

## **BURKINA FASO**

120th Burkina Faso ranks 120th among the 132 economies featured in the GII 2022.

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 Burkina Faso 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 Burkina Faso in the GII 2022 is between ranks 119 and 126.

### **Rankings for Burkina Faso (2020–2022)**

GIIYR	GII	Innovation inputs	Innovation outputs
2020	118	106	124
2021	115	108	123
2022	120	114	124

- Burkina Faso performs better in innovation inputs than innovation outputs in 2022.
- This year Burkina Faso ranks 114th in innovation inputs, lower than both 2021 and 2020.
- As for innovation outputs, Burkina Faso ranks 124th. This position is lower than last year but the same as 2020.

5th

Burkina Faso ranks 5th among the 12 low-income group economies.

17th

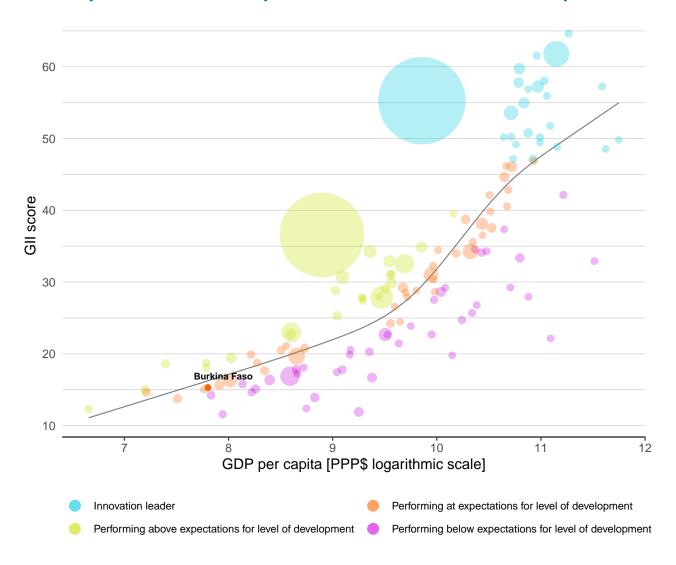
Burkina Faso ranks 17th among the 27 economies in Sub-Saharan Africa.

### **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, Burkina Faso's performance is at expectations for its level of development.

### The positive relationship between innovation and development

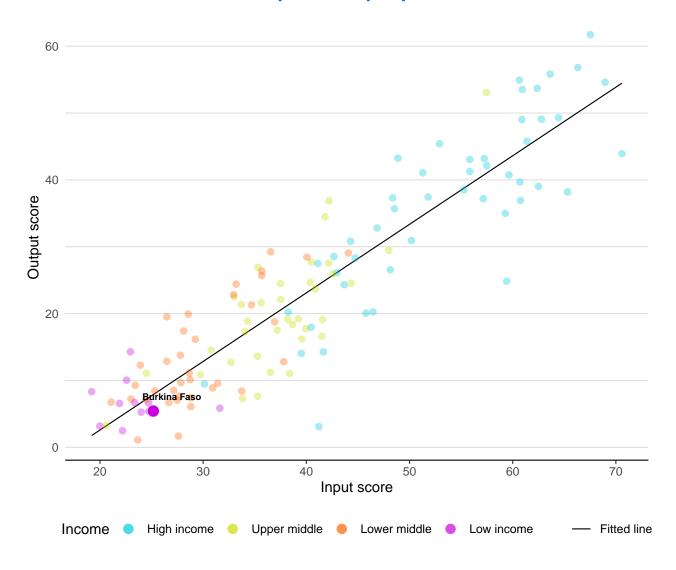


# EFFECTIVELY TRANSLATING INNOVATION INVESTMENTS INTO INNOVATION OUTPUTS

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.

