



MEXICO

55th

Mexico ranks 55th 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 Mexico 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 Mexico in the GII 2021 is between ranks 51 and 56.

Rankings for Mexico (2019–2021)

	GII	Innovation inputs	Innovation outputs
2021	55	62	51
2020	55	61	57
2019	56	59	55

- Mexico performs better in innovation outputs than innovation inputs in 2021.
- This year Mexico ranks 62nd in innovation inputs, lower than both 2020 and 2019.
- As for innovation outputs, Mexico ranks 51st. This position is higher than both 2020 and 2019.

9th

Mexico ranks 9th among the 34 upper middle-income group economies.

2nd

Mexico ranks 2nd among the 18 economies in Latin America and the Caribbean.

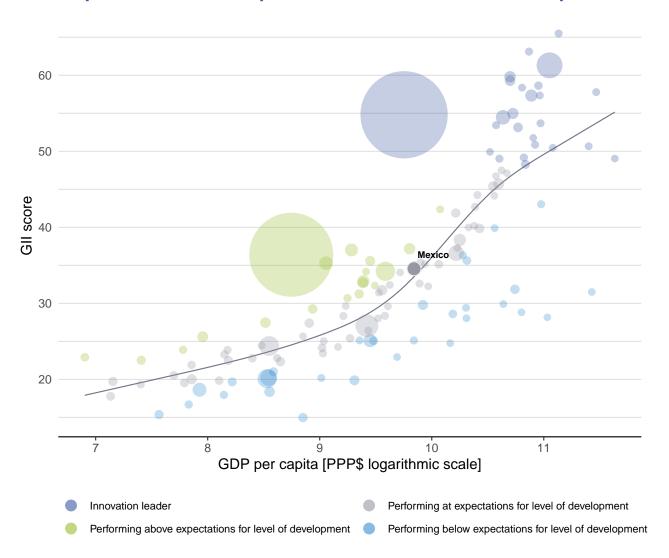


EXPECTED VS. OBSERVED INNOVATION PERFORMANCE

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, Mexico's performance is at expectations for its level of development.

The positive relationship between innovation and development



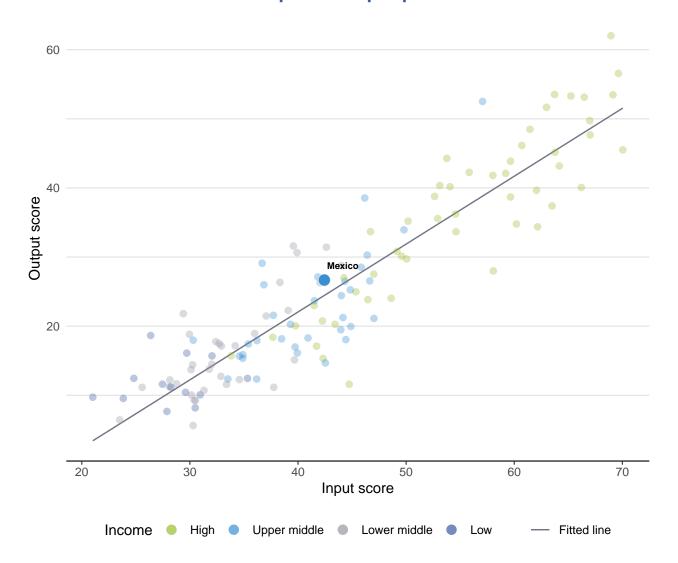


EFFECTIVELY TRANSLATING INNOVATION INVESTMENTS INTO INNOVATION OUTPUTS

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.

Mexico produces more innovation outputs relative to its level of innovation investments.

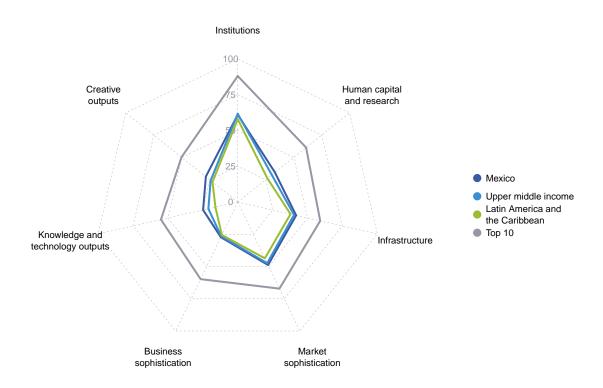
Innovation input to output performance





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

The seven GII pillar scores for Mexico



Upper middle-income group economies

Mexico performs above the upper middle-income group average in six pillars, namely: Human capital and research; Infrastructure; Market sophistication; Business sophistication; Knowledge and technology outputs; and, Creative outputs.

