HONDURAS

113th Honduras ranks 113th 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 Honduras 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 Honduras in the GII 2022 is between ranks 103 and 113.

Rankings for Honduras (2020–2022)

GIIYR	GII	Innovation inputs	Innovation outputs
2020	103	100	102
2021	108	101	106
2022	113	108	116

- Honduras performs better in innovation inputs than innovation outputs in 2022.
- This year Honduras ranks 108th in innovation inputs, lower than both 2021 and 2020.
- As for innovation outputs, Honduras ranks 116th. This position is lower than both 2021 and 2020.

28th Honduras ranks 28th among the 36 lower-middle-income group economies.

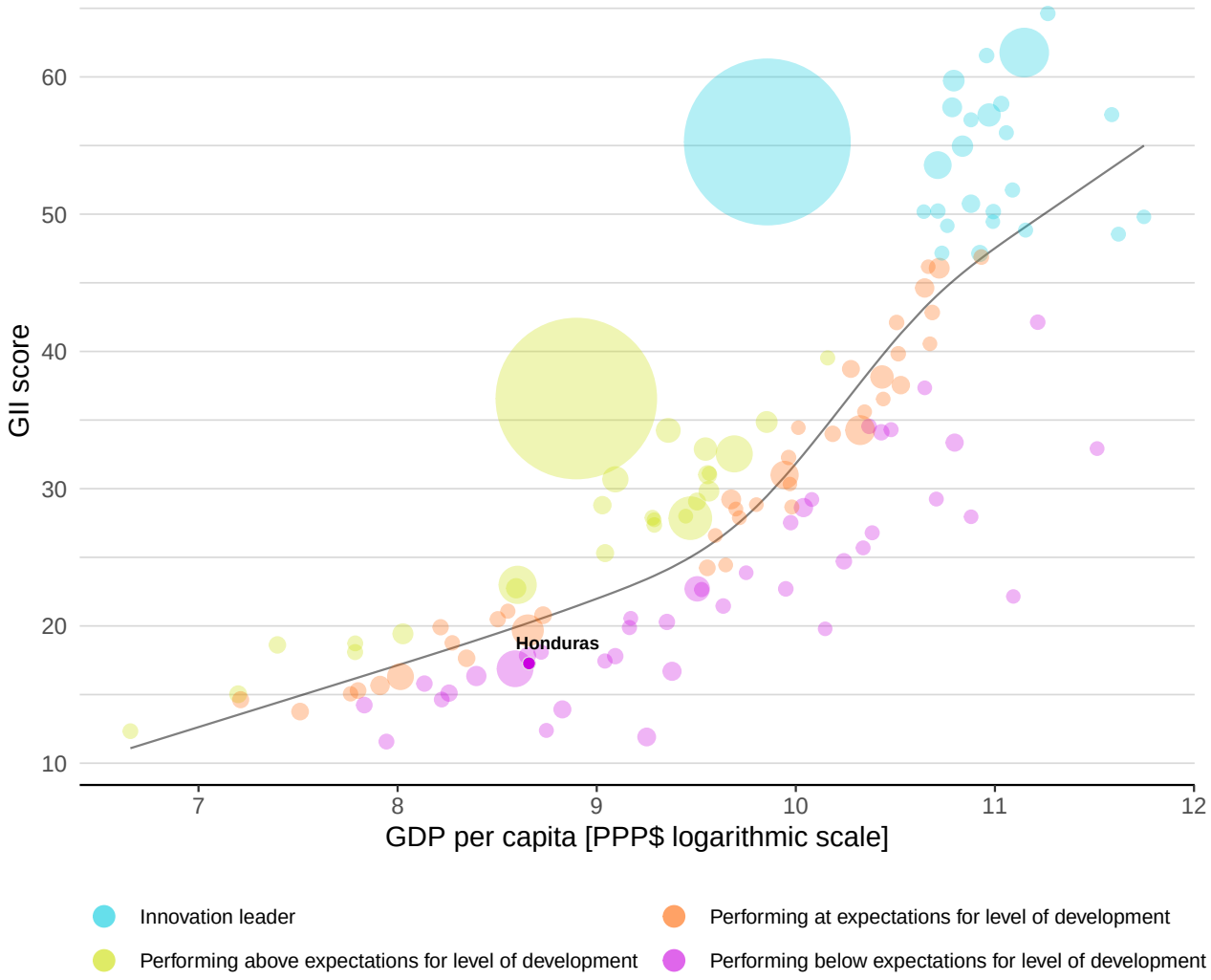
18th Honduras ranks 18th among the 18 economies in Latin America and the Caribbean.

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, Honduras's performance is below expectations for its level of development.

