



GKI RANK 84 /133

GKI SCORE 44.1

WORLD AVERAGE 47.5

KYRGYZSTAN

KEY INDICATORS

GDP (US\$ billions): 35.334

Population: 6,527,744

HDI: 0.692

COUNTRY PERFORMANCE SUMMARY

Kyrgyzstan is a modest performer in terms of its knowledge infrastructure. It ranks 84th out of 133 countries in the Global Knowledge Index 2023 and 5th out of the 25 countries with medium human development.

AREAS OF STRENGTH

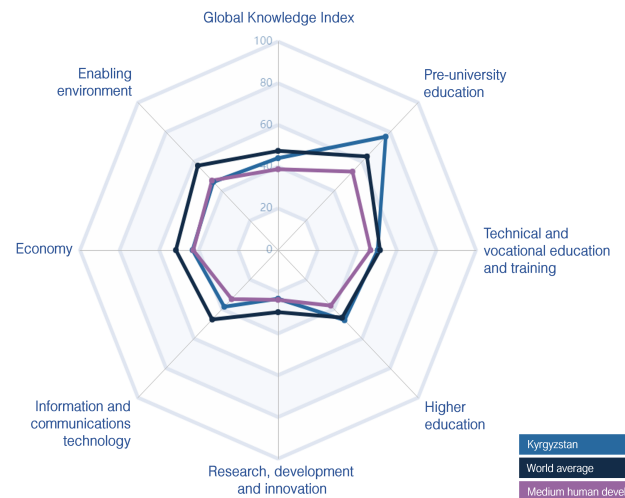
- + Government expenditure on secondary education (% GDP)
- + Gross attendance ratio for tertiary education, gender parity
- + Inbound mobility rate
- + Completion rate in upper secondary education, gender parity
- + Completion rate in upper secondary education

AREAS OF IMPROVEMENT

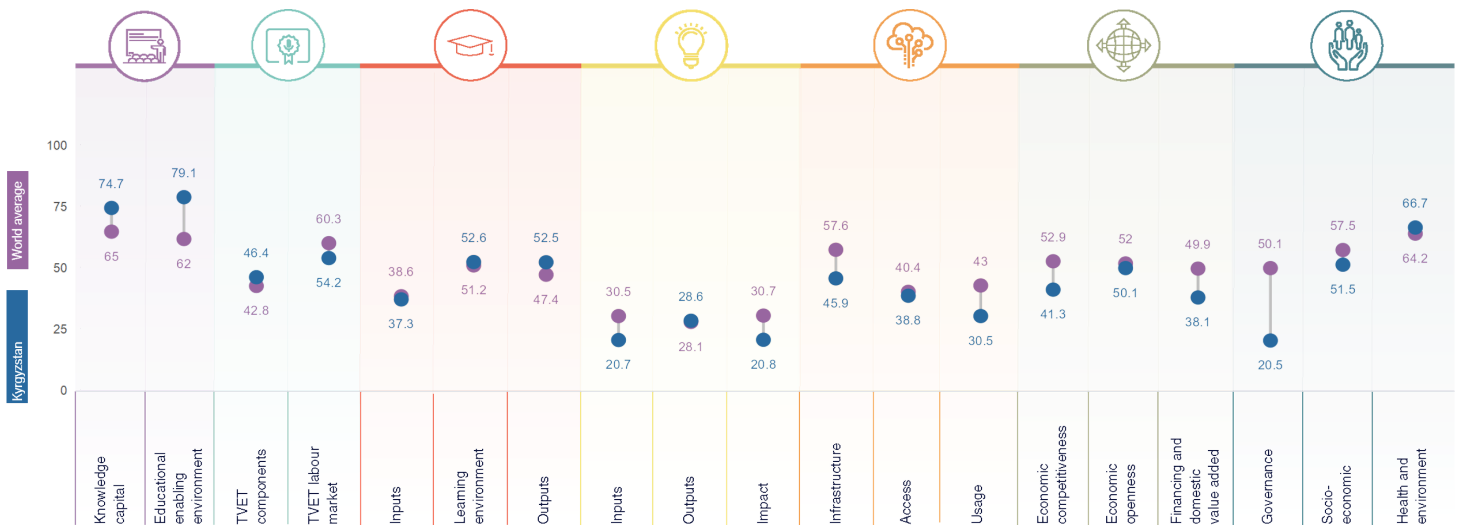
- Government expenditure per tertiary student
- Extent of corporate transparency
- ISO 14001 environmental certificates (per billion GDP)
- Medium- and high-tech activities value added
- ISO 9001 quality certificates (per billion GDP)

