



UNITED STATES OF AMERICA

3rd The United States of America ranks 3rd 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 the United States of America 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 the United States of America in the GII 2021 is between ranks 3 and 4.

	GII	Innovation inputs	Innovation outputs
2021	3	3	4
2020	3	4	5
2019	3	3	6

Rankings for the United States of America (2019–2021)

- The United States of America performs better in innovation inputs than innovation outputs in 2021.
- This year the United States of America ranks 3rd in innovation inputs, higher than last year but the same as 2019.
- As for innovation outputs, The United States of America ranks 4th. This position is higher than both 2020 and 2019.

3rd The United States of America ranks 3rd among the 51 high-income group economies.

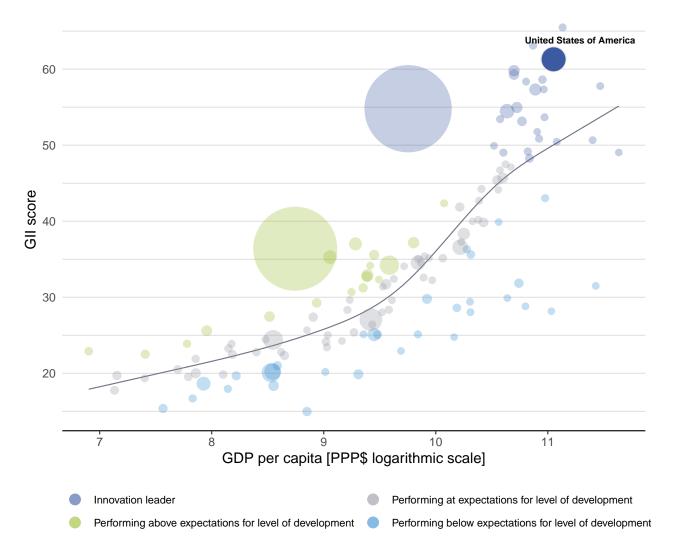
1St The United States of America ranks 1st among the 2 economies in Northern America.



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, the United States of America's performance is above expectations for its level of development.



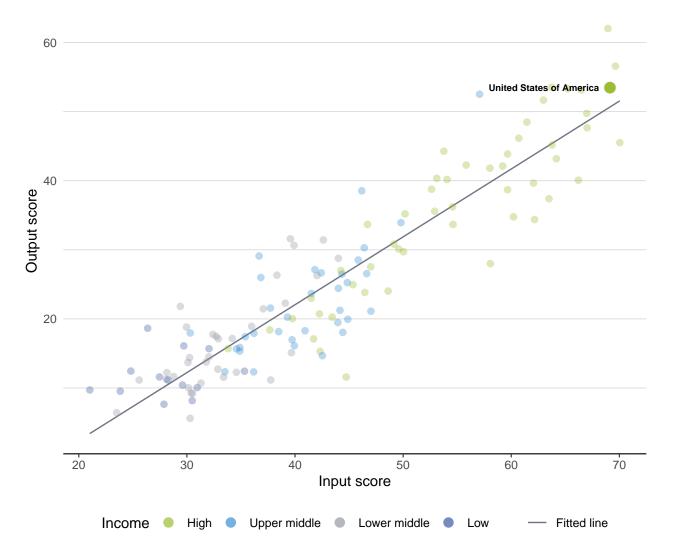
The positive relationship between innovation and development



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.

The United States of America produces more innovation outputs relative to its level of innovation investments.

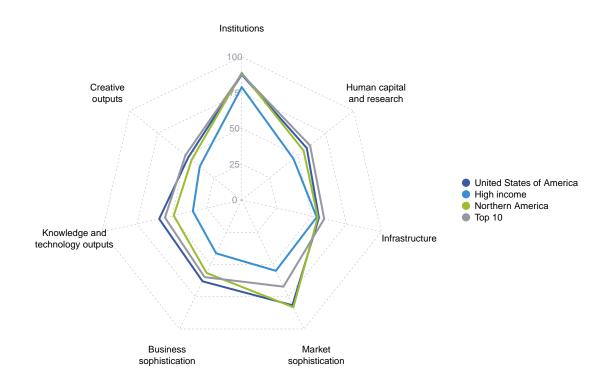


Innovation input to output performance



BENCHMARKING AGAINST OTHER HIGH-INCOME GROUP ECONOMIES AND NORTHERN AMERICA

The seven GII pillar scores for the United States of America



High-income group economies

The United States of America performs above the high-income group average in all GII pillars.

Northern America

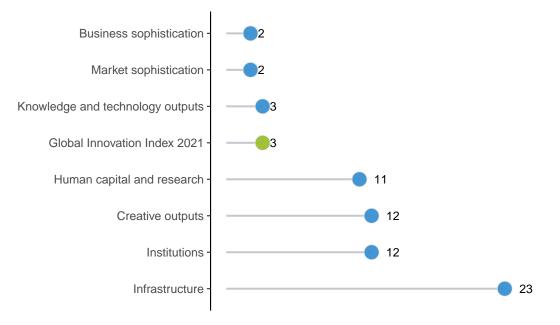
The United States of America performs above the regional average in five pillars, namely: Human capital and research; Infrastructure; Business sophistication; Knowledge and technology outputs; and, Creative outputs.



