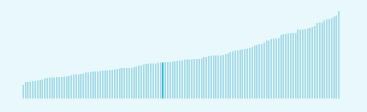


The Global Innovation Index (GII) ranks world economies according to their innovation capabilities.

Consisting of **roughly 80 indicators**, grouped into innovation inputs and outputs, the GII **aims to capture the multi-dimensional facets of innovation**.

Costa Rica ranking in the Global Innovation Index 2023

Costa Rica ranks 74th among the 132 economies featured in the GII 2023.



Costa Rica ranks 19th among the 33 uppermiddle-income group economies.



 Costa Rica ranks 7th among the 19 economies in Latin America and the Caribbean.



> Costa Rica GII Ranking (2020-2023)

The table shows the rankings of Costa Rica 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 Costa Rica in the GII 2023 is between ranks 65 and 78.

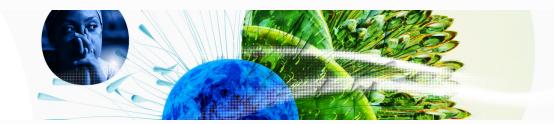
	GII Position
2020	56th
2021	56th
2022	68th
2023	74th

Innovation Inputs	Innovation Outputs
66th	51st
66th	49th
67th	71st
66th	81st

Costa Rica performs worse in innovation outputs than innovation inputs in 2023.

This year Costa Rica ranks 66th in innovation inputs. This position is higher than last year.

Costa Rica ranks 81st in innovation outputs. This position is lower than last year.

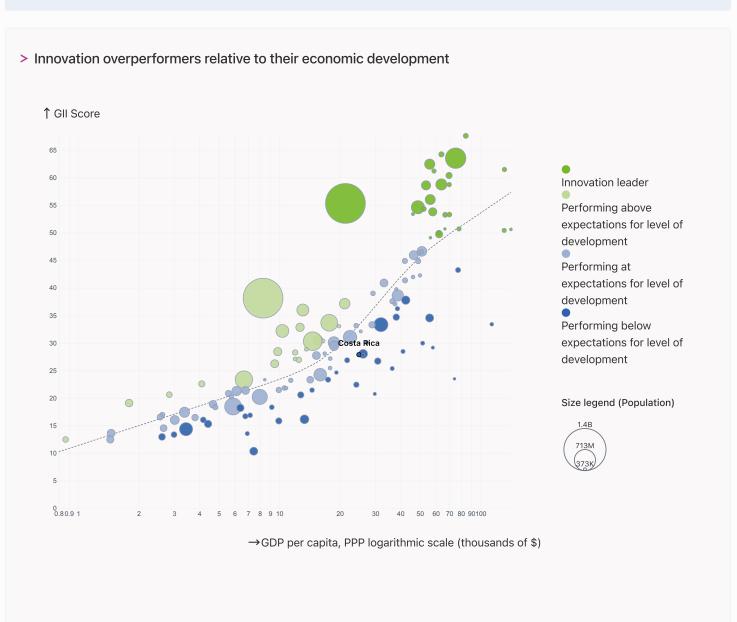


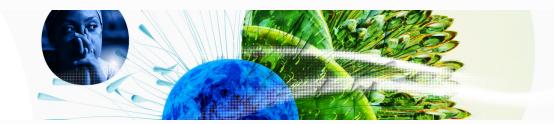
→ Expected vs. observed innovation performance

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 below expectations for its level of development.



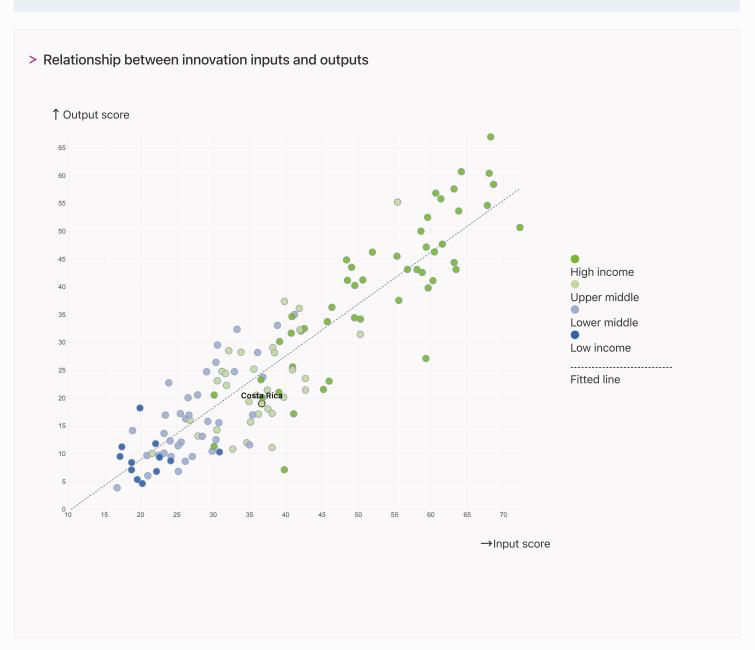


→ Effectively translating innovation investments into innovation outputs

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.