The positive relationship between innovation and development

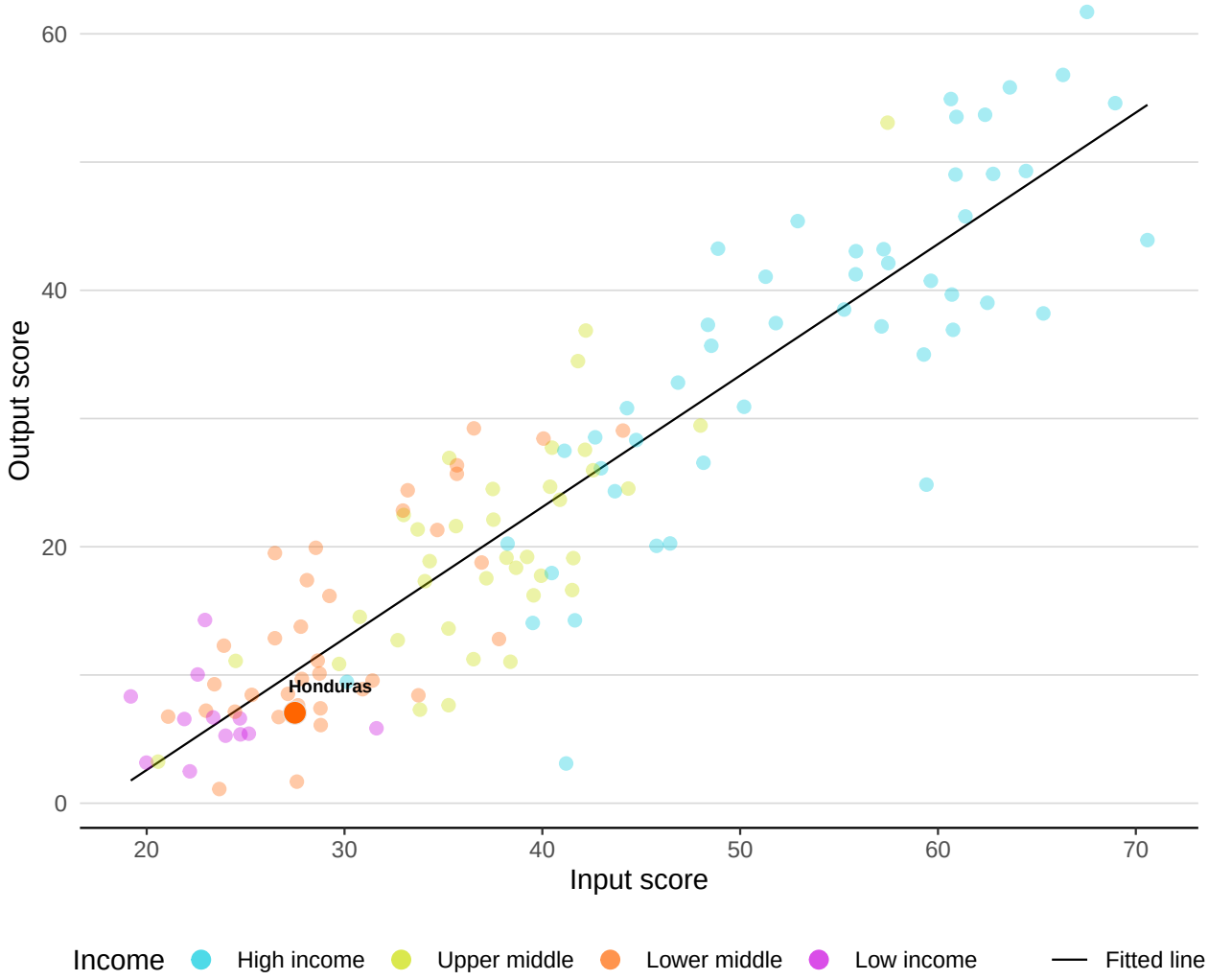


EFFECTIVELY TRANSLATING INNOVATION INVESTMENTS INTO INNOVATION OUTPUTS

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.

