



SWEDEN

2nd Sweden ranks 2nd among the 129 economies featured in the GII 2019.

The Global Innovation Index (GII) is a ranking of world economies based on 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 Sweden over the past three years, noting that data availability and the GII model influence year-on-year comparisons of the GII ranks. The confidence interval for Sweden's ranking in the GII 2019 confirms its 2nd rank.

	GII	Innovation Inputs	Innovation Outputs		
2019	2	4	3		
2018	3	3	3		
2017	2	2	3		

Sweden's Rankings, 2017 - 2019

- Sweden performs better in Innovation Outputs than Inputs in 2019.
- This year Sweden ranks 4th in Innovation Inputs, worse than in 2018 and 2017.
- In Innovation Outputs, Sweden ranks 3rd. This position is the same as in 2018 and 2017.

2nd Sweden ranks 2nd among the 50 high-income economies.

2nd Sweden ranks 2nd 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 considered Innovation under-performers relative to GDP.

Relative to GDP, Sweden performs well above its expected level of development.

GII scores and GDP per capita in PPP US\$ (bubbles sized by population)

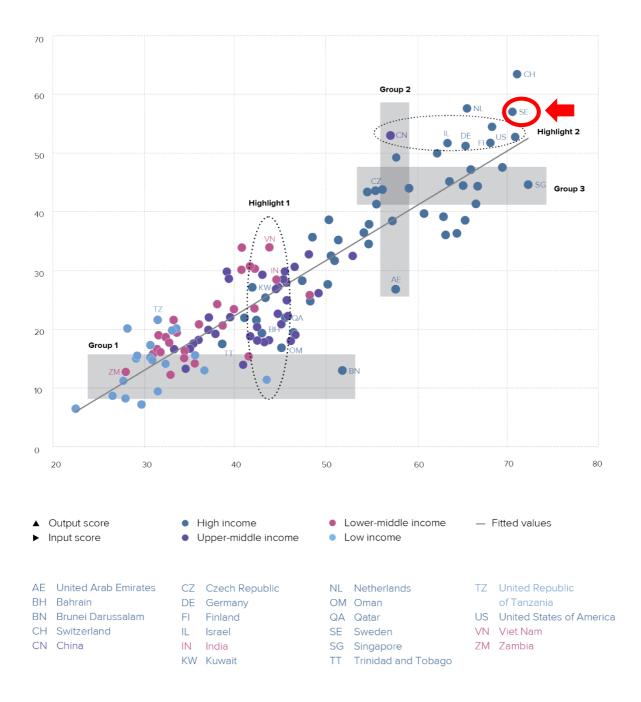


EFFECTIVELY TRANSLATING INNOVATION INVESTMENTS INTO INNOVATION OUTPUTS

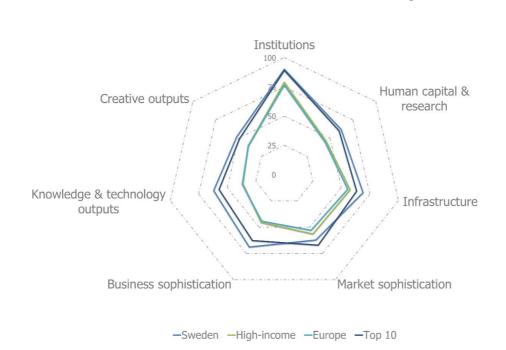
The chart below shows the relationship between innovation inputs and innovation outputs, indicating which economies best translate innovation inputs into innovation outputs. Economies appearing above the line are effectively translating their costly innovation investments into more and higher-quality outputs. In contrast, those below the line are not effectively translating innovation inputs into outputs.

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

Innovation input/output performance by income group, 2019



BENCHMARKING SWEDEN TO OTHER HIGH-INCOME ECONOMIES AND THE EUROPE REGION



Sweden's scores in the seven GII pillars

High-income economies

Sweden has high scores in all GII pillars, which are all above the average of the high-income group.

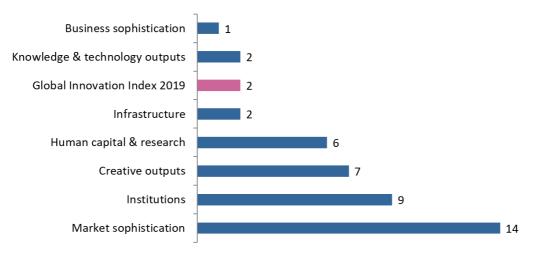
Europe Region

Compared to other economies in the Europe region, Sweden performs above average in all seven GII pillars.

