



CAMEROON

123rd Cameroon ranks 123rd 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 Cameroon 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 Cameroon in the GII 2021 is between ranks 114 and 127.

	GII	Innovation inputs	Innovation outputs
2021	123	124	117
2020	119	120	119
2019	115	112	106

Rankings for Cameroon (2019–2021)

- Cameroon performs better in innovation outputs than innovation inputs in 2021.
- This year Cameroon ranks 124th in innovation inputs, lower than both 2020 and 2019.
- As for innovation outputs, Cameroon ranks 117th. This position is higher than last year but lower than 2019.

31St Cameroon ranks 31st among the 34 lower middle-income group economies.

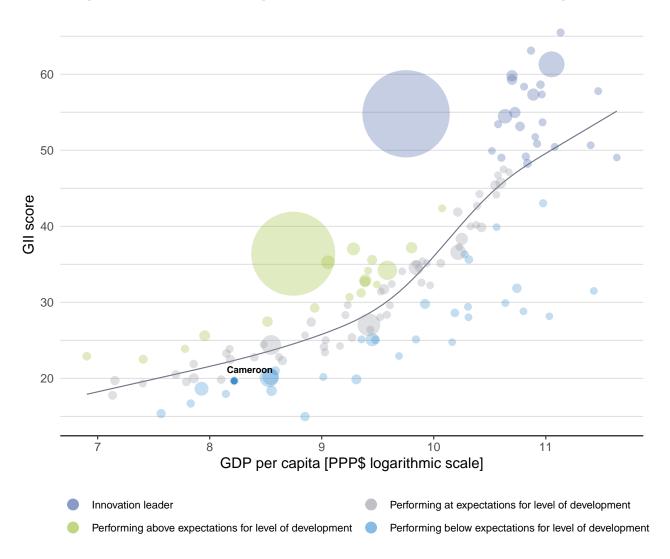
20th Cameroon ranks 20th among the 27 economies in Sub-Saharan Africa.



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, Cameroon's performance is below expectations for its level of development.



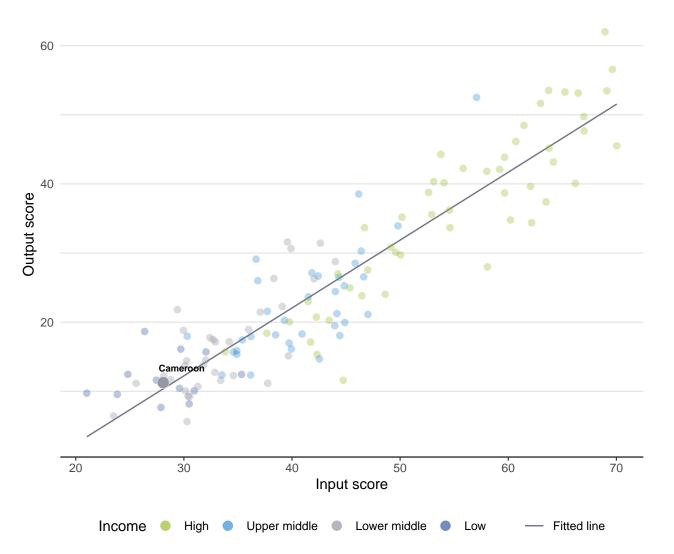
The positive relationship between innovation and development



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.

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

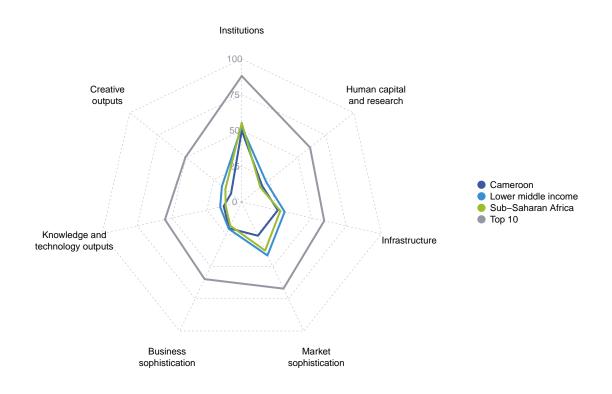


Innovation input to output performance



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

The seven GII pillar scores for Cameroon



Lower middle-income group economies

Cameroon performs below the lower middle-income group average in all GII pillars.

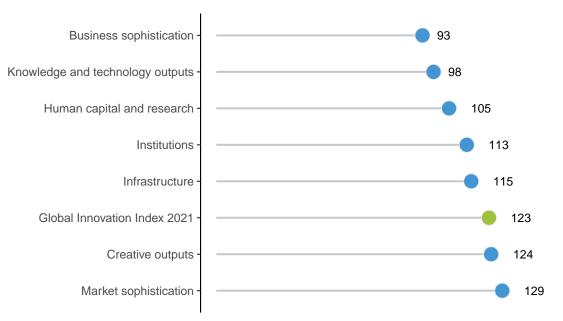
Sub-Saharan Africa

Cameroon performs above the regional average in three pillars, namely: Human capital and research; Business sophistication; and, Knowledge and technology outputs.



