

#### GKI RANK 46 /133



AVERAGE

47.5

51.5

#### COUNTRY PERFORMANCE SUMMARY

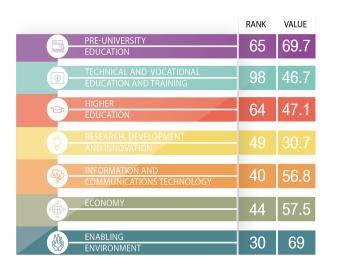
Chile is a strong performer in terms of its knowledge infrastructure. It ranks 46th out of 133 countries in the Global Knowledge Index 2023 and 45th out of the 61 countries with very high human development.

# CHILE

#### **KEY INDICATORS**

GDP (US\$ billions): 507.465 Population: 19,493,185 HDI: 0.855

#### SECTORAL INDICES



#### AREAS OF STRENGTH

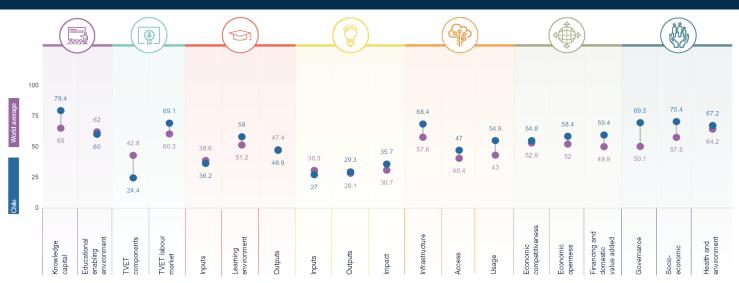
- + MSME financing gap (% GDP)
- Fixed broadband Internet traffic per subscription
  - Gross attendance ratio for tertiary education, wealth parity
- + Average documents per researcher
- + Enrolment in bachelor's or equivalent level
  - (%)

#### AREAS OF IMPROVEMENT

- Ratio of medium-skill TVET occupations earnings to average wage
- Ratio of high-skill TVET occupations earnings to average wage
- Industrial design applications (per 100 billion GDP)
- Cultural goods exports (% exports)
- Natural hazard exposure



#### **GKI PILLARS**



### CHILE

Knowledge capital

Enrolment in vocational education, gender parity

Vulnerable employment rate

Rank Value

65 69.7

36 79.4

Enrolment	29	96.4
Net enrolment rate in primary education	56	95.1
Net enrolment rate in lower secondary education	40	97.8
Net enrolment rate in upper secondary education	14	96.2
Completion	8	85
Years of compulsory education in primary and secondary	3	92.3
Completion rate in upper secondary education	32	88.5
Gross intake ratio to the last grade of lower secondary education	11	74.3
Outcomes	55	56.7
Assessment of 15-year-old students in math, science and reading	44	46.6
Learning-adjusted years of schooling	45	66.7
Educational enabling environment	83	60
Expenditure	53	38
Government expenditure on primary education (% GDP)	41	37.8
Government expenditure on secondary education (% GDP)	63	31.1
Government funding per primary student (% GDP per capita)	42	51
Government funding per secondary student (% GDP per capita)	54	32.2
Resources	97	63.4
Pupil-trained teacher ratio in primary education	n/a	n/a
Pupil-trained teacher ratio in secondary education	n/a	n/a
Schools with access to computers in primary education (%)	73	51.6
Schools with access to computers in secondary education (%)	88	75.1
Early learning	99	46
Gross enrolment ratio in early childhood education	63	46
Proportion of children who are developmentally on track	n/a	n/a
Proportion of children with stimulating home learning environments	n/a	n/a
Pupil-trained teacher ratio in pre-primary education	n/a	n/a
Equity and inclusiveness	30	92.8
Completion rate in upper secondary education, gender parity	34	96.1
Completion rate in upper secondary education, wealth parity	10	84.5
Completion rate in upper secondary education, location parity	22	97.8
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	98	46.7
TVET components	129	24.4
Continuous training and skilling	121	16.9
Firms offering formal training (%)	n/a	n/a
Labour force participation rate with short-cycle tertiary education	n/a	n/a
Participation rate in formal and non-formal education and training	70	16.9
TVET structure	103	21.3
Government expenditure on vocational education (%)	47	26
Share of students enrolled in secondary vocational programmes	63	16.7
Share of students enrolled in post-secondary vocational programmes	n/a	n/a
TVET quality and qualifications	114	34.9
Extent of staff training	46	61.1
Quality of vocational training	70	53.2
Ratio of high-skill TVET occupations earnings to average wage	100	10.7
Ratio of medium-skill TVET occupations earnings to average wage	110	14.5
TVET labour market	34	69.1

