GLOBAL INNOVATION INDEX 2020



ARGENTINA

Argentina ranks 80th 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 Argentina 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 Argentina in the GII 2020 is between ranks 69 and 80.

	GII	Innovation inputs	Innovation outputs
2020	80	80	73
2019	73	72	75
2018	80	72	81

Rankings of Argentina (2018–2020)

- Argentina performs better in innovation outputs than innovation inputs in 2020.
- This year Argentina ranks 80th in innovation inputs, lower than last year and lower compared to 2018.
- As for innovation outputs, Argentina ranks 73rd. This position is higher than last year and higher compared to 2018.



Oth

Argentina ranks 25th among the 37 upper middle-income group economies.

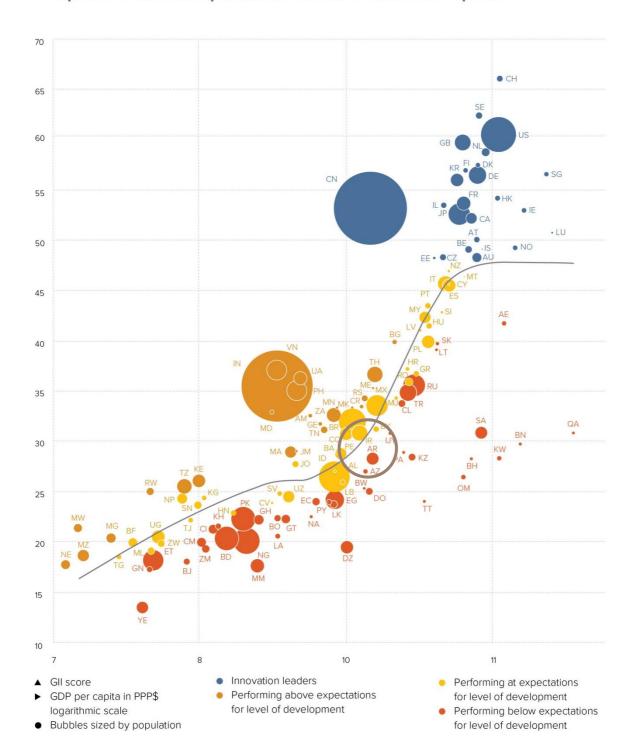
Argentina ranks 10th among the 18 economies in Latin America and the Caribbean.





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, Argentina is performing below expectations for its level of development.



The positive relationship between innovation and development



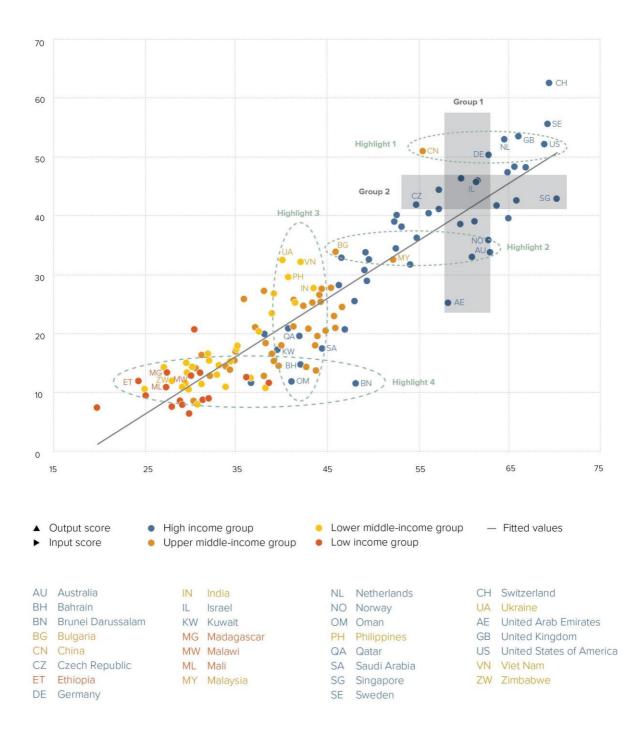


EFFECTIVELY TRANSLATING INNOVATION INVESTMENTS INTO INNOVATION OUTPUTS

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.

