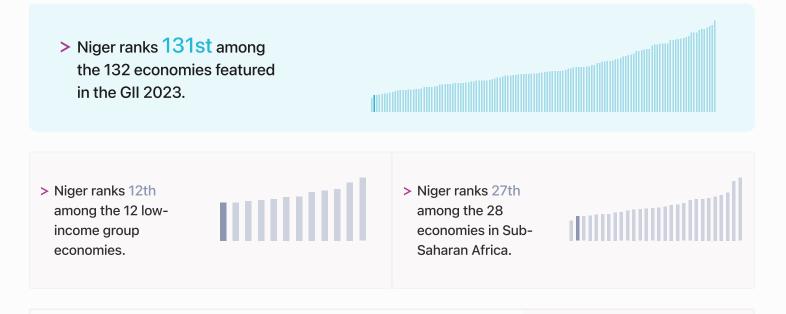


The Global Innovation Index (GII) ranks world economies according to their innovation capabilities.

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

Niger ranking in the Global Innovation Index 2023



> Niger GII Ranking (2020-2023)

The table shows the rankings of Niger over the past four years. Data availability and changes to the GII model framework influence year-onyear comparisons of the GII rankings. The statistical confidence interval for the ranking of Niger in the GII 2023 is between ranks 125 and 132.

	GII Position	Innovation Inputs	Innovation Outputs
2020	128th	124th	129th
2021	129th	125th	130th
2022	125th	119th	126th
2023	131st	124th	131st

Niger performs worse in innovation outputs than innovation inputs in 2023.

This year Niger ranks 124th in innovation inputs. This position is lower than last year.

Niger ranks 131st in innovation outputs. This position is lower than last year.

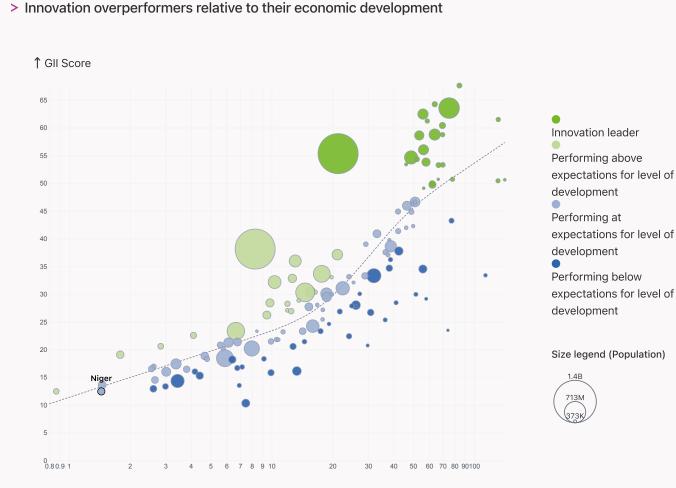


→ Expected vs. observed innovation performance

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

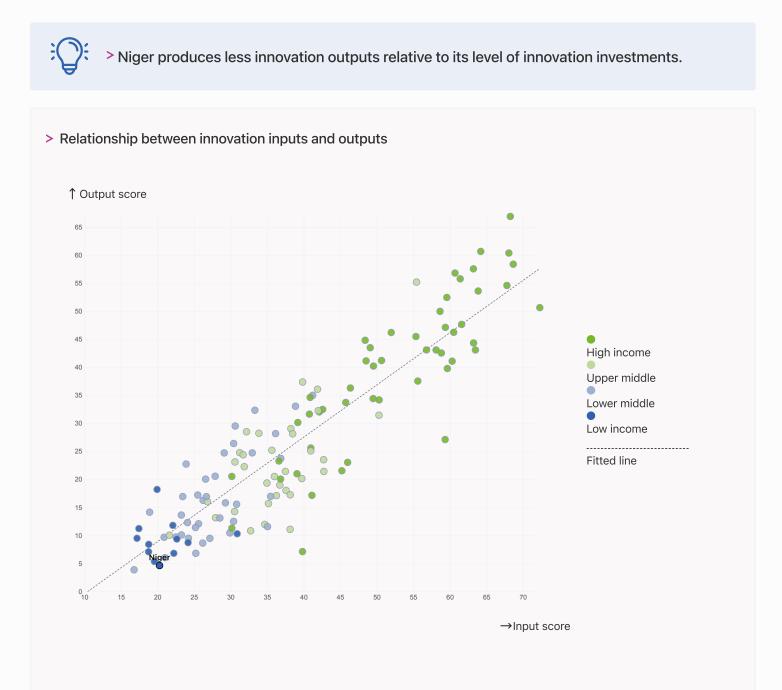


 \rightarrow GDP per capita, PPP logarithmic scale (thousands of \$)



