

GKI 117/133

GKI SCORE

32.7

WORLD AVERAGE

47.5

COUNTRY PERFORMANCE SUMMARY

Pakistan is a weak performer in terms of its knowledge infrastructure. It ranks 117th out of 133 countries in the Global Knowledge Index 2023 and 6th out of the 19 countries with low human development.

PAKISTAN

KEY INDICATORS

GDP (US\$ billions): 1,285.651

Population: 231,402,117

HDI: 0.544

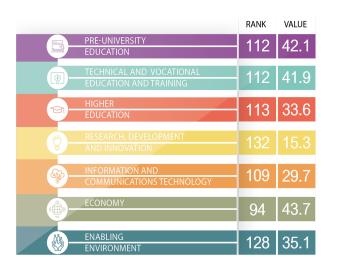
AREAS OF STRENGTH

- + Researchers in higher education (%)
- + Ecological footprint per capita
- + Citations per document
- Unemployment rate with vocational education
- Ratio of medium-skill TVET occupations earnings to average wage

AREAS OF IMPROVEMENT

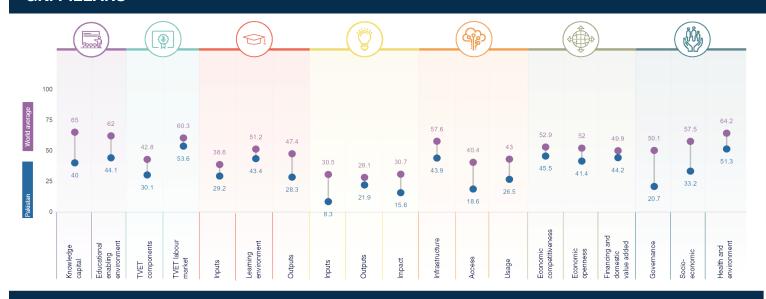
- PCT applications (per 100 billion GDP)
- Firms with products and services new to the market (%)
- Firms offering formal training (%)
- Individuals with standard ICT skills (%)
- ICT PCT patent applications (per 100 billion GDP)

