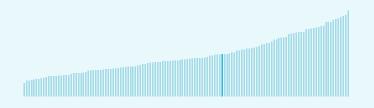


The Global Innovation Index (GII) ranks world economies according to their innovation capabilities.

Consisting of **roughly 80 indicators**, grouped into innovation inputs and outputs, the GII **aims to capture the multi-dimensional facets of innovation**.

Chile ranking in the Global Innovation Index 2023

Chile ranks 52nd among the 132 economies featured in the GII 2023.



> Chile ranks 43rd among the 50 highincome group economies.



> Chile ranks 2nd among the 19 economies in Latin America and the Caribbean.



> Chile GII Ranking (2020-2023)

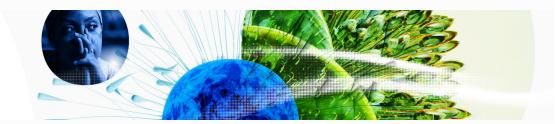
The table shows the rankings of Chile over the past four years. Data availability and changes to the GII model framework influence year-on-year comparisons of the GII rankings. The statistical confidence interval for the ranking of Chile in the GII 2023 is between ranks 49 and 53.

	GII Position	Innovation Inputs	Innovation Outputs
2020	54th	41st	66th
2021	53rd	44th	61st
2022	50th	43rd	57th
2023	52nd	48th	56th

Chile performs worse in innovation outputs than innovation inputs in 2023.

This year Chile ranks 48th in innovation inputs. This position is lower than last year.

Chile ranks 56th in innovation outputs.
This position is higher than last year.



→ 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's performance is at expectations for its level of development.

> Innovation overperformers relative to their economic development ↑ GII Score Innovation leader Performing above expectations for level of development Performing at expectations for level of development Performing below expectations for level of 30 development Size legend (Population) 0 0.8 0.9 1 →GDP per capita, PPP logarithmic scale (thousands of \$)

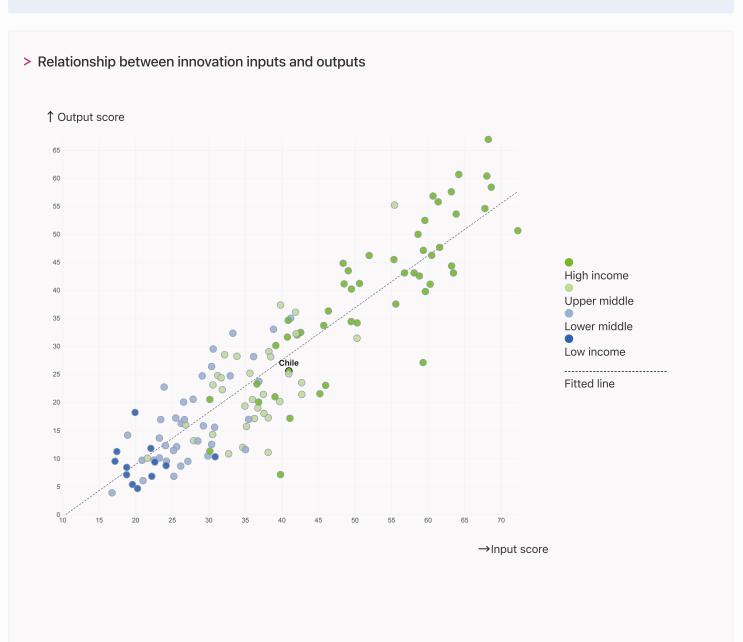


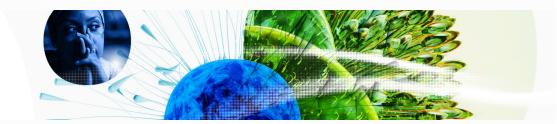
→ Effectively translating innovation investments into innovation outputs

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.



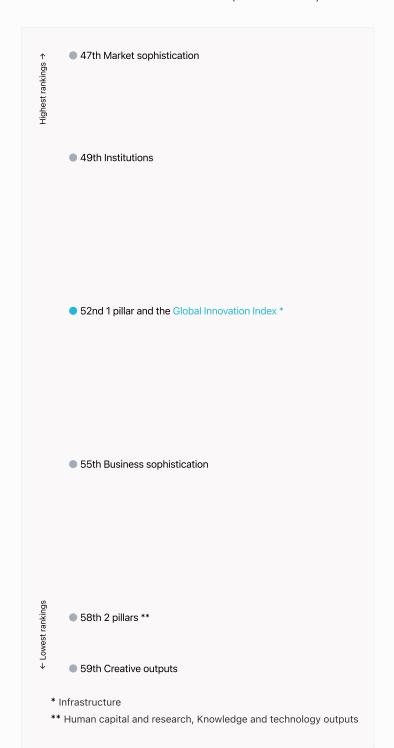
> Chile produces less innovation outputs relative to its level of innovation investments.





