

NEPAL

GKI RANK 101 /133

GKI SCORE

38.6

WORLD AVERAGE

47.5

COUNTRY PERFORMANCE SUMMARY

Nepal is a modest performer in terms of its knowledge infrastructure. It ranks 101st out of 133 countries in the Global Knowledge Index 2023 and 12th out of the 25 countries with medium human development.

AREAS OF STRENGTH

- + Gross intake ratio to the last grade of lower secondary education
- + Gross enrolment ratio in early childhood education
- + Ecological footprint per capita
- + Enrolment in vocational education, gender parity
- + Cultural goods exports (% exports)

AREAS OF IMPROVEMENT

- Market concentration
- Fixed broadband Internet traffic per subscription
- Pupil-teacher ratio in tertiary education
- Labour underutilization rate
- Chinn-Ito financial openness

KEY INDICATORS

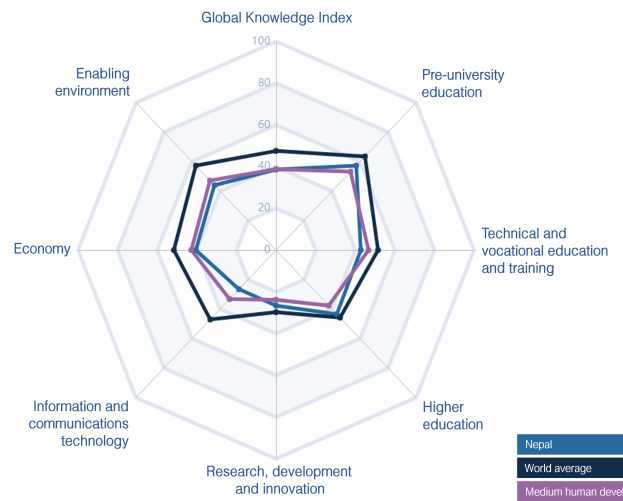
GDP (US\$ billions): 122.242

Population: 30,034,990

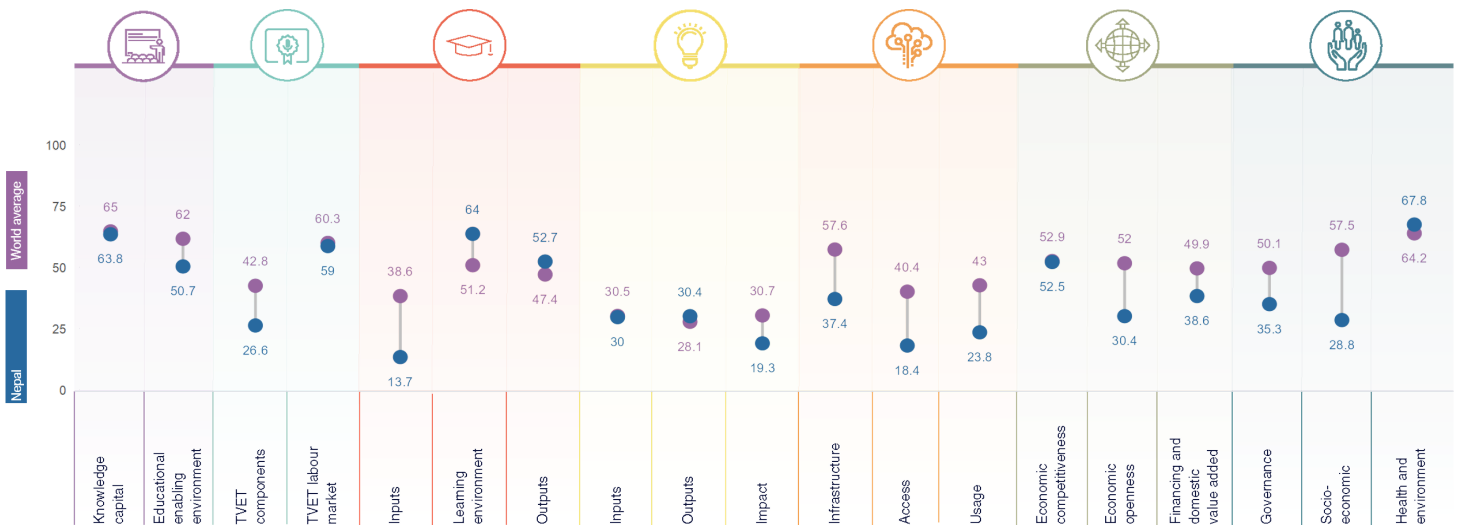
HDI: 0.602

SECTORAL INDICES

	RANK	VALUE
PRE-UNIVERSITY EDUCATION	97	57.3
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	106	42.8
HIGHER EDUCATION	77	43.4
RESEARCH, DEVELOPMENT AND INNOVATION	69	26.6
INFORMATION AND COMMUNICATIONS TECHNOLOGY	118	26.5
ECONOMY	111	40.5
ENABLING ENVIRONMENT	106	44



GKI PILLARS





Rank Value

Rank Value

PRE-UNIVERSITY EDUCATION	97	57.3
Knowledge capital	82	63.8
Enrolment	68	88.1
Net enrolment rate in primary education	65	91.8
Net enrolment rate in lower secondary education	62	94.5
Net enrolment rate in upper secondary education	70	78
Completion	96	58
Years of compulsory education in primary and secondary	104	61.5
Completion rate in upper secondary education	89	35.5
Gross intake ratio to the last grade of lower secondary education	6	76.8
Outcomes	76	45.4
Assessment of 15-year-old students in math, science and reading	n/a	n/a
Learning-adjusted years of schooling	87	45.4
Educational enabling environment	100	50.7
Expenditure	83	27
Government expenditure on primary education (% GDP)	36	39.2
Government expenditure on secondary education (% GDP)	59	31.6
Government funding per primary student (% GDP per capita)	86	28.7
