

NORWAY

20th

Norway ranks 20th 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 Norway 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 Norway in the GII 2021 is between ranks 19 and 23.

Rankings for Norway (2019–2021)

	GII	Innovation inputs	Innovation outputs
2021	20	13	28
2020	20	15	28
2019	19	13	27

- Norway performs better in innovation inputs than innovation outputs in 2021.
- This year Norway ranks 13th in innovation inputs, higher than last year but the same as 2019.
- As for innovation outputs, Norway ranks 28th. This position is the same as last year but lower than 2019.

19th

Norway ranks 19th among the 51 high-income group economies.

12th

Norway ranks 12th among the 39 economies in Europe.

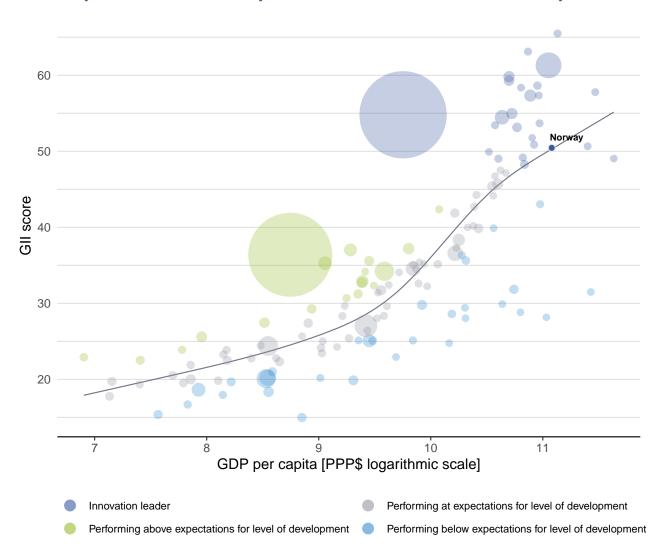


EXPECTED VS. OBSERVED INNOVATION PERFORMANCE

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

The positive relationship between innovation and development



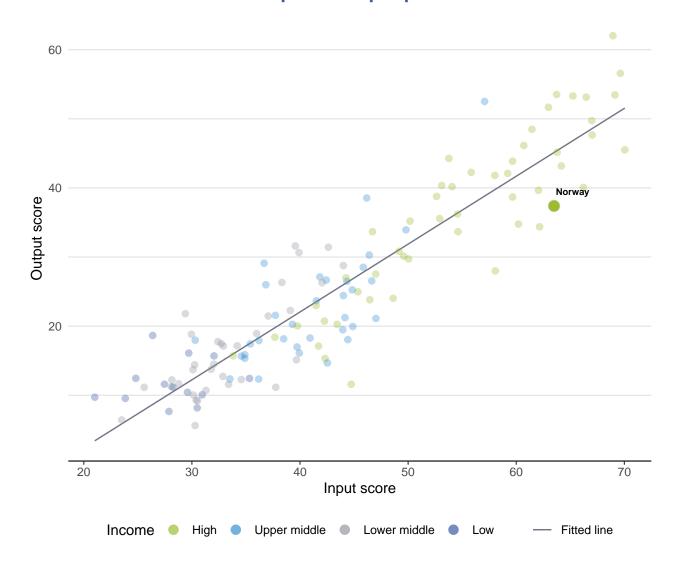




The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.

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

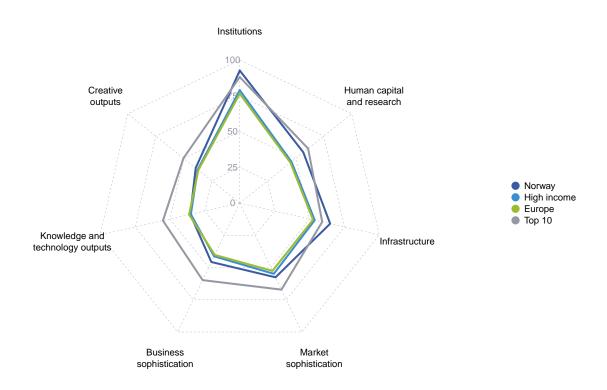
Innovation input to output performance





BENCHMARKING AGAINST OTHER HIGH-INCOME GROUP ECONOMIES AND EUROPE

The seven GII pillar scores for Norway



High-income group economies

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

Europe

Norway performs above the regional average in six pillars, namely: Institutions; Human capital and research; Infrastructure; Market sophistication; Business sophistication; and, Creative outputs.