→ Overview of Chile's rankings in the seven areas of the GII in 2023

The chart shows the ranking for each of the seven areas that the GII comprises. The strongest areas for Chile are those that rank above the GII (shown in blue) and the weakest are those that rank below.



> Highest rankings



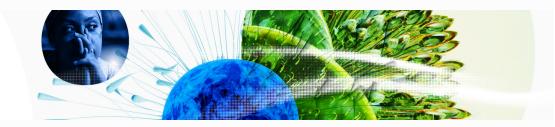
Chile ranks highest in Market sophistication (47th), Institutions (49th) and Infrastructure (52nd).

> Lowest rankings



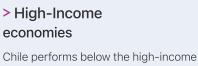
Chile ranks lowest in Creative outputs (59th), Human capital and research, Knowledge and technology outputs (58th) and Business sophistication (55th).

The full WIPO Intellectual Property Statistics profile for Chile can be found on this link.



→ Benchmark of Chile against other country groupings for each of the seven areas of the GII Index

The charts shows the relative position of Chile (blue bar) against other country groupings (grey bars), for each of the seven areas of the GII Index.



Chile performs below the high-income group average in all the pillars.



Chile performs above the regional average in all the pillars.

Knowledge and technology outputs

Top 10 | Score: 58.96

High income | Score: 38.62

Chile | Score: 24.31

LCN | Score: 17.14

Creative outputs

Top 10 | 56.09

High income | 40.27

Chile | 26.84

LCN | 18.91

Business sophistication

Top 10 | 64.39

High income | 46.38

Chile | 29.81

LCN | 26.15

Market sophistication

Top 10 | 61.93

High income | 46.42

Chile | 38.94

LCN | 29.74

Human capital and research

Top 10 | 60.28

High income | 46.30

Chile | 33.04

LCN | 24.92

Infrastructure

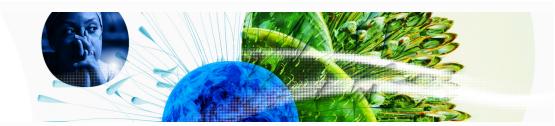
Top 10 | 62.83

High income | 55.85

Chile | 46.43

LCN | 35.88





→ Innovation strengths and weaknesses in Chile

The table below gives an overview of the indicator strengths and weaknesses of Chile in the GII 2023.



> Chile's main innovation strengths are **Applied tariff rate**, **weighted avg.**, % (rank 5), **Trademarks by origin/bn PPP\$ GDP** (rank 10) and **Tertiary enrolment**, % **gross** (rank 12).

Strengths Weaknesses

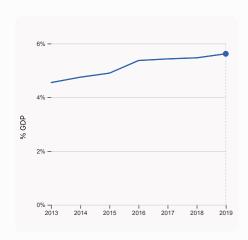
Rank	Code	Indicator name	Rank	Code	Indicator name
5	4.3.1	Applied tariff rate, weighted avg., %	115	7.1.4	Industrial designs by origin/bn PPP\$ GDP
10	7.1.2	Trademarks by origin/bn PPP\$ GDP	111	1.2.3	Cost of redundancy dismissal
12	2.2.1	Tertiary enrolment, % gross	99	6.3.4	ICT services exports, % total trade
14	5.3.1	Intellectual property payments, % total trade	90	2.1.5	Pupil-teacher ratio, secondary
19	4.1.2	Domestic credit to private sector, % GDP	87	2.2.3	Tertiary inbound mobility, %
21	6.2.3	Software spending, % GDP	80	4.3.2	Domestic industry diversification
22	2.1.1	Expenditure on education, % GDP	78	5.2.3	GERD financed by abroad, % GDP
24	2.1.3	School life expectancy, years	64	4.1.1	Finance for startups and scaleups
25	5.3.4	FDI net inflows, % GDP	60	7.1.1	Intangible asset intensity, top 15, %
30	3.1.3	Government's online service	40	2.3.3	Global corporate R&D investors, top 3, mn US\$

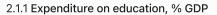


Chile's innovation system

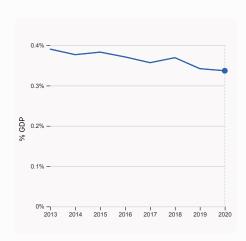
As far as practicable, the plots below present unscaled indicator data.

