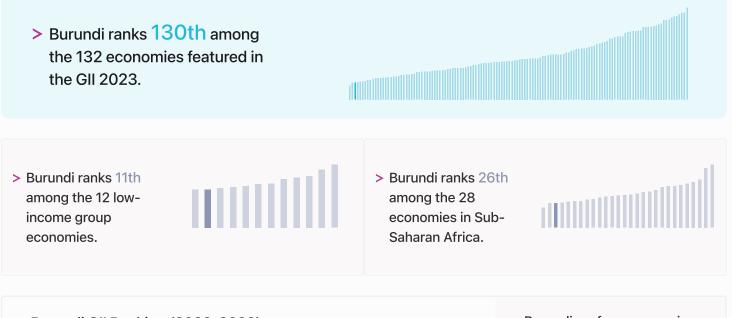


The Global Innovation Index (GII) ranks world economies according to their innovation capabilities.

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

Burundi ranking in the Global Innovation Index 2023



> Burundi GII Ranking (2020-2023)

The table shows the rankings of Burundi 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 Burundi in the GII 2023 is between ranks 129 and 131.

	GII Position	Innovation Inputs	Innovation Outputs
2020	n/a	n/a	n/a
2021	n/a	n/a	n/a
2022	130th	127th	130th
2023	130th	126th	130th

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

This year Burundi ranks 126th in innovation inputs. This position is higher than last year.

Burundi ranks 130th in innovation outputs. This position is the same as last year.



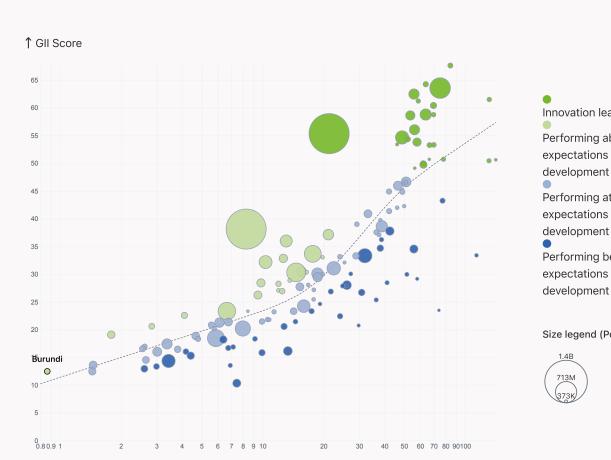
→ Expected vs. observed innovation performance

> Innovation overperformers relative to their economic development

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, Burundi is performing above expectations for its level of development.



Innovation leader Performing above expectations for level of Performing at expectations for level of Performing below expectations for level of

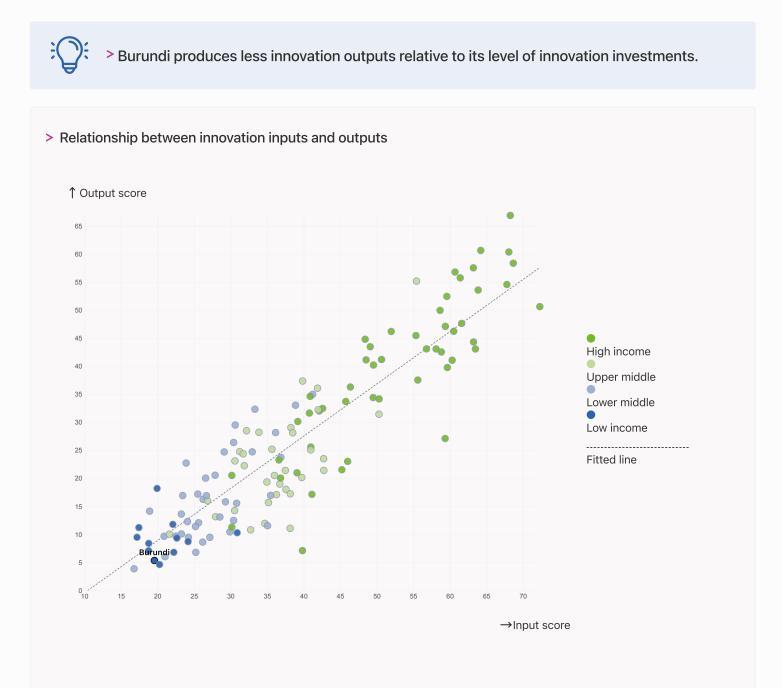
Size legend (Population)