→ Effectively translating innovation investments into innovation outputs

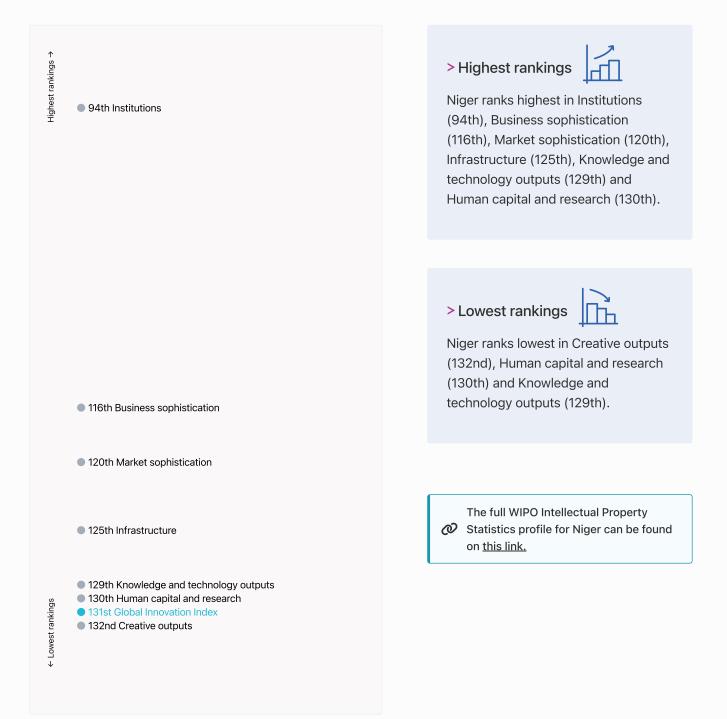
The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.

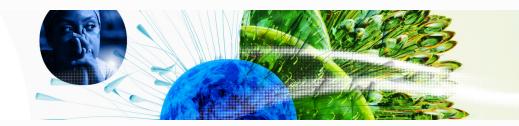




→ Overview of Niger's rankings in the seven areas of the GII in 2023

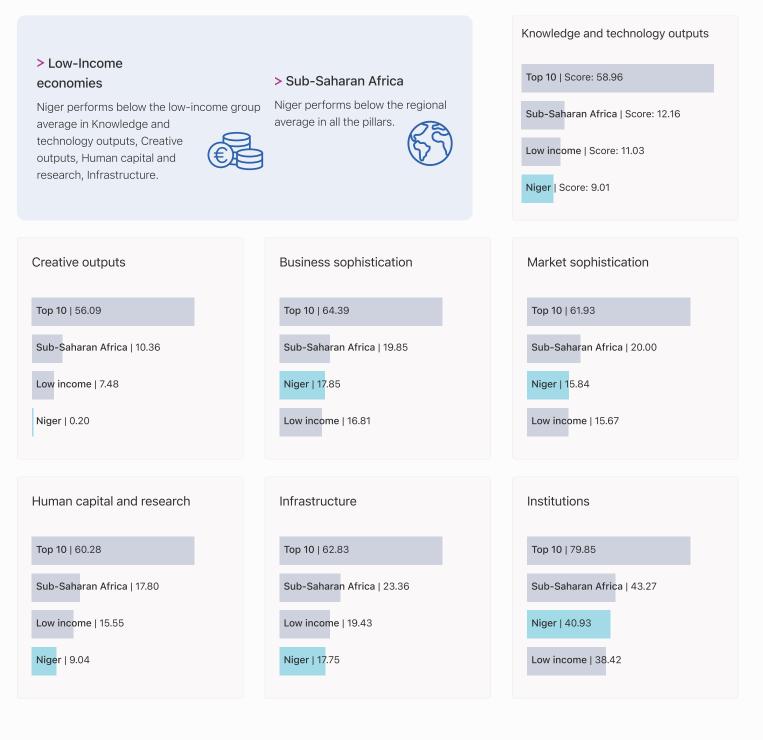
The chart shows the ranking for each of the seven areas that the GII comprises. The strongest areas for Niger are those that rank above the GII (shown in blue) and the weakest are those that rank below.





Benchmark of Niger against other country groupings for each of the seven areas of the GII Index

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





→ Innovation strengths and weaknesses in Niger

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

Niger's main innovation strengths are Gross capital formation, % GDP (rank 12), ICT services imports, % total trade (rank 26) and FDI net inflows, % GDP (rank 30).

Strengths

Weaknesses

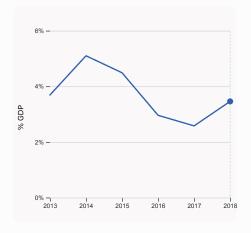
Rank	Code	Indicator name	Rank	Code	Indicator name
12	3.2.3	Gross capital formation, % GDP	132	7.3.3	GitHub commits/mn pop. 15-69
26	5.3.3	ICT services imports, % total trade	132	3.1.1	ICT access
30	5.3.4	FDI net inflows, % GDP	128	7.1.2	Trademarks by origin/bn PPP\$ GDP
36	6.2.1	Labor productivity growth, %	127	2.2.1	Tertiary enrolment, % gross
44	4.2.3	VC recipients, deals/bn PPP\$ GDP	126	3.2.1	Electricity output, GWh/mn pop.
46	2.2.3	Tertiary inbound mobility, %	120	7.1.4	Industrial designs by origin/bn PPP\$ GDP
54	1.2.3	Cost of redundancy dismissal	118	5.3.1	Intellectual property payments, % total trade
60	5.1.2	Firms offering formal training, %	113	2.1.3	School life expectancy, years
82	3.3.2	Environmental performance	101	6.1.2	PCT patents by origin/bn PPP\$ GDP
84	5.3.2	High-tech imports, % total trade	95	5.2.5	Patent families/bn PPP\$ GDP
			75	6.1.3	Utility models by origin/bn PPP\$ GDP
			71	2.3.4	QS university ranking, top 3
			48	6.2.2	Unicorn valuation, % GDP
			40	2.3.3	Global corporate R&D investors, top 3, mn US\$



