



TRINIDAD AND TOBAGO

97th

Trinidad and Tobago ranks 97th among the 132 economies featured in the GII 2021.

The Global Innovation Index (GII) ranks world economies according to their innovation capabilities. Consisting of roughly 80 indicators, grouped into innovation inputs and outputs, the GII aims to capture the multi-dimensional facets of innovation.

The following table shows the rankings of Trinidad and Tobago 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 Trinidad and Tobago in the GII 2021 is between ranks 89 and 98.

Rankings for Trinidad and Tobago (2019–2021)

	GII	Innovation inputs	Innovation outputs
2021	97	97	95
2020	98	87	111
2019	91	88	99

- Trinidad and Tobago performs better in innovation outputs than innovation inputs in 2021.
- This year Trinidad and Tobago ranks 97th in innovation inputs, lower than both 2020 and 2019.
- As for innovation outputs, Trinidad and Tobago ranks 95th. This position is higher than both 2020 and 2019.

51st

Trinidad and Tobago ranks 51st among the 51 high-income group economies.

15th

Trinidad and Tobago ranks 15th among the 18 economies in Latin America and the Caribbean.

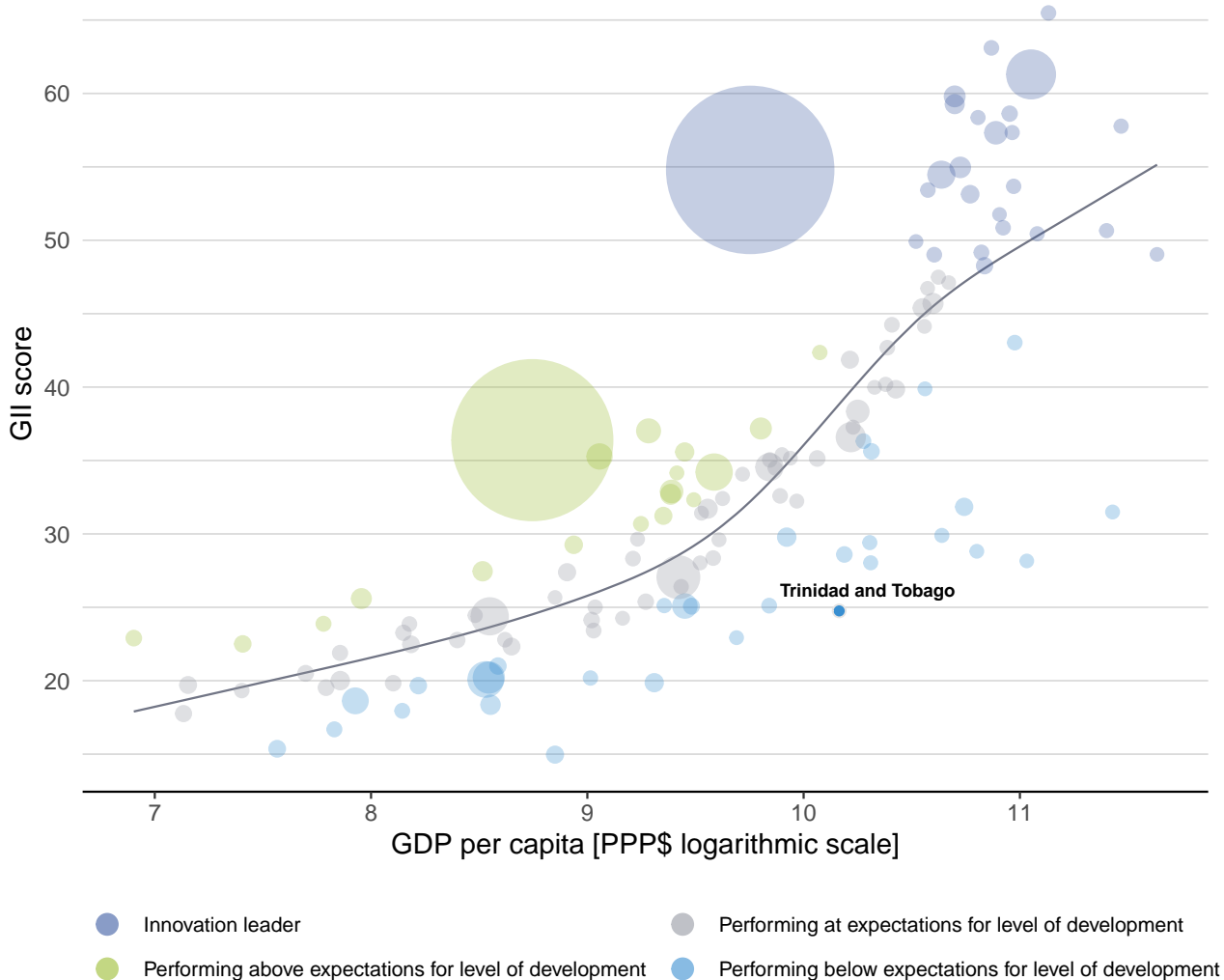


EXPECTED VS. OBSERVED INNOVATION PERFORMANCE

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, Trinidad and Tobago's performance is below expectations for its level of development.