Latin America and the Caribbean

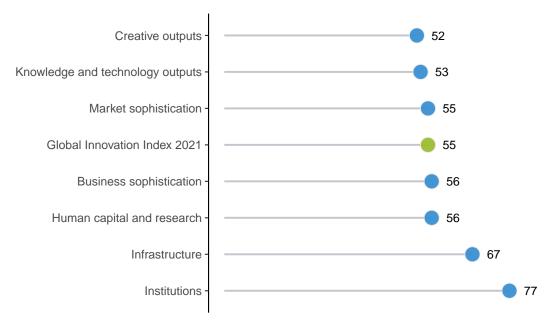
Mexico performs above the regional average in all GII pillars.





Mexico performs best in Creative outputs and its weakest performance is in Institutions.

The seven GII pillar ranks for Mexico



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





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

Strengths and weaknesses for Mexico

Strengths				Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank		
2.3.4	QS university ranking, top 3	27	1.1.1	Political and operational stability	112		
4.1.1	Ease of getting credit	10	2.2.3	Tertiary inbound mobility, %	107		
4.3	Trade, diversification, and market scale	14	4.2	Investment	118		
4.3.1	Applied tariff rate, weighted avg., %	15	4.2.3	Venture capital investors, deals/bn PPP\$ GDP	80		
4.3.3	Domestic market scale, bn PPP\$	11	5.2.3	GERD financed by abroad, % GDP	91		
5.1.2	Firms offering formal training, %	17	5.3.3	ICT services imports, % total trade	130		
5.3.2	High-tech imports, % total trade	9	6.2.1	Labor productivity growth, %	110		
6.2.5	High-tech manufacturing, %	12	6.3.1	Intellectual property receipts, % total trade	107		
6.3.2	Production and export complexity	19	6.3.4	ICT services exports, % total trade	131		
6.3.3	High-tech exports, % total trade	8	7.2.1	Cultural and creative services exports, % total trade	111		
7.2	Creative goods and services	16	7.2.4	Printing and other media, % manufacturing	93		
7.2.5	Creative goods exports, % total trade	1					

GII 2021 rank

55

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$ (bn)	GDP per capita, PPP\$	GII 2020 rank
51	62	Upper middle	LCN	128.9	2,424.5	18,804	55

