



## **SLOVENIA**

**32nd** 

Slovenia ranks 32nd 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 Slovenia 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 Slovenia in the GII 2021 is between ranks 31 and 32.

#### Rankings for Slovenia (2019–2021)

	GII	Innovation inputs	Innovation outputs
2021	32	27	36
2020	32	29	39
2019	31	33	30

- Slovenia performs better in innovation inputs than innovation outputs in 2021.
- This year Slovenia ranks 27th in innovation inputs, higher than both 2020 and 2019.
- As for innovation outputs, Slovenia ranks 36th. This position is higher than last year but lower than 2019.

31st Slovenia ranks 31st among the 51 high-income group economies.

21st Slovenia ranks 21st among the 39 economies in Europe.

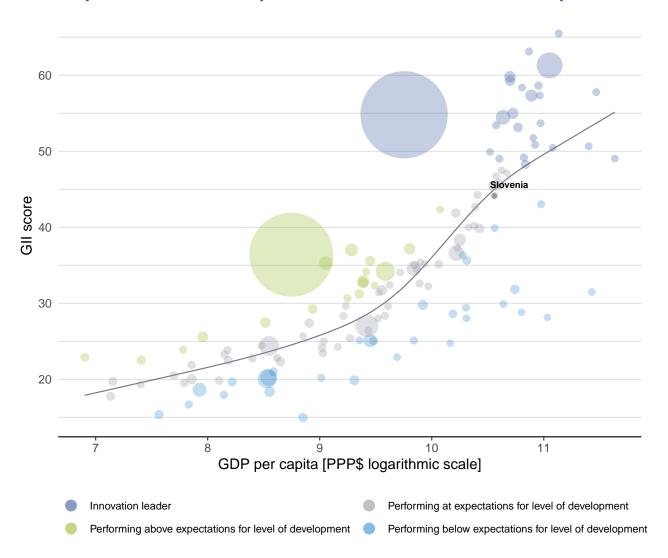




The bubble chart below shows the relationship between income levels (GDP per capita) and innovation performance (GII score). The trend line gives an indication of the expected innovation performance according to income level. Economies appearing above the trend line are performing better than expected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

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

#### The positive relationship between innovation and development



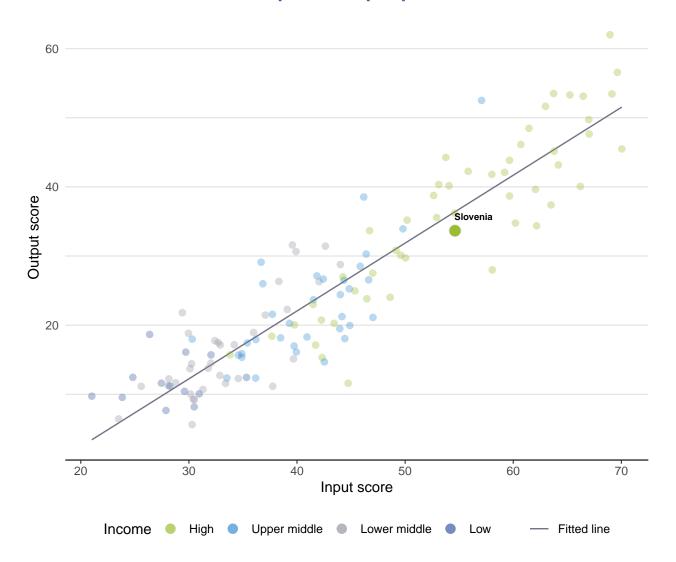




The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.

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

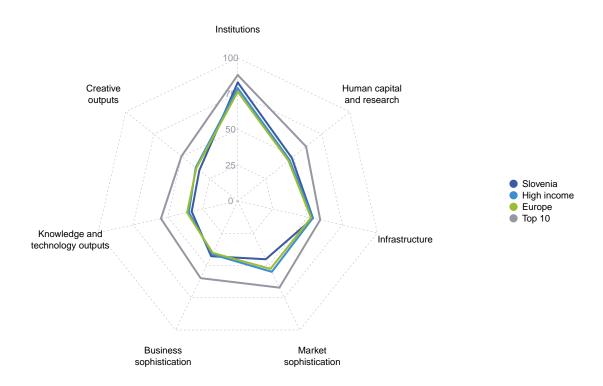
#### Innovation input to output performance





# BENCHMARKING AGAINST OTHER HIGH-INCOME GROUP ECONOMIES AND EUROPE

#### The seven GII pillar scores for Slovenia



#### High-income group economies

Slovenia performs above the high-income group average in four pillars, namely: Institutions; Human capital and research; Infrastructure; and, Business sophistication.

#### **Europe**

Slovenia performs above the regional average in four pillars, namely: Institutions; Human capital and research; Infrastructure; and, Business sophistication.