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





→ Overview of Costa Rica's rankings in the seven areas of the GII in 2023

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

Highest rankings → 48th Institutions 62nd Infrastructure 63rd Business sophistication 70th Knowledge and technology outputs 74th Global Innovation Index 79th Human capital and research ← Lowest rankings 89th Creative outputs 90th Market sophistication

> Highest rankings



Costa Rica ranks highest in Institutions (48th), Infrastructure (62nd), Business sophistication (63rd) and Knowledge and technology outputs (70th).

> Lowest rankings



Costa Rica ranks lowest in Market sophistication (90th), Creative outputs (89th) and Human capital and research (79th).

The full WIPO Intellectual Property Statistics profile for Costa Rica can be found on this link.



→ Benchmark of Costa Rica against other country groupings for each of the seven areas of the GII Index

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

> Upper-Middle-Income economies

Costa Rica performs below the upper-middle-income group average in Knowledge and technology outputs, Creative outputs,
Business sophistication, Market sophistication, Human capital and research.

> Latin America And The Caribbean

Costa Rica performs above the regional average in Knowledge and technology outputs, Business sophistication, Human capital and research, Infrastructure, Institutions.

Knowledge and technology outputs

Top 10 | Score: 58.96

Upper middle income | Score: 22.36

Costa Rica | Score: 21.69

LCN | Score: 17.14

Top 10 | 56.09

Upper middle income | 23.16

LCN | 18.91

Costa Rica | 16.25

Business sophistication

Top 10 | 64.39

Upper middle income | 29.27

Costa Rica | 28.67

LCN | 26.15

Market sophistication

Top 10 | 61.93

Upper middle income | 35.45

LCN | 29.74

Costa Rica | 27.19

Human capital and research

Top 10 | 60.28

Upper middle income | 29.68

Costa Rica | 27.88

LCN | 24.92

Infrastructure

Top 10 | 62.83

Costa Rica | 42.01

Upper middle income | 40.40

LCN | 35.88

Institutions

Top 10 | 79.85

Costa Rica | 57.94

Upper middle income | 47.71

LCN | 41.12



→ Innovation strengths and weaknesses in Costa Rica

The table below gives an overview of the indicator strengths and weaknesses of Costa Rica in the GII 2023.



> Costa Rica's main innovation strengths are **Intellectual property payments**, % **total trade** (rank 8), **Expenditure on education**, % **GDP** (rank 9) and **GDP/unit of energy use** (rank 9).

Strengths Weaknesses

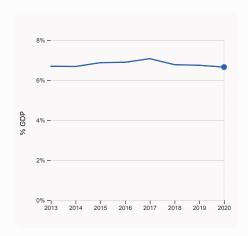
Rank	Code	Indicator name	Rank	Code	Indicator name
8	5.3.1	Intellectual property payments, % total trade	116	7.1.4	Industrial designs by origin/bn PPP\$ GDP
9	2.1.1	Expenditure on education, % GDP	108	6.1.1	Patents by origin/bn PPP\$ GDP
9	3.3.1	GDP/unit of energy use	95	2.2.2	Graduates in science and engineering, %
15	6.3.4	ICT services exports, % total trade	86	5.1.4	GERD financed by business, %
21	2.1.2	Government funding/pupil, secondary, % GDP/cap	84	4.2.4	VC received, value, % GDP
21	7.1.2	Trademarks by origin/bn PPP\$ GDP	81	4.2.3	VC recipients, deals/bn PPP\$ GDP
26	5.3.4	FDI net inflows, % GDP	76	4.2.1	Market capitalization, % GDP
27	2.1.3	School life expectancy, years	74	7.1.3	Global brand value, top 5,000
30	6.3.3	High-tech exports, % total trade	48	6.2.2	Unicorn valuation, % GDP
32	6.2.3	Software spending, % GDP	40	2.3.3	Global corporate R&D investors, top 3, mn US\$



→ Costa Rica's innovation system

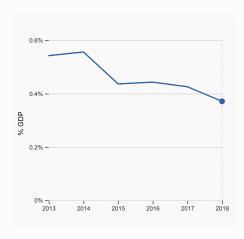
As far as practicable, the plots below present unscaled indicator data.

> Innovation inputs in Costa Rica



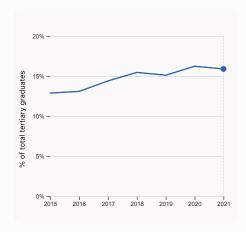
2.1.1 Expenditure on education, % GDP

was equal to 6.65% GDP in 2020, down by 0.09 percentage points from the year prior – and equivalent to an indicator rank of 9.



