



CHILE

KEY INDICATORS

GDP (US\$ billions): 496.085

Population: 19,493,185

HDI: 0.855

GKI RANK

44 /132

GKI SCORE

51.1

WORLD AVERAGE

46.5

COUNTRY PERFORMANCE SUMMARY

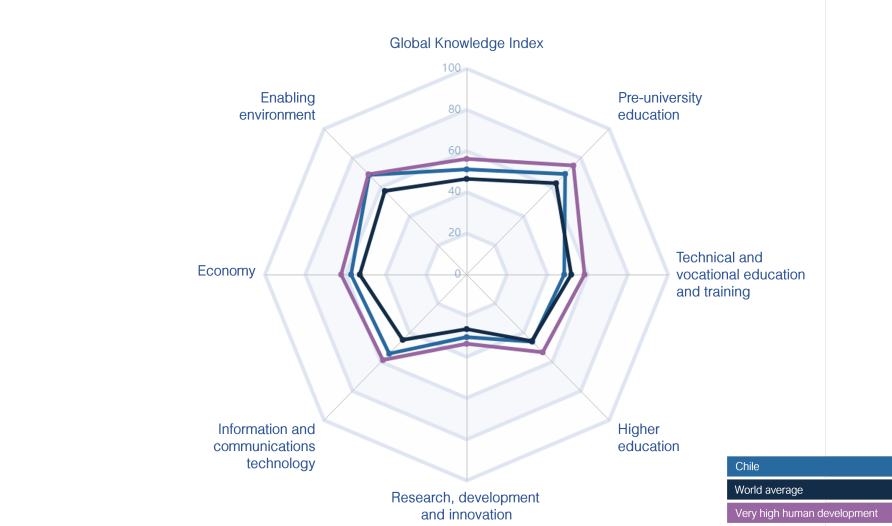
Chile is a strong performer in terms of its knowledge infrastructure. It ranks 44th out of 132 countries in the Global Knowledge Index 2022 and 42nd out of the 60 countries with very high human development.

- AREAS OF STRENGTH
- + Firms that spend on R&D (%)
 - + MSME financing gap (% GDP)
 - + Gross attendance ratio for tertiary education, wealth parity
 - + Trademark applications (per 100 billion GDP)
 - + Average documents per researcher

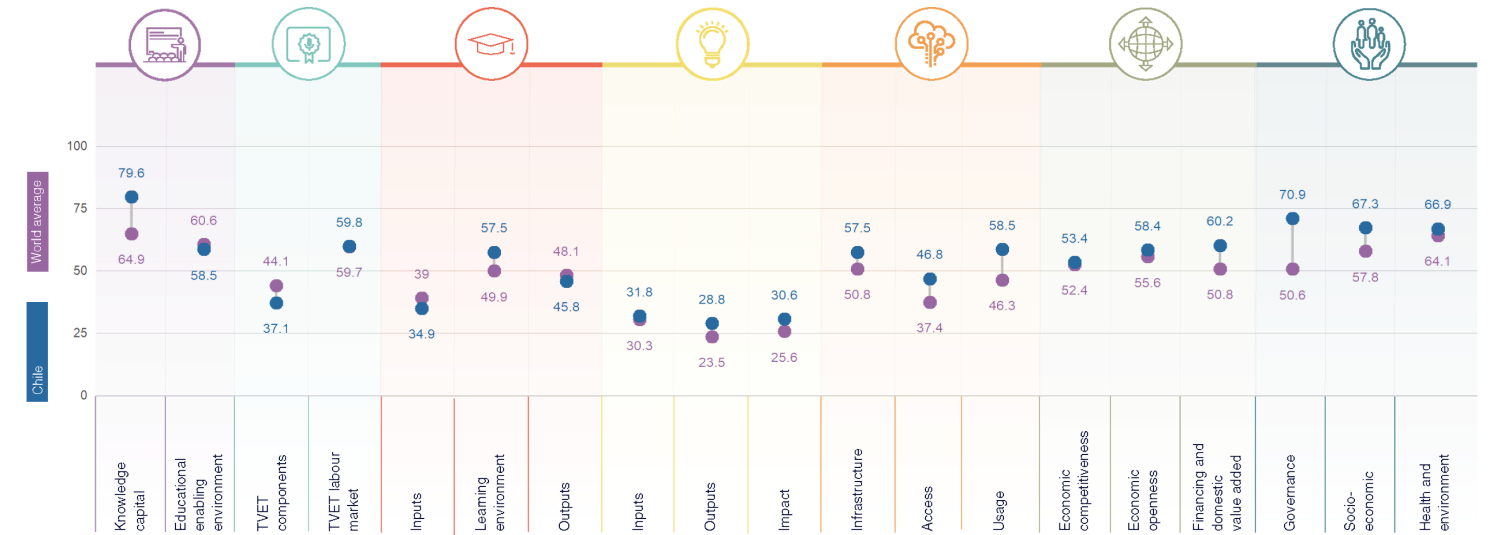
- AREAS OF IMPROVEMENT
- Ratio of medium-skill TVET occupations earnings to average wage
 - Proportion of skilled production workers
 - Firms constrained with inadequately educated workforce (%)
 - Ratio of high-skill TVET occupations earnings to average wage
 - Product concentration