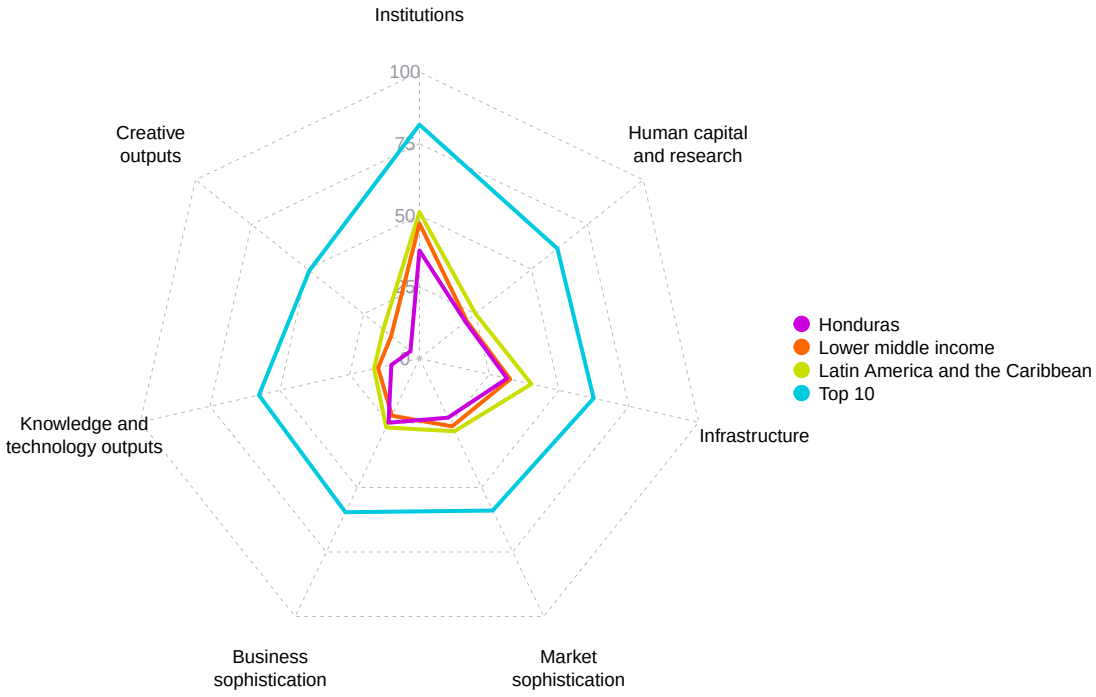
Honduras produces less innovation outputs relative to its level of innovation investments.

Innovation input to output performance



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

The seven GII pillar scores for Honduras



Lower-middle-income group economies

Honduras performs above the lower-middle-income group average in Business sophistication.

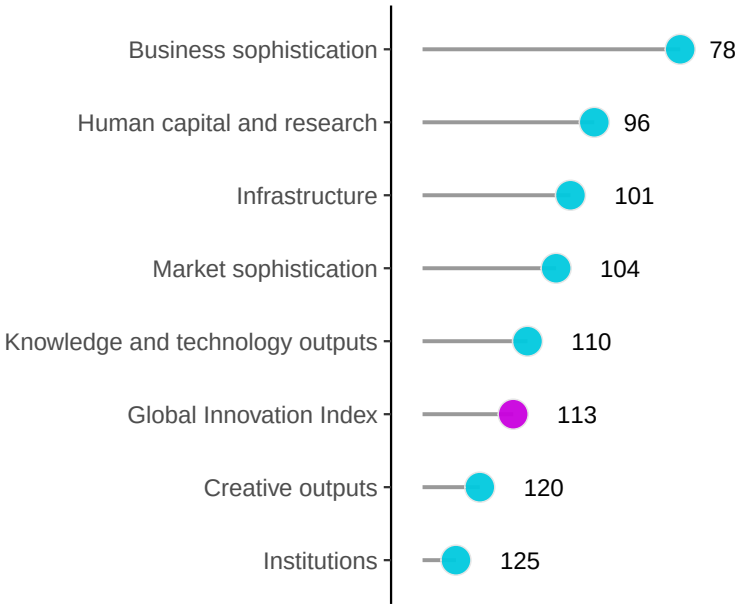
Latin America and the Caribbean

Honduras performs below the regional average in all GII pillars.

OVERVIEW OF RANKINGS IN THE SEVEN GII 2022 AREAS

Honduras performs best in Business sophistication and its weakest performance is in Institutions.

The seven GII pillar ranks for Honduras



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

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

https://www.wipo.int/ipstats/en/statistics/country_profile/profile.jsp?code=HN.

INNOVATION STRENGTHS AND WEAKNESSES

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

Strengths and weaknesses for Honduras

Strengths			Weaknesses		
Code	**Indicator name**	**Rank**	**Code**	**Indicator name**	**Rank**
2.1.1	Expenditure on education, % GDP	12	1.3.1	Policies for doing business	123
2.1.2	Government funding/pupil, secondary, % GDP/cap	55	2.3.2	Gross expenditure on R&D, % GDP	111
3.2.3	Gross capital formation, % GDP	48	2.3.3	Global corporate R&D investors, top 3, mn USD	38
4.1.2	Domestic credit to private sector, % GDP	49	2.3.4	QS university ranking, top 3	72
5.1.2	Firms offering formal training, %	22	5.2.5	Patent families/bn PPP$ GDP	101
5.3.1	Intellectual property payments, % total trade	43	6.1.1	Patents by origin/bn PPP$ GDP	131
5.3.3	ICT services imports, % total trade	38	6.1.3	Utility models by origin/bn PPP$ GDP	78
5.3.4	FDI net inflows, % GDP	30	6.1.5	Citable documents H-index	127
6.2.3	Software spending, % GDP	59	7.1.3	Global brand value, top 5,000, % GDP	77
6.3.4	ICT services exports, % total trade	68	7.1.4	Industrial designs by origin/bn PPP$ GDP	116