Sweden ranks in the top 3 in the following areas: Knowledge workers, Innovation linkages, Knowledge creation, and Online creativity.

OVERVIEW OF SWEDEN'S RANKINGS IN THE 7 GII AREAS

Sweden performs the best in Business sophistication and its weakest performance is in Market sophistication.



*The highest possible ranking in each pillar is 1.

SWEDEN'S INNOVATION STRENGTHS AND WEAKNESSES

The table below gives an overview of Sweden's strengths and weaknesses in the GII 2019.

Strengths					
Code	Indicator name	Rank			
1.2.2	Rule of law*	3			
2.3.1	Researchers, FTE/mn pop.	4			
2.3.2	Gross expenditure on R&D, % GDP 3				
3	Infrastructure 2				
3.2	General infrastructure	4			
3.2.2	Logistics performance*	2			
3.3.2	Environmental performance*				
5	Business sophistication 1				
5.1	Knowledge workers 2				
5.1.2	1.2 Firms offering formal training, % firms				
5.2	Innovation linkages				
5.2.5	.5 Patent families 2+ offices/bn PPP\$ GDP				
6	Knowledge & technology outputs	2			
6.1	Knowledge creation	2			
6.1.2	6.1.2 PCT patents by origin/bn PPP\$ GDP				
6.3.1	Intellectual property receipts, % total trade	1			
7.1.3	ICTs & business model creation ⁺	4			
7.1.4	ICTs & organizational model creation [†]	2			
7.3	Online creativity	3			
7.3.3	Wikipedia edits/mn pop. 15–69	3			

Weaknesses					
Code	Indicator name	Rank			
1.2.3	Cost of redundancy dismissal, salary weeks 57				
2.1.5	2.1.5 Pupil-teacher ratio, secondary 56				
3.3.1	GDP/unit of energy use	57			
4.1.1	4.1.1 Ease of getting credit* 77				
4.3.1	Applied tariff rate, weighted mean, %	23			
5.2.3	5.2.3 GERD financed by abroad, % 55				
5.3.2	5.3.2 High-tech imports, % total trade 59				
5.3.4	5.3.4 FDI net inflows, % GDP, 3-year average 55				
6.2.1	6.2.1 Growth rate of PPP\$ GDP/worker, %, 3-year 80 average				
7.2.4	Printing & other media, % manufacturing	47			

STRENGTHS

- Sweden has relative strengths in all GII pillars, except for Market sophistication.
- Three GII pillars are relative strengths: Infrastructure (2), Business sophistication (1), and Knowledge & Technology Outputs (2).
- In Infrastructure (2), the country has relative strengths in the sub-pillar General infrastructure (4) and in indicators Logistics performance (2) and Environmental performance (5).
- In Business sophistication, where the country ranks 1st in the world, Sweden exhibits strengths in two of its three sub-pillars Knowledge workers (2) and Innovation linkages (2); and in indicators Firms offering formal training (3), and Patent families in 2 or more offices (1).
- In Knowledge & technology outputs (2), the sub-pillar Knowledge creation (2), and indicators PCT patents by origin (1) and Intellectual property receipts (1) are also relative strengths.
- In Creative outputs (7), Sweden exhibits strengths in the sub-pillar Online creativity (3) and in indicators ICTs & business model creation (4), ICTs & organizational model creation (2), and Wikipedia edits (3).
- The indicators Rule of law (3), Researchers (4), and R&D expenditures (3) are other relative strengths for Sweden.

WEAKNESSES

- Sweden's relative weaknesses in the GII are scattered across the seven GII pillars, but mostly among innovation inputs.
- In Institutions (9), the indicator Cost of redundancy dismissal (57) is a relative weakness.
- In Human capital & research (6), the indicator Pupil-teacher ratio (56), is also a relative weakness.
- In Infrastructure (2), the indicator GDP per unit of energy use (57) is a relatively weakness.
- In Market sophistication (14), Sweden exhibits relative weaknesses in indicators Ease of getting credit (77) and Applied tariff rate (23).
- In Business sophistication (1), the following indicators are also relative weaknesses: R&D financed by abroad (55), High-tech imports (59), and FDI inflows (55).
- On innovation outputs, only two indicators Labor productivity growth (80) and Printing & other media (47) are relative weaknesses.