The positive relationship between innovation and development



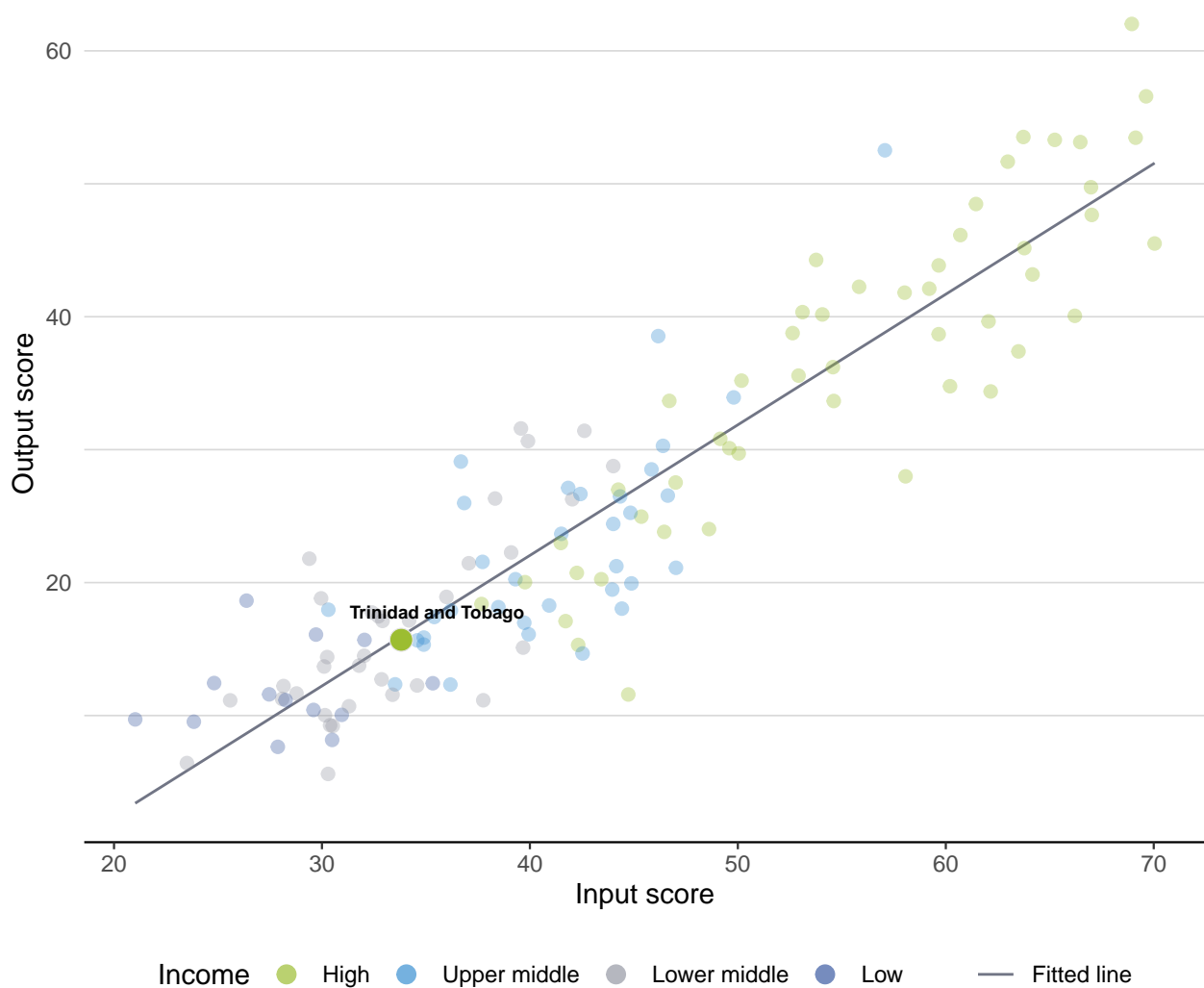


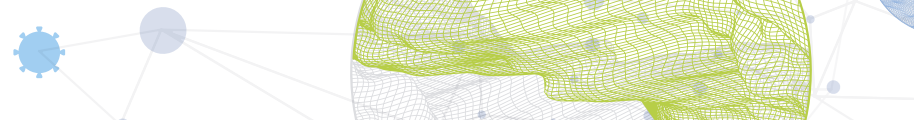
EFFECTIVELY TRANSLATING INNOVATION INVESTMENTS INTO INNOVATION OUTPUTS

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

Trinidad and Tobago produces less innovation outputs relative to its level of innovation investments.

Innovation input to output performance





