	Upper middle	LCN	5	5.1	99.0	19,309	ŧ	56
			Score/	Deels				Score/	Deels
💼 Institu	tions		Value 63.1	66	÷ 1	Business sophist	tication	Value 30.0	49
.1 Politica	l environment		63.2	51	5.1 H	Knowledge workers		29.3	73
.1.1 Political	and operationa		69.6	60	5.1.1 k	Knowledge-intensive		27.4	56
	nent effectiven		60.1	48		Firms offering formal to GERD performed by b			12 58
.2.1 Regulate	ory environme	ent	68.8 56.5	52 50 ♦		GERD financed by bus		1.3	93
.2.2 Rule of l			61.1	42 🔶	5.1.5 F	emales employed w/	advanced degrees, %	12.2	62
.2.3 Cost of	edundancy dis	missal	18.7	77		nnovation linkages	Deallaharatiant	16.9	97
	s environmen			112 ○ ◇		University-industry R& State of cluster develo		42.3 49.2	68 51
	starting a busir resolving insolv			110 ⊖ 114 ⊖ ◇	5.2.3 (GERD financed by abr	oad, % GDP	0.0	81
	j	,				loint venture/strategic a Patent families/bn PPF	alliance deals/bn PPP\$ GDP	0.0 0.0	85 83
🤗 Humai	n capital an	d research	32.4	61				43.7	22 (
.1 Educati			62.5	18 ● ♦		Knowledge absorption ntellectual property party	ayments, % total trade	43. 7 2.8	22 7
	ture on educati	on, % GDP	7.0	6 ● ◆	5.3.2 H	ligh-tech imports, %	total trade	8.9	46
.1.2 Governn	nent funding/pu	pil, secondary, % GDP/c	ap 24.1	19 🔶		CT services imports, ' FDI net inflows, % GD		1.3 4.5	58 24
	ife expectancy,	years maths and science	16.5 414.8	24 ♦ 59		Research talent, % in		n/a	n/a
	acher ratio, sec		13.3	58					
.2 Tertiary	education	-	28.2	80	- <u></u> -	Knowledge and	technology outputs	22.9	56
	enrolment, % g		57.7	52	6.1 F	Knowledge creation		61	100
	es in science a inbound mobili	nd engineering, %	15.1 n/a	99 ⊖ n/a		Patents by origin/bn P	PP\$ GDP	0.2	101
-	ch and develop	-	6.6	72		PCT patents by origin/		0.1	63
	hers, FTE/mn p		⊘ 345.0	74		Jtility models by origin Scientific and technica	al articles/bn PPP\$ GDP	0.0 9.0	63 92
	penditure on F		Ø 0.4	72		Citable documents H-		10.8	71
	orporate R&D i ersity ranking, t	nvestors, top 3, mn US\$ on 3*	6 0.0 15.1	41 ⊖	6.2 H	Knowledge impact		27.4	73
	only raining, i	66.0	10.1	00		abor productivity gro		1.6	32
₽[¢] I nfrasi	ructure		40.7	71		New businesses/th po Software spending, %		2.6 0.3	50 31
		sia atian ta aku ala sia a (10)	T -) 077	64		SO 9001 quality certif		2.8	78
.1 Informat .1.1 ICT acce		nication technologies (IC	Ts) 67.7 69.4	64 63		ligh-tech manufacturi	-	13.3	83
.1.2 ICT use*			67.8	51 🔶		Knowledge diffusion		35.3	27 79
	nent's online se	rvice*	68.2 65.5	72 77		ntellectual property re Production and export		0.0 51.6	79 47
.1.4 E-partic .2 General	infrastructur		18.2	115 O	6.3.3 H	ligh-tech exports, %	total trade	5.7	32
	ty output, GWh		2,268.5	77	6.3.4 I	CT services exports,	% total trade	6.6	7
	s performance*		34.6	72	Ø1	Creative outputs		31.3	45
	apital formation		15.4	114 〇				31.3	40
	cal sustainabi t of energy use		36.3 17.2	43 14 ● ◆		ntangible assets		38.5	42
	nental perform		52.5	50		Frademarks by origin/I Global brand value, to		85.8 0.0	16 80
.3.3 ISO 1400	1 environmenta	l certificates/bn PPP\$ GI	OP 1.1	65		ndustrial designs by o			109
و و و مهم						CTs and organizationa		63.0	36
Marke	t sophistica	tion	43.0	85		Creative goods and s	services rvices exports, % total trade	31.3 5.1	22 1
1 Credit			43.5	54		Vational feature films/		3.6	1 52
	getting credit* c credit to priv:	ate sector, % GDP	85.0 58.8	14 ● 57			dia market/th pop. 15–69	n/a	n/a
	ance gross loai		0.1	57 64		Printing and other mea Creative goods export	, ,) 2.2 0.1	13 93
.2 Investm	-		17.0	125 🔿 🗇		Online creativity	o, /o totul 1000	17.0	67
	protecting mind		48.0	96		•	ains (TLDs)/th pop. 15–69	11.2	37
	apitalization, %	6 GDP s, deals/bn PPP\$ GDP	4.4 0.0	72 ⊖ 73 ⊖	7.3.2 0	Country-code TLDs/th	1 pop. 15–69	1.5	76
	•	ts, deals/bn PPP\$ GDP		n/a		Vikipedia edits/mn po Mobile app creation/b		51.0 4.1	63 60
		and market scale	68.4	67					50
	tariff rate, weig		1.6	20 •					
.3.2 Domesti	c industry dive		80.2 99.0	77 84					
.3.3 Domesti	c market scale								

NOTES: \bullet indicates a strength; \bigcirc a weakness; \bullet an income group strength; \diamondsuit an income group weakness; * an index; † a survey question. \oslash 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.



DATA AVAILABILITY

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

Missing data for Costa Rica

Code	Indicator name	Economy year	Model year	Source
2.2.3	Tertiary inbound mobility, %	n/a	2018	UNESCO Institute for Statistics
4.2.4	Venture capital recipients, deals/bn PPP\$ GDP	n/a	2020	Refinitiv Eikon
5.3.5	Research talent, % in businesses	n/a	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
7.2.3	Entertainment and media market/th pop. 15–69	n/a	2020	PwC

Outdated data for Costa Rica

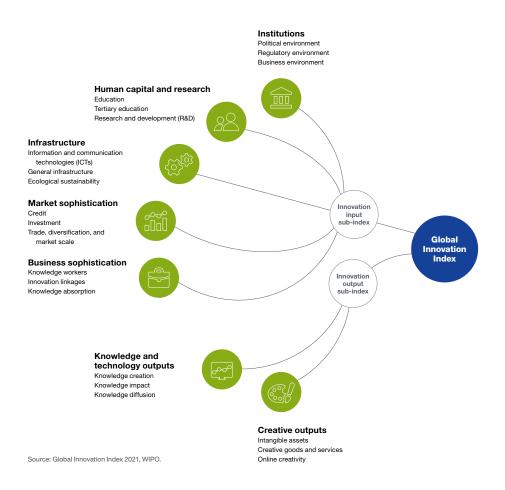
Code	Indicator name	Economy year	Model year	Source
2.3.1	Researchers, FTE/mn pop.	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.3.2	Gross expenditure on R&D, % GDP	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
5.1.1	Knowledge-intensive employment, %	2010	2019	International Labour Organization
5.1.2	Firms offering formal training, %	2010	2019	World Bank
5.1.3	GERD performed by business, % GDP	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
7.2.4	Printing and other media, % manufacturing	2016	2018	United Nations Industrial Development 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.