SWEDEN

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	out rank	Input rank	Income	Regior		Рор	ulation (r	mn) GDP, PPP\$	GDP per capita, PPP\$	GII 20	018 r
	3	4	High	EUR			10.0	542.8	52,984.1		3
			So	ore/Value	Rank				Sco	ore/Value	Rank
1	INSTITU	JTIONS		90.1	9		٨	BUSINESS SOPHIS	TICATION	68.8	1
1	Political	environment		91.1	9		5.1	Knowledge workers		81.8	2
1			ability*		12		5.1.1	Knowledge-intensive e	mployment, %	52.3	5
2	Governm	ent effectiveness	*	91.1	8		5.1.2		aining, % firms		3
							5.1.3		isiness, % GDP		4
2					13		5.1.4	,	ness, % [©]		14
.1					10		5.1.5	Females employed w/a	advanced degrees, %	24.8	12
.2 .3			sal, salary weeks		3 57	-	5.2	Innevation linkonce		66.4	2
.0	00310110		Sul, Sulary Weeks	17.7	57	0	5.2.1		earch collaboration ⁺		9
	Business	environment		87.1	14		5.2.2		pment ⁺		12
.1			.*		16		5.2.3		oad, %		55
.2		0	cy*		16		5.2.4		eals/bn PPP\$ GDP		5
		5	,				5.2.5	Patent families 2+ offic	es/bn PPP\$ GDP	7.2	1
23	HUMAN	I CAPITAL & RI	ESEARCH	62.1	6	•	5.3	Knowledge absorptio	n	58.4	6
							5.3.1	Intellectual property pa	yments, % total trade	1.7	16
					6	•	5.3.2	-	tal trade		59
.1			% GDP		5	•	5.3.3		5 total trade		6
.2		0111	, secondary, % GDP/ca		32		5.3.4				55
.3			ars		8		5.3.5	Research talent, % in b	usiness enterprise	72.0	4
.4		0	ths, & science		23	~					
.5	Pupil-tead	cher ratio, second	lary	12.9	56	0	\square	KNOWI EDGE & TE	CHNOLOGY OUTPUTS.	61.8	2
2	Tertiary e	education		43 1	28						_
2.1			s.@		39		6.1	Knowledge creation		73.5	2
.2			gineering, %		23		6.1.1		PP\$ GDP		10
.3			%		35		6.1.2		on PPP\$ GDP		1
	-	-					6.1.3	Utility models by origin	/bn PPP\$ GDP	n/a	n/a
3	Research	n & development	(R&D)	75.3	6		6.1.4	Scientific & technical a	rticles/bn PPP\$ GDP	30.2	7
3.1						• •	6.1.5	Citable documents H-i	ndex	59.5	11
3.2			, % GDP		3	•					
3.3			g. exp. top 3, mn US\$.		10		6.2				20
.4	QS unive	rsity ranking, aver	age score top 3*	59.1	14		6.2.1		DP/worker, %		80
							6.2.2		o. 15-64		19
25							6.2.3		ending, % GDP		11
\mathbf{k}	INFRAS	TRUCTURE		69.1			6.2.4 6.2.5		cates/bn PPP\$ GDP ech manufactures, %		38 14
1	Informati	ion & communica	ation technologies(IC	Tc) 80 5	12		0.2.5	nigh- a mealann-nigh-i	ech manufactures, %	0.5	14
.1				•	17		6.3	Knowledge diffusion		63.9	6
.2					6	•	6.3.1		ceipts, % total trade		1
.3			ce*		14	•	6.3.2		% total trade		23
.4	E-particip	ation*		93.8	19		6.3.3	ICT services exports, %	6 total trade	6.2	6
					_	. .	6.3.4	FDI net outflows, % GD	Ρ	3.9	15
						• •					
2 2 1		infrastructure									
2.1	Electricity	output, kWh/mn	pop	15,902.8	7	•		CREATIVE OUTPU	TS .	51.9	7
2.1 2.2	Electricity Logistics	output, kWh/mn performance*	рор	15,902.8 93.1		•	1		тЅ		7
2.1 2.2 2.3	Electricity Logistics Gross cap	output, kWh/mn performance* pital formation, %	pop GDP	15,902.8 93.1 26.4	7 2 39	•	7.1	Intangible assets		56.7	15
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2.1 2.2 2.3 3 3 3 3 3 3 3 3 3 1 2 2 3 3 2 2.3 3 3 3 3 3 3 3 3 3 3 3 3 3	Electricity Logistics Gross cap Ecologica GDP/unit Environm ISO 14007 MARKE Credit Ease of g Domestic Microfina Ease of p Market ca Venture of Trade, co	r output, kWh/mn performance* oital formation, % al sustainability of energy use ental performanc 1 environmental c T SOPHISTICA etting credit* credit to private ince gross loans, \$ ent rotecting minority apitalization, % GE capital deals/bn P pompetition, & ma	pop GDP ertificates/bn PPP\$ GE TION sector, % GDP % GDP pp. PP\$ GDP	15,902.8 93.1 93.1 9.7 80.5 P. 9.3 62.1 59.4 55.0 132.2 74.6 68.3 68.3 13.1 74.6 68.3 13.1 14.1 15.1 15.1 16.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1	7 2 39 10 57 5 7 14 19 77 15 n/a 30 n/a 17	•	7.1 7.11 7.12 7.13 7.14 7.2 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 7.3 7.3.1 7.3.2 7.3.3	Intangible assets Trademarks by origin/b Industrial designs by o ICTs & business mode ICTs & organizational r Creative goods & serv Cultural & creative sen National feature films/r Entertainment & Media Printing & other media, Creative goods export Online creativity Generic top-level dom Country-code TLDs/th Wikipedia edits/mn po	in PPP\$ GDP rigin/bn PPP\$ GDP I creation [†] nodel creation [†] rices vices exports, % total trade market/th pop. 15-69 % manufacturing s, % total trade ains (TLDs)/th pop. 15-69 pop. 15-69 p. 15-69	56.7 55.6 4.1 81.9 82.7 31.8 1.1 10.1 10.1 10.2 1.2 1.2 1.2 1.2 43.2 70.9 70.9 106.6	15 42 30 4 2 23 26 19 5 47 30 3 17 8 3