BENCHMARKING AGAINST OTHER HIGH-INCOME GROUP ECONOMIES AND LATIN AMERICA AND THE CARIBBEAN

The seven GII pillar scores for Trinidad and Tobago

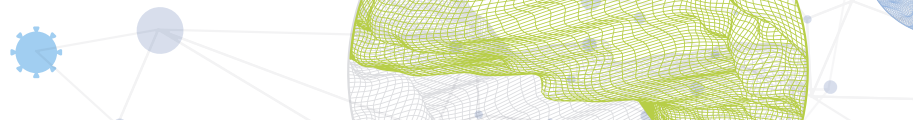


High-income group economies

Trinidad and Tobago performs below the high-income group average in all GII pillars.

Latin America and the Caribbean

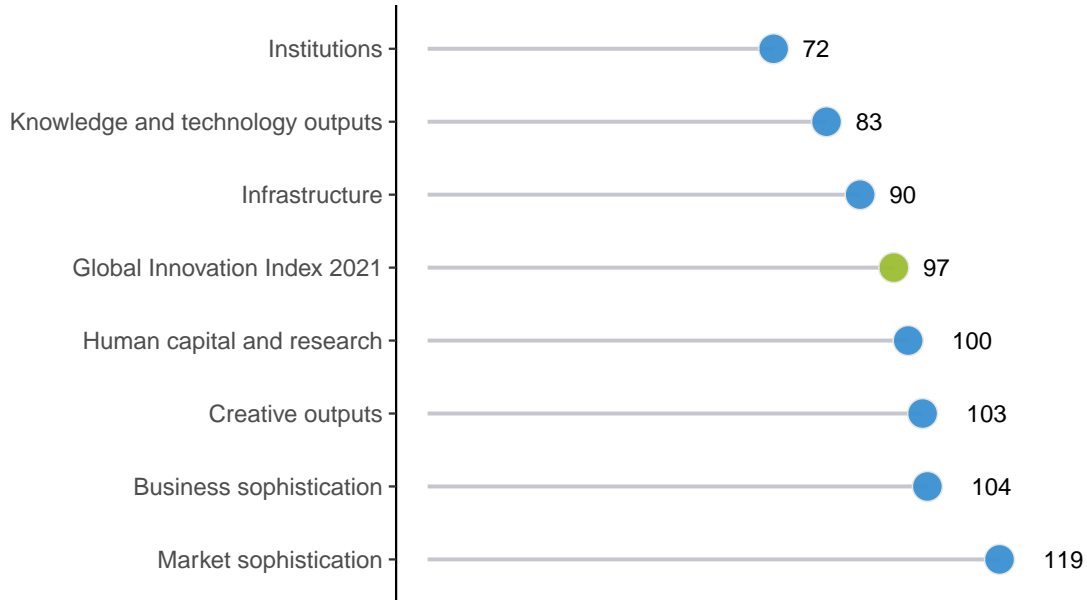
Trinidad and Tobago performs above the regional average in Institutions.



