

GKI 74/133

GKI SCORE

45.6

WORLD AVERAGE

47.5

COUNTRY PERFORMANCE SUMMARY

Kazakhstan is a moderate performer in terms of its knowledge infrastructure. It ranks 74th out of 133 countries in the Global Knowledge Index 2023 and 60th out of the 61 countries with very high human development.

KAZAKHSTAN

KEY INDICATORS

GDP (US\$ billions): **512.002**

Population: 19,196,466

HDI: 0.811

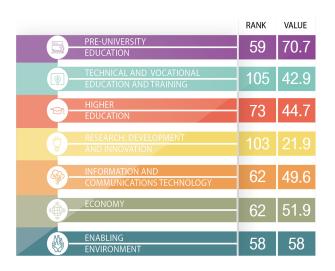
AREAS OF STRENGTH

- Completion rate in upper secondary education
- Pupil-trained teacher ratio in secondary education
- Fixed broadband basket (% GNI per capita)
- Completion rate in upper secondary education, gender parity
- + Poverty headcount ratio (% population)

AREAS OF IMPROVEMENT

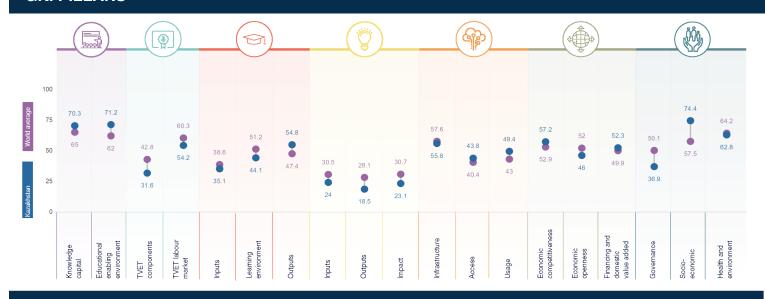
- Government expenditure on primary education (% GDP)
- Government funding per primary student (% GDP per capita)
- Government expenditure on vocational education (%)
- Educational attainment rate, master's or equivalent
- Ratio of high-skill TVET occupations earnings to average wage