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



→ Effectively translating innovation investments into innovation outputs

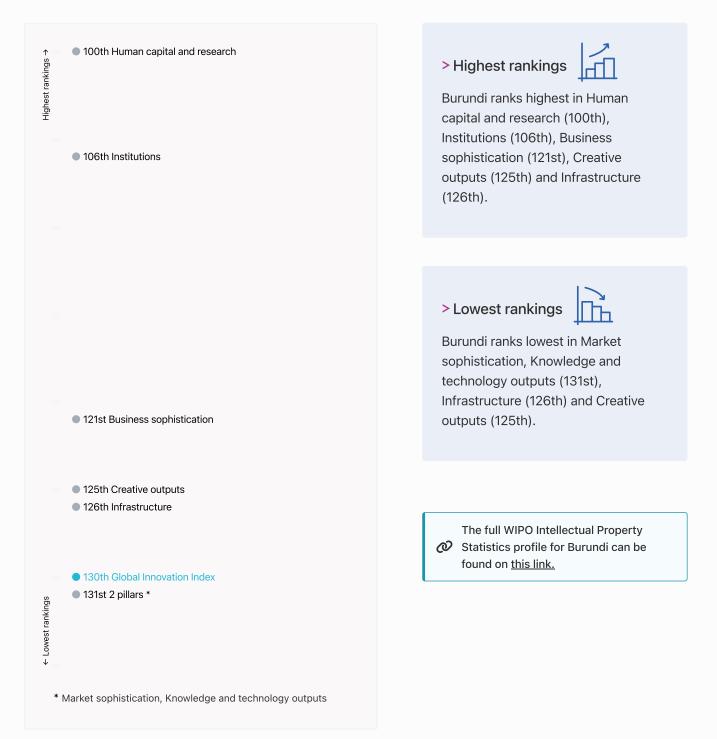
The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.

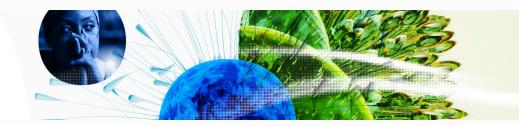




→ Overview of Burundi's rankings in the seven areas of the GII in 2023

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





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

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

> Low-Income economies

Burundi performs below the low-income group average in Knowledge

and technology outputs, Creative outputs, Business sophistication, Market sophistication, Infrastructure, Institutions.



> Sub-Saharan Africa

Burundi performs below the regional average in Knowledge and technology outputs, Creative outputs, Business sophistication, Market sophistication, Infrastructure, Institutions.

Knowledge and technology outputs

Top 10 | Score: 58.96

Sub-Saharan Africa | Score: 12.16

Low income | Score: 11.03

Burundi | Score: 5.80

Creative outputs

Top 10 | 56.09

Sub-Saharan Africa | 10.36

Low income | 7.48

Burundi | 4.85

Human capital and research

Top 10 | 60.28

Burundi | 20.70

Sub-Saharan Africa | 17.80

Low income | 15.55

Business sophistication

Top 10 | 64.39

Sub-Saharan Africa | 19.85

Low income | 16.81

Burundi | 16.54

Infrastructure

Top 10 | 62.83

Sub-Saharan Africa | 23.36

Low income | 19.43

Burundi | 17.03

Market sophistication

Top 10 | 61.93

Sub-Saharan Africa | 20.00

Low income | 15.67

Burundi | 7.30

Institutions

Top 10 | 79.85

Sub-Saharan Africa | 43.27

Low income | 38.42

Burundi | 36.33



→ Innovation strengths and weaknesses in Burundi

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



> Burundi's main innovation strengths are Utility models by origin/bn PPP\$ GDP (rank 37),
 Expenditure on education, % GDP (rank 39) and High-tech imports, % total trade (rank 41).

Rank	Code	Indicator name	Rank	Code	Indicator name
37	6.1.3	Utility models by origin/bn PPP\$ GDP	132	1.1.2	Government effectiveness
39	2.1.1	Expenditure on education, % GDP	132	3.1.2	ICT use
41	5.3.2	High-tech imports, % total trade	126	5.1.1	Knowledge-intensive employment, %
41	5.3.3	ICT services imports, % total trade	96	5.2.3	GERD financed by abroad, % GDP
50	5.1.2	Firms offering formal training, %	95	5.2.5	Patent families/bn PPP\$ GDP
50	3.2.3	Gross capital formation, % GDP	74	7.1.3	Global brand value, top 5,000
51	2.2.3	Tertiary inbound mobility, %	71	2.3.4	QS university ranking, top 3
62	1.3.1	Policies for doing business	48	6.2.2	Unicorn valuation, % GDP
66	1.2.3	Cost of redundancy dismissal	40	2.3.3	Global corporate R&D investors, top 3, mn US\$

Strengths

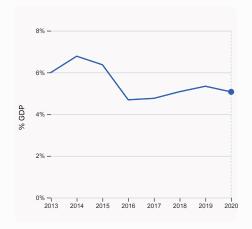
Weaknesses



→ Burundi's innovation system

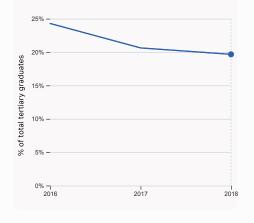
As far as practicable, the plots below present unscaled indicator data.

