

# **URUGUAY**

65th

Uruguay ranks 65th 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 Uruguay 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 Uruguay in the GII 2021 is between ranks 62 and 66.

## **Rankings for Uruguay (2019–2021)**

	GII	Innovation inputs	Innovation outputs
2021	65	69	63
2020	69	69	65
2019	62	66	61

- Uruguay performs better in innovation outputs than innovation inputs in 2021.
- This year Uruguay ranks 69th in innovation inputs, the same as last year but lower than 2019.
- As for innovation outputs, Uruguay ranks 63rd. This position is higher than last year but lower than 2019.

**43rd** 

Uruguay ranks 43rd among the 51 high-income group economies.

5th

Uruguay ranks 5th among the 18 economies in Latin America and the Caribbean.

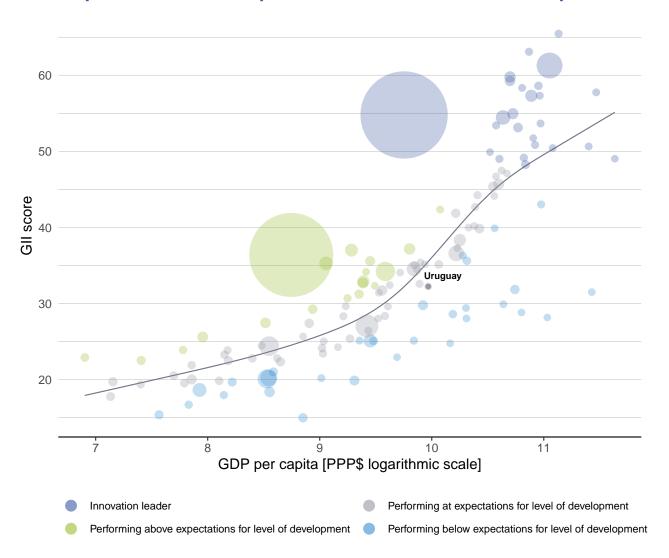




The bubble chart below shows the relationship between income levels (GDP per capita) and innovation performance (GII score). The trend line gives an indication of the expected innovation performance according to income level. Economies appearing above the trend line are performing better than expected and those below are performing below expectations.

Relative to GDP, Uruguay's performance is at expectations for its level of development.

## The positive relationship between innovation and development



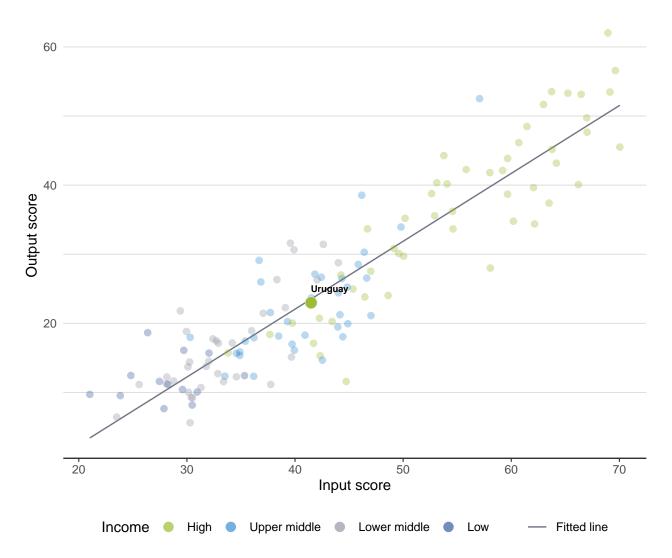




The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.

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

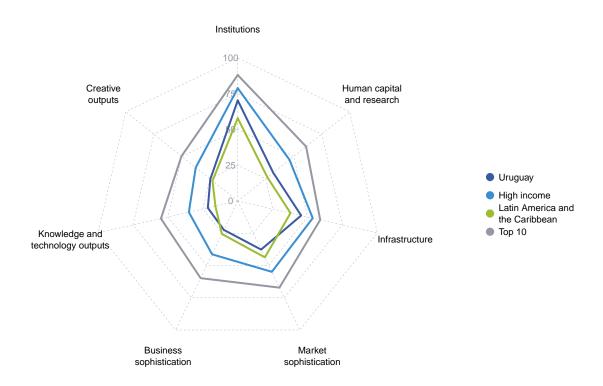
# Innovation input to output performance





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

## The seven GII pillar scores for Uruguay



### High-income group economies

Uruguay performs below the high-income group average in all GII pillars.

#### Latin America and the Caribbean

Uruguay performs above the regional average in five pillars, namely: Institutions; Human capital and research; Infrastructure; Knowledge and technology outputs; and, Creative outputs.



