GLOBAL INNOVATION INDEX 2020



CHILE

54th Chile ranks 54th among the 131 economies featured in the GII 2020.

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 Chile 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 Chile in the GII 2020 is between ranks 53 and 60.

	GII	Innovation inputs	Innovation outputs
2020	54	41	66
2019	51	43	62
2018	47	45	53

Rankings of Chile (2018–2020)

- Chile performs better in innovation inputs than innovation outputs in 2020.
- This year Chile ranks 41st in innovation inputs, higher than last year and higher compared to 2018.
- As for innovation outputs, Chile ranks 66th. This position is lower than last year and lower compared to 2018.



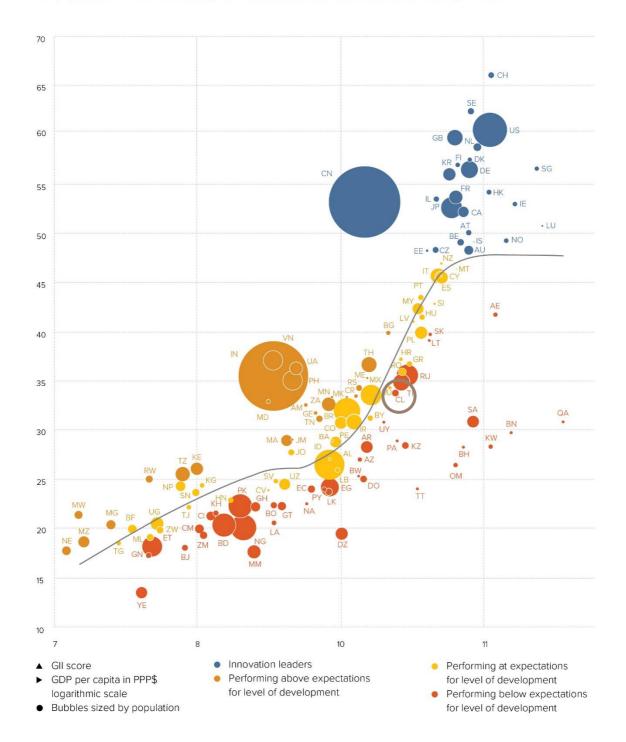
Chile ranks 1st among the 18 economies in Latin America and the Caribbean.



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, Chile is performing below expectations for its level of development.



The positive relationship between innovation and development



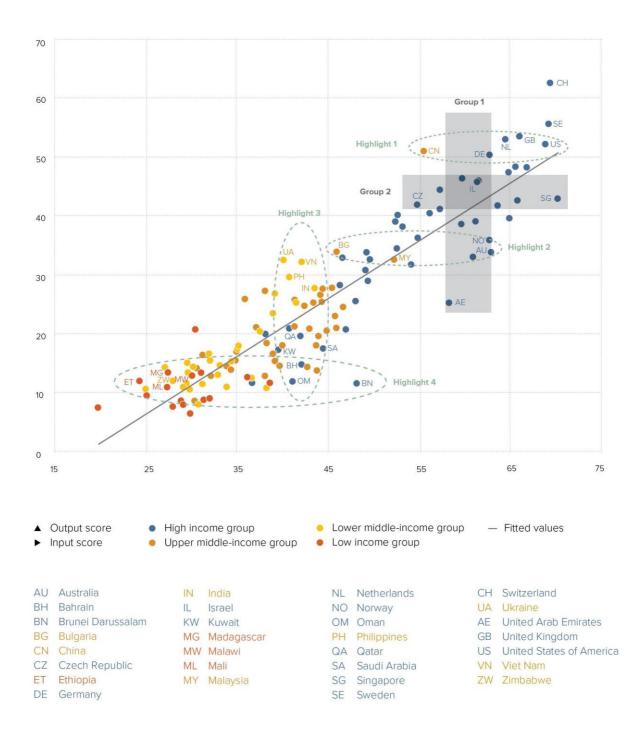


EFFECTIVELY TRANSLATING INNOVATION INVESTMENTS INTO INNOVATION OUTPUTS

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.