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

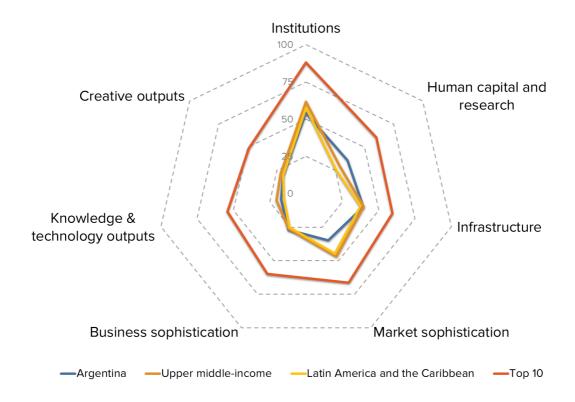
Innovation input to output performance, 2020





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

Argentina's scores in the seven GII pillars



Upper middle-income group economies

Argentina has high scores in two out of the seven GII pillars: Human capital & research and Business sophistication, which are above average for the upper middle-income group.

Conversely, Argentina scores below average for its income group in five pillars: Institutions, Infrastructure, Market sophistication, Knowledge & technology outputs and Creative outputs.

Latin America and the Caribbean

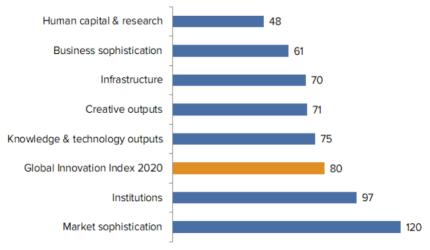
Compared to other economies in Latin America and the Caribbean, Argentina performs:

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



OVERVIEW OF ARGENTINA RANKINGS IN THE SEVEN GII AREAS

Argentina performs best in Human capital & research and its weakest performance is in Market sophistication.



*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 Argentina in the GII 2020.

Strengths			Weaknesses				
Code	Indicator name	Rank	Code	Indicator name	Rank		
2.1.1	Expenditure on education, % GDP	24	1.2.3	Cost of redundancy dismissal, salary weeks	118		
2.1.3	School life expectancy, years	13	2.1.4	PISA scales in reading, maths & science	69		
2.2.1	Tertiary enrolment, % gross	4	2.2.2	Graduates in science & engineering, %	98		
2.3.3	Global R&D companies, top 3, mn US\$	34	3.2.3	Gross capital formation, % GDP	108		
2.3.4	QS university ranking, average score top 3*	30	4	Market sophistication	120		
4.3.3	Domestic market scale, bn PPP\$	28	4.1	Credit	121		
5.3.1	Intellectual property payments, % total trade	8	4.1.2	Domestic credit to private sector, % GDP	116		
7.1.1	Trademarks by origin/bn PPP\$ GDP	34	4.1.3	Microfinance gross loans, % GDP	75		
7.2.1	Cultural & creative services exports, % total trade	24	4.2	Investment	123		
7.2.2	National feature films/mn pop. 15–69	26	4.2.2	Market capitalization, % GDP	66		
			4.3.2	Intensity of local competition ⁺	122		
			6.2.1	Growth rate of PPP\$ GDP/worker, %	113		

6.2.2

New businesses/th pop. 15–64

111





STRENGTHS

GII strengths for Argentina are found in four of the seven GII pillars.

- Human capital & research (48): shows strengths in the indicators Expenditure on education (24), School life expectancy (13), Tertiary enrolment (4), Global R&D companies (34) and QS university ranking (30).
- Market sophistication (120): the indicator Domestic market scale (28) displays a strength.
- Business sophistication (61): the indicator Intellectual property payments (8) reveals a strength.
- Creative outputs (71): demonstrates strengths in the indicators Trademarks by origin (34), Cultural & creative services exports (24) and National feature films (26).

WEAKNESSES

GII weaknesses for Argentina are found in five of the seven GII pillars.

- Institutions (97): exhibits weakness in the indicator Cost of redundancy dismissal (118).
- Human capital & research (48): displays weaknesses in the indicators PISA scales in reading, maths & science (69) and Graduates in science & engineering (98).
- Infrastructure (70): the indicator Gross capital formation (108) reveals a weakness.
- Market sophistication (120): shows weaknesses in the sub-pillars Credit (121) and Investment (123) and in the indicators Domestic credit to private sector (116), Microfinance gross loans (75), Market capitalization (66) and Intensity of local competition (122).
- Knowledge & technology outputs (75): displays weaknesses in the indicators Growth rate of PPP (113) and New businesses (111).