OVERVIEW OF RANKINGS IN THE SEVEN GII 2021 AREAS

Cameroon performs best in Business sophistication and its weakest performance is in Market sophistication.



The seven GII pillar ranks for Cameroon

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 Cameroon in the GII 2021.

Strengths and weaknesses for Cameroon

Strengths				Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank		
2.1.2	Government funding/pupil, secondary, % GDP/cap	60	1.2.2	Rule of law	127		
3.2.3	Gross capital formation, % GDP	32	2.3.3	Global corporate R&D investors, top 3, mn US\$	41		
4.1.3	Microfinance gross loans, % GDP	28	2.3.4	QS university ranking, top 3	74		
5.1.2	Firms offering formal training, %	35	3.1.2	ICT use	124		
5.2	Innovation linkages	76	4.2.1	Ease of protecting minority investors	124		
5.3.3	ICT services imports, % total trade	45	4.3	Trade, diversification, and market scale	128		
5.3.4	FDI net inflows, % GDP	71	4.3.1	Applied tariff rate, weighted avg., %	131		
6.1.4	Scientific and technical articles/bn PPP\$ GDP	61	5.3.1	Intellectual property payments, % total trade	117		
6.2.1	Labor productivity growth, %	37	6.3.2	Production and export complexity	119		
6.3.4	ICT services exports, % total trade	70	7.1.1	Trademarks by origin/bn PPP\$ GDP	118		
7.2.1	Cultural and creative services exports, % total trade	45	7.1.2	Global brand value, top 5,000, % GDP	80		

Cameroon

Gll 2021 rank



•	t rank	Input rank		Region	·	. ,	GDP, PPP\$ (bn)	GDP per capita, PPP\$	GII 20	
11	1	124	Lower middle	SSF	2	6.5	97.0	3,710	1	119
				Score/					Score/	
俞」	nstitu	tions		Value 49.9		÷.	Business sophist	tication	Value 20.4	Rank 93
				40.2						
		environment and operationa	l stability*	40.2 55.4			Knowledge workers Knowledge-intensive	employment, % ©		[88] 108
.1.2 0	Governm	ent effectivene	ess*	32.6	119		Firms offering formal to			
		ory environme	ent	48.0			GERD performed by b GERD financed by bus		n/a n/a	
	Rule of la	ry quality* w*		21.9 17.2	120 127 ⊖ ♢			advanced degrees, % ©		
.2.3 C	Cost of r	edundancy dis	missal	19.9	84		nnovation linkages		18.6	
		s environmen		61.4			Jniversity-industry R& State of cluster develo		40.0 42.0	
		tarting a busin esolving insolv		86.3 36.6	80 110		GERD financed by abr		n/a	
.0.2 L	-430 011	cool villig in solv	chey	00.0	110			alliance deals/bn PPP\$ GDP ©		
• • •	Humar	n capital an	d research	18.2	105		Patent families/bn PPF		0.0	91
	Educatio			35.7	103		Knowledge absorption ntellectual property party	on ayments, % total trade	18.8 0.0	
		on ure on educati	on, % GDP	35.7 3.1	103 93	5.3.2 H	ligh-tech imports, %	total trade ©	5.7	102
1.2 0	Governm	ent funding/pu	pil, secondary, % GDP/	i cap ⊘ 17.8	60 \bullet		CT services imports, ' FDI net inflows, % GDI		1.6 2.3	
		le expectancy,	years maths and science	⊘ 12.1 n/a	91 n/a		Research talent, % in I		2.5 n/a	
		cher ratio, sec		Ø 19.3	94					
.2 Т	Tertiary	education		19.0	96	- <u></u>	Knowledge and	technology outputs	12.9	98
		enrolment, % g		14.3	104	6.1 H	Knowledge creation		7.2	95
		nbound mobili	nd engineering, % ty, %	② 21.3 2.8	66 69	6.1.1 F	Patents by origin/bn P		0.3	85
	-	h and develop	-		[123]		PCT patents by origin/	-	0.0	
.3.1 F	Research	ners, FTE/mn p	oop.	n/a			Jtility models by origir Scientific and technica	al articles/bn PPP\$ GDP	0.0 14.3	61
		penditure on F	&D, % GDP nvestors, top 3, mn US	n/a \$\$0.0	n/a 41 ⊖ ♢		Citable documents H-		7.4	89
		rsity ranking, t		0.0 0.0	74 ○ ◊		Knowledge impact		26.1	
		· ·					_abor productivity gro New businesses/th po		1.3 n/a	37 n/a
₿¢ I	nfrast	ructure		25.8	115		Software spending, %		0.1	81
.1 h	nformati	onandcommu	nication technologies (IC	CTs) 34.2	120 💠		SO 9001 quality certif		0.7	
.1.1 10	CT acce		3 (. 34.4	117		High-tech manufacturi Knowledge diffusion	-	n/a 5.5	
	CT use*	ient's online se	nvice*	13.5 47.1	124 ⊖		ntellectual property re		0.0	
	E-partici			41.7	111	6.3.2 F	Production and export	complexity	6.8	
.2 0	General	infrastructure	9	24.1	87		High-tech exports, % CT services exports, 9		0.2	
		y output, GWh		342.1	114	0.0.1			1.0	
		performance* pital formation		25.5 27.2	91 32 ●	€!	Creative outputs		9.6	124
		al sustainabi		19.2			ntangible assets		13.3	120
.3.1 0	GDP/unit	of energy use	-	9.4	76		Frademarks by origin/l	on PPP\$ GDP		
		nental performa 1 environmenta	ance* Il certificates/bn PPP\$ (33.6 30P 0.2	108 118		Global brand value, to		0.0	
N	20 1700			0.2	110		ndustrial designs by o CTs and organization		0.4 42.4	
îΝ	Market	sophistica	tion	26.1	129 <u>0</u>		Creative goods and s			[103]
	Credit			28.2		7.2.1 (Cultural and creative se	rvices exports, % total trade	0.6	45
		etting credit*		28.2 60.0	74		National feature films/r Entertainment and me	nn pop. 15–69 dia market/th pop. 15–69	n/a n/a	
.1.2 C	Domestic	c credit to priva	ate sector, % GDP	Ø 15.2			Printing and other med		n/a	
		ance gross loar	ns, % GDP	0.7	28 ●		Creative goods export	s, % total trade ©		
	nvestm Ease of p	ent protecting mind	prity investors*	15.6 28.0	[127] 124 ⊖ ♢		Online creativity	aine (TI De)/th non 15 60		116
.2.2 N	Market c	apitalization, %	6 GDP	n/a	n/a		Generic top-level dom Country-code TLDs/th	ains (TLDs)/th pop. 15–69 1 pop. 15–69	0.2	119 81
			s, deals/bn PPP\$ GDF			7.3.3 V	Wikipedia edits/mn po	p. 15–69	21.2	118
			ts, deals/bn PPP\$ GD		73	7.3.4 N	Nobile app creation/b	n PPP\$ GDP	n/a	n/a
	-	ariff rate, weig	and market scale		128 ○ ◇ 131 ○ ◇					
.3.2 C	Domestic	industry dive	rsification	n/a	n/a					
00	Domestic	c market scale,	, bn PPP\$	97.0	86					