	103	21.3	GERD financed by
ducation (%)	47	26	Researchers in bus
vocational programmes	63	16.7	Firms that spend o
dary vocational programmes	n/a	n/a	Inputs of societal in
	114	34.9	High-skilled employ
	46	61.1	Intellectual propert
	70	53.2	State of cluster dev
nings to average wage	100	10.7	Outputs
earnings to average wage	110	14.5	Outputs of R&D ins
	34	69.1	Average document
	20	75.1	Citations per docur

16 91.9

66

75.3

GERD financed from abroad (%)

Computer software spending (% GDP)

New business density per thousand population

Firms with products and services new to the market (%)

Joint ventures per strategic alliance deals (per billion GDP)

	34	09.1
Efficiency of the labour market	29	75.1
Firms constrained with inadequately educated workforce (%)	n/a	n/a
Employment educational mismatch (%)	40	73
Proportion of skilled production workers	n/a	n/a
Unemployment rate with vocational education	84	77.1
Post-TVET employment	59	48.6
Share of TVET occupations	47	62
Manufacturing employment (%)	78	35.1
Equity and inclusiveness	34	83.6

HIGHER EDUCATION 64 47.1 Inputs 81 36.2 74 21.7 Expenditure Government expenditure per tertiary student 49 12 Teaching staff compensation (% tertiary expenditure) 58 31.3 Enrolment 43 37.3 Enrolment in bachelor's or equivalent level (%) 47.5 9 Enrolment in master's, doctoral or equivalent (%) 52 27.2 98 Resources 49.7 Pupil-teacher ratio in tertiary education n/a n/a Researchers in higher education (%) 50 49.7 47 58 Learning environment Diversity and academic freedom 71 49.6 Teachers in tertiary education, gender parity n/a n/a 84 4.6 Inbound mobility rate Academic freedom 12 94.5 Equity and inclusiveness 5 66.5 Gross attendance ratio for tertiary education, gender parity 17 91.1 Gross attendance ratio for tertiary education, wealth parity 4 40.2 Gross attendance ratio for tertiary education, location parity 7 68.3 Outputs 69 46.9 Attainment 69 17.7 Educational attainment rate, bachelor's or equivalent 64 29.7 70 Educational attainment rate, master's or equivalent 5.6 Educational attainment rate, doctoral or equivalent n/a n/a 46 82.3 Employment Labour force participation rate with advanced education 13 86.8 Unemployment rate with advanced education 84 77.9 55 40.7 Impact University-industry collaboration in R&D 79 42.9 Citable documents per R&D personnel in higher education 17 38.4 69 Inputs of R&D institutions GERD (% GDP) 71 6.2 GERD per researcher 42 19.3 69 6.5 Researchers per thousand labour force Tertiary graduates from STEM programmes (%) 70 51 55 2.8 GERD performed by business enterprises (%) by business enterprises (%) 54 38.9 usiness enterprises (%) 35.1 40 on R&D (%) n/a n/a oyment (%) 45 39.8 rty payments (% total trade) 18 36.6 velopment 74 46.7 nts per researcher 7 60.2 ument 70 29 Resident patent applications (per 100 billion GDP) 47.9 66 Intellectual property receipts (% total trade) 60 2.4 Industrial design applications (per 100 billion GDP) 107 0.7 PCT applications (per 100 billion GDP) 35 7.8 Firms producing new products and services (%) n/a n/a Trademark applications (per 100 billion GDP) 15 54.1 112 0.7 Cultural goods exports (% exports) Printing and publishing output (% manufactured output) 80 10.8 Impact 42 Research institutions prominence 35 62.5 Growth of innovative companies 57 49.1 ISO 9001 quality certificates (per billion GDP) 59 12.8 ISO 14001 environmental certificates (per billion GDP) 61 12.6

Rank Value

72 8.5

51 9.1

11

n/a n/a

51.1 21

50

## CHILE

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Domestic value added

Labour underutilization rate Output per worker

Medium- and high-tech activities value added

Industry and services value added (% GDP)

