



CABO VERDE

89th

Cabo Verde ranks 89th 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 Cabo Verde 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 Cabo Verde in the GII 2021 is between ranks 89 and 97.

Rankings for Cabo Verde (2019–2021)

	GII	Innovation inputs	Innovation outputs
2021	89	96	88
2020	100	99	90
2019			

- Cabo Verde performs better in innovation outputs than innovation inputs in 2021.
- This year Cabo Verde ranks 96th in innovation inputs, higher than last year.
- As for innovation outputs, Cabo Verde ranks 88th. This position is higher than last year.

11th

Cabo Verde ranks 11th among the 34 lower middle-income group economies.

4th

Cabo Verde ranks 4th among the 27 economies in Sub-Saharan Africa.

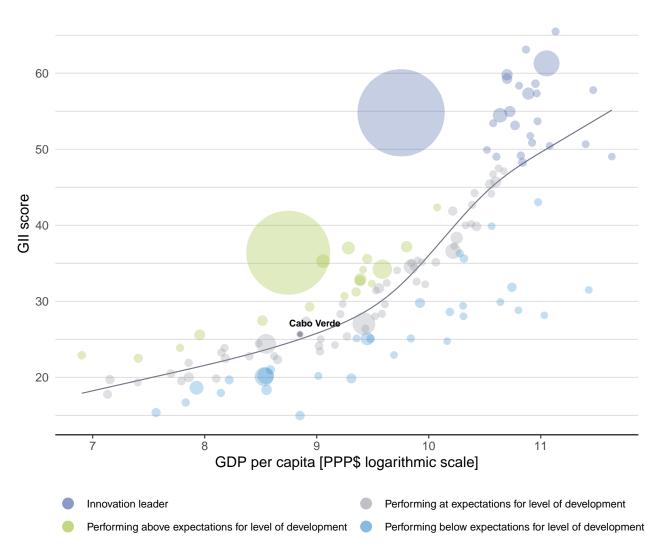




The bubble chart below shows the relationship between income levels (GDP per capita) and innovation performance (GII score). The trend line gives an indication of the expected innovation performance according to income level. Economies appearing above the trend line are performing better than expected and those below are performing below expectations.

Relative to GDP, Cabo Verde's performance is at expectations for its level of development.

The positive relationship between innovation and development



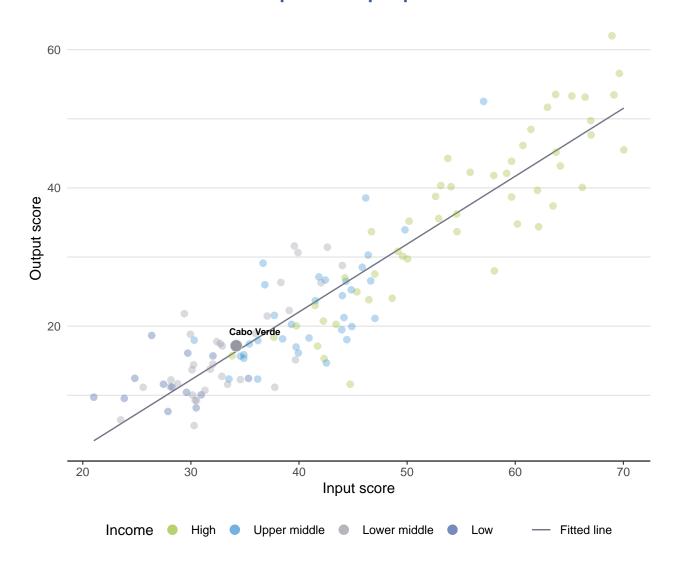




The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.

Cabo Verde produces more innovation outputs relative to its level of innovation investments.