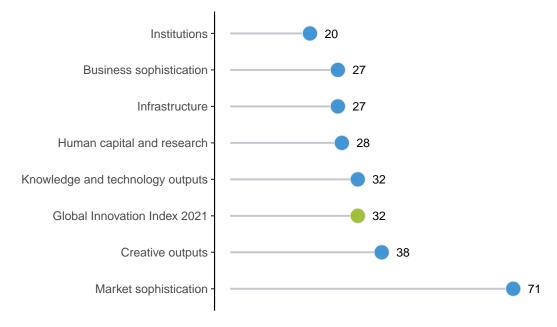




#### **OVERVIEW OF RANKINGS IN THE SEVEN GII 2021 AREAS**

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

### The seven GII pillar ranks for Slovenia



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





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

## Strengths and weaknesses for Slovenia

Strengths				Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank		
1.3	Business environment	7	4.1	Credit	102		
1.3.2	Ease of resolving insolvency	8	4.1.1	Ease of getting credit	101		
4.3.2	Domestic industry diversification	10	4.1.2	Domestic credit to private sector, % GDP	79		
5.1.4	GERD financed by business, %	11	4.2.2	Market capitalization, % GDP	65		
5.2.3	GERD financed by abroad, % GDP	12	4.3.3	Domestic market scale, bn PPP\$	88		
5.3.5	Research talent, % in businesses	11	5.2.2	State of cluster development and depth	74		
6.1.4	Scientific and technical articles/bn PPP\$	4	5.3.2	High-tech imports, % total trade	86		
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	12	6.1.3	Utility models by origin/bn PPP\$ GDP	50		
6.3.2	Production and export complexity	10	6.2.1	Labor productivity growth, %	81		
7.2.2	National feature films/mn pop. 15–69	9	6.2.3	Software spending, % GDP	89		
7.3.4	Mobile app creation/bn PPP\$ GDP	12	7.1.2	Global brand value, top 5,000, % GDP	66		

## **Slovenia**

Outpu	ıt rank	Input rank	Income	Region	Pop	ulation (n	nn) GDP, PPP\$ (bn)	GDP per capita, PPP\$	GII 20	20 rank
3	6	27	High	EUR		2.1	79.7	38,506	3	32
				Score/ Value	Donk				Score/ Value	Donk
<u></u>	Institu	tions		82.9	20	ę	Business sophis	tication	42.8	27
		environment		76.0	31	5.1	Knowledge workers		59.2	18
		and operational s	tability*	78.6	34	5.1.1	-	employment, %	43.2	22
1.1.2 (	Governm	ent effectiveness	s*	74.7	28		Firms offering formal t	<u> </u>	44.0	23
		ory environmen	t	83.9	23		GERD performed by be GERD financed by but		1.5 62.6	14 11 ●
	Regulato	ry quality* w*		69.9 76.2	33 25		Females employed w/		21.8	26
1.2.3 (	Cost of r	edundancy dismi	ssal	10.7	34	5.2	Innovation linkages		32.6	30
		s environment		88.7	7 ●		University-industry R8		49.6 45.4	40 74 O
		tarting a busines		93.0	39	E 2 1	State of cluster develors GERD financed by about		0.3	12 ●
1.3.2	Ease of r	esolving insolven	icy ·	84.4	8 •	5.2.4	Joint venture/strategic	alliance deals/bn PPP\$ GDP	0.0	49
• •	Humar	capital and	research	48.3	28		Patent families/bn PPI		1.7	23
		•	- Joseph Grand			5.3 5.3 1	Knowledge absorpti Intellectual property p		<b>36.6</b> 0.6	<b>37</b> 63
	Education Expendit	on ure on education	% GDP	<b>59.6</b> 4.8	<b>31</b> 48		P. High-tech imports, %	•	6.6	86 O
			, % GDP , secondary, % GDP/cap		29	5.3.3	ICT services imports,	% total trade	1.5	50
2.1.3	School li	fe expectancy, ye	ears	17.6	15		FDI net inflows, % GD Research talent, % in		2.8 60.7	56 11 ●
		les in reading, ma cher ratio, secon	aths and science	503.7 ② 15.1	11 72	\$	nesearch talent, 70 in	Dusinesses	00.7	""
		education	dary	44.3	23	·	Knowledge and	technology outputs	33.0	32
		enrolment, % gro	SS	77.1	24	_				
2.2.2	Graduate	s in science and	engineering, %	27.2	27	<b>6.1</b> 6.1.1	Knowledge creation Patents by origin/bn P		<b>33.9</b> 4.4	<b>29</b> 21
	•	nbound mobility,		4.5	53		PCT patents by origin,	· · · · · ·	1.1	28
		h and developm ners, FTE/mn por		<b>41.1</b> 5,052.3	<b>25</b> 17		Utility models by origin			50 🔾
		penditure on R&I		2.0	17			al articles/bn PPP\$ GDP	56.1 19.2	4 ●
2.3.3	Global c	orporate R&D inv	estors, top 3, mn US\$	51.9	27	6.1.5		index	38.5	43 <b>28</b>
2.3.4	QS unive	rsity ranking, top	3*	11.3	63	<b>6.2</b> 6.2.1	Knowledge impact Labor productivity gro	wth. %	-0.9	<b>20</b> 81 ()
tt				50.0	0=	6.2.2	New businesses/th po	р. 15–64	3.1	45
∯ <sup>‡</sup> I	Intrast	ructure		53.9	27		Software spending, % ISO 9001 quality certif		0.1 21.0	89 ○ 12 ●
			ationtechnologies(ICTs		25		High-tech manufactur		41.2	23
	CT acce CT use*	ss*		84.8 72.5	20 40	6.3	Knowledge diffusion	<del>-</del>	26.5	43
		ent's online serv	ice*	85.3	24		Intellectual property re		0.2	43
3.1.4 I	E-partici	oation*		85.7	29		Production and expor High-tech exports, %		81.3 5.4	10 <b>●</b> 33
		infrastructure		34.6	41		ICT services exports,		1.7	66
		y output, GWh/m performance*	ın pop.	7,605.7 58.9	27 34		•			
		pital formation, 9	6 GDP	21.9	70	€€,	Creative outputs		34.3	38
		al sustainability	у	45.1	24	7.1	Intangible assets		36.3	48
		of energy use	- · •	11.1	57	7.1.1	Trademarks by origin/			26
		nental performan 1 environmental c	ce" ertificates/bn PPP\$ GDF	72.0 5.6	18 18		Global brand value, to		6.7	66 ○
	00 1100	T GITVII GITTIGITICAT G	oranioacoo, birriri q abi	0.0	10		Industrial designs by o ICTs and organization		2.7 61.9	39 38
	Marke	sophisticati	on	45.1	71	7.2	Creative goods and		23.6	42
						7.2.1	Cultural and creative se	ervices exports, % total trade	0.9	34
	<b>Credit</b> Ease of c	etting credit*		<b>30.5</b> 45.0	<b>102</b> ○ 101 ○	^	National feature films/	• •	14.1	9 <b>●</b>
		c credit to private	sector, % GDP	42.5	79 0	, ,,,,,,,	Printing and other me	dia market/th pop. 15–69 dia, % manufacturing	n/a 1.5	n/a 28
	Microfina	nce gross loans,	% GDP	n/a	n/a		Creative goods export	,	0.8	49
	nvestm			30.5	67	7.3	Online creativity		41.1	29
		rotecting minorit apitalization, % (		78.0 13.7	18 65 ⊜	7.3.1	•	nains (TLDs)/th pop. 15–69	20.9	28
4.2.3 \	Venture o	capital investors,	deals/bn PPP\$ GDP	n/a	n/a	1.0.2	Country-code TLDs/tl		28.5 74.9	24 23
			, deals/bn PPP\$ GDP	0.0	49		Mobile app creation/b	•	36.7	12 •
		iversification o	nd market scale	74.4	47					
4.3 ·										
<b>4.3</b> 4.3.1	Applied 1	ariff rate, weighte industry diversi	ed avg., %	1.8 98.2	25 10 ●					