SECTORAL INDICES





GKI PILLARS



	Rank	Value		Rank	Value
PRE-UNIVERSITY EDUCATION	59	70.7	HIGHER EDUCATION	73	44.7
Knowledge capital	65	70.3	Inputs	89	35.1
Enrolment	79	84.6	Expenditure	104	4.7
Net enrolment rate in primary education	78	90	Government expenditure per tertiary student	83	4.7
Net enrolment rate in lower secondary education	46	97.4	Teaching staff compensation (% tertiary expenditure)	n/a	n/a
Net enrolment rate in upper secondary education	87	66.3	Enrolment	55	26.2
Completion	33	78.9	Enrolment in bachelor's or equivalent level (%)	21	40.5
Years of compulsory education in primary and secondary	66	69.2	Enrolment in master's, doctoral or equivalent (%)	73	11.8
Completion rate in upper secondary education	2	99.6	Resources	28	74.6
Gross intake ratio to the last grade of lower secondary education	56	68	Pupil-teacher ratio in tertiary education	61	74.6
Outcomes	73	47.3	Researchers in higher education (%)	n/a	n/a
Assessment of 15-year-old students in math, science and reading	62	30.7	Learning environment	86	44.1
Learning-adjusted years of schooling	52	64	Diversity and academic freedom	117	27.2
Educational enabling environment	50	71.2	Teachers in tertiary education, gender parity	104	12.2
Expenditure	107	18.4	Inbound mobility rate	44	19.3
Government expenditure on primary education (% GDP)	115	0	Academic freedom	91	50.2
Government expenditure on secondary education (% GDP)	35	39	Equity and inclusiveness	11	61
Government funding per primary student (% GDP per capita)	113	0	Gross attendance ratio for tertiary education, gender parity	9	94.9
Government funding per secondary student (% GDP per capita)	46	34.6	Gross attendance ratio for tertiary education, wealth parity	6	38.3
Resources	52	92.4	Gross attendance ratio for tertiary education, location parity	16	49.6
Pupil-trained teacher ratio in primary education	16	92.6	Outputs	42	54.8
Pupil-trained teacher ratio in secondary education	2	99	Attainment	42	35.9
Schools with access to computers in primary education (%)	55	84.2	Educational attainment rate, bachelor's or equivalent	10	71.7
Schools with access to computers in secondary education (%)	65	93.9	Educational attainment rate, master's or equivalent	95	0.2
Early learning	27	78.6	Educational attainment rate, doctoral or equivalent	n/a	n/a
Gross enrolment ratio in early childhood education	59	49.6	Employment	2	93.6
Proportion of children who are developmentally on track	11	79.7	Labour force participation rate with advanced education	n/a	n/a
Proportion of children with stimulating home learning environments	7	87.5	Unemployment rate with advanced education	15	93.6
Pupil-trained teacher ratio in pre-primary education	5	97.7	Impact	74	34.8
Equity and inclusiveness	23	95.2	University-industry collaboration in R&D	107	34.8
Completion rate in upper secondary education, gender parity	5	99.6	Citable documents per R&D personnel in higher education	n/a	n/a
Completion rate in upper secondary education, wealth parity	7	89.7	RESEARCH, DEVELOPMENT AND INNOVATION	103	21.9
Completion rate in upper secondary education, location parity	25	96.2	Inputs	83	24
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	105	42.9	Inputs of R&D institutions	100	18.9
TVET components	115	31.6	GERD (% GDP)	103	2.2
Continuous training and skilling	105	25.6	GERD per researcher	94	4.8
Firms offering formal training (%)	75	25.6	Researchers per thousand labour force	62	8.7
Labour force participation rate with short-cycle tertiary education	n/a	n/a	Tertiary graduates from STEM programmes (%)	49	59.8
Participation rate in formal and non-formal education and training	n/a	n/a	Inputs of RDI in business enterprises	71	21.3
TVET structure	79	38.4	GERD performed by business enterprises (%)	70 30	58.7
Government expenditure on vocational education (%)	78	0	GERD financed by business enterprises (%) Researchers in business enterprises (%)	n/a	n/a
Share of students enrolled in secondary vocational programmes	65	15.3	Firms that spend on R&D (%)	93	4.2
Share of students enrolled in post-secondary vocational programmes	1	100	Inputs of societal innovation	52	37.1
TVET quality and qualifications	126	30.8	High-skilled employment (%)	22	62.6
Extent of staff training	110	45.7	Intellectual property payments (% total trade)	67	9.9
Quality of vocational training	118	37.9	State of cluster development	111	38.7
Ratio of high-skill TVET occupations earnings to average wage	111	3.5	Outputs	109	18.5
Ratio of medium-skill TVET occupations earnings to average wage	38	36	Outputs of R&D institutions	88	28.7
TVET labour market	97	54.2	Average documents per researcher	72	14.5
Efficiency of the labour market	125	44.1	Citations per document	117	15.6
Firms constrained with inadequately educated workforce (%)	83	34.3	Resident patent applications (per 100 billion GDP)	41	56.1
Employment educational mismatch (%)	n/a	n/a	Outputs of RDI in business enterprises Intellectual property receipts (% total trade)	108 92	0.3
Proportion of skilled production workers	73	52.8	Industrial design applications (per 100 billion GDP)	97	1.4
Unemployment rate with vocational education	123	45.2	PCT applications (per 100 billion GDP)	82	1
Post-TVET employment	99	36.1	Firms producing new products and services (%)	79	24.1
Share of TVET occupations	78	49.4	Outputs of societal innovation	102	9.9
Manufacturing employment (%)	104	22.8	Trademark applications (per 100 billion GDP)	72	18.2
Equity and inclusiveness	40	82.2	Cultural goods exports (% exports)	75	3.6
Enrolment in vocational education, gender parity	38	86.4	Printing and publishing output (% manufactured output)	86	7.8
Vulnerable employment rate	60	78.1	Impact	99	23.1
			Quality	95	23.6
			Research institutions prominence	67	50
			Growth of innovative companies	112	40.5
			ISO 9001 quality certificates (per billion GDP) ISO 14001 environmental certificates (per billion GDP)	116	1.5 2.4
			Linkages	120	3
			GERD financed from abroad (%)	80	5.1
			Joint ventures per strategic alliance deals (per billion GDP)	97	2.9
			Computer software spending (% GDP)	117	1.1
			Business development	47	42.7