OVERVIEW OF RANKINGS IN THE SEVEN GII 2021 AREAS

Trinidad and Tobago performs best in Institutions and its weakest performance is in Market sophistication.

The seven GII pillar ranks for Trinidad and Tobago



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



INNOVATION STRENGTHS AND WEAKNESSES

The table below gives an overview of the strengths and weaknesses of Trinidad and Tobago in the GII 2021.

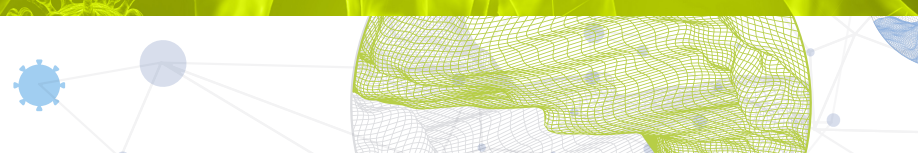
Strengths and weaknesses for Trinidad and Tobago

Strengths			Weaknesses		
Code	Indicator name	Rank	Code	Indicator name	Rank
1.1	Political environment	60	2.3.2	Gross expenditure on R&D, % GDP	108
1.1.1	Political and operational stability	54	2.3.3	Global corporate R&D investors, top 3, mn US\$	41
3.1.1	ICT access	41	2.3.4	QS university ranking, top 3	74
3.2.1	Electricity output, GWh/mn pop.	31	3.3.1	GDP/unit of energy use	124
4.2.1	Ease of protecting minority investors	56	4.1.3	Microfinance gross loans, % GDP	76
5.1.1	Knowledge-intensive employment, %	49	4.3	Trade, diversification, and market scale	124
5.1.5	Females employed w/advanced degrees, %	57	5.1.3	GERD performed by business, % GDP	86
5.2.4	Joint venture/strategic alliance deals/bn PPP\$ GDP	58	5.3	Knowledge absorption	123
6.3.3	High-tech exports, % total trade	59	5.3.4	FDI net inflows, % GDP	125
7.3	Online creativity	54	6.1.1	Patents by origin/bn PPP\$ GDP	124
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69	58	6.3.4	ICT services exports, % total trade	123
7.3.3	Wikipedia edits/mn pop. 15–69	55	7.1.2	Global brand value, top 5,000, % GDP	80

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$ (bn)	GDP per capita, PPP\$	GII 2020 rank
95	97	High	LCN	1.4	36.4	25,964	98