> Innovation inputs in Chile



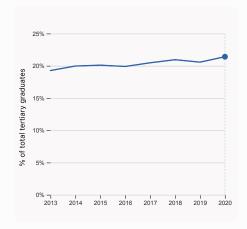


was equal to 5.62% GDP in 2019, up by 0.15 percentage points from the year prior – and equivalent to an indicator rank of 22.



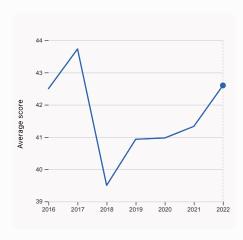
2.3.2 Gross expenditure on R&D, % GDP

was equal to 0.337% GDP in 2020, down by 0.0052 percentage points from the year prior – and equivalent to an indicator rank of 72.



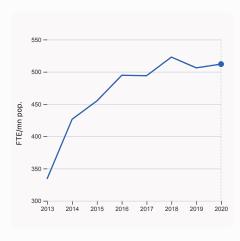
2.2.2 Graduates in science and engineering, %

was equal to 21.41% of total tertiary graduates in 2020, up by 0.84 percentage points from the year prior – and equivalent to an indicator rank of 63.



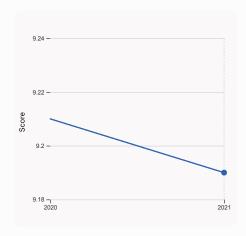
2.3.4 QS university ranking, top 3

was equal to an average score of 42.6 for the top 3 universities in 2022, up by 3.073% from the year prior – and equivalent to an indicator rank of 31.



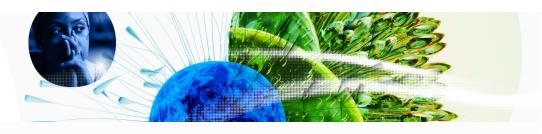
2.3.1 Researchers, FTE/mn pop.

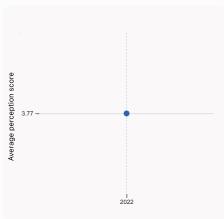
was equal to 511.96 FTE/mn pop. in 2020, up by 1.15% from the year prior – and equivalent to an indicator rank of 70.



3.1.1 ICT access

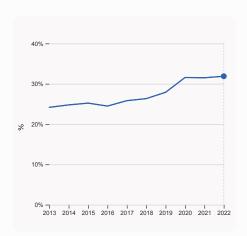
was equal to a score of 9.19 in 2021, down by 0.22% from the year prior – and equivalent to an indicator rank of 33.





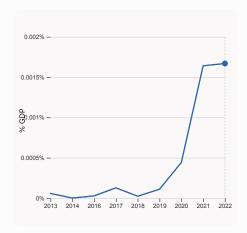


was equal to an average perception score of 3.77 in 2022, equivalent to an indicator rank of 64.



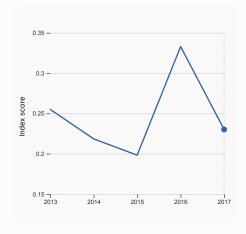
5.1.1 Knowledge-intensive employment, %

was equal to 31.88% in 2022, up by 0.38 percentage points from the year prior – and equivalent to an indicator rank of 48.



4.2.4 VC received, value, % GDP

was equal to 0.00167% GDP in 2022, up by 0.000029 percentage points from the year prior – and equivalent to an indicator rank of 44.

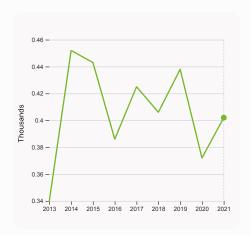


4.3.2 Domestic industry diversification

was equal to an index score of 0.23 in 2017, down by 30.87% from the year prior – and equivalent to an indicator rank of 80.