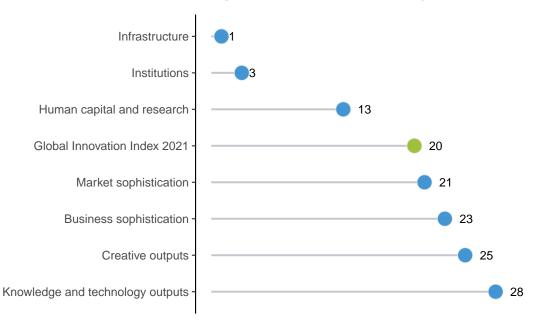




OVERVIEW OF RANKINGS IN THE SEVEN GII 2021 AREAS

Norway performs best in Infrastructure and its weakest performance is in Knowledge and technology outputs.

The seven GII pillar ranks for Norway



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





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

Strengths and weaknesses for Norway

Strengths			Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank	
1.1	Political environment	4	2.2.2	Graduates in science and engineering, %	62	
1.1.2	Government effectiveness	5	2.2.3	Tertiary inbound mobility, %	57	
1.2	Regulatory environment	3	4.1.1	Ease of getting credit	88	
1.2.1	Regulatory quality	7	5.3.1	Intellectual property payments, % total trade	69	
1.2.2	Rule of law	2	5.3.2	High-tech imports, % total trade	78	
1.3	Business environment	3	5.3.4	FDI net inflows, % GDP	106	
1.3.2	Ease of resolving insolvency	5	6.2.1	Labor productivity growth, %	72	
2.1	Education	3	7.1.1	Trademarks by origin/bn PPP\$ GDP	69	
2.1.1	Expenditure on education, % GDP	2	7.1.3	Industrial designs by origin/bn PPP\$ GDP	60	
3.1.2	ICT use	3	7.2.5	Creative goods exports, % total trade	63	
3.2	General infrastructure	3				
3.2.1	Electricity output, GWh/mn pop.	1				
5.1.1	Knowledge-intensive employment, %	5				
7.2.3	Entertainment and media market/th pop. 15–69	3				
7.3.3	Wikipedia edits/mn pop. 15-69	6				

