



ICELAND

17th Iceland ranks 17th 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 Iceland 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 Iceland in the GII 2021 is between ranks 16 and 18.

	GII	Innovation inputs	Innovation outputs
2021	17	20	16
2020	21	23	19
2019	20	22	18

Rankings for Iceland (2019–2021)

• Iceland performs better in innovation outputs than innovation inputs in 2021.

• This year Iceland ranks 20th in innovation inputs, higher than both 2020 and 2019.

• As for innovation outputs, Iceland ranks 16th. This position is higher than both 2020 and 2019.

16th Iceland ranks 16th among the 51 high-income group economies.

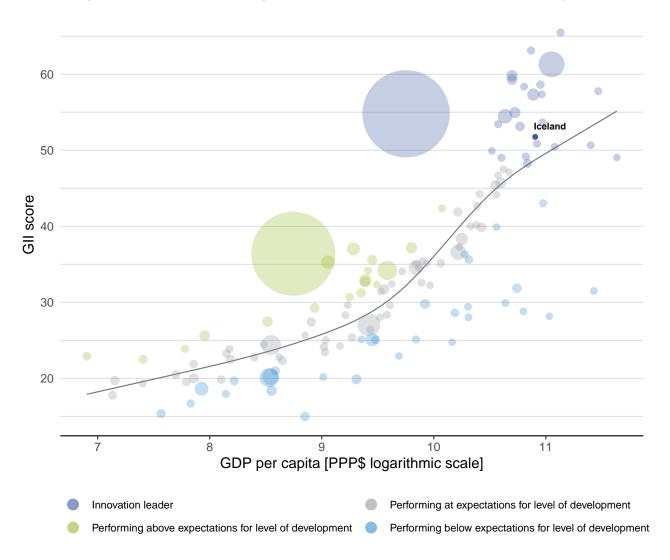
9th Iceland ranks 9th among the 39 economies in Europe.



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, Iceland's performance is above expectations for its level of development.



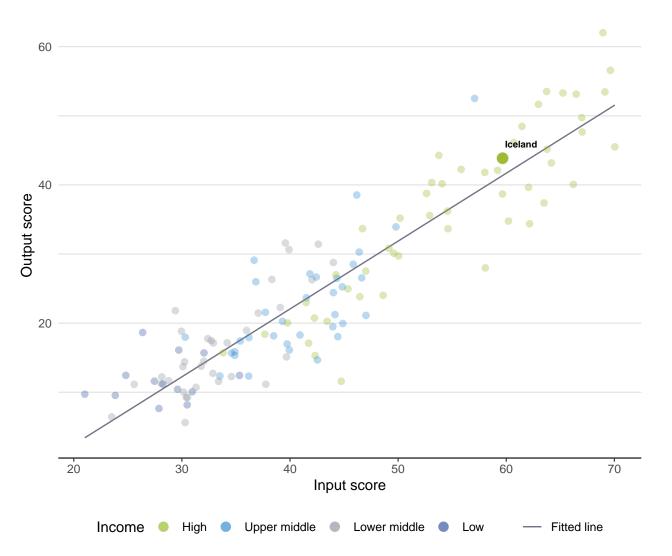
The positive relationship between innovation and development



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.

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

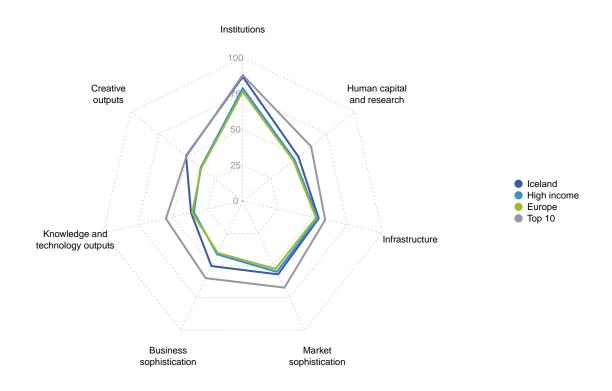


Innovation input to output performance



BENCHMARKING AGAINST OTHER HIGH-INCOME GROUP ECONOMIES AND EUROPE

The seven GII pillar scores for Iceland



High-income group economies

Iceland performs above the high-income group average in all GII pillars.

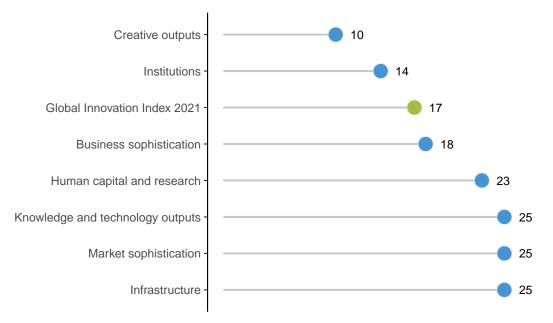
Europe

Iceland performs above the regional average in all GII pillars.