SECTORAL INDICES

	RANK	VALUE
PRE-UNIVERSITY EDUCATION	65	69.1
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	89	48.4
HIGHER EDUCATION	62	46.1
RESEARCH, DEVELOPMENT AND INNOVATION	35	30.4
INFORMATION AND COMMUNICATIONS TECHNOLOGY	40	54.3
ECONOMY	48	57.3
ENABLING ENVIRONMENT	33	68.4



GKI PILLARS





CHILE

	Rank	Value		Rank	Value
PRE-UNIVERSITY EDUCATION			65	69.1	
Knowledge capital	38	79.6	HIGHER EDUCATION		
Enrolment	19	96.82	Inputs	91	34.9
Net enrolment rate in primary education	34	97.91	Expenditure	74	21.24
Net enrolment rate in lower secondary education	44	97.84	Government expenditure per tertiary student	51	11.48
Net enrolment rate in upper secondary education	27	94.71	Teaching staff compensation (% tertiary expenditure)	60	30.99
Completion	7	85.4	Enrolment	44	33.67
Years of compulsory education in primary and secondary	3	92.31	Enrolment in bachelor's or equivalent level (%)	9	45.36
Completion rate in upper secondary education	31	88.42	Enrolment in master's, doctoral or equivalent (%)	53	21.98
Gross intake ratio to the last grade of lower secondary education	36	75.46	Resources	102	49.71
Outcomes	54	56.67	Pupil-teacher ratio in tertiary education	n/a	n/a
Assessment of 15-year-old students in math, science and reading	43	46.61	Researchers in higher education (%)	50	49.71
Learning-adjusted years of schooling	44	66.72	Learning environment	42	57.5
Educational enabling environment	85	58.5	Diversity and academic freedom	70	48.56
Expenditure	53	34.83	Teachers in tertiary education, gender parity	n/a	n/a
Government expenditure on primary education (% GDP)	45	37.42	Inbound mobility rate	88	2.81
Government expenditure on secondary education (% GDP)	55	30.59	Academic freedom	14	94.3
Government funding per primary student (% GDP per capita)	45	38.32	Equity and inclusiveness	5	66.53
Government funding per secondary student (% GDP per capita)	58	32.98	Gross attendance ratio for tertiary education, gender parity	17	91.13
Resources	n/a	n/a	Gross attendance ratio for tertiary education, wealth parity	4	40.22
Pupil-trained teacher ratio in primary education	n/a	n/a	Gross attendance ratio for tertiary education, location parity	7	68.25
Pupil-trained teacher ratio in secondary education	n/a	n/a	Outputs	74	45.8
Schools with access to computers in primary education (%)	n/a	n/a	Attainment	63	17.63
Schools with access to computers in secondary education (%)	n/a	n/a	Educational attainment rate, bachelor's or equivalent	59	29.68
Early learning	95	47.91	Educational attainment rate, master's or equivalent	70	5.58
Gross enrolment ratio in early childhood education	59	47.91	Educational attainment rate, doctoral or equivalent	n/a	n/a
Proportion of children who are developmentally on track	n/a	n/a	Employment	55	79.89
Proportion of children with stimulating home learning environments	n/a	n/a	Labour force participation rate with advanced education	19	83.88
Pupil-trained teacher ratio in pre-primary education	n/a	n/a	Unemployment rate with advanced education	89	75.9
Equity and inclusiveness	20	92.76	Impact	53	39.96
Completion rate in upper secondary education, gender parity	31	96.05	University-industry collaboration in R&D	73	41.42
Completion rate in upper secondary education, wealth parity	27	84.46	Citable documents per R&D personnel in higher education	16	38.51