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

Innovation input to output performance, 2020

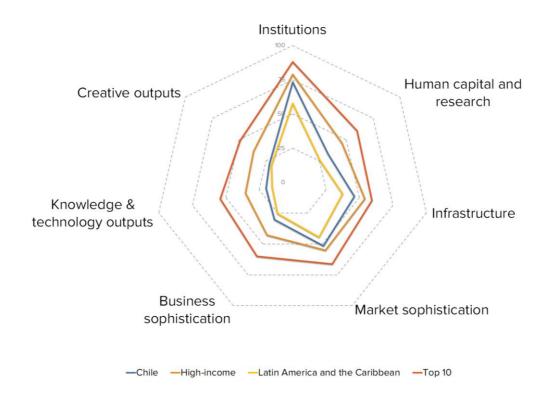






BENCHMARKING CHILE AGAINST OTHER HIGH-INCOME GROUP ECONOMIES AND LATIN AMERICA AND THE CARIBBEAN

Chile's scores in the seven GII pillars



High-income group economies

Chile scores below average for its income group in all seven of the GII pillars.

Latin America and the Caribbean

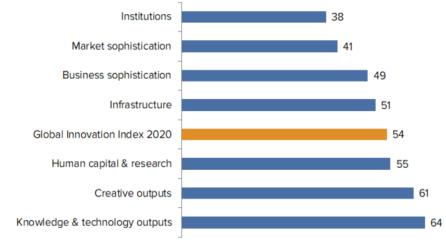
Compared to other economies in Latin America and the Caribbean, Chile performs above average in all seven of the GII pillars.



Gil 2020

OVERVIEW OF CHILE RANKINGS IN THE SEVEN GII AREAS

Chile performs best in Institutions and its weakest performance is in Knowledge & technology outputs.



*The highest possible ranking in each pillar is 1.

INNOVATION STRENGTHS AND WEAKNESSES

The table below gives an overview of the strengths and weaknesses of Chile in the GII 2020.

Strengths				Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank		
1.2.1	Regulatory quality*	20	1.2.3	Cost of redundancy dismissal, salary weeks	109		
1.2.2	Rule of law*	25	2.1.5	Pupil-teacher ratio, secondary	89		
2.1.3	School life expectancy, years	24	2.2.3	Tertiary inbound mobility, %	102		
2.2.1	Tertiary enrolment, % gross	6	2.3.3	Global R&D companies, top 3, mn US\$	42		
4.1.2	Domestic credit to private sector, % GDP	19	4.1.1	Ease of getting credit*	88		
4.2.2	Market capitalization, % GDP	15	4.2.3	Venture capital deals/bn PPP\$ GDP	65		
4.3	Trade, competition, and market scale	23	5.3.3	ICT services imports, % total trade	95		
4.3.1	Applied tariff rate, weighted avg., %	5	6.3	Knowledge diffusion	98		
5.1.2	Firms offering formal training, %	8	6.3.3	ICT services exports, % total trade	100		
5.3.1	Intellectual property payments, % total trade	12	7.1.3	Industrial designs by origin/bn PPP\$ GDP	109		
6.2.2	New businesses/th pop. 15–64	12	7.2.4	Printing & other media, % manufacturing	79		





STRENGTHS

Gll strengths for Chile are found in five of the seven Gll pillars.

- Institutions (38): exhibits strengths in the indicators Regulatory quality (20) and Rule of law (25).
- Human capital & research (55): shows strengths in the indicators School life expectancy (24) and Tertiary enrolment (6).
- Market sophistication (41): demonstrates strengths in the sub-pillar Trade, competition, and market scale (23) and in the indicators Domestic credit to private sector (19), Market capitalization (15) and Applied tariff rate (5).
- Business sophistication (49): displays strengths in the indicators Firms offering formal training (8) and Intellectual property payments (12).
- Knowledge & technology outputs (64): the indicator New businesses (12) is a strength.

WEAKNESSES

GII weaknesses for Chile are found in six of the seven GII pillars.

