



Completion rate in upper secondary

Unemployment rate with advanced

Gross fixed capital formation (% GDP)

AREAS OF

STRENGTH

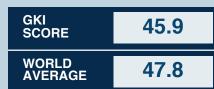
programmes (%)

education

education, wealth parity

Tertiary graduates from STEM

Ease of starting a business



AREAS OF

IMPROVEMENT

earnings to average wage

higher education

GERD per researcher

PCT applications (per 100 billion GDP)

Citable documents per R&D personnel in

Ratio of high-skill TVET occupations

Internet activities by individuals (%)

COUNTRY PERFORMANCE SUMMARY

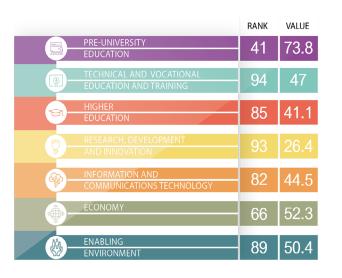
Uzbekistan is a moderate performer in terms of its knowledge infrastructure. It ranks 78th out of 141 countries in the Global Knowledge Index 2024 and 17th out of the 35 countries with high human development.

UZBEKISTAN

KEY INDICATORS

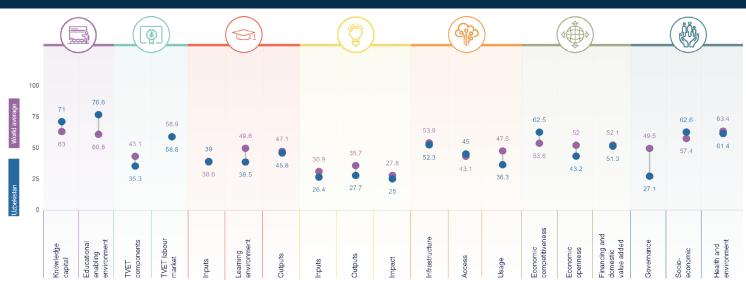
GDP (US\$ billions): 319.174 Population: 35,652,307 HDI: 0.727