Government funding per secondary student (% GDP per capita)	96	8.6
Resources	106	53
Pupil-trained teacher ratio in primary education	44	81.1
Pupil-trained teacher ratio in secondary education	71	65
Schools with access to computers in primary education (%)	95	19.2
Schools with access to computers in secondary education (%)	102	46.9
Early learning	44	71.1
Gross enrolment ratio in early childhood education	6	92.9
Proportion of children who are developmentally on track	40	44.4
Proportion of children with stimulating home learning environments	16	64.3
Pupil-trained teacher ratio in pre-primary education	48	82.8
Equity and inclusiveness	90	51.6
Completion rate in upper secondary education, gender parity	43	94.7
Completion rate in upper secondary education, wealth parity	49	17.3
Completion rate in upper secondary education, location parity	75	42.8
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	106	42.8
TVET components	124	26.6
Continuous training and skilling	92	33.1
Firms offering formal training (%)	51	40.1
Labour force participation rate with short-cycle tertiary education	n/a	n/a
Participation rate in formal and non-formal education and training	40	26.2
TVET structure	125	5.3
Government expenditure on vocational education (%)	69	9
Share of students enrolled in secondary vocational programmes	116	1.5
Share of students enrolled in post-secondary vocational programmes	n/a	n/a
TVET quality and qualifications	73	41.3
Extent of staff training	105	47.9
Quality of vocational training	102	43.8
Ratio of high-skill TVET occupations earnings to average wage	24	33.2
Ratio of medium-skill TVET occupations earnings to average wage	24	40.1
TVET labour market	81	59
Efficiency of the labour market	66	67.6
Firms constrained with inadequately educated workforce (%)	20	83.7
Employment educational mismatch (%)	81	50.1
Proportion of skilled production workers	23	74.1
Unemployment rate with vocational education	111	62.5
Post-TVET employment	49	52.2
Share of TVET occupations	74	50.7
Manufacturing employment (%)	38	53.8
Equity and inclusiveness	99	57.3
Enrolment in vocational education, gender parity	8	96.5
Vulnerable employment rate	119	18.1