- Institutions (38): the indicator Cost of redundancy dismissal (109) demonstrates a weakness.
- Human capital & research (55): shows weaknesses in the indicators Pupil-teacher ratio (89), Tertiary inbound mobility (102) and Global R&D companies (42).
- Market sophistication (41): exhibits weaknesses in the indicators Ease of getting credit (88) and Venture capital deals (65).
- Business sophistication (49): the indicator ICT services imports (95) reveals a weakness.
- Knowledge & technology outputs (64): displays weaknesses in the sub-pillar Knowledge diffusion (98) and in the indicator ICT services exports (100).
- Creative outputs (61): exhibits weaknesses in the indicators Industrial designs by origin (109) and Printing & other media (79).

CHILE

GII 2020 rank



Outp	out rank	Input rank	Income	Regior	1	Рор	oulation (mn) GDP, PPP\$	GDP per capita, PPP\$	GII 2	2019 r	dŊ
	66	41	High	LCN			19.0	502.8	22,975.6		51	
			Score	e/Value	Rank				Sc	ore/Value	Rank	
1	INSTITU	JTIONS		73.3	38			BUSINESS SOPHIS	TICATION	30.4	49	
.1	Political	environment		75.2	34		5.1	Knowledge workers		37.1	54	
1.1			ability*	76.8	43		5.1.1		employment, %	26.4	55	
1.2			*	74.4	29		5.1.2		aining, %	57.5	8	
							5.1.3		usiness, % GDP	0.1	57	
.2					50		5.1.4		iness, %	31.4	55	
2.1					20		5.1.5	Females employed w/a	advanced degrees, %	8.8	76	
2.2					25					47 4	00	
2.3	Cost of re	edundancy dismis	sal, salary weeks	27.4	109	0 \$	5.2 5.2.1		earch collaboration+	17.4 41.2	92 66	
.3	Rusiness	environment		75.7	46		5.2.2		pment+	45.6	75	
.3.1			;* 	91.4	50		5.2.3		oad, % GDP	0.0	68	
3.2			су*		48		5.2.4		eals/bn PPP\$ GDP	0.0	72	
							5.2.5	Patent families 2+ offic	es/bn PPP\$ GDP	0.2	44	
-	HUMAN	CAPITAL & R	ESEARCH	33.1	55	\$	5.3	Knowledge absorptio	n	36.7	37	
100000							5.3.1	Intellectual property pa	ayments, % total trade	2.1	12	1
.1			~		61		5.3.2		otal trade	8.5	53	
.1.1			% GDP. [©]	5.4	28		5.3.3		6 total trade	0.7	95	2
.1.2			econdary, % GDP/cap		56		5.3.4			3.0	54	
.1.3			ars ths, & science	16.4	24 46	•	5.3.5	Research talent, % in b	ousiness enterprise	29.0	43	
.1.4 .1.5			lary.	437.0	46 89	00	_					
	r upii teu		, ci y	10.1	00	0.		KNOWLEDGE & TEC	HNOLOGY OUTPUTS	19.9	64	
2.2				38.0	50							
.2.1			S		6	•	6.1				57	
.2.2			gineering, %	20.5 0.4	71 102	0 \$	6.1.1		PP\$ GDP	0.8 0.5	69 34	
2.3	reitidiyi	noound mobility, :	%	0.4	102	00	6.1.2 6.1.3		bn PPP\$ GDP h/bn PPP\$ GDP		43	
2.3	Research	a & development	(R&D)	13.4	50	\diamond	6.1.4		rticles/bn PPP\$ GDP		38	
2.3.1			0		68	\diamond	6.1.5		ndex		37	
2.3.2	Gross ex	penditure on R&D), % GDP [@]	0.4	75	\diamond						
2.3.3			exp. top 3, mn \$US	0.0		00	6.2				52	
.3.4	QS unive	rsity ranking, ave	rage score top 3*	40.9	32		6.2.1		DP/worker, %		74	
							6.2.2		p. 15-64		12	(
		TRUCTURE					6.2.3 6.2.4		ending, % GDP		44 34	
							6.2.5		cates/bn PPP\$ GDP h-tech manufacturing, %	7.6 21.4	53	
3.1			on technologies (ICTs)		43						0.20070	
3.1.1					55	\diamond	6.3			14.6	98	(
3.1.2					47	\diamond	6.3.1		ceipts, % total trade	0.1 0.8	65 71	
3.1.3 3.1.4			ce*		37 46		6.3.2 6.3.3		% total trade 6 total trade	0.8	100	1
	E-particip			02.0	40		6.3.4		P	1.8	41	
3.2					53							
3.2.1			pop4		50		100			24.6	64	
3.2.2 3.2.3			GDP		33 68		- Â	CREATIVE OUTPU	TS	21.6	61	
.2.0	01055 60	pital formation, so	001	20.2	00		7.1	Intangible assets		29.6	53	
3.3	Ecologic	al sustainability		33.3	52		7.1.1		on PPP\$ GDP		29	
3.3.1	GDP/unit	of energy use		10.2	52		7.1.2		p 5,000, % GDP		37	
3.3.2			e*		42		7.1.3	Industrial designs by o	rigin/bn PPP\$ GDP	0.1	109	(
3.3.3	ISO 14001	environmental cer	tificates/bn PPP\$ GDP	1.8	50		7.1.4	ICTs & organizational r	nodel creation+	57.8	54	
							7.2	Creative goods and s	ervices	8.1	88	
. d	MARKE	T SOPHISTICA	TION	51.7	41		7.2.1	Cultural & creative servi	ces exports, % total trade	0.3	64	
				45.4			7.2.2		mn pop. 15-69	3.7	51	
.1					52	0	7.2.3		a market/th pop. 15-69	14.5	32	
.1.1			sector, % GDP		88 19		7.2.4 7.2.5		dia, % manufacturing	0.7	79	
.1.2			% GDP		26	•	1.2.0	Creative goods expon	ts, % total trade	0.1	88	
							7.3			19.2	56	
1.2					68		7.3.1		ins (TLDs)/th pop. 15-69	2.0	77	
1.2.1			/ investors*		50		7.3.2		pop. 15-69	13.2	36	
1.2.2			PP PP\$ GDP	91.7	15		7.3.3		p. 15-69		51	
.2.3	venture	capital deals/DITP	тт Ф GDF	0.0	65	0	7.3.4	woolle app creation/bi	n PPP\$ GDP	2.2	64	
1.3	Trade, co	ompetition, and r	narket scale	73.5	23	•						
.3.1			d avg., %									
1.3.2			on+		30							
1.3.3	Domostic	market scale hn	PPP\$	502.8	41							