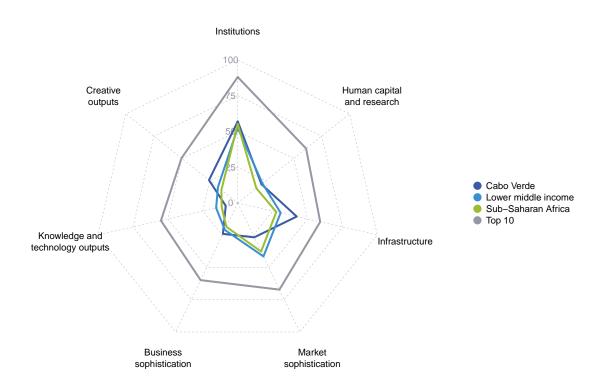
Innovation input to output performance





BENCHMARKING AGAINST OTHER LOWER MIDDLE-INCOME GROUP ECONOMIES AND SUB-SAHARAN AFRICA

The seven GII pillar scores for Cabo Verde



Lower middle-income group economies

Cabo Verde performs above the lower middle-income group average in four pillars, namely: Institutions; Infrastructure; Business sophistication; and, Creative outputs.

Sub-Saharan Africa

Cabo Verde performs above the regional average in five pillars, namely: Institutions; Human capital and research; Infrastructure; Business sophistication; and, Creative outputs.



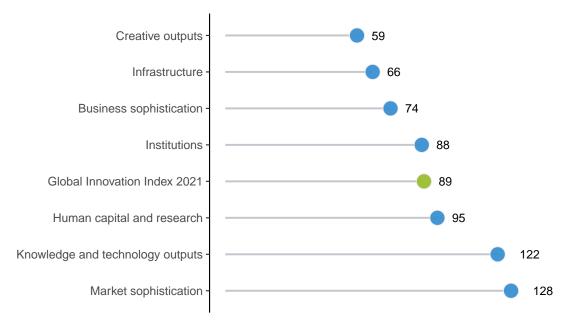




OVERVIEW OF RANKINGS IN THE SEVEN GII 2021 AREAS

Cabo Verde performs best in Creative outputs and its weakest performance is in Market sophistication.

The seven GII pillar ranks for Cabo Verde



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





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

Strengths and weaknesses for Cabo Verde

Strengths				Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank		
1.1.1	Political and operational stability	37	1.3	Business environment	130		
1.2.2	Rule of law	43	1.3.2	Ease of resolving insolvency	129		
2.1.1	Expenditure on education, % GDP	31	2.3.3	Global corporate R&D investors, top 3, mn US\$	41		
3.2.3	Gross capital formation, % GDP	5	2.3.4	QS university ranking, top 3	74		
5.3.4	FDI net inflows, % GDP	17	4.2.1	Ease of protecting minority investors	128		
6.2.2	New businesses/th pop. 15–64	36	4.3	Trade, diversification, and market scale	132		
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	36	4.3.2	Domestic industry diversification	107		
7.1.3	Industrial designs by origin/bn PPP\$ GDP	16	4.3.3	Domestic market scale, bn PPP\$	132		
7.2.4	Printing and other media, % manufacturing	20	5.2.5	Patent families/bn PPP\$ GDP	100		
7.3	Online creativity	42	5.3.2	High-tech imports, % total trade	124		
7.3.3	Wikipedia edits/mn pop. 15-69	28	6.1.5	Citable documents H-index	132		
			6.3	Knowledge diffusion	127		
			6.3.3	High-tech exports, % total trade	131		

