

INDIA

KEY INDICATORS

GDP (US\$ billions): 10,056.741

Population: 1,407,563,842

HDI: 0.633

GKI **95**/133

GKI SCORE

41.7

WORLD AVERAGE

47.5

COUNTRY PERFORMANCE SUMMARY

India is a modest performer in terms of its knowledge infrastructure. It ranks 95th out of 133 countries in the Global Knowledge Index 2023 and 8th out of the 25 countries with medium human development.

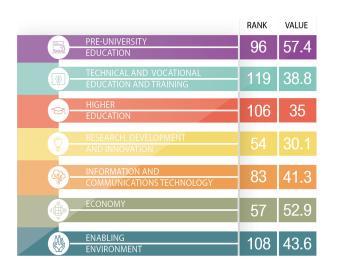
AREAS OF STRENGTH

- + Building quality control
- + Cultural goods exports (% exports)
- + Pupil-trained teacher ratio in pre-primary education
- Research institutions prominence
- + Trade in digitally deliverable services (% total trade)

AREAS OF IMPROVEMENT

- Natural hazard exposure
- Mobile upload and download speeds
- Firms offering formal training (%)
- Chinn-Ito financial openness
- Female-to-male labour force participation

SECTORAL INDICES





GKI PILLARS



	Rank Value			Rank Value	
PRE-UNIVERSITY EDUCATION	96	57.4	HIGHER EDUCATION	106	35
Knowledge capital	94	59.6	Inputs	117	23.6
Enrolment	92	76.8	Expenditure	99	7.5
Net enrolment rate in primary education	24	98.8	Government expenditure per tertiary student	67	7.5
Net enrolment rate in lower secondary education	95	81.3	Teaching staff compensation (% tertiary expenditure)	n/a	n/a
Net enrolment rate in upper secondary education	106	50.3	Enrolment	74	18.2
Completion	97	58	Enrolment in bachelor's or equivalent level (%)	81	19.9
Years of compulsory education in primary and secondary	104	61.5	Enrolment in master's, doctoral or equivalent (%)	59	16.4
Completion rate in upper secondary education	82	50.4	Resources	108	45.2
Gross intake ratio to the last grade of lower secondary education	72	62	Pupil-teacher ratio in tertiary education	91	54.3
Outcomes	78	44.2	Researchers in higher education (%)	71	36.1
Assessment of 15-year-old students in math, science and reading	n/a	n/a	Learning environment	78	46.6
Learning-adjusted years of schooling	88	44.2	Diversity and academic freedom	94	38.4
Educational enabling environment	94	55.2	Teachers in tertiary education, gender parity	47	76.9
Expenditure	76	31	Inbound mobility rate	110	0.4
Government expenditure on primary education (% GDP)	78	26.7	Academic freedom	102	37.9
Government expenditure on secondary education (% GDP)	56	32.2	Equity and inclusiveness	19	54.8
Government funding per primary student (% GDP per capita)	63	37.8	Gross attendance ratio for tertiary education, gender parity	30	84.6
Government funding per primary student (% GDP per capita)	64	27.5	Gross attendance ratio for tertiary education, wealth parity	26	17.9
	98	62.1	Gross attendance ratio for tertiary education, location parity	12	62
Resources Puril trained teacher ratio in primary education	63	70.2	Outputs	114	34.8
Pupil-trained teacher ratio in primary education			Attainment	68	18.1
Pupil-trained teacher ratio in secondary education	53	82.3		72	24.3
Schools with access to computers in primary education (%)	90	28.1	Educational attainment rate, bachelor's or equivalent		11.9
Schools with access to computers in secondary education (%)	90	67.8	Educational attainment rate, master's or equivalent	46	
Early learning	58	65.8	Educational attainment rate, doctoral or equivalent	n/a	n/a
Gross enrolment ratio in early childhood education	75	34.5	Employment	125	48.8
Proportion of children who are developmentally on track	n/a	n/a	Labour force participation rate with advanced education	119	50.4
Proportion of children with stimulating home learning environments	n/a	n/a	Unemployment rate with advanced education	122	47.1