Completion rate in upper secondary education, location parity	19	97.77	RESEARCH, DEVELOPMENT AND INNOVATION	35	30.4
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	89	48.4	Inputs	53	31.8
TVET components	101	37.1	Inputs of R&D institutions	83	21.53
Continuous training and skilling	35	55.01	GERD (% GDP)	72	6.09
Firms offering formal training (%)	12	76.11	GERD per researcher	40	19.26
Labour force participation rate with short-cycle tertiary education	n/a	n/a	Researchers per thousand labour force	66	6.53
Participation rate in formal and non-formal education and training	63	33.91	Tertiary graduates from STEM programmes (%)	61	54.24
TVET structure	103	21.88	Inputs of RDI in business enterprises	27	43.44
Government expenditure on vocational education (%)	44	26.48	GERD performed by business enterprises (%)	54	2.77
Share of students enrolled in secondary vocational programmes	62	17.27	GERD financed by business enterprises (%)	53	38.88
Share of students enrolled in post-secondary vocational programmes	n/a	n/a	Researchers in business enterprises (%)	39	35.1
TVET quality and qualifications	111	34.49	Firms that spend on R&D (%)	2	96.99
Extent of staff training	61	52.32	Inputs of societal innovation	36	40.84
Quality of vocational training	32	60.39	High-skilled employment (%)	46	38.72
Ratio of high-skill TVET occupations earnings to average wage	98	10.69	Intellectual property payments (% total trade)	17	38.35
Ratio of medium-skill TVET occupations earnings to average wage	104	14.55	State of cluster development	74	45.45
TVET labour market	77	59.8	Outputs	31	28.8
Efficiency of the labour market	120	45.01	Outputs of R&D institutions	34	32.63
Firms constrained with inadequately educated workforce (%)	101	19.88	Average documents per researcher	7	60.13
Employment educational mismatch (%)	33	77.61	Citations per document	62	31.65
Proportion of skilled production workers	104	13.35	Resident patent applications (per 100 billion GDP)	62	6.09
Unemployment rate with vocational education	88	69.22	Outputs of RDI in business enterprises	43	21.54
Post-TVET employment	55	49.36	Intellectual property receipts (% total trade)	70	1.38
Share of TVET occupations	45	63.53	Industrial design applications (per 100 billion GDP)	96	0.86
Manufacturing employment (%)	78	35.19	PCT applications (per 100 billion GDP)	37	7.32
Equity and inclusiveness	32	84.9	Firms producing new products and services (%)	13	76.61
Enrolment in vocational education, gender parity	12	94.48	Outputs of societal innovation	39	28.59
Vulnerable employment rate	64	75.32	Trademark applications (per 100 billion GDP)	7	75.33
			Cultural goods exports (% exports)	111	0.75
			Printing and publishing output (% manufactured output)	81	9.68
			Impact	37	30.6
			Quality	48	27.38
			Research institutions prominence	27	26.42
			Growth of innovative companies	49	53.02
			ISO 9001 quality certificates (per billion GDP)	48	14.89
			ISO 14001 environmental certificates (per billion GDP)	48	15.19
			Linkages	54	19.18
			GERD financed from abroad (%)	71	8.47
			Joint ventures per strategic alliance deals (per billion GDP)	55	8.11
			Computer software spending (% GDP)	21	40.96
			Business development	21	45.3
			New business density per thousand population	10	49.96
			Firms with products and services new to the market (%)	84	40.63