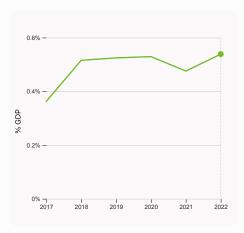


> Innovation outputs in Chile



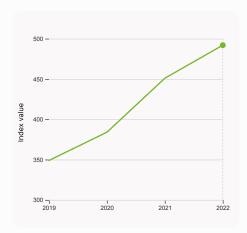
6.1.1 Patents by origin

was equal to 0.4 Thousands in 2021, up by 8.065% from the year prior – and equivalent to an indicator rank of 68.



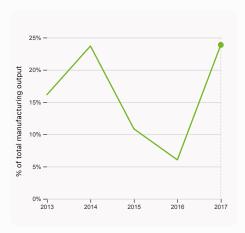
6.2.3 Software spending, % GDP

was equal to 0.539% GDP in 2022, up by 0.063 percentage points from the year prior – and equivalent to an indicator rank of 21.



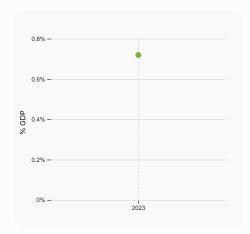
6.1.5 Citable documents H-index

was equal to an index value of 492 in 2022, up by 9.091% from the year prior – and equivalent to an indicator rank of 38.



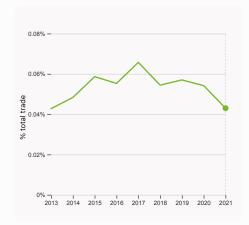
6.2.4 High-tech manufacturing, %

was equal to 23.87% of total manufacturing output in 2017, up by 17.83 percentage points from the year prior – and equivalent to an indicator rank of 55.



6.2.2 Unicorn valuation, % GDP

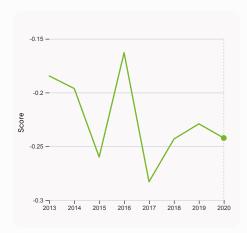
was equal to 0.719 % GDP in 2023 – and equivalent to an indicator rank of 36.

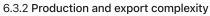


6.3.1 Intellectual property receipts, % total trade

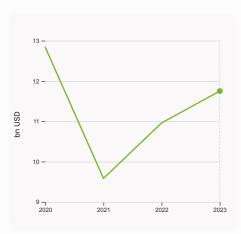
was equal to 0.043% total trade in 2021, down by 0.011 percentage points from the year prior – and equivalent to an indicator rank of 70.





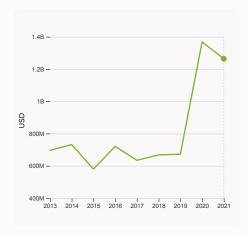


was equal to a score of -0.242 in 2020, down by 5.75% from the year prior – and equivalent to an indicator rank of 75.



7.1.3 Global brand value, top 5,000

was equal to 11.75 bn USD in 2023, up by 7.19% from the year prior – and equivalent to an indicator rank of 41.



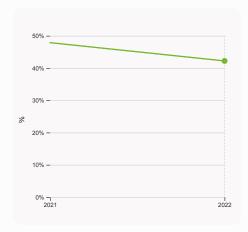
6.3.3 High-tech exports

was equal to 1,264,181,333 USD in 2021, down by 7.59% from the year prior – and equivalent to an indicator rank of 70.



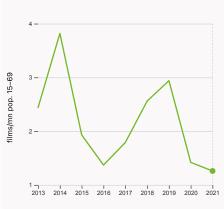
7.2.1 Cultural and creative services exports

was equal to 216,520,000 USD in 2021, up by 1.44% from the year prior – and equivalent to an indicator rank of 70.



7.1.1 Intangible asset intensity, top 15, %

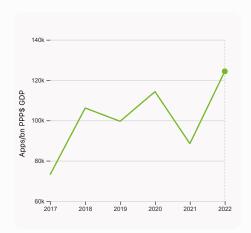
was equal to 42.22% in 2022, down by 5.66 percentage points from the year prior – and equivalent to an indicator rank of 60.



7.2.2 National feature films/mn pop. 15-69

was equal to 1.26 films/mn pop. 15–69 in 2021, down by 11.27% from the year prior – and equivalent to an indicator rank of 57.





7.3.4 Mobile app creation/bn PPP\$ GDP

was equal to 124,357.9 Apps/bn PPP\$ GDP in 2022, up by 40.52% from the year prior – and equivalent to an indicator rank of 71.