SECTORAL INDICES

	RANK	VALUE
PRE-UNIVERSITY EDUCATION	35	76.9
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	77	50.3
HIGHER EDUCATION	61	47.5
RESEARCH, DEVELOPMENT AND INNOVATION	96	23.3
INFORMATION AND COMMUNICATIONS TECHNOLOGY	90	38.4
ECONOMY	96	43.2
ENABLING ENVIRONMENT	103	46.2



GKI PILLARS





Rank Value

Rank Value

PRE-UNIVERSITY EDUCATION 35 76.9

Knowledge capital	54	74.7
Enrolment	73	86.3
Net enrolment rate in primary education	28	98.4
Net enrolment rate in lower secondary education	77	91.7
Net enrolment rate in upper secondary education	85	68.9
Completion	36	78.3
Years of compulsory education in primary and secondary	66	69.2
Completion rate in upper secondary education	6	96.9
Gross intake ratio to the last grade of lower secondary education	52	68.8
Outcomes	50	59.3
Assessment of 15-year-old students in math, science and reading	n/a	n/a
Learning-adjusted years of schooling	63	59.3
Educational enabling environment	21	79.1
Expenditure	2	79.5
Government expenditure on primary education (% GDP)	n/a	n/a
Government expenditure on secondary education (% GDP)	2	79.5
Government funding per primary student (% GDP per capita)	n/a	n/a
Government funding per secondary student (% GDP per capita)	n/a	n/a
Resources	57	86.9
Pupil-trained teacher ratio in primary education	49	78.8
Pupil-trained teacher ratio in secondary education	29	92.6
Schools with access to computers in primary education (%)	49	88.8
Schools with access to computers in secondary education (%)	75	87.3
Early learning	66	60.5
Gross enrolment ratio in early childhood education	94	24.6
Proportion of children who are developmentally on track	31	55.7
Proportion of children with stimulating home learning environments	6	89.4
Pupil-trained teacher ratio in pre-primary education	61	72.3
Equity and inclusiveness	43	89.5
Completion rate in upper secondary education, gender parity	6	99.6
Completion rate in upper secondary education, wealth parity	14	77
Completion rate in upper secondary education, location parity	32	91.9

TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING 77 50.3

TVET components	42	46.4
Continuous training and skilling	44	49.2
Firms offering formal training (%)	28	53.7
Labour force participation rate with short-cycle tertiary education	43	77.8
Participation rate in formal and non-formal education and training	74	16.2
TVET structure	71	43.3
Government expenditure on vocational education (%)	61	17
Share of students enrolled in secondary vocational programmes	72	12.8
Share of students enrolled in post-secondary vocational programmes	1	100
TVET quality and qualifications	39	46.6
Extent of staff training	112	45.2
Quality of vocational training	87	48
Ratio of high-skill TVET occupations earnings to average wage	n/a	n/a
Ratio of medium-skill TVET occupations earnings to average wage	n/a	n/a
TVET labour market	96	54.2
Efficiency of the labour market	117	52.8
Firms constrained with inadequately educated workforce (%)	84	33.9
Employment educational mismatch (%)	n/a	n/a
Proportion of skilled production workers	89	40.2
Unemployment rate with vocational education	57	84.4
Post-TVET employment	84	42.1
Share of TVET occupations	84	45.8
Manufacturing employment (%)	69	38.4
Equity and inclusiveness	80	67.6
Enrolment in vocational education, gender parity	79	68.6
Vulnerable employment rate	76	66.5