SECTORAL INDICES





GKI PILLARS





UZBEKISTAN

	Rank Value	
PRE-UNIVERSITY EDUCATION	Kank 41	73.8
Knowledge capital	63	71
Enrolment	57	90.6
Net enrolment rate in primary education	27	98.5
Net enrolment rate in lower secondary education	37	98.2
Net enrolment rate in upper secondary education	76	74.9
Completion	4	86.9
Years of compulsory education in primary and secondary	3	92.3
Completion rate in upper secondary education	6	97.2
Gross intake ratio to the last grade of lower secondary education	18	71.1
Outcomes	92	35.5
Assessment of 15-year-old students in math, science and reading	82	5.8
Learning-adjusted years of schooling	51	65.3
Educational enabling environment	25	76.6
Expenditure	50	40.2
Government expenditure on primary education (% GDP)	61	33.6
Government expenditure on secondary education (% GDP)	15	46.5
Government funding per primary student (% GDP per capita)	28	55.5
Government funding per secondary student (% GDP per capita)	80	25.4
Resources	46	95.2
Pupil-trained teacher ratio in primary education	36	90.4
Pupil-trained teacher ratio in secondary education	27	94
Schools with access to computers in primary education (%)	38	98.1
Schools with access to computers in secondary education (%)	52	98.2
Early learning	32	74
Gross enrolment ratio in early childhood education	47	53.9
Proportion of children who are developmentally on track	15	74.8
Proportion of children with stimulating home learning environments	n/a	n/a
	26	93.4
Equity and inclusiveness	11	97.1
Equity and inclusiveness Completion rate in upper secondary education, gender parity	11 14	97.1 98.2
Equity and inclusiveness Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity	11 14 3	97.1 98.2 93
Equity and inclusiveness Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity	11 14	97.1 98.2 93 100
Equity and inclusiveness Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	11 14 3 1	97.1 98.2 93
Equity and inclusiveness Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components	11 14 3 1 94 114	97.1 98.2 93 100 47 35.3
Equity and inclusiveness Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components Continuous training and skilling	11 14 3 1 94	97.1 98.2 93 100 47
Equity and inclusiveness Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components Continuous training and skilling Firms offering formal training (%)	11 14 3 1 94 114 132	97.1 98.2 93 100 47 35.3 17.3
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Equity and inclusiveness Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components Continuous training and skilling Firms offering formal training (%) Labour force participation rate with short-cycle tertiary education Participation rate in formal and non-formal education and training TVET structure Government expenditure on vocational education (%) Share of students enrolled in secondary vocational programmes	11 14 3 1 94 114 132 103 n/a n/a 47 n/a	97.1 98.2 93 100 47 35.3 17.3 17.3 17.3 n/a 53.7 n/a
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	Rank	
	85	41.1
Inputs	70	39
Expenditure	24	40.1
Government expenditure per tertiary student	97	2.8
Teaching staff compensation (% tertiary expenditure) Enrolment	9	77.3 16.1
Enrolment in bachelor's or equivalent level (%)	53	28.3
Enrolment in master's, doctoral or equivalent (%)	105	3.9
Resources	72	60.7
Pupil-teacher ratio in tertiary education	90	58.4
Researchers in higher education (%)	29	63.1
Learning environment	110	38.5
Diversity and academic freedom	102	38.5
Teachers in tertiary education, gender parity	38	84.4
Inbound mobility rate	103	1
Academic freedom	111	30.2
Equity and inclusiveness	n/a	n/a
Gross attendance ratio for tertiary education, gender parity	n/a	n/a
Gross attendance ratio for tertiary education, wealth parity	n/a	n/a
Gross attendance ratio for tertiary education, location parity	n/a	n/a
Outputs	73	45.8
Attainment	57	27.4
Educational attainment rate, bachelor's or equivalent	70	27.4
Educational attainment rate, master's or equivalent	n/a	n/a
Educational attainment rate, doctoral or equivalent	n/a	n/a
Employment	57	82
Labour force participation rate with advanced education	105	68.2
Unemployment rate with advanced education	6	95.8
Impact	111	28.1
University-industry collaboration in R&D	36	56
Citable documents per R&D personnel in higher education	97	0.2
RESEARCH, DEVELOPMENT AND INNOVATION		26.4
Inputs	78	26.4
Inputs of R&D institutions	76	25.5
GERD (% GDP)	99	2.7
GERD per researcher	102	1.8
Researchers per thousand labour force	64	8
Tertiary graduates from STEM programmes (%)	4	89.4
Inputs of RDI in business enterprises	79	20.7
GERD performed by business enterprises (%)	69 41	1.2 52.5
GERD financed by business enterprises (%)	57	15.4
Researchers in business enterprises (%) Firms that spend on R&D (%)	88	13.5
Inputs of societal innovation	63	33.8
High-skilled employment (%)	n/a	n/a
Intellectual property payments (% total trade)	80	7.6
State of cluster development	30	59.9
Outputs	107	27.7
Outputs of R&D institutions	102	
Average documents per researcher	102	5.1
Citations per document	98	25.2
Resident patent applications (per 100 billion GDP)	39	59.4
	85	23.9
Outputs of RDI in business enterprises		
Outputs of RDI in business enterprises Intellectual property receipts (% total trade)	58	14.8
		14.8 50.9