NOTES: • Indicates a strength; O a weakness; • a strength relative to the other top 25-ranked GII economies; • a weakness relative to the other top 25-ranked GII economies; * an index; * a survey question. O 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 missing or are outdated for Sweden.

Missing data

Code	Indicator name	Country year	Model year	Source
4.1.3	Microfinance gross loans, % GDP	n/a	2017	Microfinance Information Exchange
4.2.2	Market capitalization, % GDP	n/a	2017	World Federation of Exchanges
6.1.3	Utility models by origin/bn PPP\$ GDP	n/a	2017	World Intellectual Property Organization

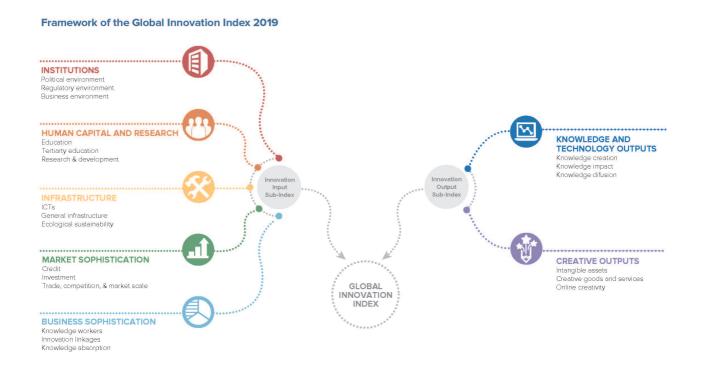
Outdated data

Codo	Indicator name	Country	Model	Source	
Code	indicator name	year	year		
2.1.5	Pupil-teacher ratio, secondary	2016	2017	UNESCO Institute for Statistics	
2.2.1	Tertiary enrolment, % gross	2016	2017	UNESCO Institute for Statistics	
5.1.4	GERD financed by business, %	2015	2016	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators	
5.2.3	GERD financed by abroad, %	2013	2016	UNESCO Institute for Statistics	

ABOUT THE GLOBAL INNOVATION INDEX

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 2019, the GII presents its 12th edition devoted to the theme **Creating Healthy Lives—The Future of Medical Innovation**.

Recognizing that innovation is a key driver of economic development, the GII aims to provide a rich innovation ranking and 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 countries 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 includes 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 containing three sub-pillars.