HIGHER EDUCATION 61 47.5

Inputs	75	37.3
Expenditure	117	0
Government expenditure per tertiary student	113	0
Teaching staff compensation (% tertiary expenditure)	n/a	n/a
Enrolment	49	31.1
Enrolment in bachelor's or equivalent level (%)	72	23.8
Enrolment in master's, doctoral or equivalent (%)	41	38.4
Resources	20	80.7
Pupil-teacher ratio in tertiary education	45	80.7
Researchers in higher education (%)	n/a	n/a
Learning environment	62	52.6
Diversity and academic freedom	61	54.5
Teachers in tertiary education, gender parity	108	9.1
Inbound mobility rate	1	100
Academic freedom	87	54.3
Equity and inclusiveness	26	50.7
Gross attendance ratio for tertiary education, gender parity	2	99.2
Gross attendance ratio for tertiary education, wealth parity	20	22.2
Gross attendance ratio for tertiary education, location parity	41	30.8
Outputs	53	52.5
Attainment	22	50.5
Educational attainment rate, bachelor's or equivalent	34	50.5
Educational attainment rate, master's or equivalent	n/a	n/a
Educational attainment rate, doctoral or equivalent	n/a	n/a
Employment	79	74.8
Labour force participation rate with advanced education	89	68.8
Unemployment rate with advanced education	77	80.7
Impact	83	32.3
University-industry collaboration in R&D	116	32.3
Citable documents per R&D personnel in higher education	n/a	n/a

RESEARCH, DEVELOPMENT AND INNOVATION 96 23.3

Inputs	99	20.7
Inputs of R&D institutions	73	24.3
GERD (% GDP)	108	1.5
GERD per researcher	n/a	n/a
Researchers per thousand labour force	n/a	n/a
Tertiary graduates from STEM programmes (%)	83	47.1
Inputs of RDI in business enterprises	102	10.9
GERD performed by business enterprises (%)	75	0.6
GERD financed by business enterprises (%)	80	8.6
Researchers in business enterprises (%)	n/a	n/a
Firms that spend on R&D (%)	54	23.5
Inputs of societal innovation	102	23.2
High-skilled employment (%)	76	25.3
Intellectual property payments (% total trade)	86	4.2
State of cluster development	107	40.2
Outputs	55	28.6
Outputs of R&D institutions	23	45.7
Average documents per researcher	n/a	n/a
Citations per document	65	31.7
Resident patent applications (per 100 billion GDP)	29	59.8
Outputs of RDI in business enterprises	72	16.3
Intellectual property receipts (% total trade)	70	1.8
Industrial design applications (per 100 billion GDP)	92	2.1
PCT applications (per 100 billion GDP)	60	2.7
Firms producing new products and services (%)	31	58.3
Outputs of societal innovation	112	6.6
Trademark applications (per 100 billion GDP)	89	12.9
Cultural goods exports (% exports)	93	2.3
Printing and publishing output (% manufactured output)	96	4.6
Impact	109	20.8
Quality	113	17.5
Research institutions prominence	114	28.6
Growth of innovative companies	107	41
ISO 9001 quality certificates (per billion GDP)	130	0.3
ISO 14001 environmental certificates (per billion GDP)	132	0.2
Linkages	113	5.9
GERD financed from abroad (%)	73	8.3
Joint ventures per strategic alliance deals (per billion GDP)	91	3.2
Computer software spending (% GDP)	92	6.2
Business development	64	38.9
New business density per thousand population	80	5.1
Firms with products and services new to the market (%)	36	72.6