→ Niger's innovation system

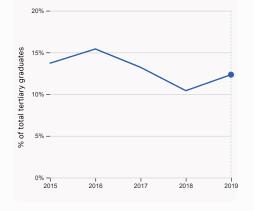
As far as practicable, the plots below present unscaled indicator data.

> Innovation inputs in Niger



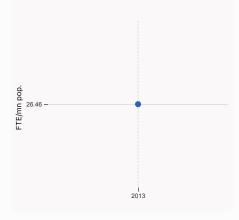
2.1.1 Expenditure on education, % GDP

was equal to 3.46% GDP in 2018, up by 0.88 percentage points from the year prior – and equivalent to an indicator rank of 93.



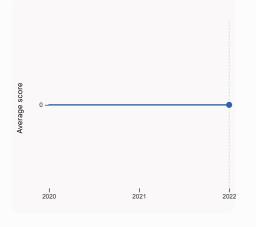
2.2.2 Graduates in science and engineering, %

was equal to 12.34% of total tertiary graduates in 2019, up by 1.92 percentage points from the year prior – and equivalent to an indicator rank of 104.



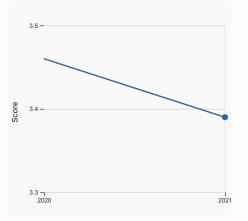
2.3.1 Researchers, FTE/mn pop.

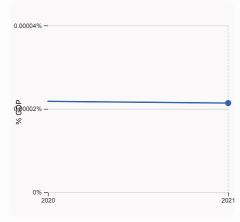
was equal to 26.46 FTE/mn pop. in 2013, equivalent to an indicator rank of 102.



2.3.4 QS university ranking, top 3

was equal to an average score of 0 for the top 3 universities in 2022, equivalent to an indicator rank of 71.





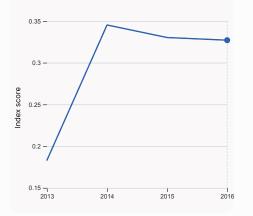
4.2.4 VC received, value, % GDP

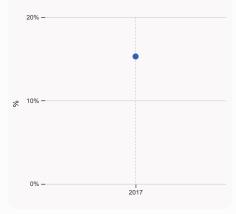
was equal to 0.00002% GDP in 2021, down by 0 percentage points from the year prior – and equivalent to an indicator rank of 95.

3.1.1 ICT access

was equal to a score of 3.39 in 2021, down by 2.023% from the year prior – and equivalent to an indicator rank of 132.







4.3.2 Domestic industry diversification

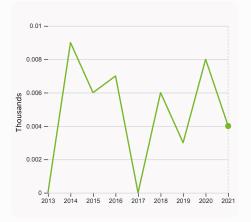
was equal to an index score of 0.327 in 2016, down by 0.96% from the year prior – and equivalent to an indicator rank of 99.

5.1.1 Knowledge-intensive employment, %

was equal to 15.27 % in 2017, equivalent to an indicator rank of 87.

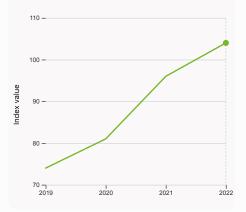


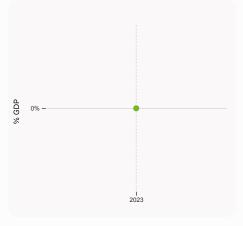
> Innovation outputs in Niger



6.1.1 Patents by origin

was equal to 0.004 Thousands in 2021, down by 50% from the year prior – and equivalent to an indicator rank of 109.



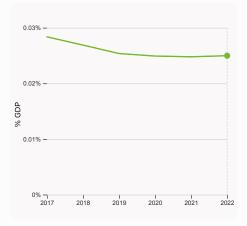


6.1.5 Citable documents H-index

was equal to an index value of 104 in 2022, up by 8.33% from the year prior – and equivalent to an indicator rank of 120.

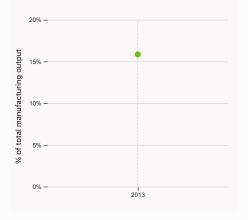
6.2.2 Unicorn valuation, % GDP

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



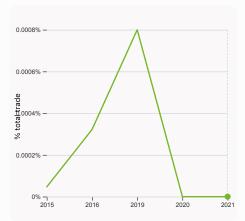
6.2.3 Software spending, % GDP

was equal to 0.025% GDP in 2022, up by 0.00019 percentage points from the year prior – and equivalent to an indicator rank of 119.