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 Cameroon.

Missing data for Cameroon

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)
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
4.2.2	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
4.3.2	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
5.2.3	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
6.2.2	New businesses/th pop. 15–64	n/a	2018	World Bank
6.2.5	High-tech manufacturing, %	n/a	2018	United Nations Industrial Development Organization
7.2.2	National feature films/mn pop. 15–69	n/a	2017	UNESCO Institute for Statistics
7.2.3	Entertainment and media market/th pop. 15–69	n/a	2020	PwC
7.2.4	Printing and other media, % manufacturing	n/a	2018	United Nations Industrial Development Organization



Code	Indicator name	Economy year	Model year	Source
7.3.4	Mobile app creation/bn PPP\$ GDP	n/a	2020	App Annie

Outdated data for Cameroon

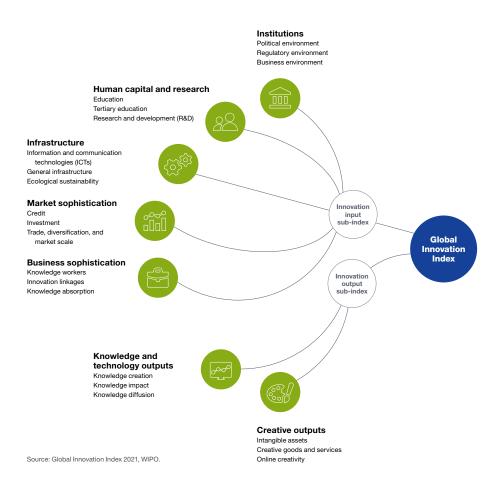
Code	Indicator name	Economy year	Model year	Source
2.1.2	Government funding/pupil, secondary, % GDP/cap	2012	2017	UNESCO Institute for Statistics
2.1.3	School life expectancy, years	2016	2018	UNESCO Institute for Statistics
2.1.5	Pupil-teacher ratio, secondary	2016	2019	UNESCO Institute for Statistics
2.2.2	Graduates in science and engineering, %	2010	2018	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
4.1.2	Domestic credit to private sector, % GDP	2018	2019	International Monetary Fund
5.1.1	Knowledge-intensive employment, %	2014	2019	International Labour Organization
5.1.2	Firms offering formal training, %	2016	2019	World Bank
5.1.5	Females employed w/advanced degrees, %	2014	2019	International Labour Organization
5.2.4	Joint venture/strategic alliance deals/bn PPP\$ GDP	2019	2020	Refinitiv
5.3.2	High-tech imports, % total trade	2017	2019	United Nations, COMTRADE
6.3.3	High-tech exports, % total trade	2017	2019	United Nations, COMTRADE
7.2.5	Creative goods exports, % total trade	2017	2019	United Nations, COMTRADE



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.