	Score/ Value	Rank		Score/ Value	Rank
Institutions	62.0	72	Business sophistication	18.3	104
1.1 Political environment	59.1	60	5.1 Knowledge workers	25.1	85
1.1.1 Political and operational stability*	71.4	54	5.1.1 Knowledge-intensive employment, %	29.8	49
1.1.2 Government effectiveness*	52.9	64	5.1.2 Firms offering formal training, %	28.0	55
1.2 Regulatory environment	58.4	84	5.1.3 GERD performed by business, % GDP	0.0	86
1.2.1 Regulatory quality*	39.6	80	5.1.4 GERD financed by business, %	13.6	73
1.2.2 Rule of law*	43.6	69	5.1.5 Females employed w/advanced degrees, %	12.8	57
1.2.3 Cost of redundancy dismissal	20.5	87	5.2 Innovation linkages	15.9	104
1.3 Business environment	68.5	74	5.2.1 University-industry R&D collaboration†	33.3	99
1.3.1 Ease of starting a business*	88.6	64	5.2.2 State of cluster development and depth†	43.0	86
1.3.2 Ease of resolving insolvency*	48.4	75	5.2.3 GERD financed by abroad, % GDP	0.0	66
			5.2.4 Joint venture/strategic alliance deals/bn PPP\$ GDP	0.0	58
			5.2.5 Patent families/bn PPP\$ GDP	0.0	77
Human capital and research	19.2	[100]	5.3 Knowledge absorption	14.1	123
2.1 Education	36.3	[101]	5.3.1 Intellectual property payments, % total trade	0.6	65
2.1.1 Expenditure on education, % GDP	n/a	n/a	5.3.2 High-tech imports, % total trade	6.5	88
2.1.2 Government funding/pupil, secondary, % GDP/cap	n/a	n/a	5.3.3 ICT services imports, % total trade	0.5	105
2.1.3 School life expectancy, years	n/a	n/a	5.3.4 FDI net inflows, % GDP	-1.4	125
2.1.4 PISA scales in reading, maths and science	423.0	54	5.3.5 Research talent, % in businesses	1.4	77
2.1.5 Pupil-teacher ratio, secondary	n/a	n/a	Knowledge and technology outputs	15.8	83
2.2 Tertiary education	n/a	[n/a]	6.1 Knowledge creation	3.5	119
2.2.1 Tertiary enrolment, % gross	n/a	n/a	6.1.1 Patents by origin/bn PPP\$ GDP	0.0	124
2.2.2 Graduates in science and engineering, %	n/a	n/a	6.1.2 PCT patents by origin/bn PPP\$ GDP	0.0	84
2.2.3 Tertiary inbound mobility, %	n/a	n/a	6.1.3 Utility models by origin/bn PPP\$ GDP	0.0	65
2.3 Research and development (R&D)	2.0	94	6.1.4 Scientific and technical articles/bn PPP\$ GDP	6.7	104
2.3.1 Researchers, FTE/mn pop.	567.0	64	6.1.5 Citable documents H-index	4.9	106
2.3.2 Gross expenditure on R&D, % GDP	0.1	108	6.2 Knowledge impact	33.0	[54]
2.3.3 Global corporate R&D investors, top 3, mn US\$	0.0	41	6.2.1 Labor productivity growth, %	0.5	56
2.3.4 QS university ranking, top 3*	0.0	74	6.2.2 New businesses/th pop. 15-64	n/a	n/a
			6.2.3 Software spending, % GDP	n/a	n/a
Infrastructure	33.8	90	6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	2.2	85
3.1 Information and communication technologies (ICTs)	64.1	71	6.2.5 High-tech manufacturing, %	n/a	n/a
3.1.1 ICT access*	77.7	41	6.3 Knowledge diffusion	10.9	92
3.1.2 ICT use*	55.6	70	6.3.1 Intellectual property receipts, % total trade	0.0	81
3.1.3 Government's online service*	61.2	86	6.3.2 Production and export complexity	45.1	58
3.1.4 E-participation*	61.9	84	6.3.3 High-tech exports, % total trade	2.0	59
3.2 General infrastructure	20.6	106	6.3.4 ICT services exports, % total trade	0.2	123
3.2.1 Electricity output, GWh/mn pop.	6,636.7	31	Creative outputs	15.6	103
3.2.2 Logistics performance*	17.1	113	7.1 Intangible assets	19.5	102
3.2.3 Gross capital formation, % GDP	n/a	n/a	7.1.1 Trademarks by origin/bn PPP\$ GDP	22.4	89
3.3 Ecological sustainability	16.8	117	7.1.2 Global brand value, top 5,000, % GDP	0.0	80
3.3.1 GDP/unit of energy use	2.5	124	7.1.3 Industrial designs by origin/bn PPP\$ GDP	0.5	84
3.3.2 Environmental performance*	47.5	63	7.1.4 ICTs and organizational model creation†	49.8	83
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	0.5	86	7.2 Creative goods and services	1.5	[122]
			7.2.1 Cultural and creative services exports, % total trade	0.0	97
Market sophistication	35.8	119	7.2.2 National feature films/mn pop. 15-69	n/a	n/a
4.1 Credit	32.0	100	7.2.3 Entertainment and media market/th pop. 15-69	n/a	n/a
4.1.1 Ease of getting credit*	65.0	61	7.2.4 Printing and other media, % manufacturing	n/a	n/a
4.1.2 Domestic credit to private sector, % GDP	40.1	82	7.2.5 Creative goods exports, % total trade	0.1	89
4.1.3 Microfinance gross loans, % GDP	0.0	76	7.3 Online creativity	21.9	54
4.2 Investment	34.8	[50]	7.3.1 Generic top-level domains (TLDs)/th pop. 15-69	4.2	58
4.2.1 Ease of protecting minority investors*	64.0	56	7.3.2 Country-code TLDs/th pop. 15-69	1.5	75
4.2.2 Market capitalization, % GDP	n/a	n/a	7.3.3 Wikipedia edits/mn pop. 15-69	58.8	55
4.2.3 Venture capital investors, deals/bn PPP\$ GDP	0.0	51	7.3.4 Mobile app creation/bn PPP\$ GDP	n/a	n/a
4.2.4 Venture capital recipients, deals/bn PPP\$ GDP	n/a	n/a			
4.3 Trade, diversification, and market scale	40.5	124			
4.3.1 Applied tariff rate, weighted avg., %	8.6	107			
4.3.2 Domestic industry diversification	n/a	n/a			
4.3.3 Domestic market scale, bn PPP\$	36.4	114			