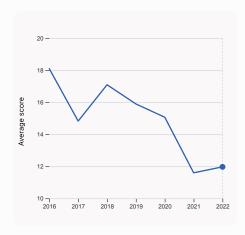
2.3.2 Gross expenditure on R&D, % GDP

was equal to 0.371% GDP in 2018, down by 0.054 percentage points from the year prior – and equivalent to an indicator rank of 68.



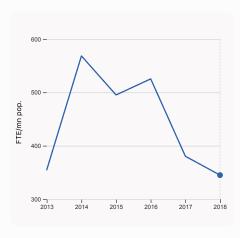
2.2.2 Graduates in science and engineering, %

was equal to 15.89% of total tertiary graduates in 2021, down by 0.34 percentage points from the year prior – and equivalent to an indicator rank of 95.



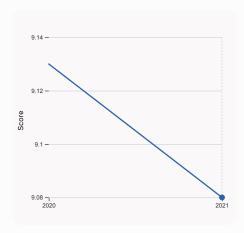
2.3.4 QS university ranking, top 3

was equal to an average score of 11.97 for the top 3 universities in 2022, up by 3.19% from the year prior – and equivalent to an indicator rank of 62.



2.3.1 Researchers, FTE/mn pop.

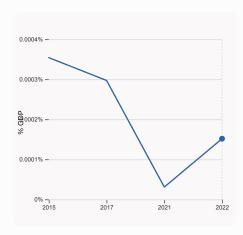
was equal to 345.04 FTE/mn pop. in 2018, down by 9.3% from the year prior – and equivalent to an indicator rank of 78.

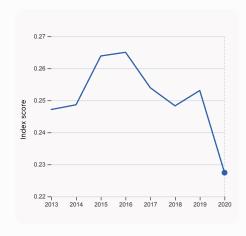


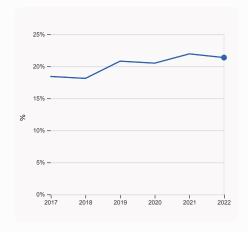
3.1.1 ICT access

was equal to a score of 9.08 in 2021, down by 0.55% from the year prior – and equivalent to an indicator rank of 44.









4.2.4 VC received, value, % GDP

was equal to 0.00015% GDP in 2022, up by 0.00012 percentage points from the year prior – and equivalent to an indicator rank of 84.

4.3.2 Domestic industry diversification

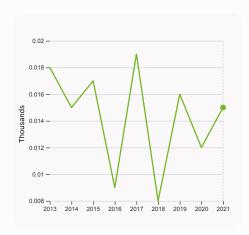
was equal to an index score of 0.227 in 2020, down by 10.14% from the year prior – and equivalent to an indicator rank of 78.

5.1.1 Knowledge-intensive employment, % was equal to 21.38% in 2022, down by 0.58

was equal to 21.38% in 2022, down by 0.58 percentage points from the year prior – and equivalent to an indicator rank of 72.

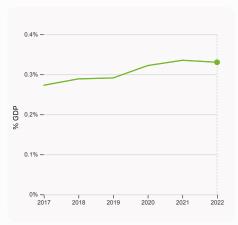


> Innovation outputs in Costa Rica



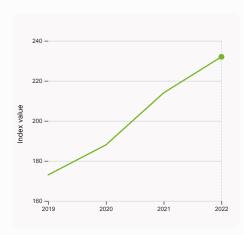
6.1.1 Patents by origin

was equal to 0.015 Thousands in 2021, up by 25% from the year prior – and equivalent to an indicator rank of 108.



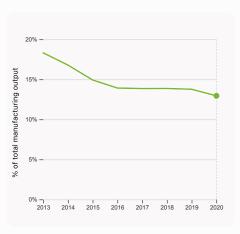
6.2.3 Software spending, % GDP

was equal to 0.33% GDP in 2022, down by 0.005 percentage points from the year prior – and equivalent to an indicator rank of 32.



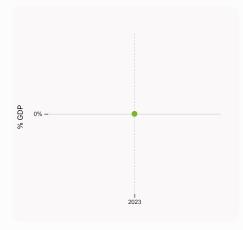
6.1.5 Citable documents H-index

was equal to an index value of 232 in 2022, up by 8.41% from the year prior – and equivalent to an indicator rank of 75.



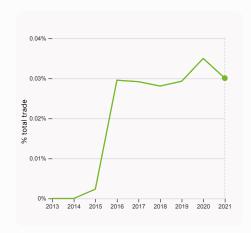
6.2.4 High-tech manufacturing, %

was equal to 12.95% of total manufacturing output in 2020, down by 0.82 percentage points from the year prior – and equivalent to an indicator rank of 83.