6.2.4 High-tech manufacturing, %

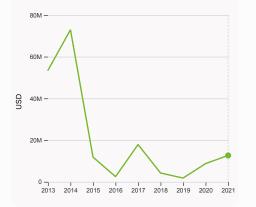
was equal to 15.85 % of total manufacturing output in 2013 – and equivalent to an indicator rank of 75.



6.3.1 Intellectual property receipts, % total trade

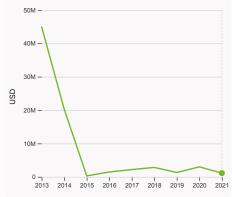
was equal to 0% total trade in 2021 – and equivalent to an indicator rank of 109.





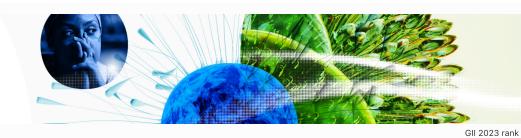
6.3.3 High-tech exports

was equal to 12,677,801 USD in 2021, up by 44.42% from the year prior – and equivalent to an indicator rank of 89.



7.2.1 Cultural and creative services exports

was equal to 1,130,000 USD in 2021, down by 62.35% from the year prior – and equivalent to an indicator rank of 92.



Niger

131	Input rank 124	Income Low	Regio		Population (mn) 26.2	GDP, PPP\$ (br 37.6
		\$	Score / Value	e Rank		
🏦 Institutions			40.9	94	🖶 Business sophist	ication
1.1 Institutional en	vironment		25.2	112	5.1 Knowledge workers	
1.1.1 Operational sta	bility for businesses*		30.6	117	5.1.1 Knowledge-intensiv	e employment, %
1.1.2 Government ef	fectiveness*		19.8	104	5.1.2 Firms offering form	al training, %
1.2 Regulatory env	rironment		56.7	82	5.1.3 GERD performed by	/ business, % GDP
1.2.1 Regulatory qua	ality*		22.8	114	5.1.4 GERD financed by b	ousiness, %
1.2.2 Rule of law*			27.9	87	5.1.5 Females employed	w/advanced degrees, %
1.2.3 Cost of redund	dancy dismissal		14.0	54 鱼	5.2 Innovation linkages	
1.3 Business envir	onment		n/a	n/a	5.2.1 University-industry	R&D collaboration ⁺
1.3.1 Policies for doi	ng business ⁺		n/a	n/a	5.2.2 State of cluster dev	elopment ⁺
1.3.2 Entrepreneurs	hip policies and culture ⁺		n/a	n/a	5.2.3 GERD financed by a	abroad, % GDP
•			0.0	100 0	5.2.4 Joint venture/strate	egic alliance deals/bn P
- Human capi	tal and research		9.0	130 🔶	5.2.5 Patent families/bn F	PPP\$ GDP
2.1 Education			19.1	129 🔷	5.3 Knowledge absorpt	ion
2.1.1 Expenditure or	education, % GDP		0 3.5	93	5.3.1 Intellectual property	/ payments, % total tra
2.1.2 Government fu	unding/pupil, secondary, % GE	P/cap	I1.8	87 🛇	5.3.2 High-tech imports,	% total trade
2.1.3 School life exp	ectancy, years		§ 6.4	113 🔿 🛇	5.3.3 ICT services import	s, % total trade
2.1.4 PISA scales in	reading, maths and science		n/a	n/a	5.3.4 FDI net inflows, % (GDP
2.1.5 Pupil-teacher	ratio, secondary		Q 29.7	120	5.3.5 Research talent, %	in businesses
2.2 Tertiary educa	tion		8.0	114	Knowledge and t	
2.2.1 Tertiary enroln	nent, % gross		4.4	127 🔿 🛇	Knowledge and t	echnology outputs
2.2.2 Graduates in s	cience and engineering, %		12.3	104 🛇	6.1 Knowledge creation	
2.2.3 Tertiary inbou	nd mobility, %		© 5.4	46 ●	6.1.1 Patents by origin/br	PPP\$ GDP
2.3 Research and o	development (R&D)		0.0	118	6.1.2 PCT patents by orig	in/bn PPP\$ GDP
2.3.1 Researchers, F	TE/mn pop.		26.5	102	6.1.3 Utility models by or	igin/bn PPP\$ GDP
2.3.2 Gross expendi	iture on R&D, % GDP		n/a	n/a	6.1.4 Scientific and techr	nical articles/bn PPP\$ G
2.3.3 Global corpora	ate R&D investors, top 3, mn l	JS\$	0.0	40 0 \0	6.1.5 Citable documents	H-index
2.3.4 QS university	ranking, top 3*		0.0	71 🔿 🛇	6.2 Knowledge impact	
t. Infractructu	ro		177	105	6.2.1 Labor productivity	growth, %
🎭 Infrastructu	le		17.7	120	6.2.2 Unicorn valuation,	% GDP
3.1 Information and	d communication technolog	ies (ICTs)	17.1	131 🛇	6.2.3 Software spending	% GDP
3.1.1 ICT access*			0.0	132 🔿 🛇	6.2.4 High-tech manufac	turing, %
3.1.2 ICT use*			12.7	130	6.3 Knowledge diffusio	n
	onlino convico*		32.6	119	6.3.1 Intellectual property	y receipts, % total trad
3.1.3 Government's	Unine service		52.0		6.2.2 Droduction and ovr	
			23.3	115		ort complexity