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 Appendix IV for details, including the year of the data, at <http://globalinnovationindex.org>. Square brackets [] indicate that the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level.

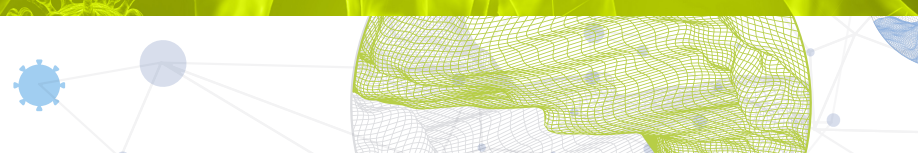


DATA AVAILABILITY

The following tables list data that are either missing or outdated for Trinidad and Tobago.

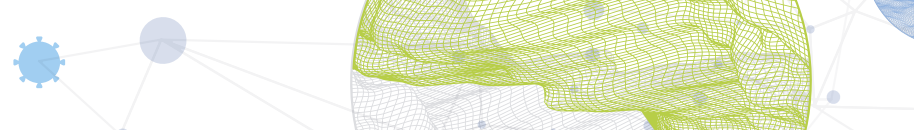
Missing data for Trinidad and Tobago

Code	Indicator name	Economy year	Model year	Source
2.1.1	Expenditure on education, % GDP	n/a	2017	UNESCO Institute for Statistics
2.1.2	Government funding/pupil, secondary, % GDP/cap	n/a	2017	UNESCO Institute for Statistics
2.1.3	School life expectancy, years	n/a	2018	UNESCO Institute for Statistics
2.1.5	Pupil-teacher ratio, secondary	n/a	2019	UNESCO Institute for Statistics
2.2.1	Tertiary enrolment, % gross	n/a	2018	UNESCO Institute for Statistics
2.2.2	Graduates in science and engineering, %	n/a	2018	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.2.3	Tertiary inbound mobility, %	n/a	2018	UNESCO Institute for Statistics
3.2.3	Gross capital formation, % GDP	n/a	2020	International Monetary Fund
4.2.2	Market capitalization, % GDP	n/a	2019	World Federation of Exchanges
4.2.4	Venture capital recipients, deals/bn PPP\$ GDP	n/a	2020	Refinitiv Eikon
4.3.2	Domestic industry diversification	n/a	2018	United Nations Industrial Development Organization
6.2.2	New businesses/th pop. 15–64	n/a	2018	World Bank
6.2.3	Software spending, % GDP	n/a	2020	IHS Markit
6.2.5	High-tech manufacturing, %	n/a	2018	United Nations Industrial Development Organization
7.2.2	National feature films/mn pop. 15–69	n/a	2017	UNESCO Institute for Statistics
7.2.3	Entertainment and media market/th pop. 15–69	n/a	2020	PwC
7.2.4	Printing and other media, % manufacturing	n/a	2018	United Nations Industrial Development Organization
7.3.4	Mobile app creation/bn PPP\$ GDP	n/a	2020	App Annie



