

VIET NAM

44th

Viet Nam ranks 44th 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 Viet Nam 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 Viet Nam in the GII 2021 is between ranks 42 and 47.

Rankings for Viet Nam (2019–2021)

	GII	Innovation inputs	Innovation outputs
2021	44	60	38
2020	42	62	38
2019	42	63	37

- Viet Nam performs better in innovation outputs than innovation inputs in 2021.
- This year Viet Nam ranks 60th in innovation inputs, higher than both 2020 and 2019.
- As for innovation outputs, Viet Nam ranks 38th. This position is the same as last year but lower than 2019.

1st

Viet Nam ranks 1st among the 34 lower middle-income group economies.

10th

Viet Nam ranks 10th among the 17 economies in South East Asia, East Asia, and Oceania.

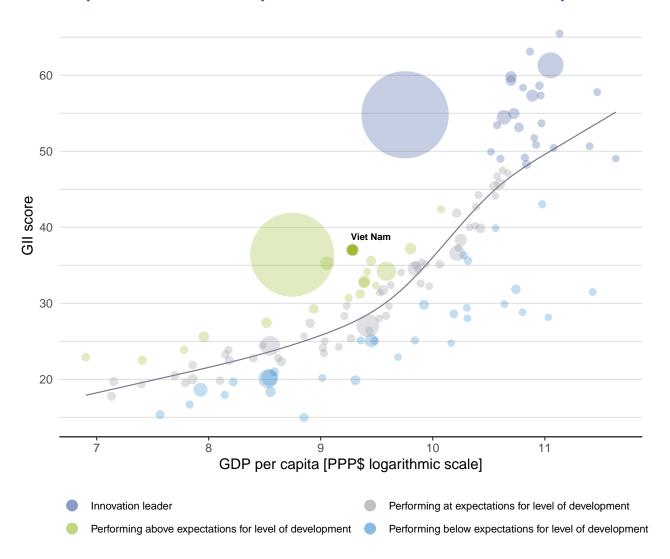


EXPECTED VS. OBSERVED INNOVATION PERFORMANCE

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

The positive relationship between innovation and development



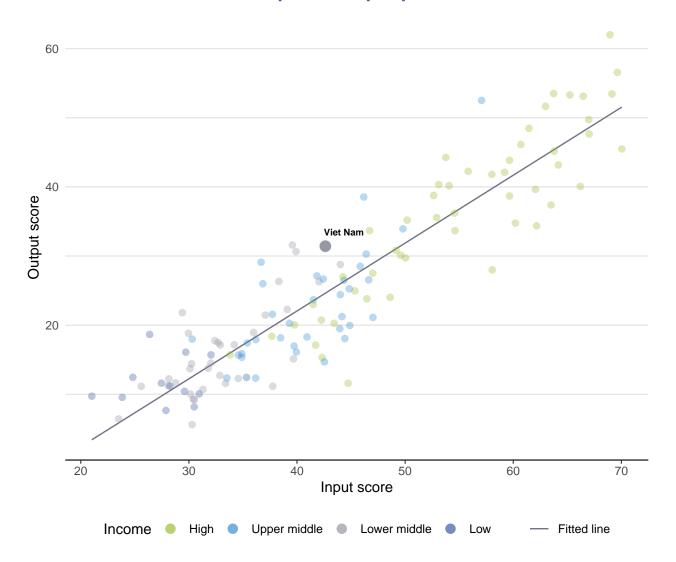




The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.

Viet Nam produces more innovation outputs relative to its level of innovation investments.

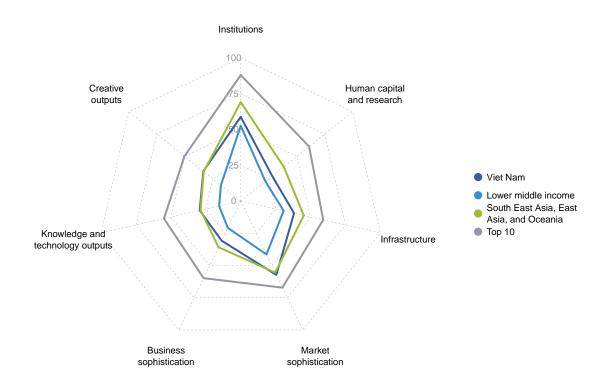
Innovation input to output performance





BENCHMARKING AGAINST OTHER LOWER MIDDLE-INCOME GROUP ECONOMIES AND SOUTH EAST ASIA, EAST ASIA, AND OCEANIA

The seven GII pillar scores for Viet Nam



Lower middle-income group economies

Viet Nam performs above the lower middle-income group average in all GII pillars.

South East Asia, East Asia, and Oceania

Viet Nam performs above the regional average in three pillars, namely: Market sophistication; Knowledge and technology outputs; and, Creative outputs.