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Norway

Output rank	Input rank	Income	Region	Popula	tion (mn	GDP, PPP\$ (bn)	GDP per capita, PPP\$	GII 20	20 ran
28	13	High	EUR	5	5.4	349.5	64,856	2	20
			Score/ Value	Rank				Score/ Value	Rank
institu	utions		92.6	3 • ♦	2	Business sophist	tication	45.7	23
.1 Politica	al environment		91.1	4 •		Knowledge workers		57.6	21
	and operational	stability*	89.3	6	5.1.1	Knowledge-intensive		51.7	5 ●
.1.2 Govern	ment effectivenes	s*	92.0	5 ●		Firms offering formal to		n/a	n/a
-	tory environmen	nt	96.8 90.7	3 ●		GERD performed by b GERD financed by bus		1.1 42.0	19 39
.2.1 Regulat .2.2 Rule of	ory quality* law*		99.0	F1 F Females employed w/odyspeed degrees 0/				25.9	12
.2.3 Cost of	redundancy dism	issal	8.7	18		Innovation linkages	42.6	20	
	ss environment		89.9	3 ●		University-industry R& State of cluster develo			20 15
	starting a busines resolving insolver		94.3 85.4	23 5 ●		GERD financed by abr		0.2	27
.o.c	rocolving incolver	ioy	00.1	٠ ٠			alliance deals/bn PPP\$ GDP	0.1	18
Huma	n capital and	research	56.8	13		Patent families/bn PPF	•	2.1	17
	•					Knowledge absorption	on ayments, % total trade	36.9 0.5	35 69 C
	ion iture on educatior	ո, % GDP	75.3 7.9	3 • ♦	5.3.2	High-tech imports, %	total trade	7.0	78 C
.1.2 Governi	ment funding/pupi	l, secondary, % GDP/cap	26.1	14 ♦		ICT services imports, 1		3.2	7
	life expectancy, ye		18.1 496.9	12 22		FDI net inflows, % GDI Research talent, % in I		1.1 48.9	106 C
	ales in reading, m acher ratio, secor		Ø 8.5	22 16 ◆		,,,,			
•	y education	•	39.7	42	اميم	Knowledge and	technology outputs	35.4	28
2.1 Tertiary	enrolment, % gro		83.0	16	61	Knowledge erection		46.7	17
	tes in science and		21.8	62 () 57 ()		Knowledge creation Patents by origin/bn P	PP\$ GDP	46.7	20
	inbound mobility,		4.2 55.5	19		PCT patents by origin/	· · · · · · · · · · · · · · · · · · ·	2.0	18
	ch and developn chers, FTE/mn po		6,673.7	6		Utility models by origin	n/bn PPP\$ GDP al articles/bn PPP\$ GDP	n/a 45.4	n/a 12
	xpenditure on R&		2.1	16		Citable documents H-		41.7	20
	corporate R&D inv ersity ranking, top	vestors, top 3, mn US\$	56.1 42.9	24 28	6.2	Knowledge impact		39.5	25
.o.+ Qo univ	croity railiting, top	30	72.0	20		Labor productivity gro		-0.2	72 (
ద్ద ^ధ Infras	tructure		64.8	1•+		New businesses/th po Software spending, %		8.6 0.5	19 18
						ISO 9001 quality certif		7.8	35
.1 Informa .1.1 ICT acc		cation technologies (ICTs	86.0 76.3	18 45 ♦	6.2.5	High-tech manufacturi	ng, %	32.9	38
.1.2 ICT use			89.3	3 ● ♦		Knowledge diffusion		20.1	54
	ment's online serv	vice*	87.6 90.5	19 18		Intellectual property re Production and export		0.3 54.0	31 43
.1.4 E-partic	ipation		90.5 61.2	3 • ◆	6.3.3	High-tech exports, %	total trade	3.2	46
	ity output, GWh/n	nn pop.	27,518.4	1 • •	6.3.4	ICT services exports, 9	% total trade	1.8	62
	s performance*		76.6	21	Q1	Cupativa autouta		20.2	05
	apital formation,		26.7	34	60	Creative outputs		39.3	25
	ical sustainabilit iit of energy use	ty	47.2 13.9	20 33		Intangible assets	DDD4 0.DD	37.4	45
	mental performan	nce*	77.7	9		Trademarks by origin/l Global brand value, to		33.2 73.2	69 (27
.3.3 ISO 140	01 environmental o	certificates/bn PPP\$ GDF	4.1	22		Industrial designs by o		1.3	60 C
مند					7.1.4	ICTs and organizationa	al model creation†	77.4	10
Marke	et sophisticat	ion	57.6	21		Creative goods and s		27.1	32
.1 Credit			59.2	16		Cultural and creative se National feature films/i	rvices exports, % total trade nn pop. 15–69	0.5 10.1	50 19
	getting credit*	t 0/ CDD	55.0	88 🔾			dia market/th pop. 15-69	82.8	3 €
	ic credit to private ance gross loans		151.4 n/a	9 n/a		Printing and other med		1.1	45
.2 Investn	=	, , , dbi	37.1	42		Creative goods export	s, 70 total trade	0.5	63 C
	protecting minori	ty investors*	76.0	21		Online creativity Generic top-level dom	ains (TLDs)/th pop. 15-69	55.5 50.6	15 15
.2.2 Market	capitalization, %	GDP .	69.0	23		Country-code TLDs/th		63.0	13
		deals/bn PPP\$ GDP , deals/bn PPP\$ GDP	0.1 0.0	21 34		Wikipedia edits/mn po		84.3	6 €
		ind market scale	76.5	40	7.3.4	Mobile app creation/b	II アイドֆ GDP	19.5	28
•	tariff rate, weight		2.6	59					
.3.2 Domest	tic industry diversi	ification	90.6	48					
	tic market scale, b		349.5	49					

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 Norway.

Missing data for Norway

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

Outdated data for Norway

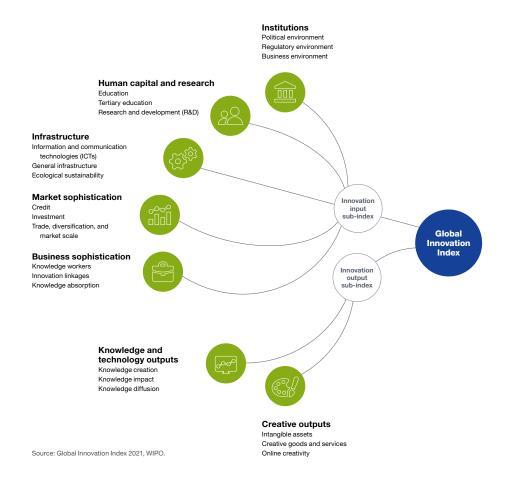
Code	Indicator name	Economy year	Model year	Source
2.1.5	Pupil-teacher ratio, secondary	2018	2019	UNESCO Institute for Statistics
5.2.1	University-industry R&D collaboration	2018	2020	World Economic Forum
5.2.2	State of cluster development and depth	2018	2020	World Economic Forum





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.