> Innovation inputs in Burundi



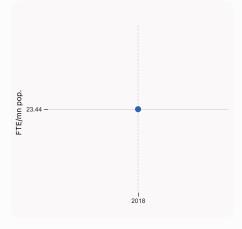
2.1.1 Expenditure on education, % GDP

was equal to 5.07% GDP in 2020, down by 0.27 percentage points from the year prior – and equivalent to an indicator rank of 39.



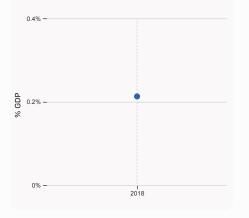
2.2.2 Graduates in science and engineering, %

was equal to 19.67% of total tertiary graduates in 2018, down by 0.96 percentage points from the year prior – and equivalent to an indicator rank of 73.



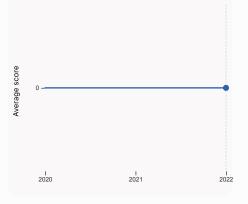
2.3.1 Researchers, FTE/mn pop.

was equal to 23.44 FTE/mn pop. in 2018, equivalent to an indicator rank of 103.



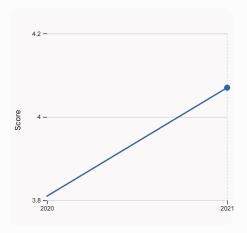
2.3.2 Gross expenditure on R&D, % GDP

was equal to 0.213 % GDP in 2018, equivalent to an indicator rank of 86.



2.3.4 QS university ranking, top 3

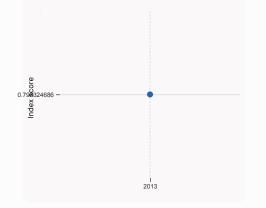
was equal to an average score of 0 for the top 3 universities in 2022, equivalent to an indicator rank of 71.

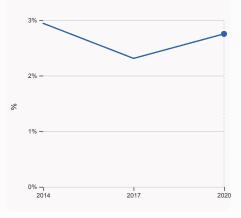


3.1.1 ICT access

was equal to a score of 4.07 in 2021, up by 6.82% from the year prior – and equivalent to an indicator rank of 130.







4.3.2 Domestic industry diversification

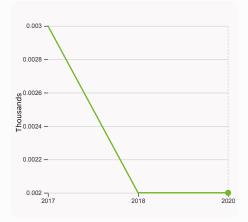
was equal to an index score of 0.798 in 2013, equivalent to an indicator rank of 111.

5.1.1 Knowledge-intensive employment, %

was equal to 2.75% in 2020, up by 0.44 percentage points from the year prior – and equivalent to an indicator rank of 126.

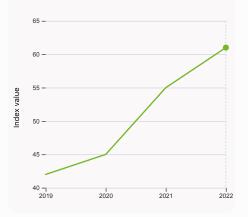


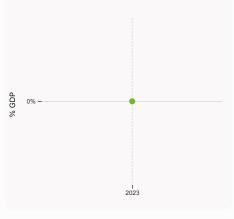
> Innovation outputs in Burundi



6.1.1 Patents by origin

was equal to 0.002 Thousands in 2020, up by with no change from the year prior – and equivalent to an indicator rank of 96.



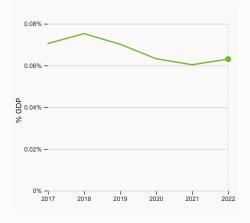


6.1.5 Citable documents H-index

was equal to an index value of 61 in 2022, up by 10.91% from the year prior – and equivalent to an indicator rank of 129.

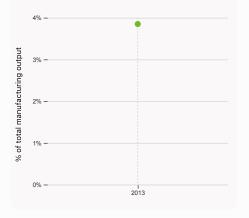
6.2.2 Unicorn valuation, % GDP

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



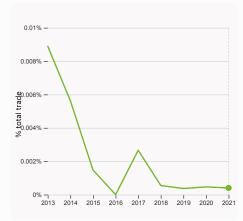
6.2.3 Software spending, % GDP

was equal to 0.063% GDP in 2022, up by 0.0027 percentage points from the year prior – and equivalent to an indicator rank of 100.



6.2.4 High-tech manufacturing, %

was equal to 3.85 % of total manufacturing output in 2013 – and equivalent to an indicator rank of 105.



6.3.1 Intellectual property receipts, % total trade

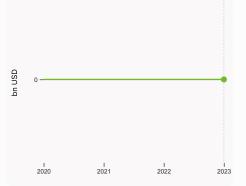
was equal to 0% total trade in 2021, down by 0.000062 percentage points from the year prior – and equivalent to an indicator rank of 107.