HIGHER EDUCATION	77	43.4
Inputs	127	13.7
Expenditure	76	19.4
Government expenditure per tertiary student	107	1.2
Teaching staff compensation (% tertiary expenditure)	48	37.6
Enrolment	96	8.4
Enrolment in bachelor's or equivalent level (%)	99	9.5
Enrolment in master's, doctoral or equivalent (%)	84	7.4
Resources	126	13.2
Pupil-teacher ratio in tertiary education	113	13.2
Researchers in higher education (%)	n/a	n/a
Learning environment	32	64
Diversity and academic freedom	3	85.9
Teachers in tertiary education, gender parity	n/a	n/a
Inbound mobility rate	n/a	n/a
Academic freedom	40	85.9
Equity and inclusiveness	42	42
Gross attendance ratio for tertiary education, gender parity	8	95
Gross attendance ratio for tertiary education, wealth parity	43	5.9
Gross attendance ratio for tertiary education, location parity	48	25.1
Outputs	51	52.7
Attainment	n/a	n/a
Educational attainment rate, bachelor's or equivalent	n/a	n/a
Educational attainment rate, master's or equivalent	n/a	n/a
Educational attainment rate, doctoral or equivalent	n/a	n/a
Employment	104	66
Labour force participation rate with advanced education	111	59.5
Unemployment rate with advanced education	93	72.5
Impact	58	39.4
University-industry collaboration in R&D	91	39.4
Citable documents per R&D personnel in higher education	n/a	n/a
RESEARCH, DEVELOPMENT AND INNOVATION	69	26.6
Inputs	57	30
Inputs of R&D institutions	n/a	n/a
GERD (% GDP)	n/a	n/a
GERD per researcher	n/a	n/a
Researchers per thousand labour force	n/a	n/a
Tertiary graduates from STEM programmes (%)	n/a	n/a
Inputs of RDI in business enterprises	48	30.4
GERD performed by business enterprises (%)	n/a	n/a
GERD financed by business enterprises (%)	n/a	n/a
Researchers in business enterprises (%)	n/a	n/a
Firms that spend on R&D (%)	36	30.4
Inputs of societal innovation	79	29.7
High-skilled employment (%)	89	16.7
Intellectual property payments (% total trade)	n/a	n/a
State of cluster development	94	42.6
Outputs	49	30.4
Outputs of R&D institutions	86	28.9
Average documents per researcher	n/a	n/a
Citations per document	93	24.2
Resident patent applications (per 100 billion GDP)	97	33.7
Outputs of RDI in business enterprises	25	33.2
Intellectual property receipts (% total trade)	n/a	n/a
Industrial design applications (per 100 billion GDP)	100	1.1
PCT applications (per 100 billion GDP)	n/a	n/a
Firms producing new products and services (%)	22	65.4
Outputs of societal innovation	26	30.5
Trademark applications (per 100 billion GDP)	56	25.5
Cultural goods exports (% exports)	12	51.1
Printing and publishing output (% manufactured output)	59	14.9
Impact	116	19.3
Quality	88	25.3
Research institutions prominence	76	45.8
Growth of innovative companies	98	42.6
ISO 9001 quality certificates (per billion GDP)	67	9.8
ISO 14001 environmental certificates (per billion GDP)	99	3
Linkages	121	3
GERD financed from abroad (%)	n/a	n/a
Joint ventures per strategic alliance deals (per billion GDP)	78	4.4
Computer software spending (% GDP)	114	1.5
Business development	103	29.6
New business density per thousand population	77	5.5
Firms with products and services new to the market (%)	90	53.8



