



AUSTRIA

18th Austria ranks 18th 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 Austria 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 Austria in the GII 2021 is between ranks 17 and 19.

	GII	Innovation inputs	Innovation outputs
2021	18	16	24
2020	19	18	23
2019	21	19	25

Rankings for Austria (2019–2021)

- Austria performs better in innovation inputs than innovation outputs in 2021.
- This year Austria ranks 16th in innovation inputs, higher than both 2020 and 2019.
- As for innovation outputs, Austria ranks 24th. This position is lower than last year but higher than 2019.

17th Austria ranks 17th among the 51 high-income group economies.

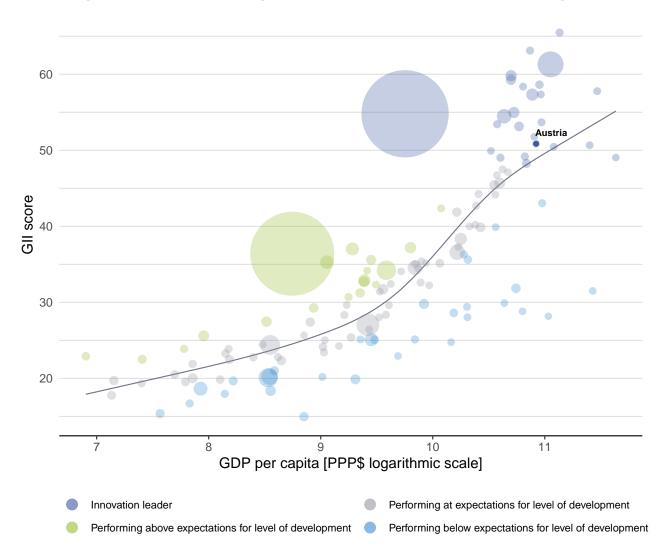
10th Austria ranks 10th among the 39 economies in Europe.



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



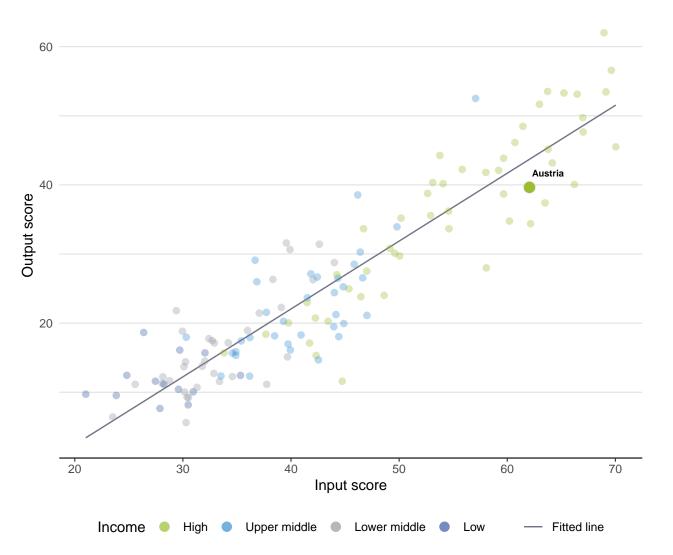
The positive relationship between innovation and development



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.

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

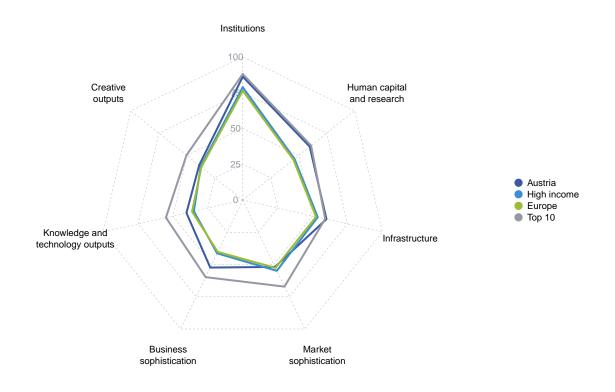


Innovation input to output performance



BENCHMARKING AGAINST OTHER HIGH-INCOME GROUP ECONOMIES AND EUROPE

The seven GII pillar scores for Austria



High-income group economies

Austria performs above the high-income group average in six pillars, namely: Institutions; Human capital and research; Infrastructure; Business sophistication; Knowledge and technology outputs; and, Creative outputs.