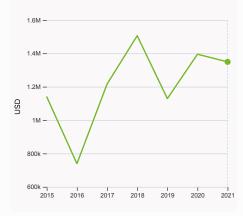
6.3.3 High-tech exports

was equal to 743,547 USD in 2021, up by 1882.74% from the year prior – and equivalent to an indicator rank of 117.



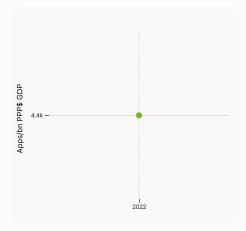
7.1.3 Global brand value, top 5,000

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



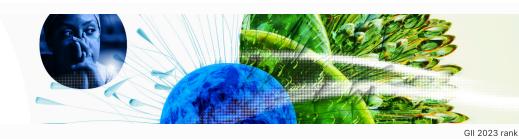
7.2.1 Cultural and creative services exports

was equal to 1,349,000 USD in 2021, down by 3.3% from the year prior – and equivalent to an indicator rank of 72.



7.3.4 Mobile app creation/bn PPP\$ GDP

was equal to 4,401.73 Apps/bn PPP\$ GDP in 2022 – and equivalent to an indicator rank of 107.



Burundi

Output rank	Input rank	ncome F	Regio	on	Population (mn)	GDP, PPP\$ (bn)	GDP per cap	ita, PPP\$
130	126	Low	SSA	4	12.9	10.9	865.0	
		Score /	Value	e Rank			Score / Value	Rank
â Institutions		36	6.3	106	🚔 Business sophist	tication	16.5	121
1.1 Institutional en	vironment	1	3.2	128	5.1 Knowledge workers	;	10.0	121
1.1.1 Operational sta	ability for businesses*	2	6.4	122	5.1.1 Knowledge-intensiv	e employment, %	Q 2.7	126 🔿 🛇
1.1.2 Government e	ffectiveness*		0.0	132 🔿 🗇	5.1.2 Firms offering form	al training, %	S 32.0	50 鱼
1.2 Regulatory env	nvironment 46.8 109 5.1.3 GERD performed by business, % GDP		0 .0	81				
1.2.1 Regulatory qua	ality*	1	6.6	126 🛇	5.1.4 GERD financed by business, %		8.8	76
1.2.2 Rule of law*			1.8	131 🛇	5.1.5 Females employed	w/advanced degrees, %	0 .7	122
1.2.3 Cost of redun	dancy dismissal	1	15.9	66 ●	5.2 Innovation linkages	;	14.4	99
1.3 Business envir	ronment	4	9.0	57	5.2.1 University-industry	R&D collaboration ⁺	S1.5	93
1.3.1 Policies for do	ing business ⁺	S 4	9.0	62 ●	5.2.2 State of cluster development ⁺		26.1	103
1.3.2 Entrepreneurs	ship policies and culture ⁺		n/a	n/a	5.2.3 GERD financed by abroad, % GDP		0 .0	96 🔿 🗇
•		0	~ 7	400	5.2.4 Joint venture/strate	egic alliance deals/bn PPP\$ GDP	n/a	n/a
😤 Human capi	ital and research	20	0.7	100	5.2.5 Patent families/bn	PPP\$ GDP	0.0	95 ⊖ ◊
2.1 Education		4	6.3	79	5.3 Knowledge absorpt	tion	25.2	102
2.1.1 Expenditure or	on education, % GDP 9.1 39 9.5.3.1 Intellectual property payments, % total trade		0.0	117				
	unding/pupil, secondary, % GDP	/cap 🛛 3	32.8	6	5.3.2 High-tech imports, % total trade		9.8	41 ●
2.1.3 School life expectancy, years			10.8	99	5.3.3 ICT services imports, % total trade 1.8 4			