3.1.4 E-participatior	*			115 95	6.3.3 High-tech exports,	% total trade
3.1.4 E-participatior 3.2 General infrast	^{1*} tructure		23.3		6.3.3 High-tech exports, 6.3.4 ICT services export	% total trade s, % total trade
 3.1.3 Government's 3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity outp 3.2.2 Logistics perfection 	n* t ructure put, GWh/mn pop.		23.3 19.1	95	6.3.3 High-tech exports,	% total trade s, % total trade
3.1.4 E-participatior 3.2 General infrast 3.2.1 Electricity out 3.2.2 Logistics perfe	n* t ructure out, GWh/mn pop. ormance*		23.3 19.1 0 26.4	95 126 ⊖ ◊	6.3.3 High-tech exports, 6.3.4 ICT services export 6.3.5 ISO 9001 quality/br	% total trade s, % total trade PPP\$ GDP
3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity out 3.2.2 Logistics perfe 3.2.3 Gross capital	n* t ructure but, GWh/mn pop. ormance* formation, % GDP		23.3 19.1 • 26.4 n/a	95 126 ⊖	6.3.3 High-tech exports, 6.3.4 ICT services export	% total trade s, % total trade PPP\$ GDP
3.1.4 E-participatior 3.2 General infrast 3.2.1 Electricity outp	n* tructure out, GWh/mn pop. ormance* formation, % GDP tainability		23.3 19.1 © 26.4 n/a 35.3	95 126 ⊖ ◊ n/a 12 ●	6.3.3 High-tech exports, 6.3.4 ICT services export 6.3.5 ISO 9001 quality/br	% total trade s, % total trade PPP\$ GDP
3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity outp 3.2.2 Logistics perfor 3.2.3 Gross capital 1 3.3 Ecological sust 3.3.1 GDP/unit of en	n* t ructure out, GWh/mn pop. ormance* formation, % GDP tainability iergy use		23.3 19.1 26.4 n/a 35.3 17.0	95 126 ⊖	6.3.3 High-tech exports, 6.3.4 ICT services export 6.3.5 ISO 9001 quality/br	% total trade is, % total trade n PPP\$ GDP
3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity outp 3.2.2 Logistics perfor 3.2.3 Gross capital 1 3.3 Ecological sust 3.3.1 GDP/unit of en 3.3.2 Environmental	n* t ructure out, GWh/mn pop. ormance* formation, % GDP tainability iergy use		23.3 19.1 26.4 n/a 35.3 17.0 8.5	95 126 ○ ◇ n/a 12 ● 99 84	6.3.3 High-tech exports, 6.3.4 ICT services export 6.3.5 ISO 9001 quality/br Creative outputs 7.1 Intangible assets	% total trade is, % total trade i PPP\$ GDP nsity, top 15, %
3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity out 3.2.2 Logistics perfo 3.2.3 Gross capital 1 3.3 Ecological sus 3.3.1 GDP/unit of en 3.3.2 Environmental 3.3.3 ISO 14001 env	n* tructure but, GWh/mn pop. formation, % GDP tainability lergy use l performance* vironment/bn PPP\$ GDP		23.3 19.1 26.4 n/a 35.3 17.0 8.5 31.9 0.1	95 126 ○ ◇ n/a 12 ● 99 84 82 ● 124	 6.3.3 High-tech exports, 6.3.4 ICT services export 6.3.5 ISO 9001 quality/br Creative outputs 7.1 Intangible assets 7.1.1 Intangible asset inte 7.1.2 Trademarks by origi 7.1.3 Global brand value, 	% total trade is, % total trade i PPP\$ GDP nsity, top 15, % n/bn PPP\$ GDP top 5,000
3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity outp 3.2.2 Logistics perfor 3.2.3 Gross capital f 3.3 Ecological sust 3.3.1 GDP/unit of en 3.3.2 Environmental 3.3.3 ISO 14001 env Market soph	n* tructure but, GWh/mn pop. formation, % GDP tainability lergy use l performance* vironment/bn PPP\$ GDP		23.3 19.1 26.4 n/a 35.3 17.0 8.5 31.9 0.1 15.8	95 126 ○ ◇ n/a 12 ● 99 84 82 ● 124 120	 6.3.3 High-tech exports, 6.3.4 ICT services export 6.3.5 ISO 9001 quality/br Creative outputs 7.1 Intangible assets 7.1.1 Intangible asset inte 7.1.2 Trademarks by origi 7.1.3 Global brand value, 7.1.4 Industrial designs b 	% total trade s, % total trade PPP\$ GDP nsity, top 15, % n/bn PPP\$ GDP top 5,000 y origin/bn PPP\$ GDP