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.



#### **DATA AVAILABILITY**

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

## **Missing data for Slovenia**

Code	Indicator name	Economy year	Model year	Source
4.1.3	Microfinance gross loans, % GDP	n/a	2018	Microfinance Information Exchange
4.2.3	Venture capital investors, deals/bn PPP\$ GDP	n/a	2020	Refinitiv Eikon
7.2.3	Entertainment and media market/th pop. 15-69	9 n/a	2020	PwC

#### **Outdated data for Slovenia**

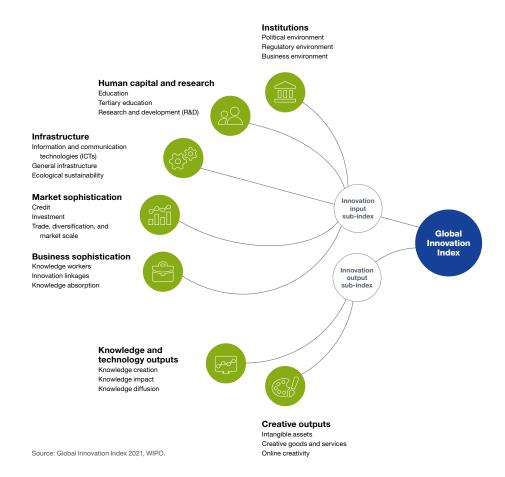
Code	Indicator name	Economy year	Model year	Source
2.1.5	Pupil-teacher ratio, secondary	2018	2019	UNESCO Institute for Statistics
6.1.1	Patents by origin/bn PPP\$ GDP	2018	2019	World Intellectual Property Organization
6.1.3	Utility models by origin/bn PPP\$ GDP	2010	2019	World Intellectual Property Organization
7.1.1	Trademarks by origin/bn PPP\$ GDP	2018	2019	World Intellectual Property Organization
7.1.3	Industrial designs by origin/bn PPP\$ GDP	2018	2019	World Intellectual Property 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.