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	Rank	Value
INFORMATION AND COMMUNICATIONS TECHNOLOGY	40	54.3
Infrastructure	48	57.5
Coverage	54	41.63
3G/4G mobile network coverage (% population)	87	89.44
Secure Internet servers per 1 million population	40	11.15
Investment in telecommunication services (% GDP)	40	24.31
Quality	42	37.89
Mobile upload and download speeds	72	9.03
Fixed-broadband upload and download speeds	10	65.14
Fixed-broadband subscriptions by speed per hundred people	55	39.51
Affordability	50	92.99
Fixed broadband basket (% GNI per capita)	64	87.14
Mobile broadband basket (% GNI per capita)	23	97.73
Internet and telephony competition	77	94.12
Access	46	46.8
Subscriptions	24	62.76
Active mobile-broadband subscriptions per hundred inhabitants	31	45.2
International Internet bandwidth per user	26	52.02
Households with Internet access at home (%)	34	91.05
Skills and employment	50	30.88
Individuals with standard ICT skills (%)	34	47.51
Tertiary graduates from ICT programmes (%)	88	20.38
ICT employment (%)	44	24.74
Usage	32	58.5
Services	26	66.19
Government online services	27	82.8
Fixed broadband Internet traffic per subscription	7	49.9
Mobile broadband Internet traffic per subscription	16	44.54
Internet users (%)	37	87.54
Outcomes	48	50.81
ICT PCT patent applications (per 100 billion GDP)	58	38.33
E-participation	40	69.32
Internet activities by individuals (%)	n/a	n/a
Trade in digitally deliverable services (% total trade)	54	44.78
ECONOMY	48	57.3
Economic competitiveness	61	53.4
Infrastructure investment	40	53.11
Gross fixed capital formation (% GDP)	48	43.79
Logistics performance	30	57.93
Transport productive capacity	74	24.05
Building quality control	20	86.67
Business agility	71	53.66
Ease of starting a business	50	91.43
Insolvency recovery rate	48	45.59
Entrepreneurial employee activity rate	18	49.03
Extent of corporate transparency	90	28.57
Economic openness	56	58.4
Trade and diversification	108	43.21
Trade (% GDP)	81	15.76
High-technology trade (% total trade)	60	23.78
Product concentration	120	51.55
Market concentration	99	81.73
Financial openness	36	73.67
Chinn-Ito financial openness	56	70.05
Foreign direct investment, net inflows (% GDP)	39	50.96
Debt dynamics	1	100
Financing and domestic value added	22	60.2
Financing and taxes	9	77.35
Domestic credit to private sector (% GDP)	15	46.78
MSME financing gap (% GDP)	3	95.68
Tax and contribution rate (% profit)	52	73.55
Bank non-performing loans (%)	17	93.39
Domestic value added	61	43.1
Medium- and high-tech activities value added	75	24.59
Industry and services value added (% GDP)	43	58.65
Labour underutilization rate	84	62.26
Output per worker	46	26.91

	Rank	Value
ENABLING ENVIRONMENT	33	68.4
Governance	35	70.9
Political environment	40	63.91
Peace and stability	61	48.58
Voice and accountability	26	79.23
Quality of institutions	34	77.88
Rule of law	29	80.77
Control of corruption	27	81.73
Government effectiveness	42	71.15
Socio-economic	36	67.3
Gender equity	43	73.43
Female-to-male ratio in parliament	39	55
Female-to-male labour force participation	91	69.19
Female-to-male ratio in Internet usage	73	96.11
Social inclusion	49	74.66
Social protection coverage (% population)	43	69.34
Adult literacy rate	41	95.96
Youth not in employment, education or training (%)	79	58.67
Standard of living	29	53.86
Poverty headcount ratio (% population)	15	86.44
GDP per capita	51	21.28
Health and environment	54	66.9
Health	27	87.81
Universal health coverage	27	79.84
Healthy life expectancy (years)	28	88.06
Under-five mortality rate	46	95.54
Environmental performance	106	46.03
Renewable energy consumption (%)	60	26.25
Ecological footprint per capita	87	73.85
Natural hazard exposure	111	38

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