3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity outp 3.2.2 Logistics perfor 3.2.3 Gross capital f 3.3 Ecological sust 3.3.1 GDP/unit of en 3.3.2 Environmental 3.3.3 ISO 14001 env Market soph 4.1 Credit	n* tructure but, GWh/mn pop. ormance* formation, % GDP tainability lergy use l performance* vironment/bn PPP\$ GDP istication		23.3 19.1 26.4 n/a 35.3 17.0 8.5 31.9 0.1 15.8 3.2	95 126 ○ ◇ n/a 12 ● 99 84 82 ● 124 120 127	 6.3.3 High-tech exports, 6.3.4 ICT services export 6.3.5 ISO 9001 quality/br Creative outputs 7.1 Intangible assets 7.1.1 Intangible asset inte 7.1.2 Trademarks by origi 7.1.3 Global brand value, 	% total trade s, % total trade PPP\$ GDP nsity, top 15, % n/bn PPP\$ GDP top 5,000 y origin/bn PPP\$ GDP services
3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity outp 3.2.2 Logistics perfor 3.2.3 Gross capital f 3.3 Ecological sust 3.3.1 GDP/unit of en 3.3.2 Environmental 3.3.3 ISO 14001 env Market soph 4.1 Credit 4.1.1 Finance for sta	n* tructure but, GWh/mn pop. formation, % GDP tainability lergy use l performance* vironment/bn PPP\$ GDP istication Intups and scaleups ⁺		23.3 19.1 26.4 n/a 35.3 17.0 8.5 31.9 0.1 15.8 3.2 n/a	95 126 ○ ◇ n/a 12 ● 99 84 82 ● 124 124 127 n/a	 6.3.3 High-tech exports, 6.3.4 ICT services export 6.3.5 ISO 9001 quality/br Creative outputs 7.1 Intangible assets 7.1.1 Intangible asset inte 7.1.2 Trademarks by origi 7.1.3 Global brand value, 7.1.4 Industrial designs b 7.2 Creative goods and 	% total trade s, % total trade a PPP\$ GDP nsity, top 15, % n/bn PPP\$ GDP top 5,000 y origin/bn PPP\$ GDP services e services exports, % t
3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity outp 3.2.2 Logistics perfor 3.2.3 Gross capital f 3.3 Ecological sust 3.3.1 GDP/unit of en 3.3.2 Environmental 3.3.3 ISO 14001 env [u] Market soph 4.1 Credit 4.1.1 Finance for sta 4.1.2 Domestic cred	n* tructure but, GWh/mn pop. ormance* formation, % GDP tainability lergy use l performance* vironment/bn PPP\$ GDP istication Intups and scaleups ⁺ lit to private sector, % GDP	5	23.3 19.1 26.4 n/a 35.3 17.0 8.5 31.9 0.1 15.8 3.2 n/a 11.7	95 126 ○ ◇ n/a 12 ● 99 84 82 ● 124 124 127 n/a 127 ◇	 6.3.3 High-tech exports, 6.3.4 ICT services export 6.3.5 ISO 9001 quality/br Creative outputs 7.1 Intangible assets 7.1.1 Intangible asset inte 7.1.2 Trademarks by origi 7.1.3 Global brand value, 7.1.4 Industrial designs b 7.2 Creative goods and 7.2.1 Cultural and creativ 	% total trade s, % total trade a PPP\$ GDP nsity, top 15, % n/bn PPP\$ GDP top 5,000 y origin/bn PPP\$ GDP services e services exports, % t ns/mn pop. 15-69
3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity outp 3.2.2 Logistics perfor 3.2.3 Gross capital f 3.3 Ecological sust 3.3.1 GDP/unit of en 3.3.2 Environmental 3.3.3 ISO 14001 env im Market soph 4.1 Credit 4.1.1 Finance for sta 4.1.2 Domestic cred 4.1.3 Loans from mi	n* tructure but, GWh/mn pop. formation, % GDP tainability lergy use l performance* vironment/bn PPP\$ GDP istication Intups and scaleups ⁺	2	23.3 19.1 26.4 n/a 35.3 17.0 8.5 31.9 0.1 15.8 3.2 n/a 11.7 0.3	95 126 ○ ◇ n/a 12 ● 99 84 82 ● 124 127 n/a 127 √ 43	 6.3.3 High-tech exports, 6.3.4 ICT services export 6.3.5 ISO 9001 quality/br Creative outputs 7.1 Intangible assets 7.1.1 Intangible asset inte 7.1.2 Trademarks by origi 7.1.3 Global brand value, 7.1.4 Industrial designs b 7.2 Creative goods and 7.2.1 Cultural and creativ 7.2.2 National feature film 7.2.3 Entertainment and 	% total trade s, % total trade a PPP\$ GDP nsity, top 15, % n/bn PPP\$ GDP top 5,000 y origin/bn PPP\$ GDP services e services exports, % t ns/mn pop. 15-69 media market/th pop. 1