Intellectual property receipts (% total trade)	58	
Intellectual property receipts (% total trade) Industrial design applications (per 100 billion GDP)	58 76	50.9
Intellectual property receipts (% total trade) Industrial design applications (per 100 billion GDP) PCT applications (per 100 billion GDP)	58 76 132	50.9 0.1
Intellectual property receipts (% total trade) Industrial design applications (per 100 billion GDP) PCT applications (per 100 billion GDP) Firms producing new products and services (%)	58 76 132 69	50.9 0.1 29.9
Intellectual property receipts (% total trade) Industrial design applications (per 100 billion GDP) PCT applications (per 100 billion GDP) Firms producing new products and services (%) Outputs of societal innovation	58 76 132 69 104	50.9 0.1 29.9 27.1
Intellectual property receipts (% total trade) Industrial design applications (per 100 billion GDP) PCT applications (per 100 billion GDP) Firms producing new products and services (%) Outputs of societal innovation Trademark applications (per 100 billion GDP)	58 76 132 69 104 60	50.9 0.1 29.9 27.1 15.8
Intellectual property receipts (% total trade) Industrial design applications (per 100 billion GDP) PCT applications (per 100 billion GDP) Firms producing new products and services (%) Outputs of societal innovation Trademark applications (per 100 billion GDP) Cultural goods exports (% exports) Printing and publishing output (% manufactured output)	58 76 132 69 104 60 82	50.9 0.1 29.9 27.1 15.8 58.8
Intellectual property receipts (% total trade) Industrial design applications (per 100 billion GDP) PCT applications (per 100 billion GDP) Firms producing new products and services (%) Outputs of societal innovation Trademark applications (per 100 billion GDP) Cultural goods exports (% exports) Printing and publishing output (% manufactured output)	58 76 132 69 104 60 82 93	50.9 0.1 29.9 27.1 15.8 58.8 6.6
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Intellectual property receipts (% total trade) Industrial design applications (per 100 billion GDP) PCT applications (per 100 billion GDP) Firms producing new products and services (%) Outputs of societal innovation Trademark applications (per 100 billion GDP) Cultural goods exports (% exports) Printing and publishing output (% manufactured output) Impact Ouality Research institutions prominence Growth of innovative companies ISO 9001 quality certificates (per billion GDP)	58 76 132 69 104 60 82 93 81 42 74 25 43	50.9 0.1 29.9 27.1 15.8 58.8 6.6 25 29.6 6.9 57.8 18.3
Intellectual property receipts (% total trade) Industrial design applications (per 100 billion GDP) PCT applications (per 100 billion GDP) Firms producing new products and services (%) Outputs of societal innovation Trademark applications (per 100 billion GDP) Cultural goods exports (% exports) Printing and publishing output (% manufactured output) Impact Ouality Research institutions prominence Growth of innovative companies ISO 9001 quality certificates (per billion GDP) ISO 14001 environmental certificates (per billion GDP)	58 76 132 69 104 60 82 93 81 42 74 25 43 20	50.9 0.1 29.9 27.1 15.8 58.8 6.6 25 29.6 6.9 57.8 18.3 35.6
Intellectual property receipts (% total trade) Industrial design applications (per 100 billion GDP) PCT applications (per 100 billion GDP) Firms producing new products and services (%) Outputs of societal innovation Trademark applications (per 100 billion GDP) Cultural goods exports (% exports) Printing and publishing output (% manufactured output) Impact Quality Research institutions prominence Growth of innovative companies ISO 9001 quality certificates (per billion GDP) ISO 14001 environmental certificates (per billion GDP) Linkages GERD financed from abroad (%)	58 76 132 69 104 60 82 93 81 42 74 25 43 20 115	50.9 0.1 29.9 27.1 15.8 6.6 25 29.6 6.9 57.8 18.3 35.6 6.2
Intellectual property receipts (% total trade) Industrial design applications (per 100 billion GDP) PCT applications (per 100 billion GDP) Firms producing new products and services (%) Outputs of societal innovation Trademark applications (per 100 billion GDP) Cultural goods exports (% exports) Printing and publishing output (% manufactured output) Impact Quality Research institutions prominence Growth of innovative companies ISO 9001 quality certificates (per billion GDP) ISO 14001 environmental certificates (per billion GDP) Linkages	58 76 132 69 104 60 82 93 81 42 74 25 43 20 115 95	50.9 0.1 29.9 27.1 15.8 6.6 29.6 6.9 57.8 18.3 35.6 6.2 0.6
Intellectual property receipts (% total trade) Industrial design applications (per 100 billion GDP) PCT applications (per 100 billion GDP) Firms producing new products and services (%) Outputs of societal innovation Trademark applications (per 100 billion GDP) Cultural goods exports (% exports) Printing and publishing output (% manufactured output) Impact Ouality Research institutions prominence Growth of innovative companies ISO 9001 quality certificates (per billion GDP) ISO 14001 environmental certificates (per billion GDP) Linkages GERD financed from abroad (%) Joint ventures per strategic alliance deals (per billion GDP)	58 76 132 69 104 60 82 93 81 42 74 25 43 20 115 95 89	50.9 0.1 29.9 27.1 15.8 58.8 6.6 29.6 6.9 57.8 18.3 35.6 6.2 0.6 0.6 3.2