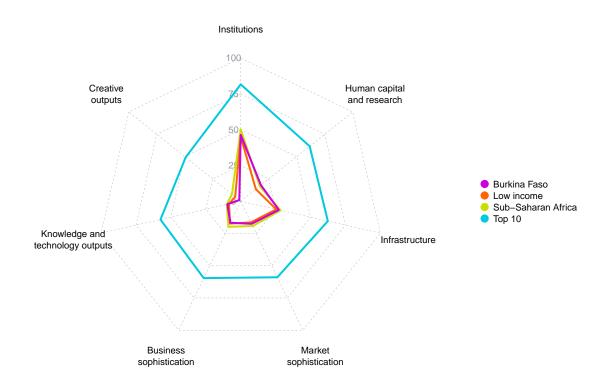
Burkina Faso produces less innovation outputs relative to its level of innovation investments.

### Innovation input to output performance



# BENCHMARKING AGAINST OTHER LOW-INCOME GROUP ECONOMIES AND SUB-SAHARAN AFRICA

### The seven GII pillar scores for Burkina Faso



### Low-income group economies

Burkina Faso performs above the low-income group average in five pillars, namely: Institutions; Human capital and research; Infrastructure; Market sophistication; and, Knowledge and technology outputs.

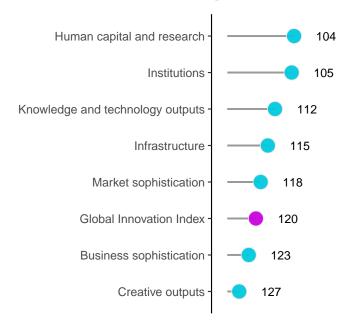
#### **Sub-Saharan Africa**

Burkina Faso performs above the regional average in Human capital and research.

### **OVERVIEW OF RANKINGS IN THE SEVEN GII 2022 AREAS**

Burkina Faso performs best in Human capital and research and its weakest performance is in Creative outputs.

### The seven GII pillar ranks for Burkina Faso



Note: The highest possible ranking in each pillar is 1.

The full WIPO Intellectual Property Statistics profile for Burkina Faso can be found at:

https://www.wipo.int/ipstats/en/statistics/country\_profile/profile.jsp?code=BF.



The table below gives an overview of the indicator strengths and weaknesses of Burkina Faso in the GII 2022.

### **Strengths and weaknesses for Burkina Faso**

Strengths				Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank		
1.2.3	Cost of redundancy dismissal	32	2.3.3	Global corporate R&D investors, top 3, mn USD	38		
1.3.1	Policies for doing business	73	2.3.4	QS university ranking, top 3	72		
2.1.1	Expenditure on education, % GDP	25	3.2.1	Electricity output, GWh/mn pop.	125		
2.2.2	Graduates in science and engineering, %	66	4.1.1	Finance for startups and scaleups	72		
3.2.3	Gross capital formation, % GDP	62	4.2.4	Venture capital received, value, % GDP	101		
4.1.3	Loans from microfinance institutions, % GDP	17	5.2.2	State of cluster development and depth	127		
4.2.3	Venture capital recipients, deals/bn PPP\$ GDP	43	6.1.2	PCT patents by origin/bn PPP\$ GDP	101		
5.2.3	GERD financed by abroad, % GDP	55	7.1.3	Global brand value, top 5,000, % GDP	77		
5.3.3	ICT services imports, % total trade	36	7.3.1	Generic top-level domains (TLDs)/th pop. 15–69	125		
6.2.1	Labor productivity growth, %	40	7.3.2	Country-code TLDs/th pop. 15–69	125		
			7.3.3	GitHub commit pushes received/mn pop. 15–69	129		

# Burkina Faso

Input rank

Income

Region

Population (mn)

GDP, PPP\$ (bn)