3.1.4 E-participation 3.2 General infrast 3.2.1 Electricity out; 3.2.2 Logistics perform 3.3.3 Gross capital 1 3.3 Ecological sus; 3.3.1 GDP/unit of en 3.3.2 Environmental 3.3.3 ISO 14001 environ (Information Construction) 4.1 Credit 4.1.1 Finance for stat 4.1.2 Domestic cred 4.1.3 Loans from mi 4.2 Investment	n* tructure but, GWh/mn pop. formation, % GDP tainability lergy use l performance* vironment/bn PPP\$ GDP istication stication lit to private sector, % GDP crofinance institutions, % GDI	2	23.3 19.1 26.4 n/a 35.3 17.0 8.5 31.9 0.1 15.8 3.2 n/a 11.7 0.3 6.3	95 126 ○ ◇ n/a 12 ● 99 84 82 ● 124 127 n/a 127 √ 43 69	 6.3.3 High-tech exports, 6.3.4 ICT services export 6.3.5 ISO 9001 quality/br Creative outputs 7.1 Intangible assets 7.1.1 Intangible asset inte 7.1.2 Trademarks by origi 7.1.3 Global brand value, 7.1.4 Industrial designs b 7.2 Creative goods and 7.2.1 Cultural and creativ 7.2.2 National feature film 7.2.3 Entertainment and 7.2.4 Creative goods exp 	% total trade s, % total trade a PPP\$ GDP nsity, top 15, % n/bn PPP\$ GDP top 5,000 y origin/bn PPP\$ GDP services e services exports, % t ns/mn pop. 15-69 media market/th pop. 1
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	Score / Value	Rank
Business sophistication	17.8	116
5.1 Knowledge workers	17.4	108
5.1.1 Knowledge-intensive employment, %	15.3	87
5.1.2 Firms offering formal training, %	Q 27.5	60 ●
5.1.3 GERD performed by business, % GDP	n/a	n/a
5.1.4 GERD financed by business, %	n/a	n/a
5.1.5 Females employed w/advanced degrees, %	• 0.7	123
5.2 Innovation linkages	1.8	130
5.2.1 University-industry R&D collaboration ⁺	n/a	n/a
5.2.2 State of cluster development ⁺	n/a	n/a
5.2.3 GERD financed by abroad, % GDP	n/a	n/a
5.2.4 Joint venture/strategic alliance deals/bn PPP\$ GDP	O .0	90
5.2.5 Patent families/bn PPP\$ GDP	0.0	95 ⊖ ◊
5.3 Knowledge absorption	34.4	60
5.3.1 Intellectual property payments, % total trade	0.0	118 🔿 💠
5.3.2 High-tech imports, % total trade	7.2	84 🜒
5.3.3 ICT services imports, % total trade	2.6	26 ●
5.3.4 FDI net inflows, % GDP	4.1	30 鱼
5.3.5 Research talent, % in businesses	n/a	n/a
🛠 Knowledge and technology outputs	9.0	129
6.1 Knowledge creation	2.6	123
6.1.1 Patents by origin/bn PPP\$ GDP	0.1	109
6.1.2 PCT patents by origin/bn PPP\$ GDP	0.0	101 🔿 💠
6.1.3 Utility models by origin/bn PPP\$ GDP	0.0	75 🔿 🛇
6.1.4 Scientific and technical articles/bn PPP\$ GDP	n/a	n/a
6.1.5 Citable documents H-index	3.4	120
6.2 Knowledge impact	20.5	101
6.2.1 Labor productivity growth, %	1.9	36 ●
6.2.2 Unicorn valuation, % GDP	0.0	48 ⊖ ◊
6.2.3 Software spending, % GDP	0.0	119
6.2.4 High-tech manufacturing, %	15.8	75
6.3 Knowledge diffusion	3.9	127 ◊
6.3.1 Intellectual property receipts, % total trade	0.0	109
6.3.2 Production and export complexity	n/a	n/a
6.3.3 High-tech exports, % total trade	0.5	89
6.3.4 ICT services exports, % total trade	0.7	94
6.3.5 ISO 9001 quality/bn PPP\$ GDP	0.2	130 ◊
Creative outputs	0.2	132
7.1 Intangible assets	0.0	132
7.1.1 Intangible asset intensity, top 15, %	n/a	n/a
7.1.2 Trademarks by origin/bn PPP\$ GDP	1.4	128 0 ◊
7.1.3 Global brand value, top 5,000	n/a	n/a 100 ⊖ ∧
7.1.4 Industrial designs by origin/bn PPP\$ GDP	0.0	120 ○ ◇
7.2 Creative goods and services	0.5	123
7.2.1 Cultural and creative services exports, % total trade	0.0	92
7.2.2 National feature films/mn pop. 15-69	n/a	n/a
7.2.3 Entertainment and media market/th pop. 15-69	n/a	n/a
7.2.4 Creative goods exports, % total trade	0.0	125
7.3 Online creativity	0.3	128 ◇
7.3.1 Generic top-level domains (TLDs)/th pop. 15-69	0.9	100
7.3.2 Country-code TLDs/th pop. 15-69	0.0	130
7.3.3 GitHub commits/mn pop. 15-69	0.0	132 0 ◊