OVERVIEW OF RANKINGS IN THE SEVEN GII 2021 AREAS

The United States of America performs best in Market sophistication and Business sophistication and its weakest performance is in Infrastructure.

The seven GII pillar ranks for the United States of America



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 the United States of America in the GII 2021.

Strengths and weaknesses for the United States of America

	Strengths	Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank
1.2.3	Cost of redudancy dismissal	1	2.1.5	Pupil-teacher ratio, secondary	71
1.3	Business environment	2	2.2.2	Graduates in science and engineering, %	78
1.3.2	Ease of resolving insolvency	2	3.2.3	Gross capital formation, % GDP	86
2.3	Research and development (R&D)	2	3.3.1	GDP/unit of energy use	80
2.3.3	Global corporate R&D investors, top 3, mn US\$	1	3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	117
2.3.4	QS university ranking, top 3	1	4.3.1	Applied tariff rate, weighted avg., %	128
3.1.4	E-participation	1	5.3.4	FDI net inflows, % GDP	89
4.1	Credit	1	6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	110
4.1.2	Domestic credit to private sector, % GDP	2	7.1.1	Trademarks by origin/bn PPP\$ GDP	91
4.2.4	Venture capital recipients, deals/bn PPP\$ GDP	1	7.2.2	National feature films/mn pop. 15–69	60
4.3.3	Domestic market scale, bn PPP\$	2			
5.2.1	University-industry R&D collaboration	3			
5.2.2	State of cluster development and depth	1			
6.1	Knowledge creation	3			
6.1.1	Patents by origin/bn PPP\$ GDP	1			
6.1.5	Citable documents H-index	1			
6.2	Knowledge impact	1			
6.2.3	Software spending, % GDP	1			
6.3.1	Intellectual property receipts, % total trade	1			



Strengths			Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank	
7.1.4	ICTs and organizational model creation	1				
7.2.3	Entertainment and media market/th pop. 15–69	1				
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69	1				