GII 2022 rank

Honduras

113

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP$ (bn)	GDP per capita, PPP$
116	108	Lower middle	LCN	10.1	58.3	5,767

		Score/ Value	Rank
Institutions		**37.7**	**125** ○ ◇
1.1	**Political environment**	47.5	102
1.1.1	Political and operational stability*	58.2	103
1.1.2	Government effectiveness*	36.9	105
1.2	**Regulatory environment**	41.3	121
1.2.1	Regulatory quality*	32.6	100
1.2.2	Rule of law*	21.2	118
1.2.3	Cost of redundancy dismissal	30.3	120
1.3	**Business environment**	24.2	[120]
1.3.1	Policies for doing business†	24.2	123 ○ ◇
1.3.2	Entrepreneurship policies and culture*	n/a	n/a
Human capital and research		**20.6**	**96**
2.1	**Education**	48.9	69
2.1.1	Expenditure on education, % GDP	6.4	12 ● ◆
2.1.2	Government funding/pupil, secondary, % GDP/cap	20.3	55 ●
2.1.3	School life expectancy, years	9.7	105 ◇
2.1.4	PISA scales in reading, maths and science	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	14.6	70
2.2	**Tertiary education**	12.7	105
2.2.1	Tertiary enrolment, % gross	25.5	90
2.2.2	Graduates in science and engineering, %	15.7	91
2.2.3	Tertiary inbound mobility, %	0.8	92
2.3	**Research and development (R&D)**	0.1	115
2.3.1	Researchers, FTE/mn pop.	34.7	99
2.3.2	Gross expenditure on R&D, % GDP	0.0	111 ○
2.3.3	Global corporate R&D investors, top 3, mn USD	0.0	38 ○ ◇
2.3.4	QS university ranking, top 3*	0.0	72 ○ ◇
Infrastructure		**31.4**	**101**
3.1	**Information and communication technologies (ICTs)**	50.8	102
3.1.1	ICT access*	65.3	104
3.1.2	ICT use*	42.4	100
3.1.3	Government's online service*	46.5	110
3.1.4	E-participation*	48.8	105
3.2	**General infrastructure**	22.2	94
3.2.1	Electricity output, GWh/mn pop.	1,080.0	94
3.2.2	Logistics performance*	25.6	88
3.2.3	Gross capital formation, % GDP	25.6	48 ●
3.3	**Ecological sustainability**	21.1	89
3.3.1	GDP/unit of energy use	8.9	82
3.3.2	Environmental performance*	36.5	86
3.3.3	ISO 14001 environmental certificates/bn PPP$ GDP	0.8	73
Market sophistication		**23.0**	**104**
4.1	**Credit**	25.4	[70]
4.1.1	Finance for startups and scaleups*	n/a	n/a
4.1.2	Domestic credit to private sector, % GDP	69.8	49 ●
4.1.3	Loans from microfinance institutions, % GDP	n/a	n/a
4.2	**Investment**	3.7	90
4.2.1	Market capitalization, % GDP	n/a	n/a
4.2.2	Venture capital investors, deals/bn PPP$ GDP	0.0	57
4.2.3	Venture capital recipients, deals/bn PPP$ GDP	0.0	69
4.2.4	Venture capital received, value, % GDP	0.0	78
4.3	**Trade, diversification, and market scale**	39.8	99
4.3.1	Applied tariff rate, weighted avg., %	3.3	76
4.3.2	Domestic industry diversification	n/a	n/a
4.3.3	Domestic market scale, bn PPP$	58.3	100

