# GLOBAL INNOVATION INDEX 2020



## **DOMINICAN REPUBLIC**

90th

Dominican Republic ranks 90th among the 131 economies featured in the GII 2020.

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 Dominican Republic 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 Dominican Republic in the GII 2020 is between ranks 86 and 99.

#### Rankings of Dominican Republic (2018–2020)

	GII	Innovation inputs	Innovation outputs
2020	90	94	85
2019	87	90	88
2018	87	92	77

- Dominican Republic performs better in innovation outputs than innovation inputs in 2020.
- This year Dominican Republic ranks 94th in innovation inputs, lower than last year and lower compared to 2018.
- As for innovation outputs, Dominican Republic ranks 85th. This position is higher than last year and lower compared to 2018.

**31st** 

Dominican Republic ranks 31st among the 37 upper middle-income group economies.



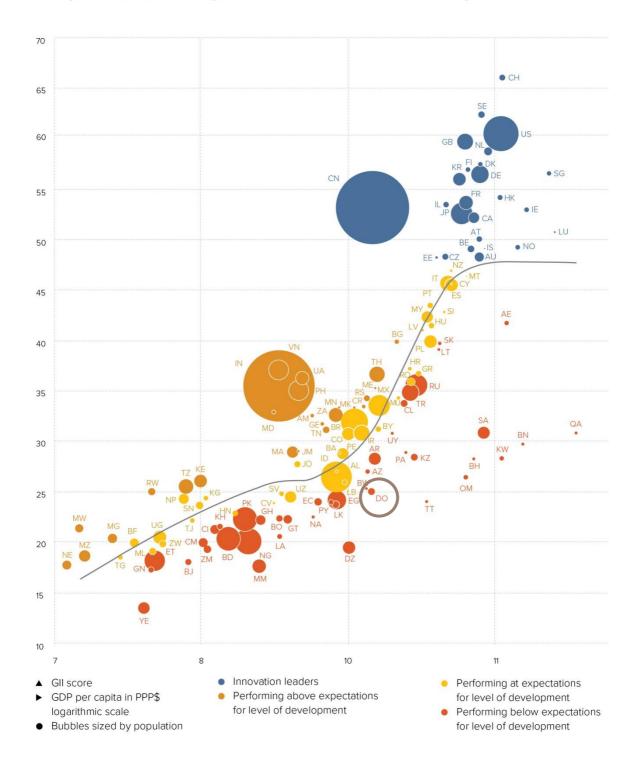
Dominican Republic ranks 11th among the 18 economies in Latin America and the Caribbean.



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, Dominican Republic is performing below expectations for its level of development.

#### The positive relationship between innovation and development

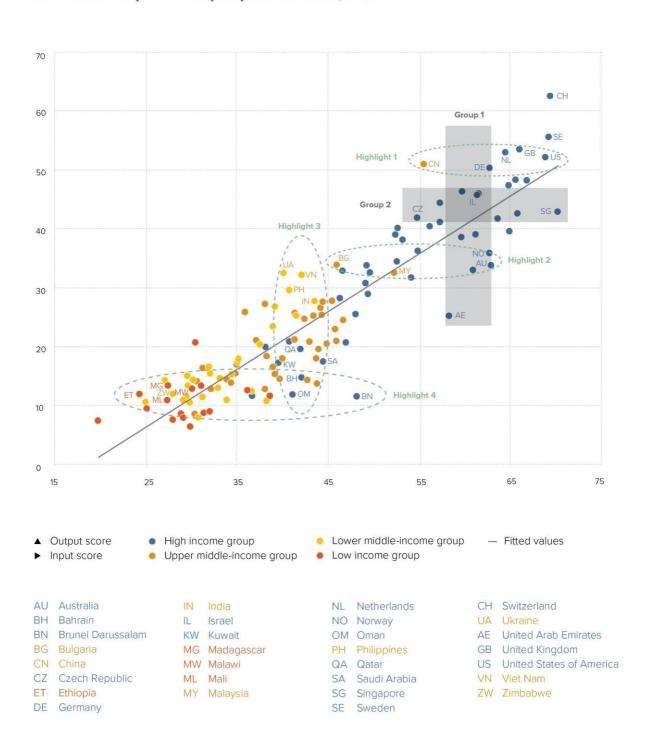




The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.