Output rank

**120** 

GDP per capita, PPP\$

124	114	Low		SA -		21.5	52.6		,444	+
			Score/						Score/	
î Institutio	nns		Value 46.3	Rank 105		Rusiness	sophistication		Value 16.7	Rank 123
1.1 Political en			43.1	121	5.1					
	l operational stability*		50.9	121	5.1.1	Knowledge- Knowledge-	ntensive employment, %	Ø	13.3	[ <b>120</b> ]
I.1.2 Governmen	t effectiveness*		35.3	107	5.1.2		ng formal training, %		n/a	n/a
	environment		65.0	66 ●			med by business, % GDP ed by business, %		n/a n/a	n/a n/a
I.2.1 Regulatory。 I.2.2 Rule of law*			34.5 35.2	96 89			oloyed w/advanced degrees, %	Ø	0.8	119
.2.3 Cost of redu			10.5	32 ●	5.2	Innovation	inkages		16.5	114
.3 Business er	vironment		30.8	108			dustry R&D collaboration†	0	30.2	115
	doing business <sup>t</sup>	Ø	47.3	73 <b>●</b>			ter development and depth† ed by abroad, % GDP	0	28.7 0.0	127 ○ 55 ●
.3.2 Entreprenei	urship policies and cultu	ıre* ②	14.2	65			e/strategic alliance deals/bn PPP\$ GDI		0.0	117
• Human c	apital and researcl	h	18.1	104 ♦	5.2.5	Patent famili	es/bn PPP\$ GDP		n/a	n/a
Turnari C	apital alla l'escale.		10.1	104	5.3	Knowledge		_	23.4	96
.1 Education	d		38.4	101	5.3.1 5.3.2	High-tech in	property payments, % total trade ports, % total trade	0	0.0 4.1	117 122
	on education, % GDP t funding/pupil, second	arv. % GDP/cap ②	5.5 15.7	25 <b>● ◆</b> 78			imports, % total trade	Ø	2.1	36 ●
2.1.3 School life e		ary, was reap	9.1	109		FDI net inflo			1.2	95
	in reading, maths and s	cience	n/a	n/a	5.3.5	Research tal	ent, % in businesses		n/a	n/a
	er ratio, secondary		20.9	97	200	Knowledd	e and technology outputs		9.6	112
2.2.1 Tertiary ed 2.2.1 Tertiary enr			14.9 7.8	102 117	L.	Kilowieug	je and technology outputs		9.0	112
	n science and engineeri	ng, %	20.3	66 ●	6.1	Knowledge			4.5	111
2.2.3 Tertiary inb	ound mobility, %		2.1	77	6.1.1 6.1.2	,	rigin/bn PPP\$ GDP by origin/bn PPP\$ GDP		0.2 0.0	101 101 ○
	nd development (R&D)		0.9	98	6.1.3		ls by origin/bn PPP\$ GDP	0	0.1	59
2.3.1 Researchers	s, FTE/mn pop. nditure on R&D, % GDP		n/a 0.2	n/a 84	6.1.4	Scientific and	d technical articles/bn PPP\$ GDP		10.5	83
•	orate R&D investors, top	o 3, mn USD	0.2	38 ○ ♦	6.1.5		ments H-index		4.6	101
.3.4 QS universit			0.0	72 ○ ♦	6.2	Knowledge	<b>impact</b> ctivity growth, %		16.5 1.8	104 40 ●
							ses/th pop. 15-64	0	0.3	106
ద్దా <sup>‡</sup> Infrastru	cture		27.3	115			ending, % GDP		0.0	110
.1 Information	n and communication to	echnologies (ICTs)	43.4	116			ality certificates/bn PPP\$ GDP anufacturing, %		0.6 n/a	116 n/a
.1.1 ICT access*		_	54.6	117	6.3	Knowledge	<u> </u>		7.7	112
3.1.2 ICT use* 3.1.3 Governmen	t's online service*		21.3 46.5				property receipts, % total trade	0	0.0	87
3.1.4 E-participat			51.2	99			ind export complexity		19.7	104
.2 General inf	rastructure		19.9	109			ports, % total trade exports, % total trade	Ø	0.1 1.2	120 82
	utput, GWh/mn pop.	0	91.5	125 🔾	0.5.4	ic i sei vices	exports, whotai trade	0	1.2	02
3.2.2 Logistics pe	rformance* al formation, % GDP		26.5 24.1	86 62 ●	GE.	Creative o	outputs		1.3	<b>127</b> $\circ$
•	ustainability		18.5	101			•			
3.3.1 GDP/unit of			8.0	92	<b>7.1</b> 7.1.1	Intangible a	ssets sset intensity, top 15, %		1.5 n/a	<b>126</b> ○ n/a
.3.2 Environmer	ital performance*		35.5	89 ♦			by origin/bn PPP\$ GDP		6.5	115
3.3.3 ISO 14001 6	environmental certifica	ites/bn PPP\$ GDP	0.1	124	7.1.3		l value, top 5,000, % GDP		0.0	77 0
Market s	onhistication		17.5	118	7.1.4		signs by origin/bn PPP\$ GDP		0.3	98
III Walkets	opinistication		17.5	110	<b>7.2</b> 7.2.1		ods and services creative services exports, % total trade		0.2	[ <b>112</b> ] 73
1.1 Credit	startung and scalaungt		19.1	87 ♦			ture films/mn pop. 15-69		n/a	n/a
	startups and scaleups* edit to private sector, %	.GDP	19.1 28.3	72 ○ 98 ◆	7.2.3		nt and media market/th pop. 15–69		n/a	n/a
	microfinance institution		2.0	17 •	7.2.4 7.2.5		other media, % manufacturing ds exports, % total trade		n/a 0.0	n/a 123
.2 Investment	:		6.1	[69]	7.3	Online creat	•		0.0	131 0
	talization, % GDP	DDD# CDD	n/a	n/a	7.3.1		level domains (TLDs)/th pop. 15–69		0.1	125 0
	ital investors, deals/bn ital recipients, deals/bn		n/a 0.0	n/a 43 ●			e TLDs/th pop. 15–69		0.0	125 0
	ital recipients, deals/bit ital received, value, % G		0.0	101 ○ ♦			nit pushes received/mn pop. 15–69 reation/bn PPP\$ GDP		0.0 n/a	129 ○ n/a
	rsification, and market		27.4	116	7.5.4	moune app (	icadon/billil# GDF		II/d	ıı/a
I.3.1 Applied tari	ff rate, weighted avg., %		7.2							
4.3.2 Domestic in	dustry diversification		n/a	n/a						