		Score/ Value	Rank
Business sophistication		**24.9**	**78**
5.1	**Knowledge workers**	25.5	77
5.1.1	Knowledge-intensive employment, %	12.3	101
5.1.2	Firms offering formal training, %	47.7	22 ● ◆
5.1.3	GERD performed by business, % GDP	n/a	n/a
5.1.4	GERD financed by business, %	10.4	75
5.1.5	Females employed w/advanced degrees, %	4.8	93
5.2	**Innovation linkages**	16.0	118
5.2.1	University-industry R&D collaboration†	32.1	111
5.2.2	State of cluster development and depth†	42.4	93
5.2.3	GERD financed by abroad, % GDP	0.0	91
5.2.4	Joint venture/strategic alliance deals/bn PPP$ GDP	0.0	81
5.2.5	Patent families/bn PPP$ GDP	0.0	101 ○ ◇
5.3	**Knowledge absorption**	33.2	55 ● ◆
5.3.1	Intellectual property payments, % total trade	1.0	43 ● ◆
5.3.2	High-tech imports, % total trade	7.7	79
5.3.3	ICT services imports, % total trade	2.0	38 ● ◆
5.3.4	FDI net inflows, % GDP	3.6	30 ●
5.3.5	Research talent, % in businesses	n/a	n/a
Knowledge and technology outputs		**10.1**	**110**
6.1	**Knowledge creation**	1.0	129 ○
6.1.1	Patents by origin/bn PPP$ GDP	0.0	131 ○ ◇
6.1.2	PCT patents by origin/bn PPP$ GDP	0.0	92
6.1.3	Utility models by origin/bn PPP$ GDP	0.0	78 ○ ◇
6.1.4	Scientific and technical articles/bn PPP$ GDP	2.7	120
6.1.5	Citable documents H-index	1.6	127 ○
6.2	**Knowledge impact**	14.3	[109]
6.2.1	Labor productivity growth, %	n/a	n/a
6.2.2	New businesses/th pop. 15–64	n/a	n/a
6.2.3	Software spending, % GDP	0.2	59 ●
6.2.4	ISO 9001 quality certificates/bn PPP$ GDP	3.1	74
6.2.5	High-tech manufacturing, %	n/a	n/a
6.3	**Knowledge diffusion**	14.9	89
6.3.1	Intellectual property receipts, % total trade	n/a	n/a
6.3.2	Production and export complexity	28.2	88
6.3.3	High-tech exports, % total trade	0.1	115
6.3.4	ICT services exports, % total trade	1.9	68 ●
Creative outputs		**4.0**	**120** ◇
7.1	**Intangible assets**	7.6	106
7.1.1	Intangible asset intensity, top 15, %	n/a	n/a
7.1.2	Trademarks by origin/bn PPP$ GDP	32.1	70
7.1.3	Global brand value, top 5,000, % GDP	0.0	77 ○ ◇
7.1.4	Industrial designs by origin/bn PPP$ GDP	0.1	116 ○
7.2	**Creative goods and services**	0.3	[128]
7.2.1	Cultural and creative services exports, % total trade	0.0	99
7.2.2	National feature films/mn pop. 15–69	n/a	n/a
7.2.3	Entertainment and media market/th pop. 15–69	n/a	n/a
7.2.4	Printing and other media, % manufacturing	n/a	n/a
7.2.5	Creative goods exports, % total trade	0.0	116
7.3	**Online creativity**	0.6	108
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69	0.6	102
7.3.2	Country-code TLDs/th pop. 15–69	0.3	102
7.3.3	GitHub commit pushes received/mn pop. 15–69	1.2	98
7.3.4	Mobile app creation/bn PPP$ GDP	0.1	97

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.

DATA AVAILABILITY

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

Missing data for Honduras

Code	Indicator name	Economy year	Model year	Source
1.3.2	Entrepreneurship policies and culture	n/a	2021	Global Entrepreneurship Monitor
2.1.4	PISA scales in reading, maths and science	n/a	2018	OECD, PISA
4.1.1	Finance for startups and scaleups	n/a	2021	Global Entrepreneurship Monitor
4.1.3	Loans from microfinance institutions, % GDP	n/a	2020	International Monetary Fund, Financial Access Survey (FAS)
4.2.1	Market capitalization, % GDP	n/a	2020	World Federation of Exchanges
4.3.2	Domestic industry diversification	n/a	2019	United Nations Industrial Development Organization
5.1.3	GERD performed by business, % GDP	n/a	2020	UNESCO Institute for Statistics
5.3.5	Research talent, % in businesses	n/a	2020	UNESCO Institute for Statistics
6.2.1	Labor productivity growth, %	n/a	2021	The Conference Board
6.2.2	New businesses/th pop. 15–64	n/a	2020	World Bank, Enterpreneurship Database
6.2.5	High-tech manufacturing, %	n/a	2019	United Nations Industrial Development Organization
6.3.1	Intellectual property receipts, % total trade	n/a	2020	World Trade Organization and United Nations Conference on Trade and Development
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