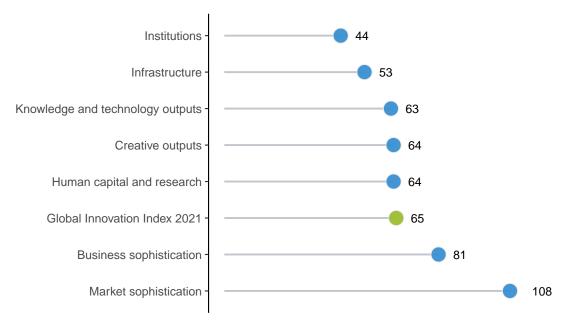




## **OVERVIEW OF RANKINGS IN THE SEVEN GII 2021 AREAS**

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

# The seven GII pillar ranks for Uruguay



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





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

# **Strengths and weaknesses for Uruguay**

Strengths				Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank		
1.1.1	Political and operational stability	13	2.2.2	Graduates in science and engineering, %	86		
2.1.3	School life expectancy, years	20	2.3.3	Global corporate R&D investors, top 3, mn US\$	41		
3.3.1	GDP/unit of energy use	25	3.2	General infrastructure	111		
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	29	3.2.3	Gross capital formation, % GDP	107		
4.2.3	Venture capital investors, deals/bn PPP\$ GDP	19	4.1	Credit	113		
5.1.2	Firms offering formal training, %	14	4.1.3	Microfinance gross loans, % GDP	68		
5.3.3	ICT services imports, % total trade	12	4.2.1	Ease of protecting minority investors	122		
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	22	4.3.2	Domestic industry diversification	89		
6.3.4	ICT services exports, % total trade	25	5.1.4	GERD financed by business, %	83		
7.2.1	Cultural and creative services exports, % total trade	20	5.3.5	Research talent, % in businesses	81		
			7.1.2	Global brand value, top 5,000, % GDP	80		
			7.2.5	Creative goods exports, % total trade	112		

## 65

GII 2020 rank

GDP per capita, PPP\$

**Uruguay** 

Output rank Input rank

•	63 69 High	LCN	3	3.5	75.3	21,338		69
		Score/ Value	Rank				Score/ Value	Rank
血	Institutions	70.3	44	<b>2</b>	Business sophistic	ation	22.4	81 ♦
1.2 1.2.1 1.2.2 1.2.3 1.3 1.3.1	Political environment Political and operational stability* Government effectiveness*  Regulatory environment Regulatory quality* Rule of law* Cost of redundancy dismissal  Business environment Ease of starting a business* Ease of resolving insolvency*	<b>72.0</b> 83.9 66.1 <b>67.3</b> 56.8 63.1 20.8 <b>71.6</b> 89.6 53.6	38 13 ● 40 60 ◇ 48 ◇ 37 89 65 56 65	5.1.3 5.1.4 5.1.5 <b>5.2</b> 5.2.1 5.2.2	Knowledge workers Knowledge-intensive em Firms offering formal trai GERD performed by busi GERD financed by busin Females employed w/ad Innovation linkages University-industry R&D State of cluster developr GERD financed by abroa	ning, %  iness, % GDP ess, % vanced degrees, %  collaboration† nent and depth†		82
1.0.2	Labo of rocolving incortaincy	00.0			Joint venture/strategic alli Patent families/bn PPP\$		0.0 0.2	88 44
2.1.3 2.1.4	Government funding/pupil, secondary, % GDP/c School life expectancy, years	31.7 52.3 5.0 ap 16.1 ② 16.8 423.5 ② 12.7	<b>59</b> 37 69 20 ● 52 55	<b>5.3</b> 5.3.1 5.3.2 5.3.3 5.3.4	Knowledge absorption Intellectual property pay High-tech imports, % tol ICT services imports, % FDI net inflows, % GDP Research talent, % in bu	ments, % total trade tal trade total trade	23.1 0.8 6.6 2.8 3.0	74
2.2	Tertiary education	33.4	65 <b>♦</b>	مهمو	Knowledge and te	chnology outputs	21.4	63
2.2.2 2.2.3 <b>2.3</b> 2.3.1 2.3.2 2.3.3	Tertiary enrolment, % gross Graduates in science and engineering, % Tertiary inbound mobility, % Research and development (R&D) Researchers, FTE/mn pop. Gross expenditure on R&D, % GDP Global corporate R&D investors, top 3, mn US\$ QS university ranking, top 3*	<ul> <li>63.1</li> <li>17.5</li> <li>n/a</li> <li>9.4</li> <li>696.4</li> <li>0.4</li> <li>0.2</li> <li>12.2</li> </ul>	45 86 0 0 n/a 61 0 58 0 71 0 41 0 0 49	6.1.3 6.1.4 6.1.5 <b>6.2</b>	Knowledge creation Patents by origin/bn PPF PCT patents by origin/br Utility models by origin/b Scientific and technical Citable documents H-inc Knowledge impact Labor productivity growl	n PPP\$ GDP on PPP\$ GDP articles/bn PPP\$ GDP dex	n/a	<b>72</b>
₽ <sup>‡</sup>	Infrastructure	45.4	53 ◊		New businesses/th pop. Software spending, % G		1.3 0.2	78 62
3.1.2 3.1.3 3.1.4 <b>3.2</b> 3.2.1	E-participation*  General infrastructure  Electricity output, GWh/mn pop.	77.7 74.4 84.1 85.7 <b>20.0</b> 4,653.2	50	6.2.4 6.2.5 <b>6.3</b> 6.3.1 6.3.2 6.3.3	ISO 9001 quality certifica High-tech manufacturing Knowledge diffusion Intellectual property rece Production and export c High-tech exports, % tot ICT services exports, %	ates/bn PPP\$ GDP g, % © sipts, % total trade omplexity tal trade	13.2 15.3 <b>20.3</b> 0.3 44.4 0.8 3.6	22 • 73
	Logistics performance* Gross capital formation, % GDP	29.6 16.3	84	<b>4</b> ,	Creative outputs		24.5	64 ♦
3.3.2	Ecological sustainability GDP/unit of energy use Environmental performance* ISO 14001 environmental certificates/bn PPP\$ GI	35.8 14.6 49.1 OP 2.9	<b>45</b> 25 ● 58 ◇ 29 ●	7.1.3	Intangible assets Trademarks by origin/bn Global brand value, top s Industrial designs by orig ICTs and organizational i	5,000, % GDP gin/bn PPP\$ GDP   ②	29.5 52.6 0.0 0.7 58.4	<b>72</b> 43 80 ○ ◇ 77 50
iii	Market sophistication	37.6	108 ○ ◊	<b>7.2</b> 7.2.1	Creative goods and ser	rvices ces exports, % total trade	<b>14.4</b> 1.3	<b>64</b> 20 ●
4.1.3	Domestic credit to private sector, % GDP Microfinance gross loans, % GDP	27.9 60.0 28.1 ② 0.0	74 100 $\diamondsuit$ 68 $\bigcirc$	7.2.2 7.2.3 7.2.4	National feature films/mr Entertainment and media Printing and other media Creative goods exports,	n pop. 15–69 ② a market/th pop. 15–69 , % manufacturing ②	4.7 n/a	46 n/a 46 112 $\bigcirc$
4.2.2 4.2.3 4.2.4 <b>4.3</b> 4.3.1 4.3.2	Investment Ease of protecting minority investors* Market capitalization, % GDP Venture capital investors, deals/bn PPP\$ GDP Venture capital recipients, deals/bn PPP\$ GDP Trade, diversification, and market scale Applied tariff rate, weighted avg., % Domestic industry diversification Domestic market scale, bn PPP\$	23.9 30.0 n/a 0.2 0.0 61.1 5.3 ② 75.1 75.3	95 122 ○ ♦ n/a 19 ● 66 91 ♦ 89 ♦ 89 ○ 90	7.3.3	Online creativity Generic top-level domain Country-code TLDs/th p Wikipedia edits/mn pop. Mobile app creation/bn f	op. 15–69 15–69	<b>24.7</b> 6.4 11.5 69.8 8.6	<b>48</b> 49 40 37 51