2.1.3 School life expectancy, years	0 10.8	99
2.1.4 PISA scales in reading, maths and science	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	24.9	110
2.2 Tertiary education	14.9	103
2.2.1 Tertiary enrolment, % gross	6.0	122
2.2.2 Graduates in science and engineering, %	19.7	73
2.2.3 Tertiary inbound mobility, %	§ 4.8	51 ●
2.3 Research and development (R&D)	0.9	101
2.3.1 Researchers, FTE/mn pop.	Q 23.4	103
2.3.2 Gross expenditure on R&D, % GDP	0.2	86
2.3.3 Global corporate R&D investors, top 3, mn US\$	0.0	40 ○ ◊
2.3.4 QS university ranking, top 3*	0.0	71 ○ ◇
🎭 Infrastructure	17.0	126
3.1 Information and communication technologies (ICTs)	17.4	130 💠
3.1.1 ICT access*	10.3	130 🛇
3.1.2 ICT use*	0.0	132 🔿 🛇
3.1.3 Government's online service*	26.8	127
3.1.4 E-participation*	32.6	100
3.2 General infrastructure	22.1	82
3.2.1 Electricity output, GWh/mn pop.	n/a	n/a
3.2.2 Logistics performance*	n/a	n/a
3.2.3 Gross capital formation, % GDP	25.4	50 •
3.3 Ecological sustainability	11.6	122
3.3.1 GDP/unit of energy use	n/a	n/a
3.3.2 Environmental performance*	, 19.7	109
3.3.3 ISO 14001 environment/bn PPP\$ GDP	0.5	84
	7.3	131 🗇
Market sophistication	7.5	
Market sophistication 4.1 Credit	5.6	123
		123 n/a
4.1 Credit	5.6	
4.1 Credit 4.1.1 Finance for startups and scaleups ⁺	5.6 n/a	n/a
4.1 Credit 4.1.1 Finance for startups and scaleups [†] 4.1.2 Domestic credit to private sector, % GDP	5.6 n/a 23.6	n/a 112
4.1 Credit 4.1.1 Finance for startups and scaleups [†] 4.1.2 Domestic credit to private sector, % GDP 4.1.3 Loans from microfinance institutions, % GDP	5.6 n/a 23.6 0 .3	n/a 112 41
4.1 Credit 4.1.1 Finance for startups and scaleups [†] 4.1.2 Domestic credit to private sector, % GDP 4.1.3 Loans from microfinance institutions, % GDP 4.2 Investment	5.6 n/a 23.6 € 0.3 n/a	n/a 112 41 n/a
4.1 Credit 4.1.1 Finance for startups and scaleups ⁺ 4.1.2 Domestic credit to private sector, % GDP 4.1.3 Loans from microfinance institutions, % GDP 4.2 Investment 4.2.1 Market capitalization, % GDP	5.6 n/a 23.6 0.3 n/a n/a	n/a 112 41 n/a n/a
 4.1 Credit 4.1.1 Finance for startups and scaleups⁺ 4.1.2 Domestic credit to private sector, % GDP 4.1.3 Loans from microfinance institutions, % GDP 4.2 Investment 4.2.1 Market capitalization, % GDP 4.2.2 Venture capital (VC) investors, deals/bn PPP\$ GDP 	5.6 n/a 23.6 0.3 n/a n/a n/a	n/a 112 41 n/a n/a n/a
 4.1 Credit 4.1.1 Finance for startups and scaleups[†] 4.1.2 Domestic credit to private sector, % GDP 4.1.3 Loans from microfinance institutions, % GDP 4.2 Investment 4.2.1 Market capitalization, % GDP 4.2.2 Venture capital (VC) investors, deals/bn PPP\$ GDP 4.2.3 VC recipients, deals/bn PPP\$ GDP 4.2.4 VC received, value, % GDP 	5.6 n/a 23.6 0.3 n/a n/a n/a n/a	n/a 112 41 n/a n/a n/a n/a
 4.1 Credit 4.1.1 Finance for startups and scaleups[†] 4.1.2 Domestic credit to private sector, % GDP 4.1.3 Loans from microfinance institutions, % GDP 4.2 Investment 4.2.1 Market capitalization, % GDP 4.2.2 Venture capital (VC) investors, deals/bn PPP\$ GDP 4.2.3 VC received, value, % GDP 4.3 Trade, diversification, and market scale 	5.6 n/a 23.6 0.3 n/a n/a n/a n/a 9.0	n/a 112 41 n/a n/a n/a n/a 131 ◇
 4.1 Credit 4.1.1 Finance for startups and scaleups[†] 4.1.2 Domestic credit to private sector, % GDP 4.1.3 Loans from microfinance institutions, % GDP 4.2 Investment 4.2.1 Market capitalization, % GDP 4.2.2 Venture capital (VC) investors, deals/bn PPP\$ GDP 4.2.3 VC recipients, deals/bn PPP\$ GDP 4.2.4 VC received, value, % GDP 	5.6 n/a 23.6 ● 0.3 n/a n/a n/a n/a n/a n/a	n/a 112 41 n/a n/a n/a n/a