Dominican Republic produces more innovation outputs relative to its level of innovation investments.

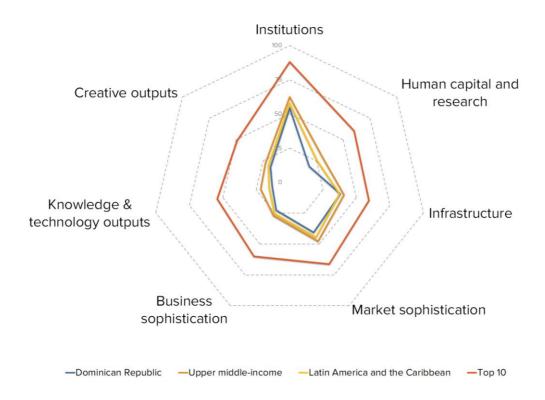
#### Innovation input to output performance, 2020







#### Dominican Republic's scores in the seven GII pillars



#### Upper middle-income group economies

Dominican Republic scores below average for its income group in all pillars.

#### Latin America and the Caribbean

Compared to other economies in Latin America and the Caribbean, Dominican Republic performs:

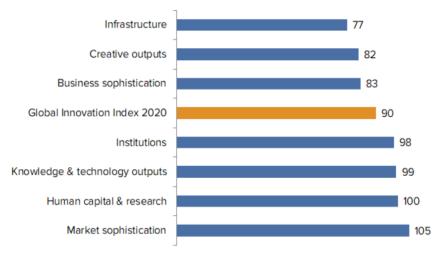
- above average in one of the seven GII pillars: Infrastructure; and
- below average in six out of the seven GII pillars: Institutions, Human capital & research, Market sophistication, Business sophistication, Knowledge & technology outputs and Creative outputs.





# OVERVIEW OF DOMINICAN REPUBLIC RANKINGS IN THE SEVEN GII AREAS

Dominican Republic performs best in Infrastructure and its weakest performance is in Market sophistication.



<sup>\*</sup>The highest possible ranking in each pillar is 1.

#### **INNOVATION STRENGTHS AND WEAKNESSES**

The table below gives an overview of the strengths and weaknesses of Dominican Republic in the GII 2020.

Strengths			Weaknesses				
Code	Indicator name	Rank	Code	Indicator name	Rank		
2.2.1	Tertiary enrolment, % gross	47	2.1.4	PISA scales in reading, maths & science	79		
3.2.3	Gross capital formation, % GDP	45	2.2.2	Graduates in science & engineering, %	101		
3.3	Ecological sustainability	48	2.3.3	Global R&D companies, top 3, mn US\$	42		
3.3.1	GDP/unit of energy use	9	2.3.4	QS university ranking, average score top 3*	77		
4.1.3	Microfinance gross loans, % GDP	30	5.2.4	JV–strategic alliance deals/bn PPP\$ GDP	119		
4.3.2	Intensity of local competition <sup>†</sup>	56	6.1	Knowledge creation	130		
5.2.2	State of cluster development <sup>†</sup>	48	6.1.4	Scientific & technical articles/bn PPP\$ GDP	130		
5.3.4	FDI net inflows, % GDP	42	6.1.5	Citable documents H-index	123		
6.2.1	Growth rate of PPP\$ GDP/worker, %	38	6.2.3	Computer software spending, % GDP	116		
6.3.2	High-tech net exports, % total trade	52	7.1.3	Industrial designs by origin/bn PPP\$ GDP	117		
7.2.5	Creative goods exports, % total trade	26	7.3.4	Mobile app creation/bn PPP\$ GDP	96		



#### **STRENGTHS**

GII strengths for Dominican Republic are found in six of the seven GII pillars.