Outdated data for Trinidad and Tobago

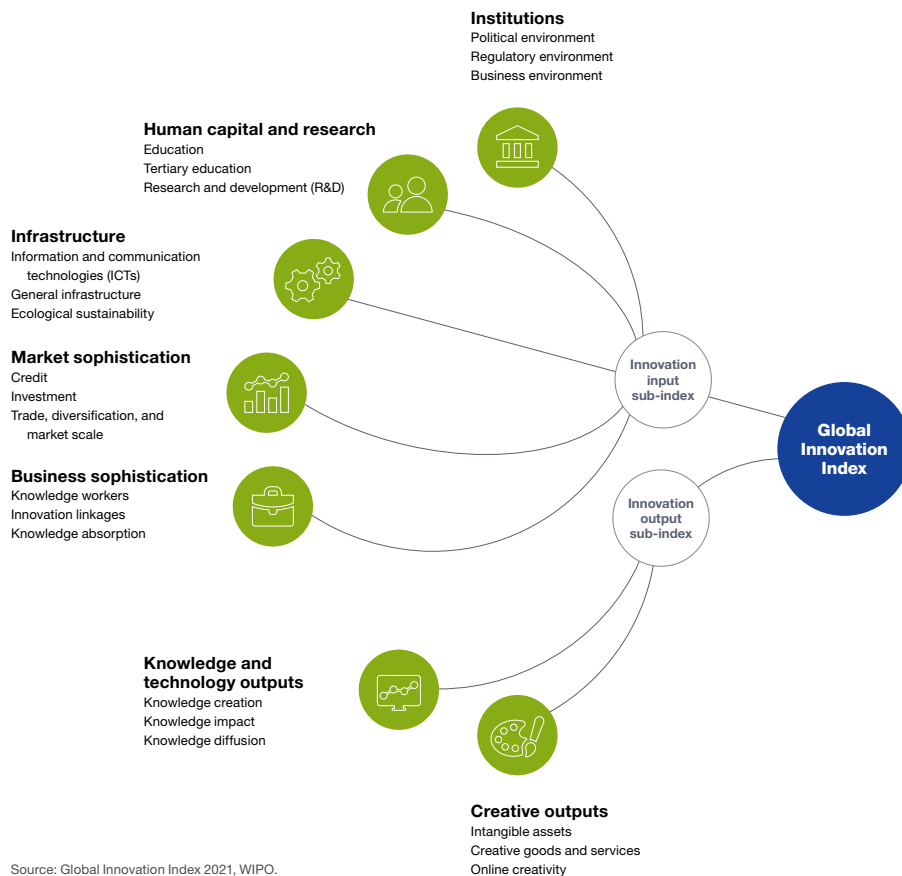
Code	Indicator name	Economy year	Model year	Source
2.1.4	PISA scales in reading, maths and science	2015	2018	OECD Programme for International Student Assessment (PISA)
2.3.1	Researchers, FTE/mn pop.	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.3.2	Gross expenditure on R&D, % GDP	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
4.1.3	Microfinance gross loans, % GDP	2013	2018	Microfinance Information Exchange
4.2.3	Venture capital investors, deals/bn PPP\$ GDP	2019	2020	Refinitiv Eikon
4.3.1	Applied tariff rate, weighted avg., %	2013	2019	World Bank
5.1.1	Knowledge-intensive employment, %	2016	2019	International Labour Organization
5.1.2	Firms offering formal training, %	2010	2019	World Bank
5.1.3	GERD performed by business, % GDP	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
5.1.5	Females employed w/advanced degrees, %	2016	2019	International Labour Organization
5.3.2	High-tech imports, % total trade	2015	2019	United Nations, COMTRADE
5.3.5	Research talent, % in businesses	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
6.1.3	Utility models by origin/bn PPP\$ GDP	2018	2019	World Intellectual Property Organization
6.3.3	High-tech exports, % total trade	2015	2019	United Nations, COMTRADE
7.2.5	Creative goods exports, % total trade	2015	2019	United Nations, COMTRADE



ABOUT THE GLOBAL INNOVATION INDEX

The Global Innovation Index (GII) is published by the World Intellectual Property Organization (WIPO), a specialized agency of the United Nations.

Recognizing that innovation is a key driver of economic development, the GII aims to provide an innovation ranking and rich analysis referencing around 130 economies. Over the last decade, the GII has established itself as both a leading reference on innovation and a “tool for action” for economies that incorporate the GII into their innovation agendas.



The Index is a ranking of the innovation capabilities and results of world economies. It measures innovation based on criteria that include institutions, human capital and research, infrastructure, credit, investment, linkages; the creation, absorption and diffusion of knowledge; and creative outputs.

The GII has two sub-indices: the Innovation Input Sub-Index and the Innovation Output Sub-Index, and seven pillars, each consisting of three sub-pillars.