→ Chile's innovation top performers

> 2.3.4 QS university ranking of Chile's top universities

Rank	University	Score
121	PONTIFICIA UNIVERSIDAD CATOLICA DE CHILE (UC)	54.90
167	UNIVERSIDAD DE CHILE	47.50
465	UNIVERSIDAD DE SANTIAGO DE CHILE (USACH)	25.40

Source: QS Quacquarelli Symonds Ltd (https://www.topuniversities.com/university-rankings/world-university-rankings/2023).

Note: QS Quacquarelli Symonds Ltd annually assesses over 1,200 universities across the globe and scores them between [0,100]. Ranks can represent a single value "x", a tie "x=" or a range "x-y".

> 6.2.2 Top Unicorn Companies in Chile

Rank	Unicorn Company	Industry	ndustry City	
1	NOTCO	Consumer & retail	Santiago	2
2	BETTERFLY	Artificial intelligence	Santiago	1

Source: CBInsights, Tracker – The Complete List of Unicorn Companies: https://www.cbinsights.com/research-unicorn-companies

> 7.1.1 Top 15 intangible-asset intensive companies in Chile

Rank	Firm	Intensity, %
1	SOCIEDAD QUIMICA Y MINERA DE CHILE SA	88.11
2	ANTOFAGASTA PLC	32.62
3	BANCO DE CHILE	38.44

Source: Brand Finance (https://brandirectory.com/reports/gift-2022). Note: Brand Finance only provides within economy ranks.

> 7.1.3 Top 5,000 companies in Chile with highest global brand value

Rank	Brand	Industry	Brand Value, mn USD
1	EMPRESAS COPEC	Oil & Gas	1,481.5
2	BANCO DE CHILE	Banking	1,331.3
3	ENTEL	Telecoms	1,023.3

Source: Brand Finance (https://brandirectory.com). Note: Rank corresponds to within economy ranks.