- Human capital & research (100): the indicator Tertiary enrolment (47) reveals a strength.
- Infrastructure (77): demonstrates strengths in the sub-pillar Ecological sustainability (48) and in the indicators Gross capital formation (45) and GDP/unit of energy use (9).
- Market sophistication (105): shows strengths in the indicators Microfinance gross loans (30) and Intensity of local competition (56).
- Business sophistication (83): displays strengths in the indicators State of cluster development (48) and FDI net inflows (42).
- Knowledge & technology outputs (99): reveals strengths in the indicators Growth rate of PPP (38) and High-tech net exports (52).
- Creative outputs (82): exhibits strength in the indicator Creative goods exports (26).

#### **WEAKNESSES**

GII weaknesses for Dominican Republic are found in four of the seven GII pillars.

- Human capital & research (100): shows weaknesses in the indicators PISA scales in reading, maths & science (79), Graduates in science & engineering (101), Global R&D companies (42) and QS university ranking (77).
- Business sophistication (83): the indicator JV-strategic alliance deals (119) reveals a weakness.
- Knowledge & technology outputs (99): displays weaknesses in the sub-pillar Knowledge creation (130) and in the indicators Scientific & technical articles (130), Citable documents H-index (123) and Computer software spending (116).
- Creative outputs (82): demonstrates weaknesses in the indicators Industrial designs by origin (117) and Mobile app creation (96).