SECTORAL INDICES





GKI PILLARS



	Rank	Value		Rank Val	
PRE-UNIVERSITY EDUCATION	112	42.1	HIGHER EDUCATION	113	33.6
Knowledge capital	115	40	Inputs	101	29.2
Enrolment	119	48.1	Expenditure	101	6.3
Net enrolment rate in primary education	126	38.9	Government expenditure per tertiary student	72	6.3
Net enrolment rate in lower secondary education	109	61.7	Teaching staff compensation (% tertiary expenditure)	n/a	n/a
Net enrolment rate in upper secondary education	108	43.7	Enrolment	102	6.5
Completion	102	47.5	Enrolment in bachelor's or equivalent level (%)	101	8.9
Years of compulsory education in primary and secondary	3	92.3	Enrolment in master's, doctoral or equivalent (%) Resources	105 27	4.1 74.8
Completion rate in upper secondary education	97 108	22.9	Pupil-teacher ratio in tertiary education	90	55.3
Gross intake ratio to the last grade of lower secondary education Outcomes	113	24.4	Researchers in higher education (%)	2	94.2
Assessment of 15-year-old students in math, science and reading	n/a	n/a	Learning environment	89	43.4
Learning-adjusted years of schooling	114	24.4	Diversity and academic freedom	86	43.3
Educational enabling environment	108	44.1	Teachers in tertiary education, gender parity	n/a	n/a
Expenditure	105	19.1	Inbound mobility rate	n/a	n/a
Government expenditure on primary education (% GDP)	91	22.2	Academic freedom	97	43.3
Government expenditure on secondary education (% GDP)	111	6.6	Equity and inclusiveness	37	43.4
Government funding per primary student (% GDP per capita)	100	22.2	Gross attendance ratio for tertiary education, gender parity	22	88.4
Government funding per secondary student (% GDP per capita)	68	25.5	Gross attendance ratio for tertiary education, wealth parity	55	2.3
Resources	105	54.4	Gross attendance ratio for tertiary education, location parity	30	39.6
Pupil-trained teacher ratio in primary education	88	26.2	Outputs	124	28.3
Pupil-trained teacher ratio in secondary education	38	90.7	Attainment	107	4.4
Schools with access to computers in primary education (%)	77	46.2	Educational attainment rate, bachelor's or equivalent	98	6.4
Schools with access to computers in secondary education (%)	n/a	n/a	Educational attainment rate, master's or equivalent	65	6.1
Early learning	76	58.3	Educational attainment rate, doctoral or equivalent	83	0.7
Gross enrolment ratio in early childhood education	49	58.3	Employment	123	52.5
Proportion of children who are developmentally on track	n/a	n/a	Labour force participation rate with advanced education	114	59.2
Proportion of children with stimulating home learning environments	n/a	n/a	Unemployment rate with advanced education	124	45.8
Pupil-trained teacher ratio in pre-primary education	n/a	n/a	Impact	106	27.9
Equity and inclusiveness	96	44.6	University-industry collaboration in R&D Citable documents per R&D personnel in higher education	47 94	51.5
Completion rate in upper secondary education, gender parity	84	87.6			
Completion rate in upper secondary education, wealth parity	68 74	2.5 43.8	RESEARCH, DEVELOPMENT AND INNOVATION	132	15.3
Completion rate in upper secondary education, location parity			Inputs	132	8.3
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	112	41.9	Inputs of R&D institutions GERD (% GDP)	123 97	2.9
TVET components	118	30.1	GERD per researcher	100	2.1
Continuous training and skilling	128	4.6	Researchers per thousand labour force	66	7
Firms offering formal training (%)	101	2.9	Tertiary graduates from STEM programmes (%)	n/a	n/a
Labour force participation rate with short-cycle tertiary education	n/a	n/a	Inputs of RDI in business enterprises	125	1.4
Participation rate in formal and non-formal education and training	110	6.2	GERD performed by business enterprises (%)	n/a	n/a
TVET structure	78	38.5	GERD financed by business enterprises (%)	n/a	n/a
Government expenditure on vocational education (%) Share of students enrolled in secondary vocational programmes	67	11.1	Researchers in business enterprises (%) Firms that spend on R&D (%)	n/a	n/a
Share of students enrolled in post-secondary vocational programmes Share of students enrolled in post-secondary vocational programmes	1	100	Inputs of societal innovation	100 98	23.9
TVET quality and qualifications	35	47.3	High-skilled employment (%)	98	13.7
Extent of staff training	58	59.6	Intellectual property payments (% total trade)	80	4.9
Quality of vocational training	65	54.6	State of cluster development	44	53.2
Ratio of high-skill TVET occupations earnings to average wage	25	32.9	Outputs	91	21.9
Ratio of medium-skill TVET occupations earnings to average wage	15	42.2	Outputs of R&D institutions	53	37.8
TVET labour market	99	53.6	Average documents per researcher	88	9.3
Efficiency of the labour market	71	66.6	Citations per document Resident patent applications (per 100 billion GDP)	6 86	66.7 37.6
Firms constrained with inadequately educated workforce (%)	43	69.8	Outputs of RDI in business enterprises	123	1.9
Employment educational mismatch (%)	95	38.5	Intellectual property receipts (% total trade)	80	0.8
Proportion of skilled production workers	43	66.9	Industrial design applications (per 100 billion GDP)	89	2.5
Unemployment rate with vocational education	15	91.3	PCT applications (per 100 billion GDP)	122	0
Post-TVET employment	67	46.3	Firms producing new products and services (%)	101	4.2
Share of TVET occupations	96	37.2	Outputs of societal innovation	101	10
Manufacturing employment (%)	36	55.3	Trademark applications (per 100 billion GDP)	71	18.7
Equity and inclusiveness	112	47.9	Cultural goods exports (% exports) Printing and publishing output (% manufactured output)	88 85	2.5 8.8
Enrolment in vocational education, gender parity	98	53.3	Impact	128	15.6
Vulnerable employment rate	103	42.5	Quality	65	32
			Research institutions prominence	33	62.9
			Growth of innovative companies	39	54.1
			ISO 9001 quality certificates (per billion GDP)	87	5.8
			ISO 14001 environmental certificates (per billion GDP)	83	5.4
			Linkages GERD financed from abroad (%)	75 88	14.6
			GERD financed from abroad (%) Joint ventures per strategic alliance deals (per billion GDP)	88 48	9.9
			Computer software spending (% GDP)	29	31.3
			Business development	130	0.2
			New business density per thousand population	116	0.4
			Firms with products and services new to the market (%)	102	0