6.2.2 Unicorn valuation, % GDP

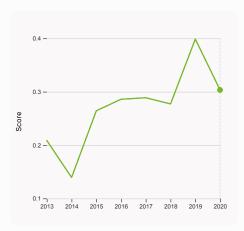
was equal to 0 % GDP in 2023 – and equivalent to an indicator rank of 48.



6.3.1 Intellectual property receipts, % total trade

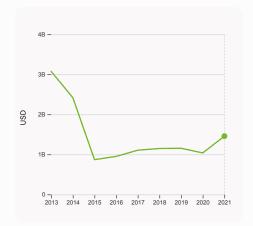
was equal to 0.03% total trade in 2021, down by 0.0049 percentage points from the year prior – and equivalent to an indicator rank of 80.





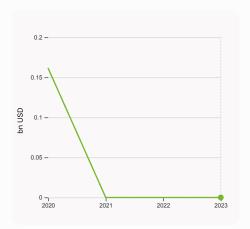
6.3.2 Production and export complexity

was equal to a score of 0.303 in 2020, down by 23.92% from the year prior – and equivalent to an indicator rank of 48.



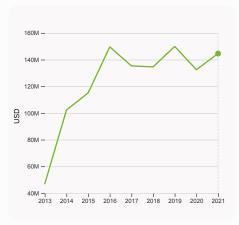
6.3.3 High-tech exports

was equal to 1,457,227,943 USD in 2021, up by 40.3% from the year prior – and equivalent to an indicator rank of 30.



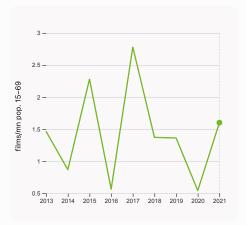
7.1.3 Global brand value, top 5,000

was equal to 0 bn USD in 2023 – and equivalent to an indicator rank of 74.



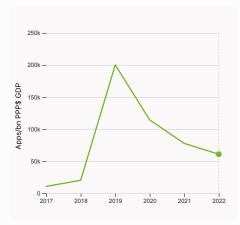
7.2.1 Cultural and creative services exports

was equal to 144,568,000 USD in 2021, up by 9.11% from the year prior – and equivalent to an indicator rank of 47.



7.2.2 National feature films/mn pop. 15-69

was equal to 1.6 films/mn pop. 15–69 in 2021, up by 196.95% from the year prior – and equivalent to an indicator rank of 51.



7.3.4 Mobile app creation/bn PPP\$ GDP

was equal to 60,717 Apps/bn PPP\$ GDP in 2022, down by 21.74% from the year prior – and equivalent to an indicator rank of 77.



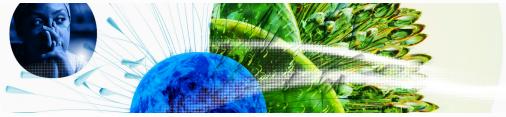
→ Costa Rica's innovation top performers

> 2.3.4 QS university ranking of Costa Rica's top universities

Rank	University	Score
511-520	UNIVERSIDAD DE COSTA RICA	23.90
801-1000	TECNOLOGICO DE COSTA RICA -TEC	12.00
1001-1200	UNIVERSIDAD NACIONAL, COSTA RICA, UNIVERSIDAD LATINOAMERICANA DE CIENCIA Y TECNOLOGIA COSTA RICA (ULACIT)	9.90

 $Source: QS\ Quacquarelli\ Symonds\ Ltd\ (https://www.topuniversities.com/university-rankings/world-university-rankings/2023).$

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".



Population (mn)

5.2

GDP, PPP\$ (bn)