	Rank	Value		Rank	Value
INFORMATION AND COMMUNICATIONS TECHNOLOGY			118 26.5		
Infrastructure			112 37.4		
Coverage	116	39.9			
3G/4G mobile network coverage (% population)	124	37.3			
Secure Internet servers per 1 million population	94	42.6			
Investment in telecommunication services (% GDP)	n/a	n/a			
Quality	118	3.3			
Mobile upload and download speeds	96	4.5			
Fixed-broadband upload and download speeds	78	5.4			
Fixed-broadband subscriptions by speed per hundred people	120	0.1			
Affordability	109	69			
Fixed broadband basket (% GNI per capita)	105	65.4			
Mobile broadband basket (% GNI per capita)	98	80.1			
Internet and telephony competition	111	61.5			
Access	118	18.4			
Subscriptions	112	31.4			
Active mobile-broadband subscriptions per hundred inhabitants	106	23.6			
International Internet bandwidth per user	99	43.2			
Households with Internet access at home (%)	111	27.5			
Skills and employment	120	5.3			
Individuals with standard ICT skills (%)	n/a	n/a			
Tertiary graduates from ICT programmes (%)	n/a	n/a			
ICT employment (%)	87	5.3			
Usage	113	23.8			
Services	118	23.7			
Government online services	104	45.9			
Fixed broadband Internet traffic per subscription	98	0			
Mobile broadband Internet traffic per subscription	116	0.4			
Internet users (%)	104	48.7			
Outcomes	93	23.9			
ICT PCT patent applications (per 100 billion GDP)	n/a	n/a			
E-participation	118	23.9			
Internet activities by individuals (%)	n/a	n/a			
Trade in digitally deliverable services (% total trade)	90	23.9			
ECONOMY			111 40.5		
Economic competitiveness			69 52.5		
Infrastructure investment	91	43.8			
Gross fixed capital formation (% GDP)	23	36.2			
Logistics performance	96	37.8			
Transport productive capacity	85	34.4			
Building quality control	91	66.7			
Business agility	53	61.2			
Ease of starting a business	105	81.7			
Insolvency recovery rate	52	44.8			
Entrepreneurial employee activity rate	n/a	n/a			
Extent of corporate transparency	76	57.1			
Economic openness	126	30.4			
Trade and diversification	123	37			
Trade (% GDP)	109	6.7			
High-technology trade (% total trade)	43	32.1			
Product concentration	72	72.9			
Market concentration	129	36.2			
Financial openness	124	23.8			
Chinn-Ito financial openness	86	16.4			
Foreign direct investment, net inflows (% GDP)	114	31.2			
Debt dynamics	n/a	n/a			
Financing and domestic value added	113	38.6			
Financing and taxes	33	65.6			
Domestic credit to private sector (% GDP)	26	34.4			
MSME financing gap (% GDP)	50	77.5			
Tax and contribution rate (% profit)	85	65.6			
Bank non-performing loans (%)	45	84.8			
Domestic value added	130	11.6			
Medium- and high-tech activities value added	97	12.6			
Industry and services value added (% GDP)	125	14.8			
Labour underutilization rate	127	13.3			
Output per worker	104	5.8			
ENABLING ENVIRONMENT			106 44		
Governance			92 35.3		
Political environment	70	41.3			
Peace and stability	77	37.7			
Voice and accountability	73	44.9			
Quality of institutions	100	29.2			
Rule of law	90	34			
Control of corruption	123	16			
Government effectiveness	88	37.7			
Socio-economic	128	28.8			
Gender equity	115	51.8			
Female-to-male ratio in parliament	45	49.5			
Female-to-male labour force participation	116	54.1			
Female-to-male ratio in Internet usage	n/a	n/a			
Social inclusion	122	31.8			
Social protection coverage (% population)	99	14.5			
Adult literacy rate	90	60.3			
Youth not in employment, education or training (%)	120	20.4			
Standard of living	129	2.9			
Poverty headcount ratio (% population)	n/a	n/a			
GDP per capita	113	2.9			
Health and environment	45	67.8			
Health	101	63.3			
Universal health coverage	104	53.7			
Healthy life expectancy (years)	98	58.3			
Under-five mortality rate	97	77.8			
Environmental performance	26	72.4			
Renewable energy consumption (%)	15	77.5			
Ecological footprint per capita	8	97.6			
Natural hazard exposure	103	42			

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