UZBEKISTAN

	-	Value
NFORMATION AND COMMUNICATIONS TECHNOLOGY	82	44.5
nfrastructure	77	52.3
Coverage	104	50.7
G/4G mobile network coverage (% population)	94	90.6
Secure Internet servers per 1 million population	78	48.1
nvestment in telecommunication services (% GDP)	110	13.3
Quality	59	28.4
Nobile upload and download speeds	83	9.6
ixed-broadband upload and download speeds	58	25.7
ixed-broadband subscriptions by speed per hundred people	50	49.7
Affordability	88	77.8
Fixed broadband basket (% GNI per capita)	89	60.6
lobile broadband basket (% GNI per capita)	59	95.1
nternet and telephony competition	n/a	n/a
Access	69	45
Subscriptions	43	68.2
ctive mobile-broadband subscriptions per hundred inhabitants	49	52.1
nternational Internet bandwidth per user	68	56.4
louseholds with Internet access at home (%)	21	96.1
kills and employment	80	21.7
ndividuals with standard ICT skills (%)	69	12.1
ertiary graduates from ICT programmes (%)	54	31.3
CT employment (%)	54 n/a	n/a
	n/a 100	n/a 36.3
Isage		
Services	84	46
Sovernment online services	57	76.5
ixed broadband Internet traffic per subscription	99	5.9
Nobile broadband Internet traffic per subscription	82	13.8
nternet users (%)	46	87.8
Dutcomes	119	26.6
CT PCT patent applications (per 100 billion GDP)	108	20.5
participation	51	69.9
nternet activities by individuals (%)	85	7.4
	85 132	8.6
rade in digitally deliverable services (% total trade)		
ade in digitally deliverable services (% total trade) CONOMY	132	8.6
ade in digitally deliverable services (% total trade) CONOMY conomic competitiveness	132 66	8.6 52.3
rade in digitally deliverable services (% total trade) CONOMY conomic competitiveness ifrastructure investment	132 66 37	8.6 52.3 62.5
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rade in digitally deliverable services (% total trade) CONOMY Conomic competitiveness Infrastructure investment Bross fixed capital formation (% GDP) ogistics performance ransport productive capacity tuilding quality control tusiness agility case of starting a business	132 66 37 70 6 87 91 74 24	8.6 52.3 62.5 51.8 62.2 40 31.7 73.3 73.1
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rade in digitally deliverable services (% total trade) CONOMY CONOMY Conomic competitiveness Infrastructure investment Arross fixed capital formation (% GDP) ogistics performance ransport productive capacity wilding quality control wilding quality control wilding se of starting a business asolvency recovery rate interpreneurial employee activity rate xtent of corporate transparency Conomic openness	132 66 37 70 6 87 91 74 24 7 79 79 n/a 12	8.6 52.3 62.5 51.8 62.2 40 31.7 73.3 73.1 96.2 37.5 n/a 85.7
rade in digitally deliverable services (% total trade) CONOMY CONOMY Conomic competitiveness itrastructure investment irross fixed capital formation (% GDP) orgistics performance ransport productive capacity uilding quality control usiness agility ase of starting a business asolvency recovery rate ntrepreneurial employee activity rate xtent of corporate transparency iconomic openness rade and diversification	132 66 37 70 6 87 91 74 24 7 7 9 7 9 n/a 12 97 67	8.6 52.3 62.5 51.8 62.2 40 31.7 73.3 73.1 96.2 37.5 n/a 85.7 43.2 50.8
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Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) cogistics performance Transport productive capacity Guiding quality control Business agility Gase of starting a business Insolvency recovery rate Economic openness Trade and diversification Trade (% GDP) Trade (% GDP) Trade (% total trade) Product concentration Aarket concentration Aarket concentration Financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and taxes Domestic credit to private sector (% GDP) ASME financing gap (% GDP) Fax and contribution rate (% profit) Bank non-performing loans (%) Domestic value added Economic value added Economic value added Economic openness Econom	132 66 37 70 6 87 91 74 24 7 9 7 9 17 4 2 4 7 9 7 9 7 5 6 7 9 8 9 7 5 101 88 85 85 85 7 9 15 6 7 9 15 6 40	8.6 52.3 62.5 51.8 62.2 40 31.7 73.3 73.1 96.2 37.5 n/a 85.7 43.2 50.8 15.5 29.2 68.9 89.4 35.6 16.3 41.6 48.8 51.3 61.9 15.6 77 70.8
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	Rank Value	
ENABLING ENVIRONMENT	89	50.4
Governance	108	27.1
Political environment	111	26.1
Peace and stability	78	39.6
Voice and accountability	130	12.6
Quality of institutions	107	28.1
Rule of law	116	21.7
Control of corruption	110	24.5
Government effectiveness	91	38.2
Socio-economic	61	62.6
Gender equity	78	67.8
Female-to-male ratio in parliament	43	52.9
Female-to-male labour force participation	123	54.7
Female-to-male ratio in Internet usage	79	95.8
Social inclusion	56	75.4
Social protection coverage (% population)	66	54.9
Adult literacy rate	1	100
Youth not in employment, education or training (%)	60	71.3
Standard of living	57	44.5
Poverty headcount ratio (% population)	15	83.1
GDP per capita	100	6
Health and environment	92	61.4
Health	67	76.5
Universal health coverage	60	74.8
Healthy life expectancy (years)	74	64.5
Under-five mortality rate	73	90.1
Environmental performance	111	46.4
Renewable energy consumption (%)	134	1
Ecological footprint per capita	54	87
Natural hazard exposure	105	51

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