Outdated data for Honduras

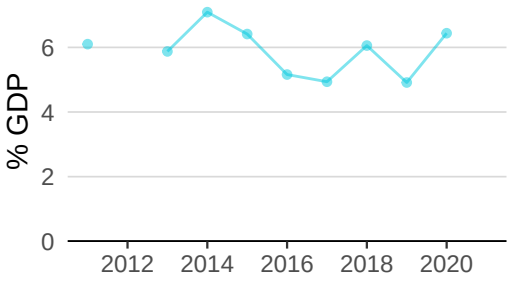
Code	Indicator name	Economy year	Model year	Source
2.1.2	Government funding/pupil, secondary, % GDP/cap	2013	2018	UNESCO Institute for Statistics
2.1.3	School life expectancy, years	2014	2019	UNESCO Institute for Statistics
2.2.2	Graduates in science and engineering, %	2019	2020	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	2017	2020	UNESCO Institute for Statistics
2.3.2	Gross expenditure on R&D, % GDP	2017	2020	UNESCO Institute for Statistics

Code	Indicator name	Economy year	Model year	Source
3.2.1	Electricity output, GWh/mn pop.	2019	2020	International Energy Agency
4.2.3	Venture capital recipients, deals/bn PPP$ GDP	2020	2021	Refinitiv
4.2.4	Venture capital received, value, % GDP	2020	2021	Refinitiv
5.1.1	Knowledge-intensive employment, %	2020	2021	International Labour Organization
5.1.2	Firms offering formal training, %	2016	2019	World Bank Enterprise Surveys
5.1.4	GERD financed by business, %	2017	2019	UNESCO Institute for Statistics
5.1.5	Females employed w/advanced degrees, %	2019	2021	International Labour Organization
5.2.3	GERD financed by abroad, % GDP	2017	2019	UNESCO Institute for Statistics
5.3.2	High-tech imports, % total trade	2019	2020	United Nations Comtrade Database
6.1.1	Patents by origin/bn PPP$ GDP	2019	2020	World Intellectual Property Organization
6.1.3	Utility models by origin/bn PPP$ GDP	2019	2020	World Intellectual Property Organization
6.3.3	High-tech exports, % total trade	2019	2020	United Nations Comtrade Database
7.1.4	Industrial designs by origin/bn PPP$ GDP	2018	2020	World Intellectual Property Organization
7.2.1	Cultural and creative services exports, % total trade	2018	2020	World Trade Organization and United Nations Conference on Trade and Development
7.2.5	Creative goods exports, % total trade	2019	2020	United Nations Comtrade Database

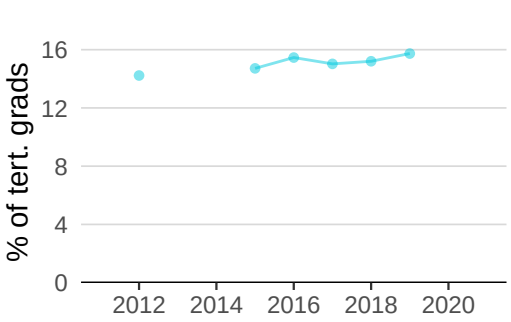
HONDURAS'S INNOVATION SYSTEM

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

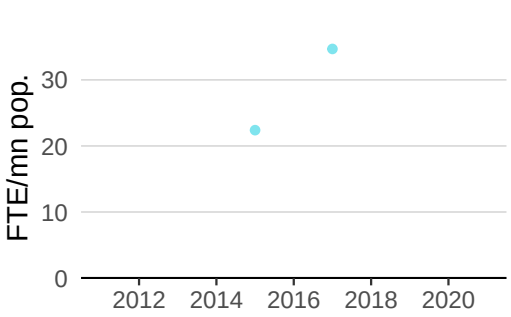
Innovation inputs



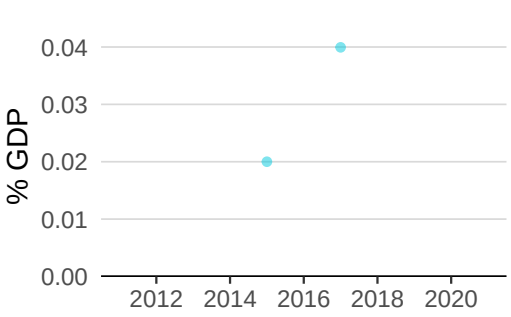
2.1.1 Expenditure on education was equal to 6.4% GDP in 2020–up by 31 percentage points from the year prior–and equivalent to an indicator rank of 12.



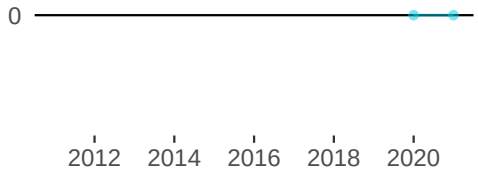
2.2.2 Graduates in science and engineering was equal to 15.7% of tert. grads in 2019–up by 3 percentage points from the year prior–and equivalent to an indicator rank of 91.