129.9

GII 2023 rank

74

GDP per capita, PPP\$

24,836.6

Costa Rica

Output rank 81	Input rank 66	Income Upper middle	_	egion LCN
			Score / Value	Rank
★ Institutions			57.9	48
1.1 Institutional en			49.0	55
1.1.1 Operational sta 1.1.2 Government et	ability for businesses*		54.2 43.8	62 56
1.2 Regulatory env			66.1	55
1.2.1 Regulatory qua			53.9	48
1.2.2 Rule of law*			53.0	44
1.2.3 Cost of redund	-		18.7	79
1.3 Business envir			58.7	36
1.3.1 Policies for doi	ing business i hip policies and culture ¹		58.7 n/a	42 n/a
	tal and research		27.9	79
2.1 Education	tar and research		58.3	44
2.1.1 Expenditure or	n education, % GDP		6 .7	9 •
2.1.2 Government fu	unding/pupil, secondary,	% GDP/cap	25.1	21 •
2.1.3 School life exp	pectancy, years		16.5	27 •
	reading, maths and scie	ence	414.8	59
2.1.5 Pupil-teacher 2.2 Tertiary educa			12.8 19.8	59 91
2.2.1 Tertiary educa			■ 57.7	56
	science and engineering	, %	15.9	95 🔾
2.2.3 Tertiary inbou		,	1 .2	86
2.3 Research and	development (R&D)		5.5	72
2.3.1 Researchers, F			3 45.0	78
	iture on R&D, % GDP	mn LIC¢	© 0.4	68 40 ○ ◊
2.3.4 QS university	ate R&D investors, top 3 ranking, top 3	, 11111 054	0.0 12.1	62
⇔ Infrastructu	re		42.0	62
3.1 Information and	d communication tech	nologies (ICTs)	69.9	65
3.1 Information and 3.1.1 ICT access*	d communication tech	nologies (ICTs)	69.9 86.3	65 44
	d communication tech	nologies (ICTs)		
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's	online service*	nologies (ICTs)	86.3 73.9 64.8	44 64 70
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation	online service* 1*	nologies (ICTs)	86.3 73.9 64.8 54.7	44 64 70 66
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast	online service* n* tructure	nologies (ICTs)	86.3 73.9 64.8 54.7 21.1	44 64 70 66 86
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation	online service* n* tructure put, GWh/mn pop.	nologies (ICTs)	86.3 73.9 64.8 54.7	44 64 70 66
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity out	online service* n* tructure put, GWh/mn pop. ormance*	nologies (ICTs)	86.3 73.9 64.8 54.7 21.1 2,464.6	44 64 70 66 86 76
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity out 3.2.2 Logistics perf 3.2.3 Gross capital 3.3 Ecological sus	online service* n* tructure put, GWh/mn pop. ormance* formation, % GDP tainability	nologies (ICTs)	86.3 73.9 64.8 54.7 21.1 2,464.6 36.4 20.8 35.0	44 64 70 66 86 76 65 93 40
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity out 3.2.2 Logistics perf 3.2.3 Gross capital 3.3 Ecological sus 3.3.1 GDP/unit of en	online service* n* tructure put, GWh/mn pop. ormance* formation, % GDP tainability lergy use	nologies (ICTs)	86.3 73.9 64.8 54.7 21.1 2,464.6 36.4 20.8 35.0 19.3	44 64 70 66 86 76 65 93 40 9 ●
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity out 3.2.2 Logistics perf 3.2.3 Gross capital 3.3 Ecological sus 3.3.1 GDP/unit of en 3.3.2 Environmenta	online service* n* tructure put, GWh/mn pop. ormance* formation, % GDP tainability nergy use I performance*	nologies (ICTs)	86.3 73.9 64.8 54.7 21.1 2,464.6 36.4 20.8 35.0 19.3 46.4	44 64 70 66 86 76 65 93 40
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity out 3.2.2 Logistics perf 3.2.3 Gross capital 3.3 Ecological sus 3.3.1 GDP/unit of en 3.3.2 Environmenta 3.3.3 ISO 14001 env	online service* n* tructure put, GWh/mn pop. ormance* formation, % GDP tainability nergy use I performance* vironment/bn PPP\$ GDP	nologies (ICTs)	86.3 73.9 64.8 54.7 21.1 2,464.6 36.4 20.8 35.0 19.3 46.4 1.1	44 64 70 66 86 76 65 93 40 9 ●
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity out 3.2.2 Logistics perf 3.2.3 Gross capital 3.3 Ecological sus 3.3.1 GDP/unit of en 3.3.2 Environmenta 3.3.3 ISO 14001 env	online service* n* tructure put, GWh/mn pop. ormance* formation, % GDP tainability nergy use I performance* vironment/bn PPP\$ GDP	nologies (ICTs)	86.3 73.9 64.8 54.7 21.1 2,464.6 36.4 20.8 35.0 19.3 46.4 1.1	44 64 70 66 86 76 65 93 40 9 • 53 63
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity out 3.2.2 Logistics perf 3.2.3 Gross capital 3.3 Ecological sus 3.3.1 GDP/unit of en 3.3.2 Environmenta 3.3.3 ISO 14001 env Litt Market soph 4.1 Credit	online service* n* tructure put, GWh/mn pop. ormance* formation, % GDP tainability nergy use I performance* vironment/bn PPP\$ GDP	nologies (ICTs)	86.3 73.9 64.8 54.7 21.1 2,464.6 36.4 20.8 35.0 19.3 46.4 1.1	44 64 70 66 86 76 65 93 40 9 ● 53 63
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity out; 3.2.2 Logistics perf 3.2.3 Gross capital 3.3 Ecological sus 3.3.1 GDP/unit of en 3.3.2 Environmenta 3.3.3 ISO 14001 env Littl Market soph 4.1 Credit 4.1.1 Finance for sta	online service* * tructure put, GWh/mn pop. ormance* formation, % GDP tainability lergy use I performance* vironment/bn PPP\$ GDP		86.3 73.9 64.8 54.7 21.1 2,464.6 36.4 20.8 35.0 19.3 46.4 1.1 27.2	44 64 70 66 86 76 65 93 40 9 • 53 63