	Rank	Valu
NFORMATION AND COMMUNICATIONS TECHNOLOGY	109	29.7
nfrastructure	105	43.9
Coverage	115	41.4
3G/4G mobile network coverage (% population)	113	72.9
Secure Internet servers per 1 million population	108	34.1
nvestment in telecommunication services (% GDP)	107	17.3
Quality	112	3.9
Mobile upload and download speeds	81	8.1
Fixed-broadband upload and download speeds	94	2
Fixed-broadband subscriptions by speed per hundred people	105	1.7
Affordability	79	86.4
Fixed broadband basket (% GNI per capita)	109	62.4
Mobile broadband basket (% GNI per capita)	39	96.8
nternet and telephony competition	1	100
Access	117	18.6
Subscriptions	107	34.6
Active mobile-broadband subscriptions per hundred inhabitants	115	20.1
nternational Internet bandwidth per user	55	51.8
Households with Internet access at home (%)	106	31.9
Skills and employment	126	2.6
ndividuals with standard ICT skills (%)	85	0.4
Fertiary graduates from ICT programmes (%)	n/a	n/a
CT employment (%)	89	4.8
Jsage .	106	26.5
Services	110	27.5
Government online services	87	56.6
Fixed broadband Internet traffic per subscription	54	21.7
Mobile broadband Internet traffic per subscription	63	15.5
nternet users (%)	127	16.2
Dutcomes	88	25.5
CT PCT patent applications (per 100 billion GDP)	108	0.1
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	93	36.4
E-participation	93 n/a	36.4
E-participation nternet activities by individuals (%)	n/a	n/a
E-participation nternet activities by individuals (%) Trade in digitally deliverable services (% total trade)	n/a 53	n/a 39.9
E-participation Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY	n/a 53 94	n/a 39.9 43.7
E-participation Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness	n/a 53 94	n/a 39.9 43.7 45.5
E-participation Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness Infrastructure investment	n/a 53 94 90	n/a 39.9 43.7 45.5 38.1
E-participation Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP)	n/a 53 94 90 110 124	n/a 39.9 43.7 45.5 38.1 3.9
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E-participation Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity	n/a 53 94 90 110 124 111 102	n/a 39.9 43.7 45.5 38.1 3.9 35.5 26.4
E-participation Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Suliding quality control	n/a 53 94 90 110 124 111 102 43	n/a 39.9 43.7 45.5 38.1 3.9 35.5 26.4 86.5
E-participation Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Fransport productive capacity Building quality control Business agility	n/a 53 94 90 110 124 111 102 43 72	n/a 39.9 43.7 45.5 38.1 3.9 35.5 26.4 86.5 52.8
E-participation Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) 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	n/a 53 94 90 110 124 111 102 43 72 60	n/a 39.9 43.7 45.5 38.1 3.9 35.5 26.4 86.5 52.8
E-participation Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY 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	n/a 53 94 90 110 124 111 102 43 72 60 48	n/a 39.9 43.7 45.5 38.1 3.9 35.5 26.4 86.5 52.8 89.3 46.6
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	Rank	Rank Value	
ENABLING ENVIRONMENT	128	35.1	
Governance	119	20.7	
Political environment	119	15.9	
Peace and stability	128	6.6	
Voice and accountability	104	25.1	
Quality of institutions	109	25.6	
Rule of law	108	22.6	
Control of corruption	103	29.2	
Government effectiveness	109	25	
Socio-economic	122	33.2	
Gender equity	131	37.6	
Female-to-male ratio in parliament	90	25.7	
Female-to-male labour force participation	128	30.4	
Female-to-male ratio in Internet usage	106	56.6	
Social inclusion	124	26.1	
Social protection coverage (% population)	95	17.8	
Adult literacy rate	95	42.2	
Youth not in employment, education or training (%)	122	18.3	
Standard of living	81	36	
Poverty headcount ratio (% population)	59	67.9	
GDP per capita	106	4.1	
Health and environment	129	51.3	
Health	118	44.7	
Universal health coverage	115	45.2	
Healthy life expectancy (years)	113	43.1	
Under-five mortality rate	120	45.8	
Environmental performance	46	57.9	
Renewable energy consumption (%)	36	48.5	
Ecological footprint per capita	3	99.1	
Natural hazard exposure	126	26	

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