### **DOMINICAN REPUBLIC**



1	Political e Political e Political ar Governme Regulator Regulator Regulator Regulator Political e Pusical	nvironment Id operationa ent effectivence y environme y quality* dundancy disi environment arting a busin solving insolv  CAPITAL &  Te on education t funding/pup expectancy, ss in reading, her ratio, seco	Upper middle  Score Scor	51.0 39.8 36.3 26.2 61.7 85.4 38.0 18.5 34.4 n/a	Rank  98  89 73 91  101 78 86 105  99 85 108	<ul><li>◇</li></ul>	5.1 5.1.2 5.1.3 5.1.4 5.1.5 5.2 5.2.1 5.2.2 5.2.3 5.2.4 5.2.5 5.3	BUSINESS SOPHISTICATION  Knowledge workers Knowledge-intensive employment, % Firms offering formal training, % GERD performed by business, % GDP GERD financed by business, % GDP Hnovation linkages University/industry research collaboration+ State of cluster development GERD financed by abroad, % GDP JV-strategic alliance deals/bn PPP\$ GDP Patent families 2+ offices/bn PPP\$ GDP Knowledge absorption	22.5 24.3 16.4 23.4 n/a n/a 9.1 19.7 35.2 n/a 0.0 0.0 23.5 0.6	87  Rank 83  [85] 89 65 n/a n/a 73  69 98 48 n/a 119 86
1	Political e Political e Political ar Governme Regulator Regulator Regulator Regulator Regulator Sule of lav Cost of re- Business Ease of st Ease of re- HUMAN Educatior Expenditu Governme School life PISA scale Pupil-teac Tertiary e Tertiary e Tertiary e Graduates	nvironment Id operationa ent effectivence y environme y quality* dundancy disi environment arting a busin solving insolv  CAPITAL &  Te on education t funding/pup expectancy, ss in reading, her ratio, seco	I stability*	54.3 50.1 67.9 41.2 51.0 39.8 36.3 26.2 61.7 85.4 38.0 18.5 34.4 n/a	98 89 73 91 101 78 86 105 99 85 108		5.1 5.1.1 5.1.2 5.1.3 5.1.4 5.1.5 5.2 5.2.1 5.2.2 5.2.3 5.2.4 5.2.5	Knowledge workers	22.5  24.3 16.4 23.4 n/a 9.1  19.7 35.2 50.2 n/a 0.0 0.0  23.5 0.6	83 [85] 89 65 n/a 73 69 98 48 n/a 119 86
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## I	Governme  Regulator Regulator Regulator Regulator Rule of lav Cost of rec  Business Ease of st Ease of re  HUMAN  Educatior Expenditu School life PISA scale Pupil-teac  Tertiary e Tertiary e Tertiary e Graduates	y environme y quality* y dundancy disi environment arting a busin- solving insolv  CAPITAL &  con educati at funding/pup expectancy, is in reading, her ratio, seco	missal, salary weeks	51.0 39.8 36.3 26.2 61.7 85.4 38.0 18.5 34.4 n/a	91 101 78 86 105 99 85 108		5.1.2 5.1.3 5.1.4 5.1.5 <b>5.2</b> 5.2.1 5.2.2 5.2.3 5.2.4 5.2.5	Firms offering formal training, %	23.4 n/a n/a 9.1 <b>19.7</b> 35.2 50.2 n/a 0.0 0.0	65 n/a n/a 73 <b>69</b> 98 48 n/a 119 86
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## H	Regulaton Rule of law Cost of rei Business Ease of st. Ease of rei HUMAN Education Expenditu Governmed School life PISA scale Pupil-teac Tertiary e Graduates	quality*dundancy disi environment arting a busing solving insolv  CAPITAL &  Improve on education of the properties	rnissal, salary weeks	39.8 36.3 26.2 <b>61.7</b> 85.4 38.0 <b>18.5</b> <b>34.4</b> n/a	78 86 105 <b>99</b> 85 108		5.1.4 5.1.5 <b>5.2</b> 5.2.1 5.2.2 5.2.3 5.2.4 5.2.5	GERD financed by business, %	n/a 9.1 <b>19.7</b> 35.2 50.2 n/a 0.0 0.0 <b>23.5</b> 0.6	n/a 73 <b>69</b> 98 48 n/a 119 86