NOTES: • indicates a strength; • a weakness; • an income group strength; • an income group weakness; \* an index; † a survey question. • indicates that the economy's data are older than the base year; see appendices for details, including the year of the data, at https://www.wipo.int/global\_innovation\_index/en/2022. Square brackets [] indicate that the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level.

52.6 103

4.3.3 Domestic market scale, bn PPP\$



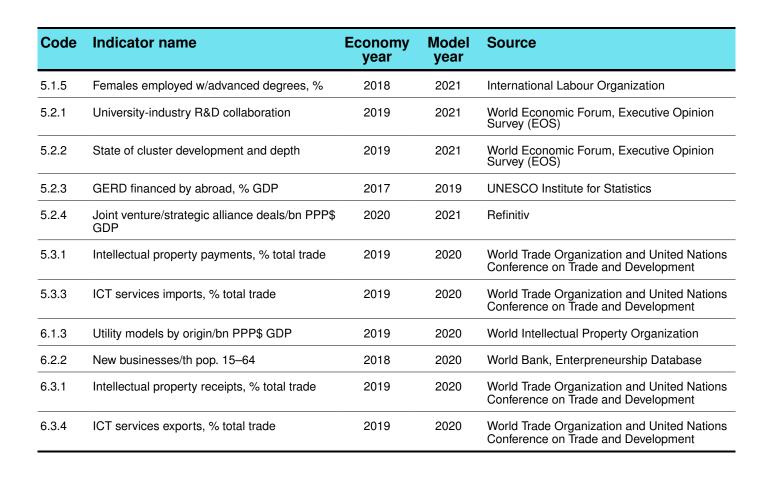
The following tables list indicators that are either missing or outdated for Burkina Faso.