Pupil-trained teacher ratio in pre-primary education	7	97.1	Impact	66	37.6
Equity and inclusiveness	82	62	University-industry collaboration in R&D	84	42.3
Completion rate in upper secondary education, gender parity	81	88.7	Citable documents per R&D personnel in higher education	26	32.8
Completion rate in upper secondary education, wealth parity	45	24.8	RESEARCH, DEVELOPMENT AND INNOVATION		30.1
Completion rate in upper secondary education, location parity	56	72.4	Inputs	60	29
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	119	38.8	Inputs of R&D institutions	65	27.2
TVET components	111	32.9	GERD (% GDP)	52	12.1
Continuous training and skilling	123	12.4	GERD per researcher	41	19.5
Firms offering formal training (%)	98	5.4	Researchers per thousand labour force	76	4.4
Labour force participation rate with short-cycle tertiary education	n/a	n/a	Tertiary graduates from STEM programmes (%)	22 64	72.9
Participation rate in formal and non-formal education and training	61	19.4	Inputs of RDI in business enterprises GERD performed by business enterprises (%)	48	5.5
TVET structure	49	51.9	GERD financed by business enterprises (%)	47	45.5
Government expenditure on vocational education (%)	19	50.2	Researchers in business enterprises (%)	35	41.3
Share of students enrolled in secondary vocational programmes	100	5.4	Firms that spend on R&D (%)	92	4.3
Share of students enrolled in post-secondary vocational programmes	1	100	Inputs of societal innovation	49	37.3
TVET quality and qualifications	116	34.4	High-skilled employment (%)	n/a	n/a
Extent of staff training	118	43.3	Intellectual property payments (% total trade)	24	29.9
Quality of vocational training	107	41.9	State of cluster development	85	44.7
Ratio of high-skill TVET occupations earnings to average wage	39	25.9	Outputs	44	30.9
Ratio of medium-skill TVET occupations earnings to average wage	74	26.4	Outputs of R&D institutions	63	35.2
TVET labour market	115	44.7	Average documents per researcher	65	17.1
Efficiency of the labour market	84	63.6	Citations per document	98	22
Firms constrained with inadequately educated workforce (%)	46	68	Resident patent applications (per 100 billion GDP)	20	66.4
Employment educational mismatch (%)	85	45.3	Outputs of RDI in business enterprises	104	8.2
Proportion of skilled production workers	48		Intellectual property receipts (% total trade)	46	4.9
	88	65.6	Industrial design applications (per 100 billion GDP)	40	14.8
Unemployment rate with vocational education		75.3	PCT applications (per 100 billion GDP)	41 98	5.6
Post-TVET employment	100	36.1	Firms producing new products and services (%) Outputs of societal innovation	10	7.5 45.1
Share of TVET occupations	112	30.3	Trademark applications (per 100 billion GDP)	50	28
Manufacturing employment (%)	56	41.8	Cultural goods exports (% exports)	1	100
Equity and inclusiveness	122	34.4	Printing and publishing output (% manufactured output)	89	7.4
Enrolment in vocational education, gender parity	104	47	Impact	63	30.3
Vulnerable employment rate	116	21.8	Quality	52	35.6
			Research institutions prominence	12	75.2
			Growth of innovative companies	90	43.7
			ISO 9001 quality certificates (per billion GDP)	47	14.9
			ISO 14001 environmental certificates (per billion GDP)	66	8.7
			Linkages	52	20.4
			GERD financed from abroad (%)	n/a	n/a
			Joint ventures per strategic alliance deals (per billion GDP)	27	17.4
			Computer software spending (% GDP)	53	23.4
			Business development	79	34.8
			New business density per thousand population	113	0.5