INFORMATION AND COMMUNICATIONS TECHNOLOGY	Rank 40	56.8
Infrastructure	41	68.4
Coverage	35	72.5
3G/4G mobile network coverage (% population)	91	90.1
Secure Internet servers per 1 million population	41	75.5
Investment in telecommunication services (% GDP)	28	51.9
Quality	44	39.8
Mobile upload and download speeds	73	9
Fixed-broadband upload and download speeds	10	65.1
Fixed-broadband subscriptions by speed per hundred people	51	45.1
Affordability	46	93.1
	46 57	87.6
Fixed broadband basket (% GNI per capita)		
Mobile broadband basket (% GNI per capita)	29	97.5
Internet and telephony competition	79	94.1
Access	51	47
Subscriptions	28	64.9
Active mobile-broadband subscriptions per hundred inhabitants	41	45.3
International Internet bandwidth per user	32	58.3
Households with Internet access at home (%)	41	91
Skills and employment	61	29.2
Individuals with standard ICT skills (%)	35	46.6
Tertiary graduates from ICT programmes (%)	98	17.5
ICT employment (%)	44	23.5
Usage	33	54.9
Services	20	67.9
Government online services	28	82.8
Fixed broadband Internet traffic per subscription	5	56
Mobile broadband Internet traffic per subscription	14	43.1
Internet users (%)	37	89.6
Outcomes	46	42
CT PCT patent applications (per 100 billion GDP)	41	5.6
E-participation	41	69.3
Internet activities by individuals (%)	n/a	n/a
Trade in digitally deliverable services (% total trade)	30	51.1
ECONOMY	44	57.5
Economic competitiveness	58	54.8
Infrastructure investment	38	55.9
Gross fixed capital formation (% GDP)	43	28.4
Logistics performance	59	50
Transport productive capacity	40	58.3
Building quality control	21	86.7
Business agility	71	53.7
Ease of starting a business	51	91.4
Insolvency recovery rate	49	45.6
Entrepreneurial employee activity rate	18	49
Extent of corporate transparency	90	28.6
Economic openness	49	58.4
Trade and diversification	43 89	46.4
Trade (% GDP)	81	13.8
High-technology trade (% total trade)	67	21.1
	87	69.2
Market concentration	98	81.4
Financial openness	33	70.5
Chinn-Ito financial openness	56	70
	20	41.4
Foreign direct investment, net inflows (% GDP)	1	100
	1	
Debt dynamics	26	59.4
Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and domestic value added Financing and taxes		
Debt dynamics Financing and domestic value added Financing and taxes	26	75.9
Debt dynamics Financing and domestic value added Financing and taxes Domestic credit to private sector (% GDP)	<b>26</b> 10	<b>59.4</b> 75.9 41.2 95.7
Debt dynamics Financing and domestic value added Financing and taxes Domestic credit to private sector (% GDP) MSME financing gap (% GDP)	26 10 17	75.9 41.2 95.7
Debt dynamics Financing and domestic value added	26 10 17 3	75.9 41.2

60 42.9

74 24.7

53 52

64 71.3

48 23.6

	Rank	Value
ENABLING ENVIRONMENT	30	69
Governance	38	69.5
Political environment	39	64.8
Peace and stability	57	51.4
Voice and accountability	27	78.3
Quality of institutions	36	74.2
Rule of law	28	80.7
Control of corruption	44	69.3
Government effectiveness	36	72.6
Socio-economic	34	70.4
Gender equity	46	73.7
Female-to-male ratio in parliament	37	55
Female-to-male labour force participation	90	70.1
Female-to-male ratio in Internet usage	73	96.1
Social inclusion	39	83.9
Social protection coverage (% population)	37	82.5
Adult literacy rate	37	96.1
Youth not in employment, education or training (%)	49	73.2
Standard of living	33	53.7
Poverty headcount ratio (% population)	13	85.5
GDP per capita	53	21.9
Health and environment	51	67.2
Health	29	88.8
Universal health coverage	27	82.3
Healthy life expectancy (years)	29	88.1
Under-five mortality rate	48	96
Environmental performance	105	45.6
Renewable energy consumption (%)	63	27.8
Ecological footprint per capita	85	70.9
Natural hazard exposure	112	38

\*All values are normalized to a scale from 0 (worst) to 100 (best).