## **Missing data for Burkina Faso**

Code	Indicator name	Economy year	Model year	Source
2.1.4	PISA scales in reading, maths and science	n/a	2018	OECD, PISA
2.3.1	Researchers, FTE/mn pop.	n/a	2020	UNESCO Institute for Statistics
4.2.1	Market capitalization, % GDP	n/a	2020	World Federation of Exchanges
4.2.2	Venture capital investors, deals/bn PPP\$ GDP	n/a	2021	Refinitiv
4.3.2	Domestic industry diversification	n/a	2019	United Nations Industrial Development Organization
5.1.2	Firms offering formal training, %	n/a	2019	World Bank Enterprise Surveys
5.1.3	GERD performed by business, % GDP	n/a	2020	UNESCO Institute for Statistics
5.1.4	GERD financed by business, %	n/a	2019	UNESCO Institute for Statistics
5.2.5	Patent families/bn PPP\$ GDP	n/a	2018	World Intellectual Property Organization
5.3.5	Research talent, % in businesses	n/a	2020	UNESCO Institute for Statistics
6.2.5	High-tech manufacturing, %	n/a	2019	United Nations Industrial Development Organization
7.1.1	Intangible asset intensity, top 15, %	n/a	2021	Brand Finance
7.2.2	National feature films/mn pop. 15–69	n/a	2019	OMDIA
7.2.3	Entertainment and media market/th pop. 15-69	n/a	2021	PwC, GEMO
7.2.4	Printing and other media, % manufacturing	n/a	2019	United Nations Industrial Development Organization
7.3.4	Mobile app creation/bn PPP\$ GDP	n/a	2021	data.ia

### **Outdated data for Burkina Faso**

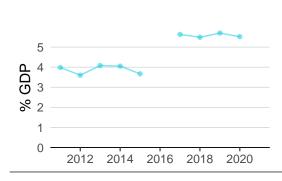
Code	Indicator name	Economy year	Model year	Source
1.3.1	Policies for doing business	2019	2021	World Economic Forum, Executive Opinion Survey (EOS)
1.3.2	Entrepreneurship policies and culture	2020	2021	Global Entrepreneurship Monitor
2.1.2	Government funding/pupil, secondary, % GDP/cap	2016	2018	UNESCO Institute for Statistics
3.2.1	Electricity output, GWh/mn pop.	2019	2020	International Energy Agency
4.1.1	Finance for startups and scaleups	2020	2021	Global Entrepreneurship Monitor
5.1.1	Knowledge-intensive employment, %	2018	2021	International Labour Organization



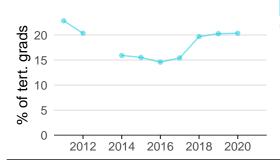
### **BURKINA FASO'S INNOVATION SYSTEM**

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

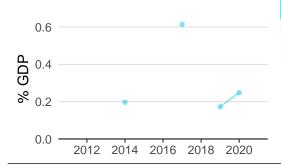
### **Innovation inputs**



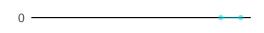
**2.1.1 Expenditure on education** was equal to 5.5% GDP in 2020–down by 3 percentage points from the year prior–and equivalent to an indicator rank of 25.



**2.2.2 Graduates in science and engineering** was equal to 20.3% of tert. grads in 2020–effectively unchanged from the year prior–and equivalent to an indicator rank of 66.

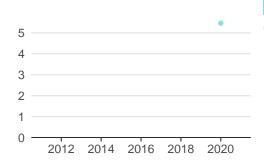


**2.3.2 Gross expenditure on R&D** was equal to 0.2% GDP in 2020–up by 44 percentage points from the year prior–and equivalent to an indicator rank of 84.



**2.3.4 QS university ranking** was equal to 0.0 in 2021–effectively unchanged from the year prior–and equivalent to an indicator rank of 72.

2012 2014 2016 2018 2020

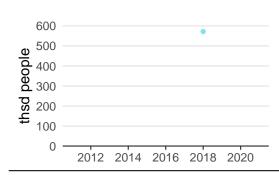


**3.1.1 ICT access** was equal to 5.5 in 2020 and equivalent to an indicator rank of 117.

**4.2.4 Venture capital received** was equal to 0.0 bn USD in 2021 and equivalent to an indicator rank of 101.

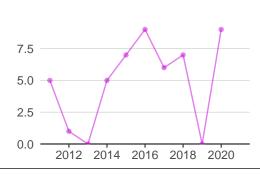


2012 2014 2016 2018 2020

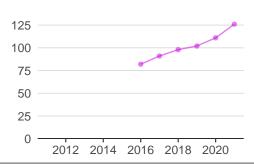


**5.1.1 Knowledge-intensive employment** was equal to 571.5 thsd people in 2018 and equivalent to an indicator rank of 96.