## H	Regulaton Rule of law Cost of rei Business Ease of st. Ease of rei HUMAN Education Expenditu Governmed School life PISA scale Pupil-teac Tertiary e Graduates	quality*dundancy disi environment arting a busing solving insolv  CAPITAL &  Improve on education of the properties	rnissal, salary weeks	39.8 36.3 26.2 <b>61.7</b> 85.4 38.0 <b>18.5</b> <b>34.4</b> n/a	78 86 105 <b>99</b> 85 108		5.1.5 5.2 5.2.1 5.2.2 5.2.3 5.2.4 5.2.5	Innovation linkages	9.1 19.7 35.2 50.2 n/a 0.0 0.0 23.5 0.6	73 <b>69</b> 98 48 n/a 119 86
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### ### ##############################	Cost of rei  Business Ease of st Ease of re  HUMAN  Educatior  Expenditu Governmei School life PISA scale Pupil-teac  Tertiary e Tertiary e Graduates	environment arting a busin solving insolv  CAPITAL &  re on educati nt funding/pup expectancy, ss in reading, her ratio, seco	rissal, salary weeks	26.2 61.7 85.4 38.0 18.5 34.4	105 99 85 108		5.2.1 5.2.2 5.2.3 5.2.4 5.2.5	University/industry research collaboration+	35.2 50.2 n/a 0.0 0.0 23.5 0.6	98 48 n/a 119 86
## 1	Business Ease of ste Ease of re HUMAN Education Expenditu Governmen School life PISA scale Pupil-teac Tertiary e Tertiary e Graduates	capital & Capita	RESEARCH	61.7 85.4 38.0 18.5 34.4 n/a	99 85 108		5.2.1 5.2.2 5.2.3 5.2.4 5.2.5	University/industry research collaboration+	35.2 50.2 n/a 0.0 0.0 23.5 0.6	98 48 n/a 119 86
E E E E E E E E E E E E E E E E E E E	Ease of st. Ease of re  HUMAN  Educatior  Expenditu  Governme  School life  PISA scale  Pupil-teac  Tertiary e  Tertiary e  Graduates	CAPITAL &  CAPITAL &  Te on educati at funding/pup expectancy, sis in reading, her ratio, seco	RESEARCH	85.4 38.0 <b>18.5</b> <b>34.4</b> n/a	85 108 <b>100</b>		5.2.2 5.2.3 5.2.4 5.2.5	State of cluster development	50.2 n/a 0.0 0.0 <b>23.5</b> 0.6	48 n/a 119 86
E E E E E E E E E E E E E E E E E E E	Ease of st. Ease of re  HUMAN  Educatior  Expenditu  Governme  School life  PISA scale  Pupil-teac  Tertiary e  Tertiary e  Graduates	CAPITAL &  CAPITAL &  Te on educati at funding/pup expectancy, sis in reading, her ratio, seco	RESEARCH	85.4 38.0 <b>18.5</b> <b>34.4</b> n/a	85 108 <b>100</b>		5.2.3 5.2.4 5.2.5	GERD financed by abroad, % GDP	n/a 0.0 0.0 <b>23.5</b> 0.6	119 86 <b>87</b>
2 E E E E E E E E E E E E E E E E E E E	HUMAN  Education  Expenditu  Governmen  School life  PISA scale  Pupil-teac  Tertiary er  Graduates  Graduates	CAPITAL &  re on educatint funding/pup expectancy, sin reading, ther ratio, seconducation	RESEARCH	38.0 18.5 34.4 n/a	100		5.2.4 5.2.5	JV-strategic alliance deals/bn PPP\$ GDP Patent families 2+ offices/bn PPP\$ GDP	0.0 0.0 <b>23.5</b> 0.6	119 86 <b>87</b>
11 E 12 ( ( 3 3 3 5 5 F F F F F F F F F F F F F F F	Education Expenditu Governmei School life PISA scale Pupil-teac Tertiary e Tertiary er Graduates	re on educatint funding/pup expectancy, es in reading, her ratio, seconducation	pn, % GDP	<b>18.5 34.4</b> n/a	100		5.2.5	Patent families 2+ offices/bn PPP\$ GDP	0.0 <b>23.5</b> 0.6	86 <b>87</b>
11 E C C C C C C C C C C C C C C C C C C	Educatior Expenditu Government School life PISA scale Pupil-teac Tertiary e Tertiary er Graduates	re on education funding/pup expectancy, is in reading, her ratio, seco	on, % GDP il, secondary, % GDP/cap years	<b>34.4</b> n/a	NESS	<b>♦</b>	5.3	Knowledge absorption	0.6	
1 E C C C C C C C C C C C C C C C C C C	Educatior Expenditu Government School life PISA scale Pupil-teac Tertiary e Tertiary er Graduates	re on education funding/pup expectancy, is in reading, her ratio, seco	on, % GDP il, secondary, % GDP/cap	<b>34.4</b> n/a	NESS	- The			0.6	59
1 E 2 (3 3 5 4 F 5 F 1 1 7 1 2 (3 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Expenditu Governmei School life PISA scale Pupil-teac  Tertiary e Tertiary er Graduates	re on education funding/pup expectancy, es in reading, her ratio, seconducation	on, % GDP il, secondary, % GDP/cap years	n/a	96		5.3.1	Intellectual property payments, % total trade		
1 E 2 (2 3 3 5 4 F 5 F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Expenditu Governmei School life PISA scale Pupil-teac  Tertiary e Tertiary er Graduates	re on education funding/pup expectancy, es in reading, her ratio, seconducation	on, % GDP il, secondary, % GDP/cap years	n/a			5.3.2	High-tech imports, % total trade	6.7	78