KYRGYZSTAN

	Rank	Value		Rank	Value
INFORMATION AND COMMUNICATIONS TECHNOLOGY			90 38.4		
Infrastructure			102 45.9		
Coverage	100	54			
3G/4G mobile network coverage (% population)	102	85.1			
Secure Internet servers per 1 million population	80	48.2			
Investment in telecommunication services (% GDP)	76	28.6			
Quality	110	4.4			
Mobile upload and download speeds	n/a	n/a			
Fixed-broadband upload and download speeds	n/a	n/a			
Fixed-broadband subscriptions by speed per hundred people	95	4.4			
Affordability	93	79.2			
Fixed broadband basket (% GNI per capita)	95	72.2			
Mobile broadband basket (% GNI per capita)	77	90.5			
Internet and telephony competition	102	75			
Access	74	38.8			
Subscriptions	49	61.1			
Active mobile-broadband subscriptions per hundred inhabitants	25	49.6			
International Internet bandwidth per user	93	46			
Households with Internet access at home (%)	53	87.6			
Skills and employment	95	16.5			
Individuals with standard ICT skills (%)	n/a	n/a			
Tertiary graduates from ICT programmes (%)	77	24.3			
ICT employment (%)	71	8.7			
Usage	97	30.5			
Services	88	41.3			
Government online services	78	61.8			
Fixed broadband Internet traffic per subscription	68	13.6			
Mobile broadband Internet traffic per subscription	72	13.3			
Internet users (%)	78	76.6			
Outcomes	115	19.8			
ICT PCT patent applications (per 100 billion GDP)	37	6.4			
E-participation	76	50			
Internet activities by individuals (%)	n/a	n/a			
Trade in digitally deliverable services (% total trade)	128	3			
ECONOMY			96 43.2		
Economic competitiveness			106 41.3		
Infrastructure investment	113	36.8			
Gross fixed capital formation (% GDP)	35	29.6			
Logistics performance	117	32.5			
Transport productive capacity	124	11.8			
Building quality control	69	73.3			
Business agility	98	45.7			
Ease of starting a business	38	93			
Insolvency recovery rate	55	44.2			
Entrepreneurial employee activity rate	n/a	n/a			
Extent of corporate transparency	106	0			
Economic openness	68	50.1			
Trade and diversification	41	55.5			
Trade (% GDP)	45	22.3			
High-technology trade (% total trade)	34	34.6			
Product concentration	26	86.7			
Market concentration	105	78.4			
Financial openness	76	44.8			
Chinn-Ito financial openness	69	53.7			
Foreign direct investment, net inflows (% GDP)	118	30.6			
Debt dynamics	57	50			
Financing and domestic value added	115	38.1			
Financing and taxes	117	43.3			
Domestic credit to private sector (% GDP)	107	6.2			
MSME financing gap (% GDP)	71	72.1			
Tax and contribution rate (% profit)	36	78.6			
Bank non-performing loans (%)	104	16.1			
Domestic value added	95	32.9			
Medium- and high-tech activities value added	119	2.3			
Industry and services value added (% GDP)	99	34.8			
Labour underutilization rate	12	89.6			
Output per worker	108	5			
ENABLING ENVIRONMENT			103 46.2		
Governance			120 20.5		
Political environment	102	27.2			
Peace and stability	96	25.5			
Voice and accountability	97	29			
Quality of institutions	126	13.7			
Rule of law	127	10.4			
Control of corruption	119	17.9			
Government effectiveness	124	12.7			
Socio-economic	83	51.5			
Gender equity	98	58.9			
Female-to-male ratio in parliament	92	25			
Female-to-male labour force participation	109	60.7			
Female-to-male ratio in Internet usage	88	91			
Social inclusion	62	68.7			
Social protection coverage (% population)	67	40			
Adult literacy rate	12	99.4			
Youth not in employment, education or training (%)	55	66.7			
Standard of living	99	26.9			
Poverty headcount ratio (% population)	82	49.9			
GDP per capita	108	3.9			
Health and environment	54	66.7			
Health	82	76.1			
Universal health coverage	78	68.5			
Healthy life expectancy (years)	66	73.5			
Under-five mortality rate	85	86.4			
Environmental performance	48	57.3			
Renewable energy consumption (%)	57	31.2			
Ecological footprint per capita	37	90.8			
Natural hazard exposure	93	50			

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