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity out 3.2.2 Logistics perf 3.2.3 Gross capital 3.3 Ecological sus 3.3.1 GDP/unit of en 3.3.2 Environmenta 3.3.3 ISO 14001 env Market soph 4.1 Credit 4.1.1 Finance for sta 4.1.2 Domestic crec 4.1.3 Loans from mi	online service* n* tructure put, GWh/mn pop. ormance* formation, % GDP tatinability lergy use I performance* //ironment/bn PPP\$ GDP istication	DP	86.3 73.9 64.8 54.7 21.1 2,464.6 36.4 20.8 35.0 19.3 46.4 1.1 27.2 21.7 n/a 60.4 n/a	44 64 70 66 86 76 65 93 40 9 53 63 90 88 n/a 58 n/a
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity out 3.2.2 Logistics perf 3.2.3 Gross capital 3.3 Ecological sus 3.3.1 GDP/unit of en 3.3.2 Environmenta 3.3.3 ISO 14001 env Market soph 4.1 Credit 4.1.1 Finance for sta 4.1.2 Domestic crec 4.1.3 Loans from mi 4.2 Investment	online service* n* tructure put, GWh/mn pop. ormance* formation, % GDP tainability elergy use I performance* vironment/bn PPP\$ GDP istication artups and scaleups† lit to private sector, % G crofinance institutions,	DP	86.3 73.9 64.8 54.7 21.1 2,464.6 36.4 20.8 35.0 19.3 46.4 1.1 27.2 21.7 n/a 60.4 n/a 2.4	44 64 70 66 86 76 65 93 40 9 • 53 63 90 88 n/a 58 n/a 99
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity out 3.2.2 Logistics perf 3.2.3 Gross capital 3.3 Ecological sus 3.3.1 GDP/unit of en 3.3.2 Environmenta 3.3.3 ISO 14001 env Intervention Market soph 4.1 Credit 4.1.1 Finance for sta 4.1.2 Domestic crec 4.1.3 Loans from mi 4.2 Investment 4.2.1 Market capital	online service* n* tructure put, GWh/mn pop. ormance* formation, % GDP tainability nergy use I performance* vironment/bn PPP\$ GDP istication artups and scaleups† lit to private sector, % G crofinance institutions, with the sector of the sec	DP % GDP	86.3 73.9 64.8 54.7 21.1 2,464.6 36.4 20.8 35.0 19.3 46.4 1.1 27.2 21.7 n/a 60.4 n/a 2.4 3.4	44 64 70 66 86 76 65 93 40 9 • 53 63 90 88 n/a 99 76 ○
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity outp 3.2.2 Logistics perf 3.2.3 Gross capital 3.3 Ecological sus 3.3.1 GDP/unit of en 3.3.2 Environmenta 3.3.3 ISO 14001 env Intervention Market soph 4.1 Credit 4.1.1 Finance for sta 4.1.2 Domestic crec 4.1.3 Loans from mi 4.2 Investment 4.2.1 Market capital 4.2.2 Venture capital	online service* n* tructure put, GWh/mn pop. ormance* formation, % GDP tainability nergy use Il performance* vironment/bn PPP\$ GDP istication artups and scaleups† dit to private sector, % G crofinance institutions, vi ization, % GDP al (VC) investors, deals/k	DP % GDP	86.3 73.9 64.8 54.7 21.1 2,464.6 36.4 20.8 35.0 19.3 46.4 1.1 27.2 21.7 n/a 60.4 n/a 2.4	44 64 70 66 86 76 65 93 40 9 • 53 63 90 88 n/a 58 n/a 99
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity outp 3.2.2 Logistics perf 3.2.3 Gross capital 3.3 Ecological sus 3.3.1 GDP/unit of en 3.3.2 Environmenta 3.3.3 ISO 14001 env Intervention Market soph 4.1 Credit 4.1.1 Finance for sta 4.1.2 Domestic crec 4.1.3 Loans from mi 4.2 Investment 4.2.1 Market capital 4.2.2 Venture capital	online service* n* tructure put, GWh/mn pop. ormance* formation, % GDP tainability nergy use Il performance* vironment/bn PPP\$ GDP istication artups and scaleups† dit to private sector, % G crofinance institutions, viriation, % GDP al (VC) investors, deals/bt deals/bn PPP\$ GDP	DP % GDP	86.3 73.9 64.8 54.7 21.1 2,464.6 36.4 20.8 35.0 19.3 46.4 1.1 27.2 21.7 n/a 60.4 n/a 2.4 3.4 0.0	44 64 70 66 86 76 65 93 40 9 • 53 63 90 88 n/a 99 76 62
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity outp 3.2.2 Logistics perf 3.2.3 Gross capital 3.3 Ecological sus 3.3.1 GDP/unit of en 3.3.2 Environmenta 3.3.3 ISO 14001 env Intervention Market soph 4.1 Credit 4.1.1 Finance for sta 4.1.2 Domestic crec 4.1.3 Loans from mi 4.2 Investment 4.2.1 Market capital 4.2.2 Venture capital 4.2.3 VC recipients, 4.2.4 VC received, venture services of the serv	online service* n* tructure put, GWh/mn pop. ormance* formation, % GDP tainability nergy use Il performance* vironment/bn PPP\$ GDP istication artups and scaleups† dit to private sector, % G crofinance institutions, viriation, % GDP al (VC) investors, deals/bt deals/bn PPP\$ GDP	DP % GDP on PPP\$ GDP	86.3 73.9 64.8 54.7 21.1 2,464.6 36.4 20.8 35.0 19.3 46.4 1.1 27.2 21.7 n/a 60.4 n/a 2.4 3.4 0.0 0.0	44 64 70 66 86 76 65 93 40 9 • 53 63 90 88 n/a 58 n/a 99 76 ○ 62 81 ○
3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity out 3.2.2 Logistics perf 3.2.3 Gross capital 3.3 Ecological sus 3.3.1 GDP/unit of en 3.3.2 Environmenta 3.3.3 ISO 14001 env Little Market soph 4.1 Credit 4.1.1 Finance for sta 4.1.2 Domestic crec 4.1.3 Loans from mi 4.2 Investment 4.2.1 Market capital 4.2.2 Venture capital 4.2.3 VC recipients, 4.2.4 VC received, v 4.3 Trade, diversif	online service* n* tructure put, GWh/mn pop. ormance* formation, % GDP tainability lergy use I performance* vironment/bn PPP\$ GDP istication artups and scaleups† dit to private sector, % G crofinance institutions, vi ization, % GDP al (VC) investors, deals/t deals/bn PPP\$ GDP value, % GDP ication, and market sc rate, weighted avg., %	DP % GDP on PPP\$ GDP	86.3 73.9 64.8 54.7 21.1 2,464.6 36.4 20.8 35.0 19.3 46.4 1.1 27.2 21.7 n/a 60.4 n/a 2.4 3.4 0.0 0.0 0.0	44 64 70 66 86 76 65 93 40 9 ● 53 63 90 88 n/a 58 n/a 99 76 ○ 62 81 ○ 84 ○