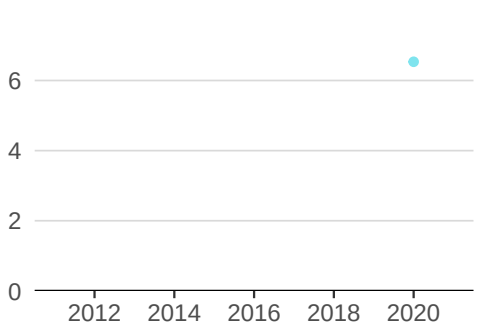
2.3.1 Researchers was equal to 34.7 FTE/mn pop. in 2017 and equivalent to an indicator rank of 99.



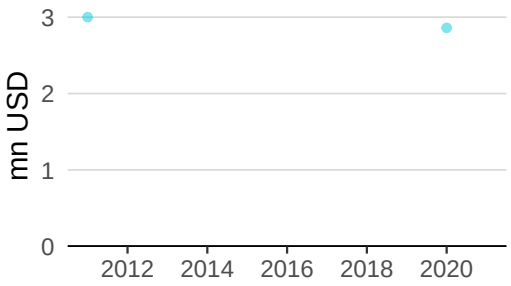
2.3.2 Gross expenditure on R&D was equal to 0.0% GDP in 2017 and equivalent to an indicator rank of 111.



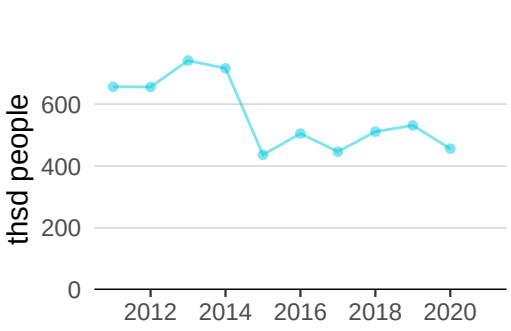
2.3.4 QS university ranking was equal to 0.0 in 2021–effectively unchanged from the year prior–and equivalent to an indicator rank of 72.



3.1.1 ICT access was equal to 6.5 in 2020 and equivalent to an indicator rank of 104.

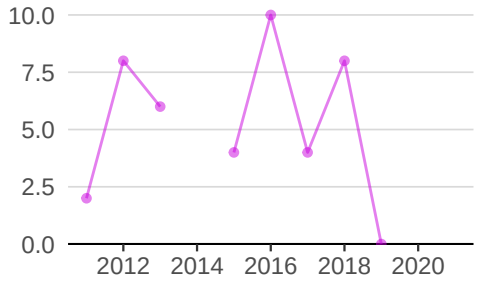


4.2.4 Venture capital received was equal to 2.9 mn USD in 2020 and equivalent to an indicator rank of 78.

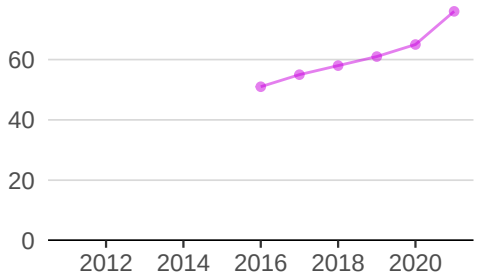


5.1.1 Knowledge-intensive employment was equal to 455.9 thsd people in 2020–down by 14 percentage points from the year prior–and equivalent to an indicator rank of 101.

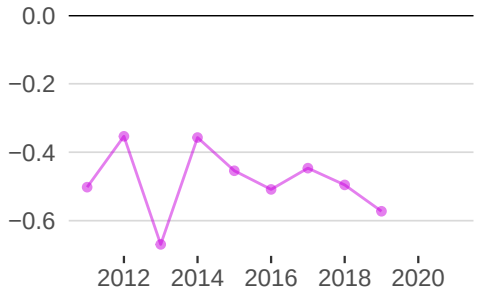
Innovation outputs



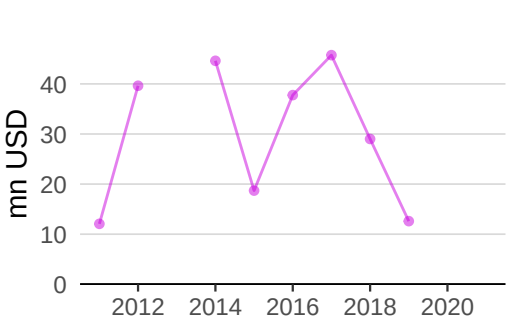
6.1.1 Patents by origin was equal to 0.0 in 2019–down by 100 percentage points from the year prior–and equivalent to an indicator rank of 131.