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United States of America

Gll 2021 rank

3

Jutp	ut rank	Input rank	Income	Region	Popu	ilation (mn) GDP, PPP\$ (bn)	GDP per capita, PPP\$	GII 20	20 ra
	4	3	High	NAC	:	331.0	20,807.3	63,051		3
				Score/	Deels				Score/ Value	Develo
俞	Institu	tions		Value 87.6	12	£	Business sophist	ication	63.0	2
.1 .1.1		environment and operational	stability*	80.8 75.0	19 40 <	5.1 ◇ 5.1.1	Knowledge workers Knowledge-intensive e	mployment, %	73.5 52.0	4 4
.1.2	Governm	ent effectivenes	ss*	83.7	17		Firms offering formal tr		n/a	n/a
.2	Regulat	ory environme	nt	91.0	12		GERD performed by b		2.3	5
		ory quality*		78.7	20		GERD financed by bus Females employed w/a		63.1 28.0	10 5
	Rule of la		lagal	85.2	18 1 ● •			avalieca acgrees, 70	59.9	5
		edundancy disn	lissa	0.8		E 0 1	Innovation linkages University-industry R&	D collaboration [†]	59.9 74.4	3
.3 31		s environment starting a busine	ee*	91.0 91.6	2 ● 48		State of cluster develo		73.7	1
		esolving insolve		90.5	2 • •		GERD financed by abr		0.2	19
		j	.,			5.2.4		alliance deals/bn PPP\$ GDP	0.2	6
•	Humar	n capital and	research	58.1	11		Patent families/bn PPF		3.4	12
		-					Knowledge absorptio		55.7	7
.1	Educati			57.6	41		Intellectual property pa High-tech imports, % 1		1.6 16.9	22 10
		ture on educatio	n, % GDP il, secondary, % GDP/caj	⊘ 5.0 c 22.7	42 31		ICT services imports, 9		1.6	47
		fe expectancy, y		16.3	29		FDI net inflows, % GDI		1.6	89
.1.4			naths and science	495.3	24	5.3.5	Research talent, % in I	ousinesses	72.5	4
.1.5	Pupil-tea	cher ratio, seco	ndary	Ø 14.6	71 〇 《					
.2		education		38.6	45	and a second	Knowledge and	technology outputs	59.2	3
		enrolment, % gr		88.3	11	6.1	Knowledge creation		72.9	3
		es in science and nbound mobility	d engineering, %	19.0 5.2	78 〇 47		Patents by origin/bn Pl	PP\$ GDP	13.3	1
		,				6.1.2	PCT patents by origin/		2.8	12
.3 3 1		h and develops hers, FTE/mn po		78.3 ②4,408.2	2 ● • 22	0.1.5	Utility models by origin		n/a	n/a
		penditure on R8	•	04,400.2 3.1	8			l articles/bn PPP\$ GDP	18.9	46
			vestors, top 3, mn US\$	100.0	1.	٠	Citable documents H-i	nuex	100.0	1
.3.4	QS unive	ersity ranking, to	p 3*	98.8	1•		Knowledge impact Labor productivity grov	wth %	56.9 1.6	1 30
							New businesses/th po		n/a	n/a
₽**	Infrast	ructure		55.3	23		Software spending, %		1.1	1
8.1	Informati	ion and communi	cation technologies (ICTs	s) 90.1	9		ISO 9001 quality certifi		1.0	110
	ICT acce			83.5	22		High-tech manufacturi	ng, %	44.9	19
	ICT use*			82.1	18		Knowledge diffusion	asista ()/ tatal trada	47.7	16
		nent's online ser	vice*	94.7	7		Intellectual property re Production and export		4.3 79.7	1 11
	E-partici			100.0	1.		High-tech exports, % 1		8.8	18
3.2		infrastructure		45.1	18 9	6.3.4	ICT services exports, 9	% total trade	2.0	56
		y output, GWh/r performance*	nn pop.	13,284.9 85.3	9 14					
		pital formation,	% GDP	20.3	86 〇	€,	Creative outputs		47.8	12
.3	Ecologi	cal sustainabili	tv	30.8	55		laten sible consta		40.0	01
		t of energy use	•	9.1	80 〇	7.1	Intangible assets Trademarks by origin/k	on PPP\$ GDP	48.8 21.5	21 91
		nental performa		69.3	24	7.1.2	Global brand value, top		209.5	4
.3.3	ISO 1400	1 environmental	certificates/bn PPP\$ GDI	• 0.2	117 〇 ‹	7.1.0	Industrial designs by o		1.1	66
هيو.					-		ICTs and organizationa		83.7	1
Ĩ	Marke	t sophisticat	ion	81.5	2 • •		Creative goods and s		43.0	7
.1	Credit			88.0	1.		Cultural and creative set National feature films/r	rvices exports, % total trade	1.9 2.9	8 60
.1.1		getting credit*		95.0	4 •	• 7.2.3		dia market/th pop. 15–69	100.0	1
			e sector, % GDP	191.8	2 • •	• 7.2.4	Printing and other med	lia, % manufacturing	1.4	31
		ance gross loans	s, % GDP	n/a	n/a		Creative goods export	s, % total trade	3.0	21
.2	Investm		ity investors*	73.2			Online creativity		50.4	21
		protecting minor apitalization, %	•	71.6 ② 152.9	35 5			ains (TLDs)/th pop. 15–69	100.0	1
		•	, deals/bn PPP\$ GDP	0.3	10		Country-code TLDs/th Wikipedia edits/mn po		2.1 69.5	70 40
			s, deals/bn PPP\$ GDP	0.3	1.		Mobile app creation/bi		27.4	40 21
.3	Trade, d	iversification, a	and market scale	83.4	18					
.3.1	Applied 1	tariff rate, weigh	ted avg., %	13.8	128 🔿	\diamond				
		c industry divers		98.6	8					
.33	Domesti	c market scale, l	on PPP\$	20,807.3	2 \bullet •	♦				

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 the United States of America.

Missing data for the United States of America

Code	Indicator name	Economy year	Model year	Source
4.1.3	Microfinance gross loans, % GDP	n/a	2018	Microfinance Information Exchange
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
6.2.2	New businesses/th pop. 15–64	n/a	2018	World Bank

Outdated data for the United States of America

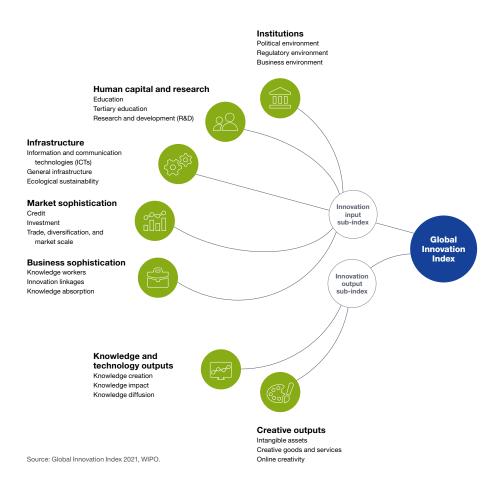
Code	Indicator name	Economy year	Model year	Source
2.1.1	Expenditure on education, % GDP	2014	2017	UNESCO Institute for Statistics
2.1.5	Pupil-teacher ratio, secondary	2017	2019	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	2017	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
4.2.2	Market capitalization, % GDP	2018	2019	World Federation of Exchanges
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.