OVERVIEW OF RANKINGS IN THE SEVEN GII 2021 AREAS

Iceland performs best in Creative outputs and its weakest performance is in Infrastructure, Market sophistication, and Knowledge and technology outputs.



The seven GII pillar ranks for Iceland

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



INNOVATION STRENGTHS AND WEAKNESSES

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

Strengths and weaknesses for Iceland

	Strengths	Weaknesses				
Code	Indicator name	Rank	Code	Indicator name	Rank	
2.1.1	Expenditure on education, % GDP	4	2.2.2	Graduates in science and engineering, %	82	
3.1.1	ICT access	4	2.3.4	QS university ranking, top 3	74	
3.1.2	ICT use	4	3.3.1	GDP/unit of energy use	123	
3.2.1	Electricity output, GWh/mn pop.	1	4.1.1	Ease of getting credit	88	
5.2.3	GERD financed by abroad, % GDP	1	4.3	Trade, diversification, and market scale	96	
6.1.4	Scientific and technical articles/bn PPP\$ GDP	1	4.3.2	Domestic industry diversification	88	
7.2.2	National feature films/mn pop. 15–69	1	4.3.3	Domestic market scale, bn PPP\$	129	
7.3	Online creativity	1	5.3.2	High-tech imports, % total trade	101	
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69	1	5.3.4	FDI net inflows, % GDP	131	
7.3.2	Country-code TLDs/th pop. 15–69	5	6.2.5	High-tech manufacturing, %	75	
7.3.3	Wikipedia edits/mn pop. 15–69	5	7.2.5	Creative goods exports, % total trade	105	

Iceland

17

1	6	20	High	EUR		0	.3	19.8	54,482	1	21
				Score/ Value	Rank					Score/ Value	Rank
<u>π</u>	Institut	ions		86.8	14		+	Business sophis	tication	50.4	18
1	Political	environment		86.0	13		5.1	Knowledge workers		58.9	19
1.1	Political a	nd operational		89.3	6		5.1.1	Knowledge-intensive		50.4	8
		ent effectivenes		84.4	15			Firms offering formal t GERD performed by b		n/a 1.6	n/a 13
		ory environmer ry quality*	It	88.2 79.4	15 19		5.1.4	GERD financed by bu	siness, %	38.9	45
2.2	Rule of la	w*		93.3	11				advanced degrees, %	25.9	11
		dundancy dism	iissal	13.0	40			Innovation linkages University-industry R8	D collaboration [†]	58.5 58.8	8 26
		s environment tarting a busine	ss*	86.3 90.6	15 54			State of cluster develo		50.3	45
		esolving insolve		82.0	11			GERD financed by ab		0.7	1
								Patent families/bn PPI	alliance deals/bn PPP\$ GDP P\$ GDP	0.2 2.3	17 16
	Human	capital and	research	49.7	23		5.3	Knowledge absorpti	on	33.9	46
	Educatio			72.2	7	٠			ayments, % total trade	1.1	34
	•	ure on education	•	7.7	4	•		High-tech imports, % ICT services imports,		5.8 3.1	101 8
		e expectancy, y	il, secondary, % GDP/caj ears	20.6 19.2	46 7	٠	5.3.4	FDI net inflows, % GD	Р	-11.0	131
1.4	PISA sca	les in reading, m	naths and science	481.4	30	\diamond	5.3.5	Research talent, % in	businesses	42.7	31
	•	cher ratio, seco	ndary	⊘ 9.4	23 58		1. A. 4. A.	Knowledge and	technology outputs	37.0	25
	-	education nrolment, % gro	oss	35.4 73.1	58 26		_	, v	teennology outputs		
2.2	Graduate	s in science and	d engineering, %	18.6	82 C	\diamond		Knowledge creation Patents by origin/bn P	PP\$ GDP	50.9 4.6	13 19
	-	bound mobility		8.0	32			PCT patents by origin,		2.6	15
		h and developr iers, FTE/mn po		41.6 ⊘6,088.3	24 7	\diamond		Utility models by origin		n/a	n/a
3.2	Gross ex	penditure on R8	.D, % GDP	2.4	12			Citable documents H-	al articles/bn PPP\$ GDP index	65.0 19.8	1 42
		rporate R&D inv rsity ranking, top	vestors, top 3, mn US\$	46.6 0.0	33 74 ⊖			Knowledge impact		28.4	69
0.4		isity railiting, to		0.0	740	\sim		Labor productivity gro		0.5	55
* *	Infrasti	ructure		54.5	25			New businesses/th po Software spending, %		9.9 0.3	17 48
	Informativ	onandcommuni	cation technologies (ICTs) 84.7	23		6.2.4	ISO 9001 quality certi	icates/bn PPP\$ GDP	3.4	69
1.1	ICT acces			92.8	4 🖷			High-tech manufactur Knowledge diffusior	•	15.0 31.8	75 30
	ICT use*	ent's online serv	vice*	89.2 79.4	4 • 42	•		Intellectual property re		2.4	10
	E-particip		NCC	77.4	51	\diamond		Production and expor		n/a	n/a
2	General	infrastructure		50.8	9			High-tech exports, % ICT services exports,		2.9 3.6	49 24
		/ output, GWh/n	nn pop.	56,175.6 54.7	1 e 39			····,	,		
		performance* pital formation,	% GDP	20.9	82	\diamond	€;	Creative outputs		50.7	10
		al sustainabili	ty	27.9	67	\diamond	7.1	Intangible assets		51.3	17
		of energy use ental performar)ce*	3.1 72.3	123 ⊖ 17	\diamond	7.1.1	Trademarks by origin/		61.9	33
			certificates/bn PPP\$ GDF		57			Global brand value, to Industrial designs by c		n/a 0.8	n/a 76
								ICTs and organization		75.5	13
ĩ	Market	sophisticat	ion	56.8	25			Creative goods and		27.6	29
1	Credit			46.0	46			Cultural and creative se National feature films/	rvices exports, % total trade mn pop. 15–69	0.4 55.3	54 1
		etting credit*	a aaatar % CDB	55.0	88 C)	7.2.3	Entertainment and me	dia market/th pop. 15–69	n/a	n/a
		nce gross loans	e sector, % GDP s, % GDP	90.6 n/a	29 n/a			Printing and other mee Creative goods export		1.3 0.1	33 105
	Investme	•		64.8	12			Online creativity		72.5	100
		rotecting minor		72.0	27		7.3.1	Generic top-level dom	ains (TLDs)/th pop. 15–69	100.0	1
		apitalization, % apital investors	GDP , deals/bn PPP\$ GDP	n/a 0.2	n/a 14			Country-code TLDs/th		94.5 85.5	5
			s, deals/bn PPP\$ GDP	0.2	6			Wikipedia edits/mn po Mobile app creation/b		85.5 5.0	5 56
			nd market scale	59.7	96 C	\diamond					
		ariff rate, weight industry divers	•	1.5 ② 75.6	19 88 ⊂						
U.2		market scale, b		19.8							