GII 2023 rank

52

Chile

Output rank 56	Input rank 48	Income High	Regi		Population (mn)	GDP, PPP\$ (bn) 575.5	GDP per cap 28,88	
			Score / Value	Rank			Score / Value	Rank
			56.7	49	Business sophis	tication	29.8	55 ♦
1.1 Institutional er 1.1.1 Operational sta 1.1.2 Government e 1.2 Regulatory en 1.2.1 Regulatory qu 1.2.2 Rule of law* 1.2.3 Cost of redun 1.3 Business envir	ability for businesses* ffectiveness* vironment ality* dancy dismissal		56.5 59.0 54.0 64.1 66.8 66.5 27.4	43 48 43 62 ♦ 32 31 111 ○ ♦	5.1 Knowledge workers 5.1.1 Knowledge-intensiv 5.1.2 Firms offering form 5.1.3 GERD performed by 5.1.4 GERD financed by 5.1.5 Females employed 5.2 Innovation linkages 5.2.1 University-industry	ve employment, % nal training, % y business, % GDP business, % w/advanced degrees, % s	33.2 31.9 n/a ● 0.1 34.7 12.4 17.5 35.7	64
1.3.1 Policies for do			46.8 51.9	65 31	5.2.2 State of cluster de 5.2.3 GERD financed by	velopment [†] abroad, % GDP	37.8 0.0	80
2.1 Education 2.1.1 Expenditure of 2.1.2 Government f 2.1.3 School life expenditure of 2.1.3 School	reading, maths and science		33.0 52.8 6 5.6 19.9 16.6 437.8 17.7	58	5.2.5 Patent families/bn5.3 Knowledge absorp	tion ty payments, % total trade , % total trade rts, % total trade GDP	0.0 0.2 38.7 2.0 10.0 0.9 4.4	53 43 48 14 • 38 90 25 • 48
2.2 Tertiary educa 2.2.1 Tertiary enroli 2.2.2 Graduates in 2.2.3 Tertiary inbou 2.3 Research and 2.3.1 Researchers, 2.3.2 Gross expend	ation ment, % gross science and engineering, % and mobility, % development (R&D) FTE/mn pop. liture on R&D, % GDP rate R&D investors, top 3, mr	n US\$	32.7 91.7 21.4 1.1 13.6 \$ 512.0 \$ 0.3 0.0 43.2	59 12 ● 63 87 ○ ◇ 51 ◇ 70 ◇ 72 ◇ 40 ○ ◇ 31	 ✓ Knowledge and 6 6.1 Knowledge creation 6.1.1 Patents by origin/b 6.1.2 PCT patents by ori 6.1.3 Utility models by o 6.1.4 Scientific and tech 6.1.5 Citable documents 6.2 Knowledge impact 	n n PPP\$ GDP gin/bn PPP\$ GDP rigin/bn PPP\$ GDP nical articles/bn PPP\$ GDP H-index	24.3 16.6 0.8 0.3 0.2 n/a 25.0 38.6	58
3.1 Information an 3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's 3.1.4 E-participatio 3.2 General infras 3.2.1 Electricity out 3.2.2 Logistics perf 3.2.3 Gross capital	od communication technology online service* n* tructure put, GWh/mn pop. formance*	ogies (ICTs)	46.4 80.9 88.0 85.8 81.0 68.6 28.2 4,372.6 40.9 25.1	52	6.3.2 Production and ex 6.3.3 High-tech exports 6.3.4 ICT services expor 6.3.5 ISO 9001 quality/b	% GDP g, % GDP cturing, % on ty receipts, % total trade port complexity g, % total trade cts, % total trade n PPP\$ GDP	1.9 0.7 0.5 3. 9 17.7 0.1 47.4 1.3 0.6 5.5	37 36 21 ● 55 84 ⋄ 70 75 ⋄ 70 ⋄ 99 ○ 52
3.3 Ecological sus 3.3.1 GDP/unit of er 3.3.2 Environmenta 3.3.3 ISO 14001 en	nergy use al performance* vironment/bn PPP\$ GDP		30.2 12.2 47.1 1.9 38.9	54 45 51 51	 Creative outputs 7.1 Intangible assets 7.1.1 Intangible asset into 7.1.2 Trademarks by orig 7.1.3 Global brand value, 7.1.4 Industrial designs be 	ensity, top 15, % iin/bn PPP\$ GDP , top 5,000	26.8 39.2 42.2 101.6 3.4 0.1	46 60 ○ 10 • 41 115 ○ ◊
4.1.2 Domestic cred 4.1.3 Loans from m 4.2 Investment 4.2.1 Market capita 4.2.2 Venture capit 4.2.3 VC recipients 4.2.4 VC received, 4.3 Trade, diversit 4.3.1 Applied tariff	al (VC) investors, deals/bn P, deals/bn PPP\$ GDP value, % GDP fication, and market scale rate, weighted avg., % ustry diversification		40.0 33.0 124.6 n/a 13.9 77.0 0.1 0.0 0.0 62.9 0.4 \$ 79.1 575.5	41 64 ○ ♦ 19 ● n/a 47 21 49 55 44 47 5 ● 80 ○ 44	7.2 Creative goods and 7.2.1 Cultural and creative 7.2.2 National feature fill 7.2.3 Entertainment and 7.2.4 Creative goods exp. 7.3 Online creativity	I services ve services exports, % total trade ms/mn pop. 15-69 media market/th pop. 15-69 ports, % total trade Iomains (TLDs)/th pop. 15-69 s/th pop. 15-69 n pop. 15-69	6.6 0.2 1.3 12.6 0.1 22.3 2.3 14.8 8.2 63.7	80

NOTES: • indicates a strength; O a weakness; • an income group strength; \diamond an income group weakness; * an index; * a survey question, • indicates that the economy's data are older than the base year; see appendices for details, including the year of the data, at https://www.wipo.int/gii-ranking. 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 indicators that are either missing or outdated for Chile.



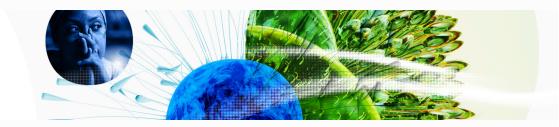
> Chile has missing data for two indicators and outdated data for seven indicators.

> Missing data for Chile

Code	Indicator name	Economy Year	Model Year	Source
4.1.3	Loans from microfinance institutions, % GDP	n/a	2021	International Monetary Fund, Financial Access Survey (FAS)
5.1.2	Firms offering formal training, %	n/a	2019	World Bank Enterprise Surveys

> Outdated data for Chile

Code	Indicator name	Economy Year	Model Year	Source
2.1.1	Expenditure on education, % GDP	2019	2021	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	2020	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
2.3.2	Gross expenditure on R&D, % GDP	2020	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
4.3.2	Domestic industry diversification	2017	2020	United Nations Industrial Development Organization
5.1.3	GERD performed by business, % GDP	2020	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.3.5	Research talent, % in businesses	2020	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
6.2.4	High-tech manufacturing, %	2017	2020	United Nations Industrial Development 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.