Region

Income

Population (mn) GDP, PPP\$ (bn)

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





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

# **Missing data for Uruguay**

Code	Indicator name	Economy year	Model year	Source
2.2.3	Tertiary inbound mobility, %	n/a	2018	UNESCO Institute for Statistics
4.2.2	Market capitalization, % GDP	n/a	2019	World Federation of Exchanges
6.1.2	PCT patents by origin/bn PPP\$ GDP	n/a	2020	World Intellectual Property Organization
7.2.3	Entertainment and media market/th pop. 15-69	n/a	2020	PwC

# **Outdated data for Uruguay**

Code	Indicator name	Economy year	Model year	Source
2.1.3	School life expectancy, years	2017	2018	UNESCO Institute for Statistics
2.1.5	Pupil-teacher ratio, secondary	2010	2019	UNESCO Institute for Statistics
2.2.1	Tertiary enrolment, % gross	2017	2018	UNESCO Institute for Statistics
2.2.2	Graduates in science and engineering, %	2017	2018	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
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	2015	2018	Microfinance Information Exchange
4.3.2	Domestic industry diversification	2016	2018	United Nations Industrial Development Organization
5.1.2	Firms offering formal training, %	2017	2019	World Bank





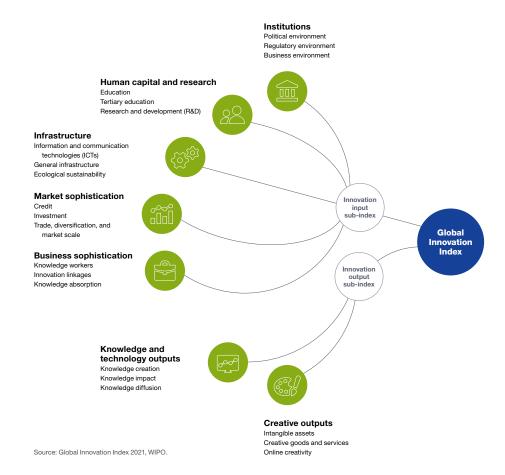
Organization





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.