NOTES: \bullet indicates a strength; \bigcirc a weakness; \bullet an income group strength; \diamondsuit 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 Iceland.

Missing data for Iceland

Code	Indicator name	Economy year	Model year	Source
4.1.3	Microfinance gross loans, % GDP	n/a	2018	Microfinance Information Exchange
4.2.2	Market capitalization, % GDP	n/a	2019	World Federation of Exchanges
5.1.2	Firms offering formal training, %	n/a	2019	World Bank
6.1.3	Utility models by origin/bn PPP\$ GDP	n/a	2019	World Intellectual Property Organization
6.3.2	Production and export complexity	n/a	2018	Growth Lab, Harvard University
7.1.2	Global brand value, top 5,000, % GDP	n/a	2020	Brand Finance
7.2.3	Entertainment and media market/th pop. 15-69) n/a	2020	PwC

Outdated data for Iceland

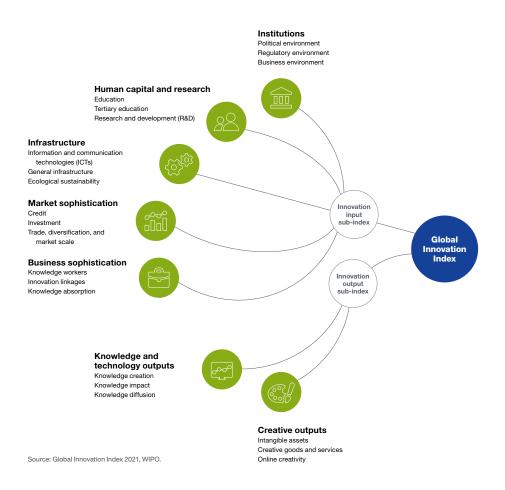
Code	Indicator name	Economy year	Model year	Source
2.1.5	Pupil-teacher ratio, secondary	2018	2019	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
4.3.2	Domestic industry diversification	2017	2018	United Nations Industrial Development Organization
5.3.5	Research talent, % in businesses	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators



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.



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.