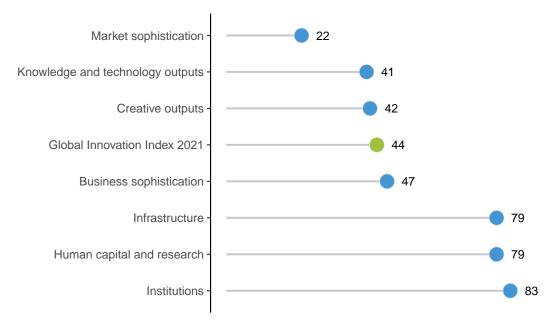




OVERVIEW OF RANKINGS IN THE SEVEN GII 2021 AREAS

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

The seven GII pillar ranks for Viet Nam



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





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

Strengths and weaknesses for Viet Nam

Strengths				Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank		
4.1	Credit	9	1.3.2	Ease of resolving insolvency	106		
4.1.2	Domestic credit to private sector, % GDP	12	2.2.3	Tertiary inbound mobility, %	102		
4.1.3	Microfinance gross loans, % GDP	11	2.3.3	Global corporate R&D investors, top 3, mn US\$	41		
4.3	Trade, diversification, and market scale	15	3.3.2	Environmental performance	110		
4.3.2	Domestic industry diversification	9	4.2	Investment	111		
5.1.4	GERD financed by business, %	8	5.1.1	Knowledge-intensive employment, %	100		
5.3.2	High-tech imports, % total trade	3	5.3.3	ICT services imports, % total trade	129		
5.3.4	FDI net inflows, % GDP	16	6.3.1	Intellectual property receipts, % total trade	106		
6.2.1	Labor productivity growth, %	3	6.3.4	ICT services exports, % total trade	115		
6.3.3	High-tech exports, % total trade	1	7.2.1	Cultural and creative services exports, % total trade	91		
7.2.5	Creative goods exports, % total trade	11	7.2.3	Entertainment and media market/th pop. 15–69	52		
7.3.4	Mobile app creation/bn PPP\$ GDP	10					