131

GDP per capita, PPP\$

1,443.3

n/a n/a

NOTES: • indicates a strength; O a weakness; • an income group strength; \diamond 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.



→ Data availability

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



> Niger has missing data for twenty indicators and outdated data for sixteen indicators.

> Missing data for Niger

Code	Indicator name	Economy Year	Model Year	Source
1.3.1	Policies for doing business	n/a	2022	World Economic Forum, Executive Opinion Survey (EOS)
1.3.2	Entrepreneurship policies and culture	n/a	2022	Global Entrepreneurship Monitor
2.1.4	PISA scales in reading, maths and science	n/a	2018	OECD, PISA
2.3.2	Gross expenditure on R&D, % GDP	n/a	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
3.2.2	Logistics performance	n/a	2023	World Bank, Logistics Performance Index 2023 (https://lpi.worldbank.org/); and World Bank 2023, Connecting to Compete 2023: Trade Logistics in the Global Economy ÔÇô The Logistics Performance Index and its Indicators.
4.1.1	Finance for startups and scaleups	n/a	2022	Global Entrepreneurship Monitor
4.2.1	Market capitalization, % GDP	n/a	2020	World Federation of Exchanges; World Bank
4.2.2	Venture capital (VC) investors, deals/bn PPP\$ GDP	n/a	2022	Refinitiv; International Monetary Fund
5.1.3	GERD performed by business, % GDP	n/a	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.4	GERD financed by business, %	n/a	2020	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.2.1	University-industry R&D collaboration	n/a	2022	World Economic Forum, Executive Opinion Survey (EOS)
5.2.2	State of cluster development	n/a	2022	World Economic Forum, Executive Opinion Survey (EOS)
5.2.3	GERD financed by abroad, % GDP	n/a	2020	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.3.5	Research talent, % in businesses	n/a	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
6.3.2	Production and export complexity	n/a	2020	Harvard University, Growth Lab



Code	Indicator name	Economy Year	Model Year	Source
7.1.1	Intangible asset intensity, top 15, %	n/a	2022	Brand Finance
7.1.3	Global brand value, top 5,000	n/a	2023	Brand Finance; International Monetary Fund
7.2.2	National feature films/mn pop. 15-69	n/a	2021	OMDIA; United Nations, World Population Prospects
7.2.3	Entertainment and media market/th pop. 15-69	n/a	2022	PwC, GEMO; United Nations, World Population Prospects; International Monetary Fund
7.3.4	Mobile app creation/bn PPP\$ GDP	n/a	2022	data.ia; International Monetary Fund

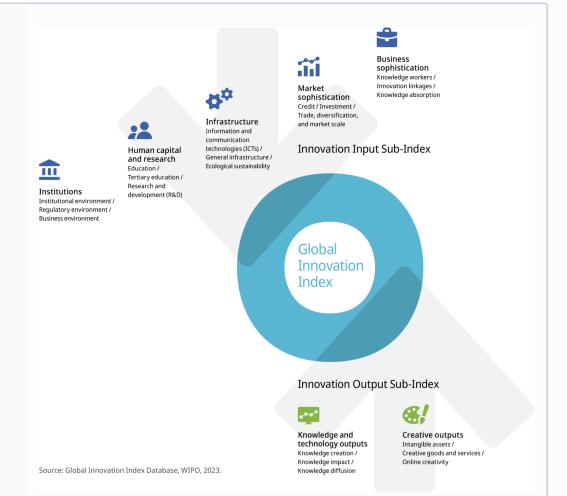
> Outdated data for Niger

Code	Indicator name	Economy Year	Model Year	Source
2.1.1	Expenditure on education, % GDP	2018	2021	UNESCO Institute for Statistics
2.1.2	Government funding/pupil, secondary, % GDP/cap	2017	2019	UNESCO Institute for Statistics
2.1.3	School life expectancy, years	2017	2020	UNESCO Institute for Statistics
2.1.5	Pupil-teacher ratio, secondary	2017	2020	UNESCO Institute for Statistics
2.2.2	Graduates in science and engineering, %	2019	2020	UNESCO Institute for Statistics; Eurostat; OECD
2.2.3	Tertiary inbound mobility, %	2019	2020	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	2013	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
3.2.1	Electricity output, GWh/mn pop.	2020	2021	International Energy Agency
4.2.3	VC recipients, deals/bn PPP\$ GDP	2021	2022	Refinitiv; International Monetary Fund
4.2.4	VC received, value, % GDP	2021	2022	Refinitiv; International Monetary Fund
4.3.2	Domestic industry diversification	2016	2020	United Nations Industrial Development Organization
5.1.1	Knowledge-intensive employment, %	2017	2022	International Labour Organization
5.1.2	Firms offering formal training, %	2017	2019	World Bank Enterprise Surveys
5.1.5	Females employed w/advanced degrees, %	2017	2022	International Labour Organization
5.2.4	Joint venture/strategic alliance deals/bn PPP\$ GDP	2020	2022	Refinitiv; International Monetary Fund
6.2.4	High-tech manufacturing, %	2013	2020	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.