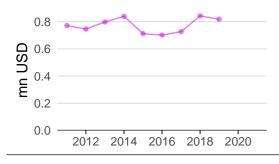




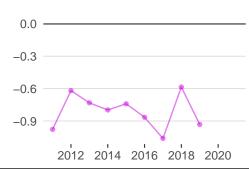
**6.1.1 Patents by origin** was equal to 9.0 in 2020—up by Inf percentage points from the year prior—and equivalent to an indicator rank of 101.



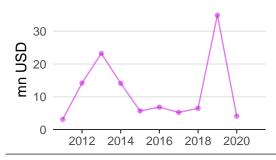
**6.1.5 Citable documents H-index** was equal to 126.0 in 2021—up by 14 percentage points from the year prior—and equivalent to an indicator rank of 101.



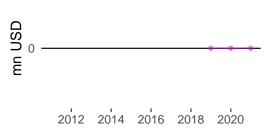
**6.3.1 Intellectual property receipts** was equal to 0.8 mn USD in 2019–down by 3 percentage points from the year prior–and equivalent to an indicator rank of 87.



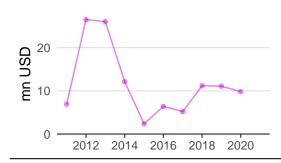
**6.3.2 Production and export complexity** was equal to -0.9 in 2019–down by 59 percentage points from the year prior–and equivalent to an indicator rank of 104.



**6.3.3 High-tech exports** was equal to 4.1 mn USD in 2020–down by 88 percentage points from the year prior–and equivalent to an indicator rank of 120.



**7.1.3 Global brand value** was equal to 0.0 mn USD in 2021–effectively unchanged from the year prior–and equivalent to an indicator rank of 77.



**7.2.1 Cultural and creative services exports** was equal to 9.8 mn USD in 2020–down by 11 percentage points from the year prior–and equivalent to an indicator rank of 73.



### **BURKINA FASO'S INNOVATION TOP PERFORMERS**

### 2.3.3 Global corporate R&D investors

No observations

Source: European Commission's Joint Research Centre (https://iri.jrc.ec.europa.eu/scoreboard/2021-eu-industrial-rd-investment-scoreboard).

### 2.3.4 QS university ranking

University **Score** Rank

No observations

Source: QS Quacquarelli Symonds Ltd (https://www.topuniversities.com/university-rankings/world-university-rankings/2022).

### 7.1.1 Intangible asset intensity, top 15

**Firm** Rank

No observations

Source: Brand Finance (https://brandirectory.com/reports/gift-2021).

### 7.1.3 Global brand value, top 5,000

**Brand Industry** Rank

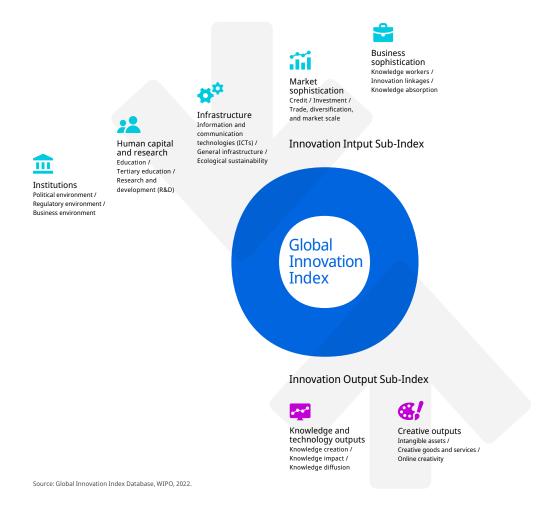
No observations

Source: Brand Finance (https://brandirectory.com).

#### 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.