Viet Nam

44

Output rank	Input rank	Income	Region	Ро	pula	tion (mn)	GDP, PPP\$ (bn)	GDP per capita, PPP\$	GII 20	20 rank
38	60	Lower middle	SEAO		9	7.3	1,047.3	10,755	-	12
			Score/ Value	Rank					Score/ Value	Rank
<u> iii</u> Institu	tions		58.8	83			Business sophist	tication	30.8	47
1.1.1 Political 1.1.2 Governr		ess*	60.5 78.6 51.5 54.3 36.6 46.3	58 34 71 98 93 64	•	5.1.1 F 5.1.2 F 5.1.3 (5.1.4 (Knowledge workers Knowledge-intensive e Firms offering formal tr GERD performed by b GERD financed by bus Females employed w/a	raining, % ② usiness, % GDP ② siness, % ②	0.4	66 100 0 68 44 8 • •
1.2.3 Cost of 1.3 Busines 1.3.1 Ease of	redundancy dis ss environmen starting a busin resolving insolv	t ess*	24.6 61.6 85.1 38.0	104	0	5.2.1 t 5.2.2 s 5.2.3 (5.2.4 s		pment and depth† oad, % GDP alliance deals/bn PPP\$ GDP	0.0	58 34 17 64 74
2.1. Educati 2.1.1 Expendi 2.1.2 Governr 2.1.3 School I 2.1.4 PISA sc	iture on educati nent funding/pu ife expectancy, ales in reading,	on, % GDP pil, secondary, % GDP/ca years maths and science	n/a ② 502.0	62 n/a n/a 16	•	5.3.1 I 5.3.2 I 5.3.3 I 5.3.4 F	Patent families/bn PPF Knowledge absorption tellectual property particular property, % of the services imports, % of the services in lease arch talent, % in lease a	on ayments, % total trade total trade % total trade P	0.0 39.2 0.2 25.7 0.1 6.3 24.1	92 30 91 3 • 4 129 0 < 16 • 52
2.2 Tertiary 2.2.1 Tertiary 2.2.2 Graduat 2.2.3 Tertiary 2.3 Researd 2.3.1 Researd	inbound mobili ch and develop hers, FTE/mn p	gross nd engineering, % ty, % pment (R&D) pop.	18.6 23.2 28.6 22.7 0.4 6.9 707.7	91 90 87 54 102 68 57	0	6.1 F 6.1.2 F 6.1.3	Knowledge creation Patents by origin/bn Pl PCT patents by origin/ Jtility models by origir	bn PPP\$ GDP	9.8 0.7 0.0 0.4 10.4	79 73 88 38 83
2.3.3 Global o 2.3.4 QS univ	xpenditure on F corporate R&D i ersity ranking, t tructure	nvestors, top 3, mn US\$	② 0.5 0.0 8.9	64 41 66 79	•	6.2.1 L 6.2.2 N 6.2.3 S	Citable documents H-i Knowledge impact Labor productivity groven businesses/th po Software spending, %	wth, % p. 15–64 ② GDP	0.3	58 36 3 ● 9 81 49
3.1.1 ICT accordance 3.1.2 ICT use 3.1.3 Governr 3.1.4 E-partic 3.2 Genera	ess* ment's online se	e	52.8 55.6 65.3 70.2 33.1 2,521.9	79 87 71 78 70 47 74	•	6.2.5 H 6.3 H 6.3.1 H 6.3.2 H 6.3.3 H	SO 9001 quality certif- ligh-tech manufacturi Knowledge diffusion ntellectual property re- Production and export- ligh-tech exports, % to CT services exports, \$	ng, % ceipts, % total trade complexity total trade	3.8 29.9 41.9 0.0 47.2 32.1 0.3	65 42 21 106 0 52 1 • •
	s performance* apital formation		57.0 26.2	38 39	•	68. (Creative outputs		33.4	42
3.3.1 Ecologi 3.3.1 GDP/un 3.3.2 Environi	cal sustainabi it of energy use mental perform	lity	20.5 8.1 33.4	95 90 110 55	○	7.1 I 7.1.1 7 7.1.2 (7.1.3 I	ntangible assets Frademarks by origin/b Global brand value, to Industrial designs by o CTs and organizationa	on PPP\$ GDP o 5,000, % GDP rigin/bn PPP\$ GDP	41.9 73.3 80.8 2.2 54.4	35 4 23 4 25 4 45 63
Marke	t sophistica	ation	57.2	22	•		Creative goods and s		26.0	35
		ate sector, % GDP ns, % GDP	66.1 80.0 137.9 ② 3.1	23	• •	7.2.2 N 7.2.3 E 7.2.4 F	National feature films/r	dia market/th pop. 15–69 lia, % manufacturing	0.1 1.2 2.8 0.9 5.8	91 ○ 81 52 ○ • 64 11 • •
4.2.2 Market of 4.2.3 Venture 4.2.4 Venture	protecting mino capitalization, % capital investor capital recipien	6 GDP 's, deals/bn PPP\$ GDP its, deals/bn PPP\$ GDP	20.6 54.0 55.8 0.0 0.0	88 31 71 54		7.3.1 (7.3.2 (7.3.3 \	Online creativity Generic top-level dom Country-code TLDs/th Wikipedia edits/mn po Mobile app creation/bi	p. 15–69	23.9 2.5 2.1 44.0 47.9	49 71 69 79 10 •
4.3.1 Applied 4.3.2 Domest	liversification, tariff rate, weig ic industry dive ic market scale	rsification	85.0 1.7 98.3 1,047.3	21 9 23	• • • • • • •					

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

Missing data for Viet Nam

Code	Indicator name	Economy year	Model year	Source
2.1.2	Government funding/pupil, secondary, % GDP/cap	n/a	2017	UNESCO Institute for Statistics
2.1.3	School life expectancy, years	n/a	2018	UNESCO Institute for Statistics

Outdated data for Viet Nam

Code	Indicator name	Economy year	Model year	Source
2.1.4	PISA scales in reading, maths and science	2015	2018	OECD Programme for International Student Assessment (PISA)
2.2.2	Graduates in science and engineering, %	2016	2018	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.3.1	Researchers, FTE/mn pop.	2017	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.3.2	Gross expenditure on R&D, % GDP	2017	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
4.1.3	Microfinance gross loans, % GDP	2017	2018	Microfinance Information Exchange
5.1.2	Firms offering formal training, %	2015	2019	World Bank
5.1.3	GERD performed by business, % GDP	2017	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
5.1.4	GERD financed by business, %	2017	2018	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
5.2.3	GERD financed by abroad, % GDP	2017	2018	UNESCO Institute for Statistics



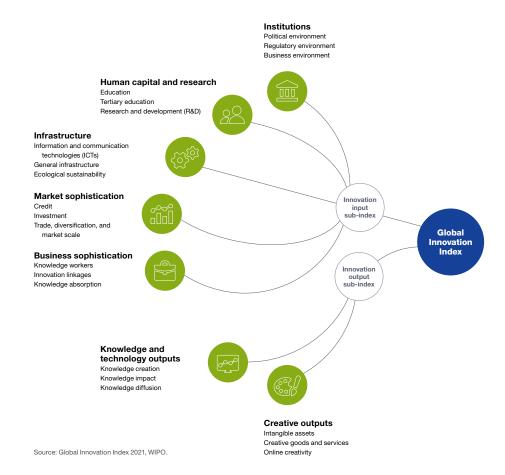






The Global Innovation Index (GII) is published by the World Intellectual Property Organization (WIPO), a specialized agency of the United Nations.

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.