89

Output rank	Input rank	Income	Region	Popula	ation (mn) GDP, PPP\$ (bn)	GDP per capita, PPP\$	GII 20)20 ran
88	96	Lower middle	SSF		0.6	3.9	6,980	1	100
			Score/	Б.,				Score/	5.
îî Institu	itions		Value 57.0	88		Business sophist	tication	Value 23.9	
	I environment and operations		63.7 76.8	49 ♦ 37 • ♦		Knowledge workers Knowledge-intensive	employment, %	23.6 17.1	[89] 89
	nent effectiven		57.2	56 ♦	5.1.2	Firms offering formal to	raining, %	n/a	n/a
-	tory environm	ent	65.2	64 ♦		GERD performed by b GERD financed by bus		n/a n/a	n/a n/a
.2.1 Regulate .2.2 Rule of I	ory quality* aw*		37.6 60.3	87 43 ● ◆	E 1 E	Females employed w/a		7.6	83
	redundancy dis	smissal	17.4	73		Innovation linkages		26.7	[40]
.3 Busines	ss environmen	nt	42.2	130 🔾		University-industry R&		41.1	72
	starting a busir		84.5	93	E 0 0	State of cluster develo GERD financed by abr		46.3 n/a	67 n/a
.3.2 Ease or	resolving insolv	vency	0.0	129 ○ ◊	5.2.4	Joint venture/strategic	alliance deals/bn PPP\$ GDP	n/a	n/a
• Huma	n capital an	nd research	21.1	95		Patent families/bn PPF	•	0.0	100 🔾
	-					Knowledge absorption	on ayments, % total trade	21.4 0.8	84 50
.1 Educati .1.1 Expendi	ion iture on educati	ion % GDP	47.9 5.2	73 31 ●		High-tech imports, %		3.0	124 C
•		ıpil, % GDP ıpil, secondary, % GDP/c		49	5.3.3	ICT services imports, '	% total trade	1.4	55
	ife expectancy,		12.7	84		FDI net inflows, % GDI Research talent, % in I		5.7 n/a	17 ● n/a
	ales in reading, acher ratio, sec	maths and science	n/a ② 15.4	n/a 75	0.0.0	ricocaron taloni, 70 im	DU3111C33C3	11/4	11/α
•	education	ondary	14.9	102	مهمو	Knowledge and	technology outputs	8.6	[122]
	enrolment, % g	gross	23.6	95	_	· · · · ·	0, 1	-	
		nd engineering, %	16.1	93		Knowledge creation Patents by origin/bn P	PP\$ GDP	9.2	[85] 70
	inbound mobili		1.4	82		PCT patents by origin/		n/a	n/a
	ch and develop hers, FTE/mn p		0.6 ② 123.5	108 85		Utility models by origin		n/a	n/a
.3.2 Gross ex	xpenditure on F	R&D, % GDP	② 0.1	109	6.1.5	Scientific and technica Citable documents H-i	al articles/bn PPP\$ GDP index	14.4 0.0	59 132 (
		investors, top 3, mn US	0.0	41 0 0		Knowledge impact		13.7	
.s.4 Qs univ	ersity ranking, t	юрз	0.0	74 ○ ◊	6.2.1	Labor productivity gro		n/a	n/a
ద్ద ^భ Infrasi	tructure		42.3	66 ♦		New businesses/th po Software spending, %		4.0 n/a	36 € n/a
						ISO 9001 quality certif		7.5	36 €
.1 Informat .1.1 ICT acce		nicationtechnologies(IC	Ts) 49.0 57.9	95 80 ◆	6.2.5	High-tech manufacturi	ng, %	7.2	97
.1.2 ICT use			46.5	85		Knowledge diffusion		2.9	127
	nent's online se	ervice*	50.0	106		Intellectual property re Production and export		0.0 n/a	98 n/a
.1.4 E-partic	•	_	41.7	111		High-tech exports, %		0.0	131 0
	I infrastructur ty output, GWh		60.0 n/a	[4] n/a	6.3.4	ICT services exports, 9	% total trade	0.9	86
.2.2 Logistic	s performance	* '	n/a	n/a	01	O		05.5	
	apital formatior		42.2	5 ● ◆	6	Creative outputs		25.7	59
	cal sustainabi		17.8 n/a	113 n/a		Intangible assets		32.5	59
	mental perform		32.8	112		Trademarks by origin/l Global brand value, to		22.1 n/a	90 n/a
		al certificates/bn PPP\$ GI		87		Industrial designs by o		9 8.1	16 •
ا د د است					7.1.4	ICTs and organizationa	al model creation†	44.6	98
Marke	t sophistica	ation	26.6	128 0 0		Creative goods and s			
.1 Credit			29.0	111		Cultural and creative se National feature films/i	rvices exports, % total trade nn pop. 15–69	0.3 n/a	61 n/a
	getting credit*	ata sactor % CDD	35.0 58.7	118 ♦	7.2.3	Entertainment and me	dia market/th pop. 15-69	n/a	n/a
	ance gross loa	ate sector, % GDP ns, % GDP	58.7 n/a	58 n/a		Printing and other med Creative goods export		D 1.8 D 0.1	20 • 110
.2 Investm	•		24.0			Online creativity	., , , , , , , , , , , , , , , , , , ,	26.8	42 ●
.2.1 Ease of	protecting mind		24.0	128 ○ ◊			ains (TLDs)/th pop. 15-69	1.9	79
	capitalization, 9	% GDP rs, deals/bn PPP\$ GDP	n/a	n/a n/a	7.3.2	Country-code TLDs/th	pop. 15–69	2.0	71
		nts, deals/bn PPP\$ GDP	n/a n/a	n/a n/a		Wikipedia edits/mn po Mobile app creation/b		73.3 n/a	28 € n/a
		, and market scale		132 0 0		modiic app or caudii/Di	ф СС	11/4	ıı/a
.3.1 Applied	tariff rate, weig	hted avg., %	11.6	124 💠	>				
	ic industry dive			107 ○ ◊					
Domest	ic market scale	, υπ ΓΓΓΦ	3.9	132 ○ ◊	,				

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.