Mexico

	Score/ Sco						
a	Institutions	Value 61.0	Rank 77	•	Business sophistication	Value 27.2	Rank 56
1.1 1.1.1	Political environment	49.9 55.4 47.2	90 112 🔾 🔷 84	5.1 5.1.1	Knowledge workers Knowledge-intensive employment, % Firms offering formal training, %	28.7 20.2	76 79 17 ●
1.2 1.2.1	Regulatory environment Regulatory quality* Rule of law*	55.0 46.2 29.4	94 65	5.1.3 5.1.4	GERD performed by business, % GDP GERD financed by business, % Females employed w/advanced degrees, %	0.1 18.2 9.8	68 68 71
1.3	Cost of redundancy dismissal Business environment Ease of starting a business*	22.0 78.2 86.1	96 37 83	5.2.2	Innovation linkages University-industry R&D collaboration† State of cluster development and depth†	17.5 38.7 55.0	90 84 36
1.3.2	Ease of resolving insolvency* Human capital and research	70.3	31 ♦	5.2.4 5.2.5	GERD financed by abroad, % GDP Joint venture/strategic alliance deals/bn PPP\$ GDP Patent families/bn PPP\$ GDP	0.0 0.0 0.0	91 () 99 64
2.1 2.1.1	Education	43.6 4.5	82 57		Knowledge absorption Intellectual property payments, % total trade High-tech imports, % total trade	35.5 0.1 18.2	40 110 ◊ 9 • •
2.1.2 2.1.3	Government funding/pupil, secondary, % GDP/cap School life expectancy, years PISA scales in reading, maths and science		81 54 57	5.3.4	ICT services imports, % total trade FDI net inflows, % GDP Research talent, % in businesses	0.0 2.7 43.7	130 ○ ♢ 61 30
2.1.5 2.2	Pupil-teacher ratio, secondary Tertiary education	2 17.030.4	83 74		Knowledge and technology outputs	24.8	53
2.2.2	Tertiary enrolment, % gross Graduates in science and engineering, % Tertiary inbound mobility, %	41.5 26.0 0.2	71 34 107 🔾 💠	6.1 6.1.1	Knowledge creation Patents by origin/bn PPP\$ GDP PCT patents by origin/bn PPP\$ GDP	11.3 0.5 0.1	74 80 68
	Research and development (R&D) Researchers, FTE/mn pop. Gross expenditure on R&D, % GDP	25.6 327.2 0.3	41 76 81	6.1.3 6.1.4	Utility models by origin/bn PPP\$ GDP	0.2 7.8 29.1	47 96 34 ◆
	Global corporate R&D investors, top 3, mn US\$ QS university ranking, top 3*	49.9 43.2	31 ◆ 27 • ◆	6.2 6.2.1	Knowledge impact Labor productivity growth, %	29.6 –2.7	64 110 ()
₽.	Infrastructure	41.8	67	6.2.3	New businesses/th pop. 15–64 Software spending, % GDP ISO 9001 quality certificates/bn PPP\$ GDP	1.0 0.2 3.0	84 65 75
	Information and communication technologies (ICTs) ICT access* ICT use*	70.0 58.4 57.2	58 79 68	6.3	High-tech manufacturing, % Knowledge diffusion	48.9 33.5	12 ● ◆ 28 ◆
	Government's online service* E-participation* General infrastructure	82.3 82.1 24.9	38 41 84	6.3.2 6.3.3	Intellectual property receipts, % total trade Production and export complexity High-tech exports, % total trade	0.0 73.7 15.3	19 ● ♦ 8 ● ♦
3.2.1 3.2.2	Electricity output, GWh/mn pop. Logistics performance* Gross capital formation, % GDP	2,693.7 46.6 19.3	70 50 92		Creative outputs	28.5	131 $\bigcirc \diamondsuit$
3.3	Ecological sustainability GDP/unit of energy use	30.6 13.0	56 39	7.1 7.1.1	Intangible assets Trademarks by origin/bn PPP\$ GDP	32.8 43.0	56 54
	Environmental performance* ISO 14001 environmental certificates/bn PPP\$ GDP	52.6 0.7	49 75		Global brand value, top 5,000, % GDP Industrial designs by origin/Dn PPP\$ GDP ICTs and organizational model creation†	63.9 0.5 57.9	30 86 53
iii	Market sophistication	48.8		7.2	Creative goods and services Cultural and creative services exports, % total trade	36.9 0.0	16 ● ♦
	Credit Ease of getting credit* Domestic credit to private sector, % GDP Microfinance gross loans, % GDP	42.2 90.0 36.6 0.2	59 10 ● ◆ 86 45	7.2.2 7.2.3 7.2.4	National feature films/mn pop. 15–69 Entertainment and media market/th pop. 15–69 Printing and other media, % manufacturing Creative goods exports, % total trade	2.1 8.5 0.4 10.4	65 38 93 ○ ◇ 1 ● ◆
4.2.3	Market capitalization, % GDP Venture capital investors, deals/bn PPP\$ GDP	19.1 62.0 33.4 0.0	118 ○ 60 43 80 ○	7.3.2	Online creativity Generic top-level domains (TLDs)/th pop. 15–69 Country-code TLDs/th pop. 15–69 Wikipedia edits/mn pop. 15–69	11.6 2.6 4.1 39.7	86 70 57 84
4.3 4.3.1	Venture capital recipients, deals/bn PPP\$ GDP Trade, diversification, and market scale Applied tariff rate, weighted avg., % Domestic industry diversification	0.0 85.1 ② 1.2 88.9	79 14 • ◆ 15 •	7.3.4	Mobile app creation/bn PPP\$ GDP	1.4	73
	Domestic market scale, bn PPP\$	2,424.5	55 11 ● ◆				

NOTES: • indicates a strength; \bigcirc a weakness; • an income group strength; \bigcirc an income group weakness; * an index; † a survey question. \bigcirc 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 Mexico.

Missing data for Mexico

Code	Indicator name	Economy	Model	Source
		year	year	

Outdated data for Mexico

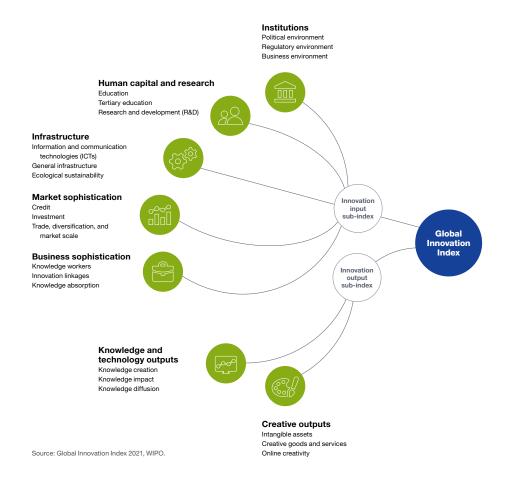
Code	Indicator name	Economy year	Model year	Source
2.1.5	Pupil-teacher ratio, secondary	2018	2019	UNESCO Institute for Statistics
4.3.1	Applied tariff rate, weighted avg., %	2018	2019	World Bank
5.1.2	Firms offering formal training, %	2010	2019	World Bank





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.