4.3.3 Domestic market scale, bn PPP\$

	_ 1,00	
	Score / Value	Rank
Business sophistication	28.7	63
5.1 Knowledge workers	18.5	104 ♦
5.1.1 Knowledge-intensive employment, %	21.4	72
5.1.2 Firms offering formal training, %	n/a	n/a
5.1.3 GERD performed by business, % GDP	© 0.1	58
5.1.4 GERD financed by business, %	© 2.3	86 ○ ◊
5.1.5 Females employed w/advanced degrees, %	11.8	65
5.2 Innovation linkages	19.9	73
5.2.1 University-industry R&D collaboration [†]	39.9	73
5.2.2 State of cluster development ⁺	52.8	43
5.2.3 GERD financed by abroad, % GDP	• 0.0	67
5.2.4 Joint venture/strategic alliance deals/bn PPP\$ GDP	• 0.0	88
5.2.5 Patent families/bn PPP\$ GDP	0.0	74
5.3 Knowledge absorption	47.6	28
5.3.1 Intellectual property payments, % total trade	3.0	8 •
5.3.2 High-tech imports, % total trade	8.3	64
5.3.3 ICT services imports, % total trade	1.3	65
5.3.4 FDI net inflows, % GDP	4.4	26 ●
5.3.5 Research talent, % in businesses	n/a	n/a
✓ Knowledge and technology outputs	21.7	70
6.1 Knowledge creation	5.4	110
6.1.1 Patents by origin/bn PPP\$ GDP	0.1	108 🔾
6.1.2 PCT patents by origin/bn PPP\$ GDP	0.0	85
6.1.3 Utility models by origin/bn PPP\$ GDP	0.1	62
6.1.4 Scientific and technical articles/bn PPP\$ GDP	n/a	n/a
6.1.5 Citable documents H-index	10.5	75
6.2 Knowledge impact	25.9	69
6.2.1 Labor productivity growth, %	1.4	47
6.2.2 Unicorn valuation, % GDP	0.0	48 ○ ◊
6.2.3 Software spending, % GDP	0.3	32 •
6.2.4 High-tech manufacturing, %	13.0	83
6.3 Knowledge diffusion	33.8	44
6.3.1 Intellectual property receipts, % total trade	0.0	80
6.3.2 Production and export complexity	58.9 6.3	48 30 ●
6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade	6.4	15
6.3.5 ISO 9001 quality/bn PPP\$ GDP	3.1	73
Creative outputs	16.2	89
7.1 Intangible assets	17.5	92
7.1.1 Intangible asset intensity, top 15, %	n/a	n/a
7.1.2 Trademarks by origin/bn PPP\$ GDP	76.0	21 •
7.1.3 Global brand value, top 5,000	0.0	74 ○ ◊
7.1.4 Industrial designs by origin/bn PPP\$ GDP	0.1	116 🔾
7.2 Creative goods and services	8.4	74
7.2.1 Cultural and creative services exports, % total trade	0.6	47
7.2.2 National feature films/mn pop. 15-69	1.6	51
7.2.3 Entertainment and media market/th pop. 15-69	n/a	n/a
7.2.4 Creative goods exports, % total trade	0.2	77
7.3 Online creativity	21.7	60
7.3.1 Generic top-level domains (TLDs)/th pop. 15-69	12.8	38
7.3.2 Country-code TLDs/th pop. 15-69	1.4	83
7.3.3 GitHub commits/mn pop. 15-69	11.2	53
7.3.4 Mobile app creation/bn PPP\$ GDP	61.4	77