Firms with products and services new to the market (%)

45 69.1

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High-technology trade (% total trade)	52.9 60.8 57.5 37.9 60 35.2 96.9 64.2 81.6 77.9 11.5 85.7
Product concentration 41 Market concentration 20 Financial openness 81 Chinn-Ito financial openness 86 Foreign direct investment, net inflows (% GDP) 81 Debt dynamics 36 Financing and domestic value added 67 Financing and taxes 80 Domestic credit to private sector (% GDP) 65 MSME financing gap (% GDP) 26 fax and contribution rate (% profit) 109 Bank non-performing loans (%) 79	52.9 60.8 57.5 37.9 60 35.2 96.9 64.2 81.6 77.9 11.5 85.7 48.1
Financial openness 81 Chinn-Ito financial openness 86 Foreign direct investment, net inflows (% GDP) 81 Debt dynamics 36 Financing and domestic value added 67 Financing and taxes 80 Domestic credit to private sector (% GDP) 65 MSME financing gap (% GDP) 26 Tax and contribution rate (% profit) 109 Bank non-performing loans (%) 79	52.9 60.8 57.5 37.9 60 35.2 96.9 64.2 81.6 77.9 11.5 85.7 48.1
Chinn-Ito financial openness 86 Foreign direct investment, net inflows (% GDP) 81 Debt dynamics 36 Financing and domestic value added 67 Financing and taxes 80 Domestic credit to private sector (% GDP) 65 MSME financing gap (% GDP) 26 Tax and contribution rate (% profit) 109 Bank non-performing loans (%) 79	52.9 60.8 57.5 37.9 60 35.2 96.9 64.2 81.6 77.9 11.5 85.7 48.1
Foreign direct investment, net inflows (% GDP) 81 Debt dynamics 36 Financing and domestic value added 67 Financing and taxes 80 Domestic credit to private sector (% GDP) 65 MSME financing gap (% GDP) 26 Tax and contribution rate (% profit) 109 Bank non-performing loans (%) 79	52.9 60.8 57.5 37.9 60 35.2 96.9 64.2 81.6 77.9 11.5 85.7 6.7 28.1
Debt dynamics 36 Financing and domestic value added 67 Financing and taxes 80 Domestic credit to private sector (% GDP) 65 MSME financing gap (% GDP) 26 Fax and contribution rate (% profit) 109 Bank non-performing loans (%) 79	52.9 60.8 57.5 37.9 60 35.2 96.9 64.2 81.6 77.9 11.5 85.7 48.1 52.7 6.7 28.1
Financing and domestic value added Financing and taxes 80 Domestic credit to private sector (% GDP) 65 MSME financing gap (% GDP) 26 Fax and contribution rate (% profit) 109 Bank non-performing loans (%) 79	52.9 60.8 57.5 37.9 60 35.2 96.9 64.2 81.6 77.9 11.5 85.7 48.1 81.7 94.4
Financing and taxes 80 Domestic credit to private sector (% GDP) 65 MSME financing gap (% GDP) 26 Fax and contribution rate (% profit) 109 Bank non-performing loans (%) 79	52.9 60.8 57.5 37.9 60 35.2 96.9 64.2 81.6 77.9 11.5 85.7 6.7 28.1 81.7 94.4 43.5
Domestic credit to private sector (% GDP) 65 MSME financing gap (% GDP) 26 Fax and contribution rate (% profit) 109 Bank non-performing loans (%) 79	52.9 60.8 57.5 37.9 60 35.2 96.9 64.2 81.6 77.9 11.5 85.7 6.7 28.1 81.7 94.4 43.5
MSME financing gap (% GDP) 26 Fax and contribution rate (% profit) 109 Bank non-performing loans (%) 79	52.9 60.8 57.5 37.9 60 35.2 96.9 64.2 81.6 77.9 11.5 85.7 48.1 81.7 94.4 43.5 16.4 34
Fax and contribution rate (% profit) 109 Bank non-performing loans (%) 79	52.9 60.8 57.5 37.9 60 35.2 96.9 64.2 81.6 77.9 11.5 85.7 6.7 28.1 81.7 94.4 43.5 16.4 34 80
Bank non-performing loans (%) 79	52.9 60.8 57.5 37.9 60 35.2 96.9 64.2 81.6 77.9 11.5 85.7 6.7 28.1 81.7 94.4 43.5 16.4 34 80
	52.9 60.8 57.5 37.9 60 35.2 96.9 64.2 81.6 77.9 11.5 85.7 6.7 28.1 81.7 94.4 43.5 16.4 34 80 49.7 57.2
Domestic value added	52.9 60.8 57.5 37.9 60 35.2 96.9 64.2 81.6 77.9 11.5 85.7 6.7 28.1 81.7 94.4 43.5 16.4 34 80 49.7 57.2 16.8
Domestic value added 62	52.9 60.8 57.5 37.9 60 35.2 96.9 64.2 81.6 77.9 11.5 85.7 6.7 28.1 81.7 94.4 43.5 16.4 80 49.7 57.2 16.8 85.7
Medium- and high-tech activities value added 17	52.9 60.8 57.5 37.9 60 96.2 81.6 77.9 11.5 85.7 48.1 16.4 43.5 16.4 80 49.7 57.2 16.8 85.7 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8
Industry and services value added (% GDP) 110	52.9 60.8 57.5 37.9 60 35.2 81.6 77.9 11.5 85.7 48.1 43.5 16.4 43.5 16.8 80 49.7 57.2 68.6 68.6 68.6 64.2 35.2 68.6
Labour underutilization rate 55 Output per worker 97	52.9 60.8 57.5 37.9 60 96.2 81.6 77.9 11.5 85.7 48.1 16.4 43.5 16.4 80 49.7 57.2 16.8 85.7 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8

	Rank	Value
ENABLING ENVIRONMENT	108	43.6
Governance	69	45.6
Political environment	82	36.9
Peace and stability	98	24.5
Voice and accountability	66	49.3
Quality of institutions	59	54.2
Rule of law	71	44.3
Control of corruption	51	63.2
Government effectiveness	59	55.2
Socio-economic	131	27
Gender equity	132	36.8
Female-to-male ratio in parliament	113	18
Female-to-male labour force participation	126	32.7
Female-to-male ratio in Internet usage	105	59.6
Social inclusion	115	38.7
Social protection coverage (% population)	90	22.2
Adult literacy rate	84	67.4
Youth not in employment, education or training (%)	117	26.6
Standard of living	127	5.6
Poverty headcount ratio (% population)	n/a	n/a
GDP per capita	100	5.6
Health and environment	107	58.2
Health	100	64.3
Universal health coverage	93	63.3
Healthy life expectancy (years)	101	54.9
Under-five mortality rate	99	74.7
Environmental performance	73	52.1
Renewable energy consumption (%)	48	37.3
Ecological footprint per capita	15	96
Natural hazard exposure	128	23

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