5.1 Knowledge workers	10.0	121
5.1.1 Knowledge-intensive employment, %	Q 2.7	126 〇 🛇
5.1.2 Firms offering formal training, %	§ 32.0	50 ●
5.1.3 GERD performed by business, % GDP	0.0	81
5.1.4 GERD financed by business, %	0 8.8	76
5.1.5 Females employed w/advanced degrees, %	• 0.0 • 0.7	122
5.2 Innovation linkages	14.4	99
5	• 31.5	93
5.2.1 University-industry R&D collaboration ⁺		
5.2.2 State of cluster development ⁺	26.1	103
5.2.3 GERD financed by abroad, % GDP	• 0.0	96 ⊖ ♦
5.2.4 Joint venture/strategic alliance deals/bn PPP\$ GDP	n/a	n/a
5.2.5 Patent families/bn PPP\$ GDP	0.0	95 ⊖ ◊
5.3 Knowledge absorption	25.2	102
5.3.1 Intellectual property payments, % total trade	0.0	117
5.3.2 High-tech imports, % total trade	9.8	41 🗨
5.3.3 ICT services imports, % total trade	1.8	41 ●
5.3.4 FDI net inflows, % GDP	0.2	121
5.3.5 Research talent, % in businesses		77
✓ Knowledge and technology outputs	5.8	131 💠
6.1 Knowledge creation	6.7	102
6.1.1 Patents by origin/bn PPP\$ GDP	• 0.2	96
6.1.2 PCT patents by origin/bn PPP\$ GDP	n/a	n/a
6.1.3 Utility models by origin/bn PPP\$ GDP	• 0.3	37 •
6.1.4 Scientific and technical articles/bn PPP\$ GDP	n/a	n/a
6.1.5 Citable documents H-index	1.0	129 🛇
6.2 Knowledge impact	8.2	129 🛇
6.2.1 Labor productivity growth, %	-2.2	128 🛇
6.2.2 Unicorn valuation, % GDP	0.0	48 🔿 🗇
6.2.2 Unicorn valuation, % GDP 6.2.3 Software spending, % GDP		48 ⊖ ◊ 100
	0.0	
6.2.3 Software spending, % GDP	0.0 0.1	100
6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, %	0.0 0.1 © 3.9	100 105
6.2.3 Software spending, % GDP6.2.4 High-tech manufacturing, %6.3 Knowledge diffusion	0.0 0.1 3.9 2.6	100 105 130 ◊
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 	0.0 0.1 3.9 2.6 0.0 n/a	100 105 130 ◇ 107 n/a
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 	0.0 0.1 3.9 2.6 0.0 n/a 0.1	100 105 130 ◇ 107 n/a 117
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6	100 105 130 ◇ 107 n/a 117 100
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4	100 105 130 ◇ 107 n/a 117 100 97
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP Creative outputs 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4 4.9	100 105 130 ◇ 107 n/a 117 100 97 125
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP Creative outputs 7.1 Intangible assets 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4 4.9 2.7	100 105 130 107 n/a 117 100 97 125 125
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP Creative outputs 7.1 Intangible assets 7.1.1 Intangible asset intensity, top 15, % 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4 4.9 2.7 n/a	100 105 130 107 n/a 117 100 97 125 125 n/a
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP Creative outputs 7.1 Intangible assets 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4 4.9 2.7	100 105 130 107 n/a 117 100 97 125 125
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP Creative outputs 7.1 Intangible assets 7.1.1 Intangible asset intensity, top 15, % 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4 4.9 2.7 n/a	100 105 130 107 n/a 117 100 97 125 125 n/a
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP Creative outputs 7.1 Intangible assets 7.1.1 Intangible asset intensity, top 15, % 7.1.2 Trademarks by origin/bn PPP\$ GDP 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4 4.9 2.7 n/a 8 4.6	100 105 130 107 n/a 117 100 97 125 125 n/a 124
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4 4.9 2.7 n/a 4.6 0.0	100 105 130 ◇ 107 n/a 117 100 97 125 n/a 124 74 ○ ◇
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP Creative outputs 7.1 Intangible assets 7.1.2 Trademarks by origin/bn PPP\$ GDP 7.1.3 Global brand value, top 5,000 7.1.4 Industrial designs by origin/bn PPP\$ GDP	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4 4.9 2.7 n/a 4.6 0.0 0.2	100 105 130 ◇ 107 n/a 117 100 97 125 n/a 124 74 ○ ◇ 102
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP Creative outputs 7.1 Intangible assets 7.1.2 Trademarks by origin/bn PPP\$ GDP 7.1.3 Global brand value, top 5,000 7.1.4 Industrial designs by origin/bn PPP\$ GDP 7.2 Creative goods and services 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4 4.9 2.7 n/a 4.6 0.0 4.6 0.0 0.2 2.4	100 105 130 ◇ 107 n/a 117 100 97 125 n/a 124 74 ○ ◇ 102 101