2 (2 (3 (3 (4 ) F ) 1 (1 ) 1 (	Governmen School life PISA scale Pupil-teac <b>Tertiary e</b> Tertiary er Graduates	nt funding/pup expectancy, es in reading, her ratio, seco	il, secondary, % GDP/cap years		n/a		5.3.3	ICT services imports, % total trade	0.4	106
3	School life PISA scale Pupil-teac  Tertiary e Tertiary er Graduates	expectancy, es in reading, her ratio, seco	years		78		5.3.4	FDI net inflows, % GDP	3.7	42
4 F F F F F F F F F F F F F F F F F F F	PISA scale Pupil-teac <b>Tertiary e</b> Tertiary er Graduates	es in reading, her ratio, seco			69		5.3.5	Research talent, % in business enterprise	n/a	n/a
1.1 1 1.2 (0.3 1 1.3 1 1.1 F	<b>Tertiary e</b> Tertiary er Graduates	ducation			79	0 0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
.1 .2 .0 .3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Tertiary er Graduates		ondary. 🖲	18.6	92		[5]		42.0	-
.1 .2 (c .3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Tertiary er Graduates			21.1	93		<u>M</u>	KNOWLEDGE & TECHNOLOGY OUTPUTS	13.0	99
.2 (c	Graduates		OSS		47	•	6.1	Knowledge creation	1.3	130
.3 T			engineering, %			0 0	6.1.1	Patents by origin/bn PPP\$ GDP	0.1	115
.1 F			y, %		79		6.1.2	PCT patents by origin/bn PPP\$ GDP		73
.1 F							6.1.3	Utility models by origin/bn PPP\$ GDP		60
.1 F	Research	& developme	ent (R&D)	0.0	[121]		6.1.4	Scientific & technical articles/bn PPP\$ GDP		130
.2 (			DD		n/a		6.1.5	Citable documents H-index		123
			&D, % GDP		n/a					
.3 (	Global R&D	companies, a	vg. exp. top 3, mn \$US	0.0	42	00	6.2	Knowledge impact	15.3	98
4 (	QS univer	sity ranking, a	verage score top 3*	0.0	77	00	6.2.1	Growth rate of PPP\$ GDP/worker, %	2.5	38
							6.2.2	New businesses/th pop. 15-64	1.5	69
							6.2.3	Computer software spending, % GDP	0.0	116
Χı	INFRAST						6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP		111
1	Informatio	n & communic	ation technologies (ICTs)	57.2	85		6.2.5	High- and medium-high-tech manufacturing, %	. n/a	n/a
					99	$\Diamond$	6.3	Knowledge diffusion	22.5	68
					77		6.3.1	Intellectual property receipts, % total trade		n/a
			rvice*		80		6.3.2	High-tech net exports, % total trade	2.2	52
					78		6.3.3	ICT services exports, % total trade	0.5	97
	The American State of the State						6.3.4	FDI net outflows, % GDP	0.1	100
			nn pop		<b>92</b> 83					
					85		***	CREATIVE OUTPUTS	17.8	82
.3 (	Gross cap	ital formation,	% GDP	25.7	45	•	•			
							7.1	Intangible assets	19.7	91
			ty		48		7.1.1	Trademarks by origin/bn PPP\$ GDP		58
						• +	7.1.2	Global brand value, top 5,000, % GDP		77
			ince*		68		7.1.3	Industrial designs by origin/bn PPP\$ GDP	0.0	117
.3 1	ISO 14001 e	environmental	certificates/bn PPP\$ GDP	0.1	120		7.1.4	ICTs & organizational model creation+	48.9	85
	100000						7.2	Creative goods and services	22.7	[46]
al I	MARKET	SOPHISTI	CATION	40.6	105		7.2.1	Cultural & creative services exports, % total trade	n/a	n/a
							7.2.2	National feature films/mn pop. 15-69		53
					117	<b>♦</b>	7.2.3	Entertainment & Media market/th pop. 15-69	n/a	n/a
			to costor % CDD		101	$\Diamond$	7.2.4	Printing and other media, % manufacturing	n/a	n/a
			te sector, % GDP s, % GDP		95 30	•	7.2.5	Creative goods exports, % total trade	2.2	26
					50		7.3	Online creativity	9.2	88
					[78]		7.3.1	Generic top-level domains (TLDs)/th pop. 15-69	2.5	71
	The second secon		rity investors*		118	$\Diamond$	7.3.2	Country-code TLDs/th pop. 15-69	1.3	80
			GDP		n/a		7.3.3	Wikipedia edits/mn pop. 15-69	36.7	85
.3 \	Venture ca	apital deals/bi	1 PPP\$ GDP	n/a	n/a		7.3.4	Mobile app creation/bn PPP\$ GDP	0.0	96
3 7	Trade, co	mpetition, an	d market scale	63.3	64					
.1 /	Applied ta	riff rate, weigl	nted avg., %	4.2	79					
			tition+ bn PPP\$		56 66					