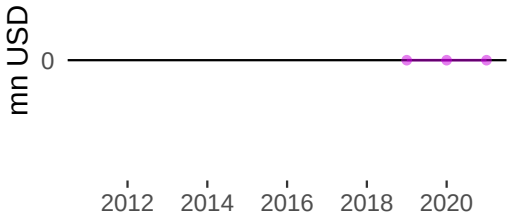
6.1.5 Citable documents H-index was equal to 76.0 in 2021–up by 17 percentage points from the year prior–and equivalent to an indicator rank of 127.



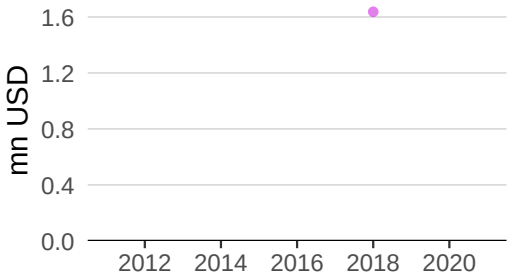
6.3.2 Production and export complexity was equal to -0.6 in 2019–down by 16 percentage points from the year prior–and equivalent to an indicator rank of 88.



6.3.3 High-tech exports was equal to 12.6 mn USD in 2019–down by 57 percentage points from the year prior–and equivalent to an indicator rank of 115.



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 1.6 mn USD in 2018 and equivalent to an indicator rank of 99.

HONDURAS'S INNOVATION TOP PERFORMERS

2.3.3 Global corporate R&D investors

Firm	Industry	R&D	R&D Growth	R&D Intensity	Rank

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

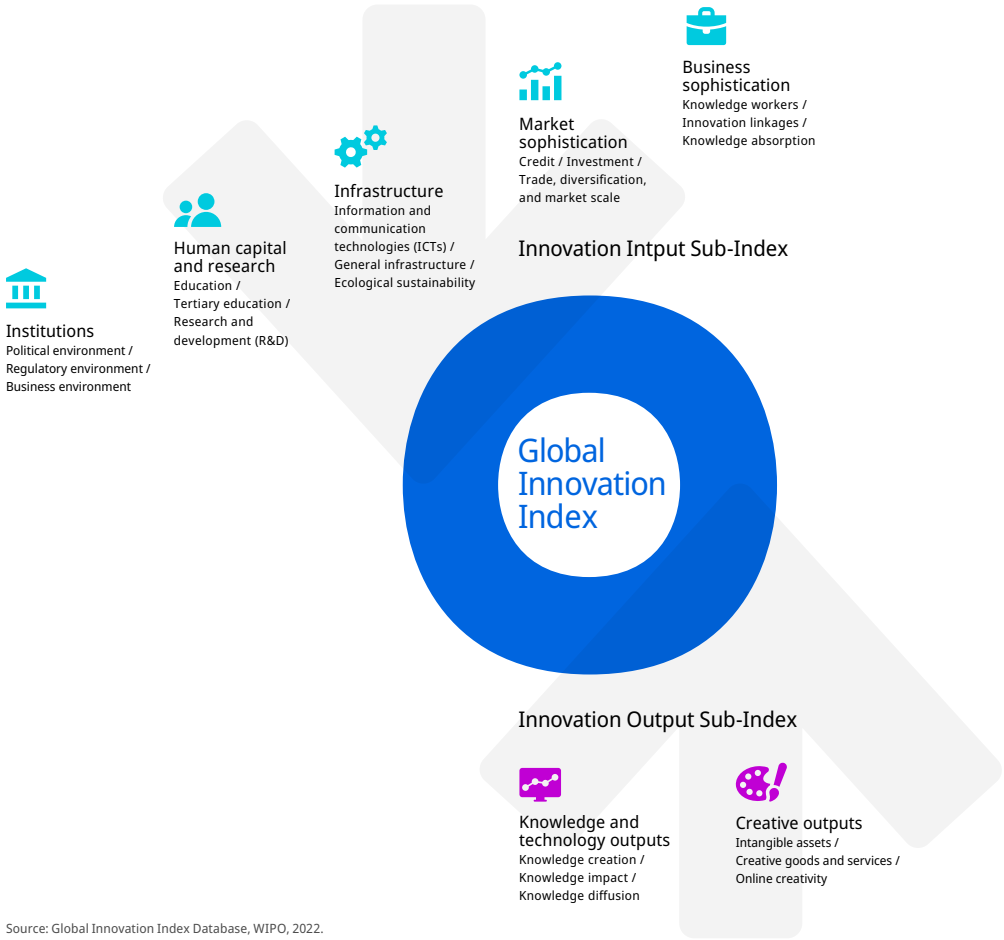
No observations

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.



Source: Global Innovation Index Database, WIPO, 2022.

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.