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP Creative outputs 7.1 Intangible assets 7.1.1 Intangible asset intensity, top 15, % 7.1.2 Trademarks by origin/bn PPP\$ GDP 7.1.3 Global brand value, top 5,000 7.1.4 Industrial designs by origin/bn PPP\$ GDP 7.2 Creative goods and services 7.2.1 Cultural and creative services exports, % total trade 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4 2.7 n/a 4.9 2.7 n/a 4.6 0.0 0.0 0.2 2.4 0.2	100 105 130 107 n/a 117 100 97 125 n/a 124 74 ○ ↔ 102 101 72
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP Creative outputs 7.1 Intangible asset intensity, top 15, % 7.1.2 Trademarks by origin/bn PPP\$ GDP 7.1.3 Global brand value, top 5,000 7.1.4 Industrial designs by origin/bn PPP\$ GDP 7.2 Creative goods and services 7.2.1 Cultural and creative services exports, % total trade 7.2.2 National feature films/mn pop. 15-69 7.2.3 Entertainment and media market/th pop. 15-69 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4 4.9 4.9 4.6 0.0 4.6 0.0 0.2 2.7 n/a 0.2 2.4 0.2 n/a n/a	100 105 130 107 n/a 117 100 97 125 n/a 124 74 ○ ♦ 102 101 72 n/a n/a n/a
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP Creative outputs 7.1 Intangible assets 7.1.1 Intangible assets 7.1.2 Trademarks by origin/bn PPP\$ GDP 7.1.3 Global brand value, top 5,000 7.1.4 Industrial designs by origin/bn PPP\$ GDP 7.2.1 Cultural and creative services exports, % total trade 7.2.2 National feature films/mn pop. 15-69 7.2.3 Entertainment and media market/th pop. 15-69 7.2.4 Creative goods exports, % total trade 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4 4.9 2.7 n/a 0.0 4.6 0.0 0.2 2.4 0.2 n/a n/a 0.1	$\begin{array}{c} 100\\ 105\\ 130\\ 07\\ n/a\\ 117\\ 100\\ 97\\ \end{array}$
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP Creative outputs 7.1 Intangible assets 7.1.1 Intangible assets 7.1.2 Trademarks by origin/bn PPP\$ GDP 7.1.3 Global brand value, top 5,000 7.14 Industrial designs by origin/bn PPP\$ GDP 7.2 Creative goods and services 7.2.1 Cultural and creative services exports, % total trade 7.2.2 National feature films/mn pop. 15-69 7.2.3 Entertainment and media market/th pop. 15-69 7.2.4 Creative goods exports, % total trade 7.3 Online creativity 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4 2.7 n/a 4.6 0.0 4.6 0.0 0.2 2.4 0.2 n/a n/a 0.1 11.6	100 105 130 07 n/a 117 100 97 125 n/a 124 74 ○ ◇ 101 72 n/a n/a 106 110
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP Creative outputs 7.1 Intangible assets 7.1.1 Intangible assets 7.1.2 Trademarks by origin/bn PPP\$ GDP 7.1.3 Global brand value, top 5,000 7.1.4 Industrial designs by origin/bn PPP\$ GDP 7.2 Creative goods and services 7.2.1 Cultural and creative services exports, % total trade 7.2.2 National feature films/mn pop. 15-69 7.2.4 Creative goods exports, % total trade 7.3 Gonline creativity 7.3.1 Generic top-level domains (TLDs)/th pop. 15-69 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4 2.7 n/a 4.6 0.0 0.2 2.4 0.2 0.2 2.4 0.2 n/a 0.1 11.6 0.1	100 105 130 ◇ 107 n/a 117 100 97 125 125 n/a 124 74 ○ ◇ 101 72 n/a 106 110 128
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP Creative outputs 7.1 Intangible assets 7.1.1 Intangible asset intensity, top 15, % 7.1.2 Trademarks by origin/bn PPP\$ GDP 7.1.3 Global brand value, top 5,000 7.1.4 Industrial designs by origin/bn PPP\$ GDP 7.2 Creative goods and services 7.2.1 Cultural and creative services exports, % total trade 7.2.2 National feature films/mn pop. 15-69 7.2.4 Creative goods exports, % total trade 7.3.1 Generic top-level domains (TLDs)/th pop. 15-69 7.3.2 Country-code TLDs/th pop. 15-69 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4 4.9 2.7 n/a 4.6 0.0 0.0 0.2 2.4 0.2 0.2 2.4 0.2 n/a 0.1 11.6 0.1 0.1	100 105 130 ↔ 107 n/a 117 100 97 125 125 n/a 124 74 ○ ↔ 102 101 72 n/a n/a 106 110 128 120
 6.2.3 Software spending, % GDP 6.2.4 High-tech manufacturing, % 6.3 Knowledge diffusion 6.3.1 Intellectual property receipts, % total trade 6.3.2 Production and export complexity 6.3.3 High-tech exports, % total trade 6.3.4 ICT services exports, % total trade 6.3.5 ISO 9001 quality/bn PPP\$ GDP Creative outputs 7.1 Intangible assets 7.1.1 Intangible asset intensity, top 15, % 7.1.2 Trademarks by origin/bn PPP\$ GDP 7.1.3 Global brand value, top 5,000 7.1.4 Industrial designs by origin/bn PPP\$ GDP 7.2 Cultural and creative services exports, % total trade 7.2.2 National feature films/mn pop. 15-69 7.2.4 Creative goods exports, % total trade 7.3.1 Generic top-level domains (TLDs)/th pop. 15-69 	0.0 0.1 3.9 2.6 0.0 n/a 0.1 0.6 1.4 2.7 n/a 4.6 0.0 0.2 2.4 0.2 0.2 2.4 0.2 n/a 0.1 11.6 0.1	100 105 130 ◇ 107 n/a 117 100 97 125 125 n/a 124 74 ○ ◇ 101 72 n/a 106 110 128