ARGENTINA

GII 2020 rank



Output rank Input rank Income		Regior	Region Po		oulation (mn) GDP, PPP\$	GDP per capita, PPP\$	GII 2019 rank			
	73	80	Upper middle	LCN			44.8	903.5	17,508.9	73	
				Score/Value	Rank				Sc	ore/Value	Rank
	INSTITU	JTIONS		54.3	97		٨	BUSINESS SOPHIS	TICATION	26.9	61
.1	Political	environment		55.8	71		5.1	Knowledge workers		28.7	70
1.1			stability*		76		5.1.1		employment, %	24.1	62
1.2	Governm	ent effectivene	ss*	50.7	69		5.1.2	Firms offering formal tr	aining, %	40.2	28
							5.1.3		usiness, % GDP	0.1	55
2	-		nt		110	\diamond	5.1.4	A CONTRACTOR OF A CONTRACTOR O	iness, %	16.5	71
2.1					92		5.1.5	Females employed w/a	advanced degrees, %	14.7	46
2.2			nissal, salary weeks		76	00	5.2	Innovation linkages		16.0	103
2.5	COSLOTIE	edundancy disi	nissai, salary weeks	50.5	no	0 •	5.2.1		earch collaboration+	37.4	86
3	Business	environment.		60.2	106		5.2.2		pment+	40.8	93
3.1	Ease of s	tarting a busine	ss*	80.4	109		5.2.3	GERD financed by abr	oad, % GDP	0.0	51
3.2	Ease of re	esolving insolve	ency*	40.0	97		5.2.4		eals/bn PPP\$ GDP	0.0	91
		No. 1					5.2.5	Patent families 2+ offic	ces/bn PPP\$ GDP	0.1	67
-	HUMAN	CAPITAL &	RESEARCH	35.9	48		5.3		n	36.0	38
							5.3.1		ayments, % total trade	2.7	8
1			- « CDD ®		65		5.3.2 5.3.3		otal trade	9.1	43
1.1 1.2			on, % GDP , secondary, % GDP/cap		24 47	•	5.3.3		6 total trade	1.5 1.6	42 98
1.2		011	, secondary, % GDP/cap /ears				5.3.4		ousiness enterprise.	8.3	98 64
1.4			naths, & science		69		0.0.0	Resource talency /o III b	Conception enterprisement	0.0	04
1.5			ndary		n/a	- *	1000			47.0	a second
2	Tertiany	education		33.1	65			KNOWLEDGE & TEC	HNOLOGY OUTPUTS	17.2	75
2.1			OSS		4		6.1	Knowledge creation		12.9	68
2.2			engineering, %.@		98	00	6.1.1		PP\$ GDP	0.5	83
2.3	Tertiary ir	nbound mobility	1, %	2.8	67		6.1.2	PCT patents by origin/	bn PPP\$ GDP	n/a	n/a
							6.1.3		/bn PPP\$ GDP	0.2	51
.3			nt (R&D)		39	+	6.1.4		rticles/bn PPP\$ GDP	7.1	68
.3.1					50		6.1.5	Citable documents H-i	ndex	27.2	36
.3.2 .3.3			&D, % GDP /g. exp. top 3, mn \$US		62 34		6.2	Knowledge impact		13.6	108
.3.3 .3.4			verage score top 3*		30		6.2.1		DP/worker, %	-1.9	113
.0.1	Go unive	rang, a	verage score top 5	42.2	50	•••	6.2.2		p. 15-64	0.2	111
							6.2.3		ending, % GDP	0.0	78
							6.2.4		cates/bn PPP\$ GDP	6.8	40
							6.2.5	High- and medium-hig	h-tech manufacturing, %	n/a	n/a
3.1 3.1.1			ation technologies (ICT		64		63	Knowledge diffusion		25.2	62
3.1.2					59 55		6.3.1		ceipts, % total trade	0.3	32
3.1.3			vice*		57		6.3.2		% total trade	1.8	57
1.4					85		6.3.3		6 total trade	2.3	45
				THEFT			6.3.4)P	0.3	90
.2.1			ın pop		96 60						
.2.2					60			CREATIVE OUTPU	тѕ	19.6	71
.2.3	Gross ca	pital formation,	% GDP	18.5	108	0	~				
							7.1				77
.3	-		y		60		7.1.1	, ,	on PPP\$ GDP		34
.3.1			*		62		7.1.2		p 5,000, % GDP	11.7	57
.3.2 .3.3			nce* :ertificates/bn PPP\$ GDF		52 53		7.1.3 7.1.4		rigin/bn PPP\$ GDP nodel creation+	1.0 50.6	67 80
at	MARKE	T SOPHISTIC		34.6	120	00	7.2 7.2.1		ervices ces exports, % total trade	12.4 1.1	70 24
-							7.2.2		mn pop. 15-69	7.4	26
.1						0 0	7.2.3	Entertainment & Media	a market/th pop. 15-69	5.9	47
1.1			0, 055 Ø		94	0.1	7.2.4		dia, % manufacturing	n/a	n/a
1.2			te sector, % GDP			0 0	7.2.5	Creative goods export	ts, % total trade	0.1	94
1.3	wiicrotina	nce gross loan:	s, % GDP	0.0	75	0	7.3	Online creativity		17.9	60
.2	Investme	ent		22.9	123	00	7.3.1		ins (TLDs)/th pop. 15-69	3.0	62
.2.1			rity investors*		60		7.3.2		pop. 15-69	5.4	51
.2.2		•	GDP		66	0	7.3.3		p. 15-69	57.4	55
.2.3	Venture of	capital deals/br	PPP\$ GDP	0.0	68		7.3.4	Mobile app creation/b	n PPP\$ GDP	8.1	47
1.3	Trade. co	ompetition. and	d market scale	59.1	77						
.3.1			ted avg., %		100						
.3.2			ition+			00					