New business density per thousand population

40 14.3

	Rank	Value
INFORMATION AND COMMUNICATIONS TECHNOLOGY	62	49.6
Infrastructure	75	55.8
Coverage	98	54.2
3G/4G mobile network coverage (% population)	93	89.4
Secure Internet servers per 1 million population	54	64.7
Investment in telecommunication services (% GDP)	120	8.5
Quality	73	18.1
Mobile upload and download speeds	59	11.2
Fixed-broadband upload and download speeds	43	20.8
Fixed-broadband subscriptions by speed per hundred people	76	22.3
Affordability	36	94.9
Fixed broadband basket (% GNI per capita)	4	98.2
Mobile broadband basket (% GNI per capita)	59	93.8
Internet and telephony competition	86	92.9
Access	59	43.8
Subscriptions	39	62.6
Active mobile-broadband subscriptions per hundred inhabitants	70	38.8
International Internet bandwidth per user	49	52.9
Households with Internet access at home (%)	12	96.1
Skills and employment	73	24.9
ndividuals with standard ICT skills (%)	48	29.5
Tertiary graduates from ICT programmes (%)	93	20.4
ICT employment (%)	n/a	n/a
Usage	43	49.4
Services	27	66.1
Government online services	8	93.4
Fixed broadband Internet traffic per subscription	58	19.6
Mobile broadband Internet traffic per subscription	7	59.4
nternet users (%)	28	91.8
Dutcomes	69	32.8
CT PCT patent applications (per 100 billion GDP)	96	0.7
E-participation	13	80.7
nternet activities by individuals (%)	61	22.7
Trade in digitally deliverable services (% total trade)	84	07.0
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	62	51.9
ECONOMY Economic competitiveness		
ECONOMY Economic competitiveness	62	51.9
ECONOMY Economic competitiveness Infrastructure investment	62 51	51.9 57.2
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP)	62 51 49	51.9 57.2 52.4
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance	62 51 49 62	51.9 57.2 52.4 24.4
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity	62 51 49 62 79	51.9 57.2 52.4 24.4 42.5
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control	62 51 49 62 79 43	51.9 57.2 52.4 24.4 42.5 56.2
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility	62 51 49 62 79 43 21	51.9 57.2 52.4 24.4 42.5 56.2 86.7
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business	62 51 49 62 79 43 21	51.9 57.2 52.4 24.4 42.5 56.2 86.7 62.1
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate	62 51 49 62 79 43 21 52	51.9 57.2 52.4 24.4 42.5 56.2 86.7 62.1 94.4
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate	62 51 49 62 79 43 21 52 19	51.9 57.2 52.4 42.5 56.2 86.7 62.1 94.4 43.3
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Fransport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency	62 51 49 62 79 43 21 52 19 60	51.9 57.2 52.4 24.4 42.5 56.2 86.7 62.1 94.4 43.3 24.8
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness	62 51 49 62 79 43 21 52 19 60 37 13	51.9 57.2 52.4 24.4 42.5 56.2 86.7 62.1 94.4 43.3 24.8 85.7
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification	62 51 49 62 79 43 21 52 19 60 37 13 81	51.9 57.2 52.4 42.5 56.2 86.7 62.1 94.4 43.3 24.8 85.7 46 45.8
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP)	62 51 49 62 79 43 21 52 19 60 37 13 81 92	51.9 57.2 52.4 42.5 56.2 86.7 62.1 94.4 43.3 24.8 85.7 46 45.8
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP) High-technology trade (% total trade)	62 51 49 62 79 43 21 52 19 60 37 13 81 92 101 33	51.9 57.2 52.4 42.5 56.2 86.7 62.1 94.4 43.3 24.8 85.7 46 45.8 8.9 34.7
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration	62 51 49 62 79 43 21 52 19 60 37 13 81 92 101 33 121	51.9 57.2 52.4 42.5 56.2 86.7 62.1 94.4 43.3 24.8 85.7 46 45.8 8.9 34.7 46.6