NOTES: ● indicates a strength; O a weakness; ◆ an income group strength; ◇ an income group weakness; * an index; † a survey question, ● indicates that the economy's data are older than the base year; see appendices for details, including the year of the data, at https://www.wipo.int/gii-ranking. Square brackets [] indicate that the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level.

129.9



→ Data availability

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



> Costa Rica has missing data for seven indicators and outdated data for ten indicators.

> Missing data for Costa Rica

Code	Indicator name	Economy Year	Model Year	Source
1.3.2	Entrepreneurship policies and culture	n/a	2022	Global Entrepreneurship Monitor
4.1.1	Finance for startups and scaleups	n/a	2022	Global Entrepreneurship Monitor
4.1.3	Loans from microfinance institutions, % GDP	n/a	2021	International Monetary Fund, Financial Access Survey (FAS)
5.1.2	Firms offering formal training, %	n/a	2019	World Bank Enterprise Surveys
5.3.5	Research talent, % in businesses	n/a	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
7.1.1	Intangible asset intensity, top 15, %	n/a	2022	Brand Finance
7.2.3	Entertainment and media market/th pop. 15-69	n/a	2022	PwC, GEMO; United Nations, World Population Prospects; International Monetary Fund

> Outdated data for Costa Rica

Code	Indicator name	Economy Year	Model Year	Source
2.1.1	Expenditure on education, % GDP	2020	2021	UNESCO Institute for Statistics
2.1.3	School life expectancy, years	2019	2020	UNESCO Institute for Statistics
2.2.1	Tertiary enrolment, % gross	2019	2020	UNESCO Institute for Statistics
2.2.3	Tertiary inbound mobility, %	2019	2020	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	2018	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
2.3.2	Gross expenditure on R&D, % GDP	2018	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.3	GERD performed by business, % GDP	2018	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT

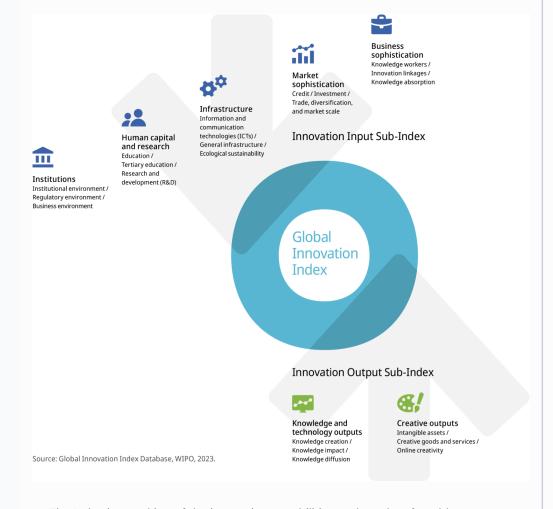


Code	Indicator name	Economy Year	Model Year	Source
5.1.4	GERD financed by business, %	2018	2020	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.2.3	GERD financed by abroad, % GDP	2018	2020	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.2.4	Joint venture/strategic alliance deals/bn PPP\$ GDP	2021	2022	Refinitiv; International Monetary Fund



→ 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.