#### **DATA AVAILABILITY**

The following tables list data that are either missing or outdated for Dominican Republic.

#### Missing data

Code	Indicator name	Country year	Model year	Source
2.1.1	Expenditure on education, % GDP	n/a	2018	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	n/a	2018	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators
2.3.2	Gross expenditure on R&D, % GDP	n/a	2018	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators
4.2.2	Market capitalization, % GDP	n/a	2018	World Federation of Exchanges
4.2.3	Venture capital deals/bn PPP\$ GDP	n/a	2019	Thomson Reuters
5.1.3	GERD performed by business, % GDP	n/a	2018	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators
5.1.4	GERD financed by business, %	n/a	2017	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators
5.2.3	GERD financed by abroad, % GDP	n/a	2017	UNESCO Institute for Statistics
5.3.5	Research talent, % in business enterprise	n/a	2018	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators
6.2.5	High- & medium-high-tech manufacturing, %	n/a	2017	United Nations Industrial Development Organization
6.3.1	Intellectual property receipts, % total trade	n/a	2018	World Trade Organization
7.2.1	Cultural & creative services exports, % total trade	n/a	2018	World Trade Organization
7.2.3	Entertainment & Media market/th pop. 15–69	n/a	2018	PwC
7.2.4	Printing & other media, % manufacturing	n/a	2017	United Nations Industrial Development Organization

#### **Outdated data**

Code	Indicator name	Country	Model	Source
Code		year	year	
2.1.5	Pupil-teacher ratio, secondary	2017	2018	UNESCO Institute for Statistics
5.1.2	Firms offering formal training, %	2015	2018	World Bank
5.3.2	High-tech imports, % total trade	2017	2018	United Nations, COMTRADE
6.3.2	High-tech net exports, % total trade	2017	2018	United Nations, COMTRADE
7.2.5	Creative goods exports, % total trade	2017	2018	United Nations, COMTRADE

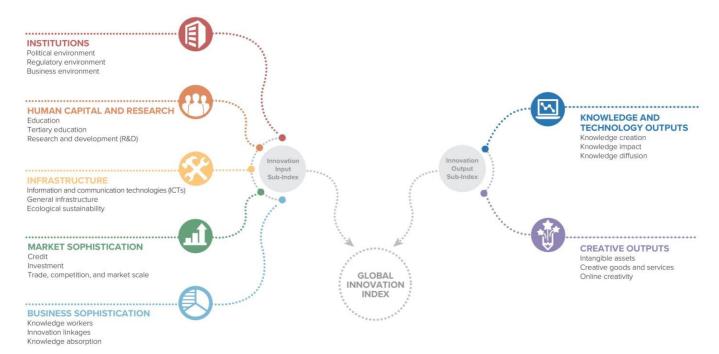


#### **ABOUT THE GLOBAL INNOVATION INDEX**

The Global Innovation Index (GII) is co-published by Cornell University, INSEAD, and the World Intellectual Property Organization (WIPO), a specialized agency of the United Nations. In 2020, the GII presents its 13<sup>th</sup> edition devoted to the theme *Who Will Finance Innovation?* 

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.

#### Framework of the Global Innovation Index 2020



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.