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Fransport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Frade and diversification Frade (% GDP) High-technology trade (% total trade) Peroduct concentration Market concentration	62 51 49 62 79 43 21 52 19 60 37 13 81 92 101 33 121 40	51.9 57.2 52.4 42.5 56.2 86.7 62.1 94.4 43.3 24.8 85.7 46.6 45.8 8.9 34.7 46.6 92.7
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Frade and diversification Frade (% GDP) High-technology trade (% total trade) Product concentration Market concentration Financial openness	62 51 49 62 79 43 21 52 19 60 37 13 81 92 101 33 121 40 75	51.9 57.2 52.4 42.5 56.2 86.7 62.1 94.4 43.3 24.8 85.7 46. 45.8 8.9 34.7 46.6 92.7 46.2
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ECONOMY ECONOMIC competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency ECONOMIC openness Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP)	62 51 49 62 79 43 21 52 19 60 37 13 81 92 101 33 121 40 75 84 51	51.9 57.2 52.4 42.5 56.2 86.7 62.1 94.4 43.3 24.8 85.7 46.6 92.7 46.2 36.3 36.3
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Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Fransport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Frade and diversification Frade (% GDP) High-technology trade (% total trade) Peroduct concentration Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and domestic value added Financing and domestic value added Financing and daxes	62 51 49 62 79 43 21 52 19 60 37 13 81 92 101 33 121 40 75 84 51 36 58 74	51.9 57.2 52.4 42.5 56.2 86.7 62.1 94.4 43.3 24.8 85.7 46.6 92.7 46.2 22.3 36.3 80 52.3 58.7
ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP)	62 51 49 62 79 43 21 52 19 60 37 13 81 92 101 33 121 40 75 84 51 36 58 74	51.9 57.2 52.4 42.5 56.2 86.7 62.1 94.4 43.3 24.8 85.7 46.6 92.7 46.2 22.3 36.3 80 52.3 58.7 7.2
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ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration Market concentration Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and domestic value added Financing and domestic value added Financing and taxes Domestic credit to private sector (% GDP) MSME financing gap (% GDP) Tax and contribution rate (% profit) Bank non-performing loans (%)	62 51 49 62 79 43 21 52 19 60 37 13 81 92 101 33 121 40 75 84 51 36 58 74 104 74 33 62	51.9 57.2 52.4 42.5 56.2 86.7 62.1 94.4 43.3 24.8 85.7 46.6 92.7 46.2 22.3 36.3 80 52.3 58.7 7.2 70 79.2 78.5
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	Rank	Value
ENABLING ENVIRONMENT	58	58
Governance	87	36.9
Political environment	105	26.2
Peace and stability	85	32.5
Voice and accountability	111	19.8
Quality of institutions	68	47.6
Rule of law	66	48.6
Control of corruption	56	58.5
Government effectiveness	91	35.8
Socio-economic	19	74.4
Gender equity	62	69.5
Female-to-male ratio in parliament	106	22.5
Female-to-male labour force participation	28	87
Female-to-male ratio in Internet usage	40	99.1
Social inclusion	8	95.3
Social protection coverage (% population)	1	100
Adult literacy rate	8	99.7
Youth not in employment, education or training (%)	21	86.3
Standard of living	22	58.2
Poverty headcount ratio (% population)	5	94.3
GDP per capita	52	22.1
Health and environment	83	62.8
Health	60	81.3
Universal health coverage	37	80.3
Healthy life expectancy (years)	72	70.8
Under-five mortality rate	62	92.7
Environmental performance	109	44.3
Renewable energy consumption (%)	119	1.9
Ecological footprint per capita	79	73.2
Natural hazard exposure	66	58

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