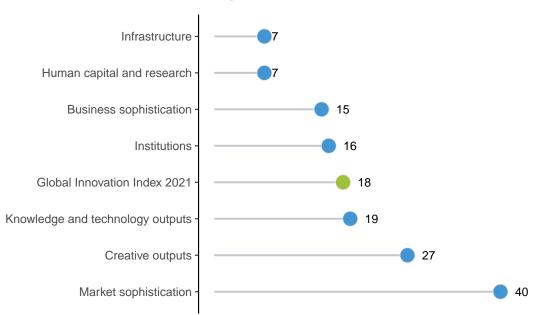
Europe

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



OVERVIEW OF RANKINGS IN THE SEVEN GII 2021 AREAS

Austria performs best in Human capital and research and Infrastructure and its weakest performance is in Market sophistication.



The seven GII pillar ranks for Austria

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 Austria in the GII 2021.

Strengths and weaknesses for Austria

Strengths				Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank		
1.2	Regulatory environment	6	1.3.1	Ease of starting a business	98		
1.2.2	Rule of law	7	4.1.1	Ease of getting credit	88		
1.2.3	Cost of redudancy dismissal	1	4.2	Investment	71		
2.2	Tertiary education	4	4.2.2	Market capitalization, % GDP	46		
2.3.1	Researchers, FTE/mn pop.	8	4.2.4	Venture capital recipients, deals/bn PPP\$ GDP	41		
2.3.2	Gross expenditure on R&D, % GDP	5	5.3.2	High-tech imports, % total trade	61		
3.1.3	Government's online service	7	5.3.4	FDI net inflows, % GDP	126		
3.1.4	E-participation	6	6.1.3	Utility models by origin/bn PPP\$ GDP	34		
3.2.2	Logistics performance	4	6.2.1	Labor productivity growth, %	91		
3.3.2	Environmental performance	6	6.2.2	New businesses/th pop. 15–64	91		
4.3.2	Domestic industry diversification	5	7.2.4	Printing and other media, % manufacturing	52		
5.2.3	GERD financed by abroad, % GDP	4					
6.3.2	Production and export complexity	6					