130

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 Burundi.



> Burundi has missing data for sixteen indicators and outdated data for twenty four indicators.

> Missing data for Burundi

Code	Indicator name	Economy Year	Model Year	Source
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
3.2.1	Electricity output, GWh/mn pop.	n/a	2021	International Energy Agency
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.
3.3.1	GDP/unit of energy use	n/a	2020	International Energy Agency
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
4.2.3	VC recipients, deals/bn PPP\$ GDP	n/a	2022	Refinitiv; International Monetary Fund
4.2.4	VC received, value, % GDP	n/a	2022	Refinitiv; International Monetary Fund
5.2.4	Joint venture/strategic alliance deals/bn PPP\$ GDP	n/a	2022	Refinitiv; International Monetary Fund
6.1.2	PCT patents by origin/bn PPP\$ GDP	n/a	2022	World Intellectual Property Organization; International Monetary Fund
6.3.2	Production and export complexity	n/a	2020	Harvard University, Growth Lab
7.1.1	Intangible asset intensity, top 15, %	n/a	2022	Brand Finance
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



> Outdated data for Burundi

Code	Indicator name	Economy Year	Model Year	Source
1.3.1	Policies for doing business	2020	2022	World Economic Forum, Executive Opinion Survey (EOS)
2.1.1	Expenditure on education, % GDP	2020	2021	UNESCO Institute for Statistics
2.1.2	Government funding/pupil, secondary, % GDP/cap	2013	2019	UNESCO Institute for Statistics
2.1.3	School life expectancy, years	2018	2020	UNESCO Institute for Statistics
2.2.2	Graduates in science and engineering, %	2018	2020	UNESCO Institute for Statistics; Eurostat; OECD
2.2.3	Tertiary inbound mobility, %	2018	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
4.1.3	Loans from microfinance institutions, % GDP	2016	2021	International Monetary Fund, Financial Access Survey (FAS)
4.3.2	Domestic industry diversification	2013	2020	United Nations Industrial Development Organization
5.1.1	Knowledge-intensive employment, %	2020	2022	International Labour Organization
5.1.2	Firms offering formal training, %	2014	2019	World Bank Enterprise Surveys
5.1.3	GERD performed by business, % GDP	2018	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.4	GERD financed by business, %	2018	2020	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.5	Females employed w/advanced degrees, %	2020	2022	International Labour Organization
5.2.1	University-industry R&D collaboration	2020	2022	World Economic Forum, Executive Opinion Survey (EOS)
5.2.2	State of cluster development	2020	2022	World Economic Forum, Executive Opinion Survey (EOS)
5.2.3	GERD financed by abroad, % GDP	2018	2020	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.3.5	Research talent, % in businesses	2018	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
6.1.1	Patents by origin/bn PPP\$ GDP	2020	2021	World Intellectual Property Organization; International Monetary Fund

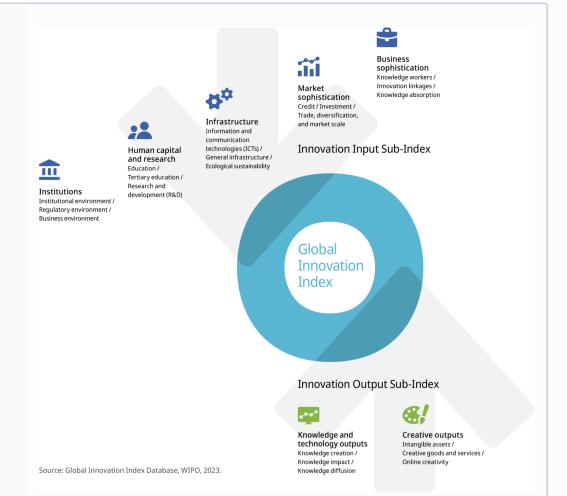


Code	Indicator name	Economy Year	Model Year	Source
6.1.3	Utility models by origin/bn PPP\$ GDP	2020	2021	World Intellectual Property Organization; International Monetary Fund
6.2.4	High-tech manufacturing, %	2013	2020	United Nations Industrial Development Organization
7.1.2	Trademarks by origin/bn PPP\$ GDP	2020	2021	World Intellectual Property Organization; International Monetary Fund
7.1.4	Industrial designs by origin/bn PPP\$ GDP	2017	2021	World Intellectual Property Organization; 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.