NOTES:
Indicates a strength;
A weakness;
Indicates a strength;
A weakness;
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 either missing or outdated for Chile.

Missing data

Chile has complete data coverage in the GII 2020.

Outdated data

Code	Indicator name	Country year	Model year	Source
2.1.1	Expenditure on education, % GDP	2017	2018	UNESCO Institute for Statistics
2.1.5	Pupil–teacher ratio, secondary	2017	2018	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	2017	2018	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators
2.3.2	Gross expenditure on R&D, % GDP	2017	2018	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators
5.1.2	Firms offering formal training, %	2009	2018	World Bank
5.1.3	GERD performed by business, % GDP	2017	2018	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators
5.3.5	Research talent, % in business enterprise	2017	2018	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators

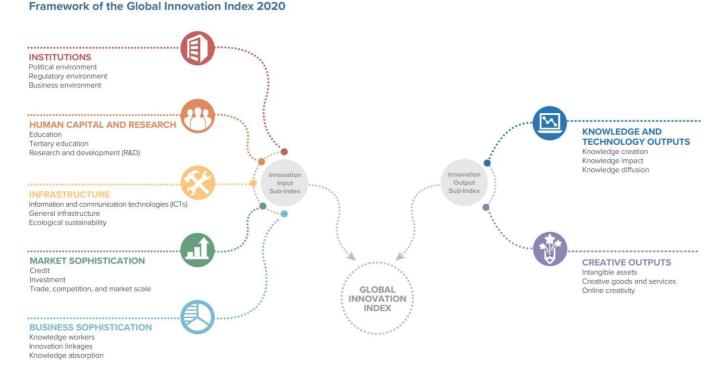




ABOUT THE GLOBAL INNOVATION INDEX

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 2020, the GII presents its 13th edition devoted to the theme *Who Will Finance Innovation?*

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.