Austria



2		Input rank 16	High	Region EUR		.0	GDP, PPP\$ (bn) 493.2	GDP per capita, PPP\$ 55,406	GII 20	19
				Score/ Value	Rank				Score/ Value	Rank
<u> </u>	Institu	tions		86.2	16	🚔 E	Business sophist	ication	52.3	15
.1 1	Political	environment		83.8	17	5.1 H	Knowledge workers		60.4	17
		and operational s		83.9	13		Knowledge-intensive e		42.0	24
		ent effectiveness		83.8	16		Firms offering formal to GERD performed by b	•	n/a 2.2	n/a 7
		ory environment ry quality*	t i	94.5 81.6	6● 17		GERD financed by bus		53.6	22
	Rule of la			96.3	7 •	5.1.5 F	emales employed w/a	advanced degrees, %	17.7	37
2.3 (Cost of r	edundancy dismi	ssal	8.0	1●♦		nnovation linkages		54.7	11
		s environment		80.3	32		Jniversity-industry R& State of cluster develo		62.7 65.0	17 14
		tarting a busines esolving insolven		83.2 77.4	98 ⊖		GERD financed by abr		0.5	4
0.2 1	Lase of i	esolving insolven	Cy	11.4	21			alliance deals/bn PPP\$ GDP	0.0	43
•	Humar	capital and	research	59.9	7•		Patent families/bn PPF		3.8	11
		-					Knowledge absorption		41.9 0.8	25 47
	Educatio			62.5	19		ligh-tech imports, %	ayments, % total trade total trade	0.8 7.8	47 61
		ure on education ent fundina/pupil.	, % GDP , secondary, % GDP/ca	5.4 27.1	26 12 ♦	5.3.3 I	CT services imports,	% total trade	2.7	13
		fe expectancy, ye		16.1	35		DI net inflows, % GDI		-1.6	126
		les in reading, ma		491.0	27	5.3.5 F	Research talent, % in I	DUSINESSES	63.0	7
	-	cher ratio, secon	dary	Ø 9.3	22 🔶	ا مهم	(nowledge and	technology outputs	40.3	19
	-	education enrolment, % gros	ee	58.8 86.7	4 ● ♦ 14		Allowledge allo	technology outputs	40.5	19
		es in science and		31.0	14 🔶		Knowledge creation		46.5	18
2.3	Tertiary i	nbound mobility,	%	17.5	10		Patents by origin/bn Pl		8.5 3.1	12 11
		h and developm		58.3	16		PCT patents by origin/ Jtility models by origin		0.6	34
		ners, FTE/mn pop		5,868.6	8 •			l articles/bn PPP\$ GDP	37.1	24
		penditure on R&I proorate R&D inve	estors, top 3, mn US\$	3.2 55.5	5 ● 25	6.1.5 C	Citable documents H-i	ndex	44.1	18
		rsity ranking, top		43.5	25		Knowledge impact		38.5	29
							_abor productivity gro New businesses/th po		–1.3 0.6	91 91
₽ ¢ I	Infrast	ructure		60.0	7 •		Software spending, %		0.5	16
.1 1	nformati	onandcommunic	ation technologies (ICTs) 89.5	11		SO 9001 quality certif		6.5	43
	CT acce		adonteoninologicoport	87.3	14		ligh-tech manufacturi	•	45.4	16
	CT use*			78.2	26		Knowledge diffusion ntellectual property re		36.0 0.6	26 25
	Governm E-partici	ent's online servi	ice*	94.7 97.6	7 ● 6 ●		Production and export		85.7	6
		infrastructure		46.8	14		ligh-tech exports, %		6.7	26
		y output, GWh/m	n pop.	7,979.3	23	6.3.4 I	CT services exports, 9	% total trade	3.3	26
		performance*		91.9	4 •	ØI			20.0	07
		pital formation, 9		26.2	38	1	Creative outputs		39.0	27
		cal sustainability of energy use	/	43.8 14.2	26 30		ntangible assets		41.1	38
		ental performant	ce*	79.6	30 6●		Trademarks by origin/b Global brand value, top		53.7 52.6	41
			ertificates/bn PPP\$ GDF		40		ndustrial designs by o			35 17
							CTs and organizationa		64.9	29
ĩ I	Marke	t sophisticati	on	51.9	40 💠	7.2 0	Creative goods and s	ervices	26.2	34
	Credit			44.9	50			rvices exports, % total trade	1.2	23
		etting credit*		55.0	88 O		National feature films/r	nn pop. 15–69 dia market/th pop. 15–69	7.0 61.8	30 7
1.2	Domesti	c credit to private	,	85.8	35		Printing and other med		1.0	52
		ince gross loans,	% GDP	n/a	n/a	7.2.5 0	Creative goods export	s, % total trade	0.9	48
	Investm Fase of r	ent protecting minorit	v investors*	28.5 70.0	71 ⊖		Online creativity	-1 (TI D-)///	47.3	24
		apitalization, % G		70.0 30.6	30 46 ⊖ ♢		Generic top-level dom Country-code TLDs/th	ains (TLDs)/th pop. 15–69	35.5 63.3	19 11
2.3	Venture o	apital investors,	deals/bn PPP\$ GDP	0.1	28 💠		Vikipedia edits/mn po		63.3 73.8	26
.2.4 \	Venture o	apital recipients,	deals/bn PPP\$ GDP	0.0	41 ⊖ ♢		Nobile app creation/b		13.4	40
			nd market scale	82.2	22					
	•••	ariff rate, weighte c industry diversif		1.8 ② 99.2	25 5 ●					
	Domocti									

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 Austria.

Missing data for Austria

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

Outdated data for Austria

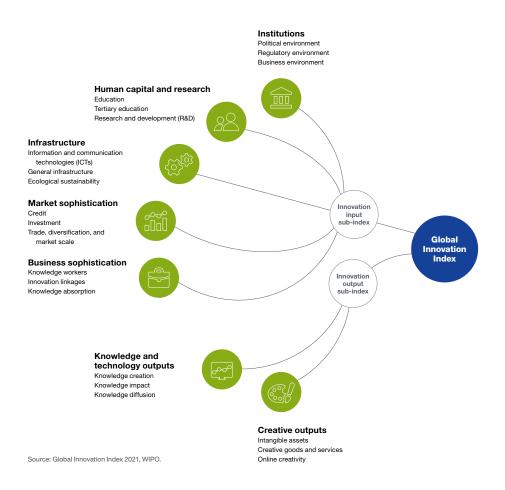
Code	Indicator name	Economy year	Model year	Source
2.1.5	Pupil-teacher ratio, secondary	2017	2019	UNESCO Institute for Statistics
4.3.2	Domestic industry diversification	2017	2018	United Nations Industrial Development Organization
7.1.3	Industrial designs by origin/bn PPP\$ GDP	2016	2019	World Intellectual Property Organization



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.