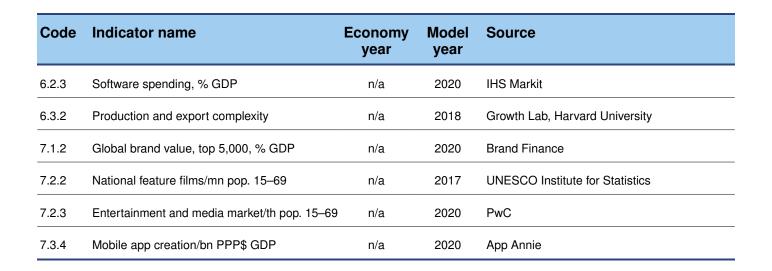


The following tables list data that are either missing or outdated for Cabo Verde.

Missing data for Cabo Verde

Code	Indicator name	Economy year	Model year	Source
2.1.4	PISA scales in reading, maths and science	n/a	2018	OECD Programme for International Student Assessment (PISA)
3.2.1	Electricity output, GWh/mn pop.	n/a	2018	International Energy Agency
3.2.2	Logistics performance	n/a	2018	World Bank
3.3.1	GDP/unit of energy use	n/a	2018	International Energy Agency
4.1.3	Microfinance gross loans, % GDP	n/a	2018	Microfinance Information Exchange
4.2.2	Market capitalization, % GDP	n/a	2019	World Federation of Exchanges
4.2.3	Venture capital investors, deals/bn PPP\$ GDP	n/a	2020	Refinitiv Eikon
4.2.4	Venture capital recipients, deals/bn PPP\$ GDP	n/a	2020	Refinitiv Eikon
5.1.2	Firms offering formal training, %	n/a	2019	World Bank
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
5.2.4	Joint venture/strategic alliance deals/bn PPP\$ GDP	n/a	2020	Refinitiv
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
6.2.1	Labor productivity growth, %	n/a	2020	The Conference Board





Outdated data for Cabo Verde

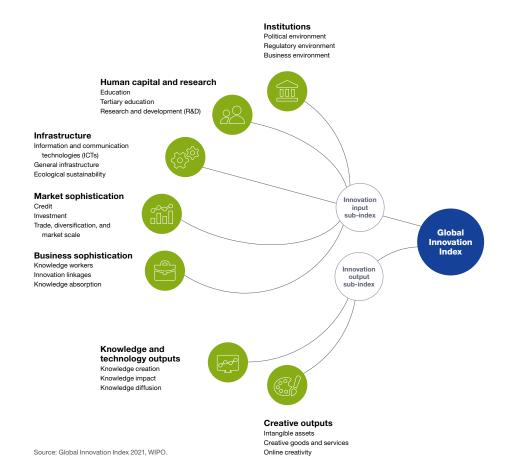
Code	Indicator name	Economy year	Model year	Source
2.1.5	Pupil-teacher ratio, secondary	2018	2019	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	2014	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.3.2	Gross expenditure on R&D, % GDP	2011	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
4.3.2	Domestic industry diversification	2017	2018	United Nations Industrial Development Organization
6.1.1	Patents by origin/bn PPP\$ GDP	2018	2019	World Intellectual Property Organization
6.2.5	High-tech manufacturing, %	2017	2018	United Nations Industrial Development Organization
6.3.3	High-tech exports, % total trade	2018	2019	United Nations, COMTRADE
7.1.3	Industrial designs by origin/bn PPP\$ GDP	2018	2019	World Intellectual Property Organization
7.2.4	Printing and other media, % manufacturing	2017	2018	United Nations Industrial Development Organization
7.2.5	Creative goods exports, % total trade	2012	2019	United Nations, COMTRADE





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.