NOTES:
Indicates a strength;
A weakness;
Indicates a strength;
A weakness;
Indicates that the economy's data are older than the base year; see Appendix II 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 Argentina.

Missing data

Code	Indicator name	Country year	Model year	Source
2.1.5	Pupil-teacher ratio, secondary	n/a	2018	UNESCO Institute for Statistics
6.1.2	PCT patents by origin/bn PPP\$ GDP	n/a	2019	World Intellectual Property Organization
6.2.5	High- & medium-high-tech manufacturing, $\%$	n/a	2017	United Nations Industrial Development Organization
7.2.4	Printing & other media, % manufacturing	n/a	2017	United Nations Industrial Development Organization

Outdated data

Code	Indicator name	Country	Model	Source	
	indicator fiame	year	year		
2.1.1	Expenditure on education, % GDP	2017	2018	UNESCO Institute for Statistics	
2.2.2	Graduates in science & engineering, %	2011	2017	UNESCO Institute for Statistics	
2.3.1	Researchers, FTE/mn pop.	2017	2018	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators	
2.3.2	Gross expenditure on R&D, % GDP	2017	2018	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators	
4.1.2	Domestic credit to private sector, % GDP	2017	2018	International Monetary Fund	
5.1.2	Firms offering formal training, %	2016	2018	World Bank	
5.1.3	GERD performed by business, % GDP	2017	2018	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators	
5.3.5	Research talent, % in business enterprise	2017	2018	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators	
6.3.2	High-tech net exports, % total trade	2017	2018	United Nations, COMTRADE	

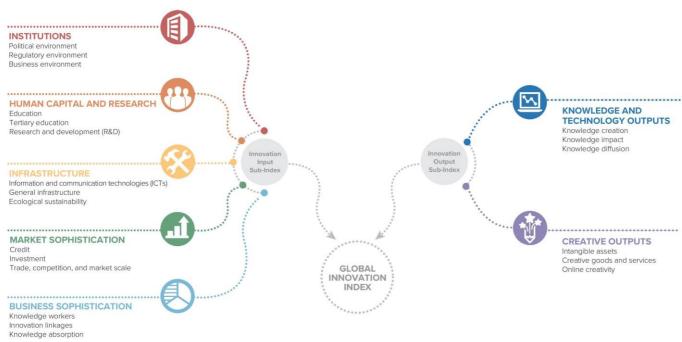


ABOUT THE GLOBAL INNOVATION INDEX

Framework of the Global Innovation Index 2020

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 13th 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.



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.





