



GUYANA

KEY INDICATORS

GDP US\$ billions	14.693
Population	786,559
HDI	0.682

GKI RANK 82/154

GKI SCORE 47.4

WORLD AVERAGE 48.4

COUNTRY PERFORMANCE SUMMARY

Guyana is a moderate performer in terms of its knowledge infrastructure. It ranks 82nd out of 154 countries in the Global Knowledge Index 2021 and 1st out of the 27 countries with medium human development.

AREAS OF STRENGTH

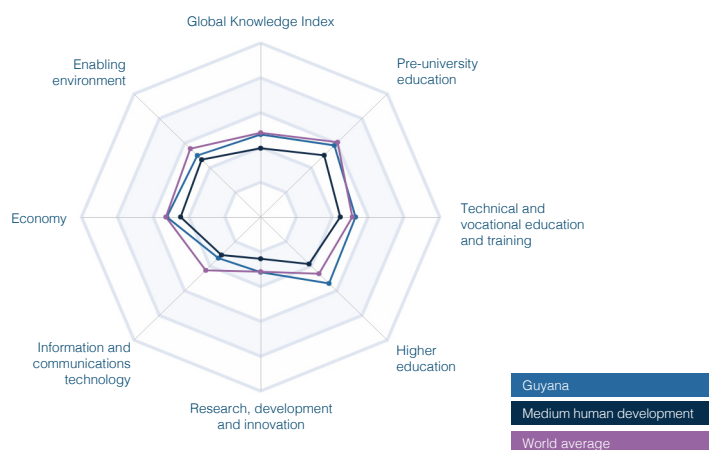
- + Firms that spend on R&D (%)
- + MSME financing gap (% GDP)
- + Foreign direct investment, net inflows (% GDP)
- + Firms offering formal training (%)
- + Trade in digitally deliverable services (% total trade)

AREAS OF IMPROVEMENT

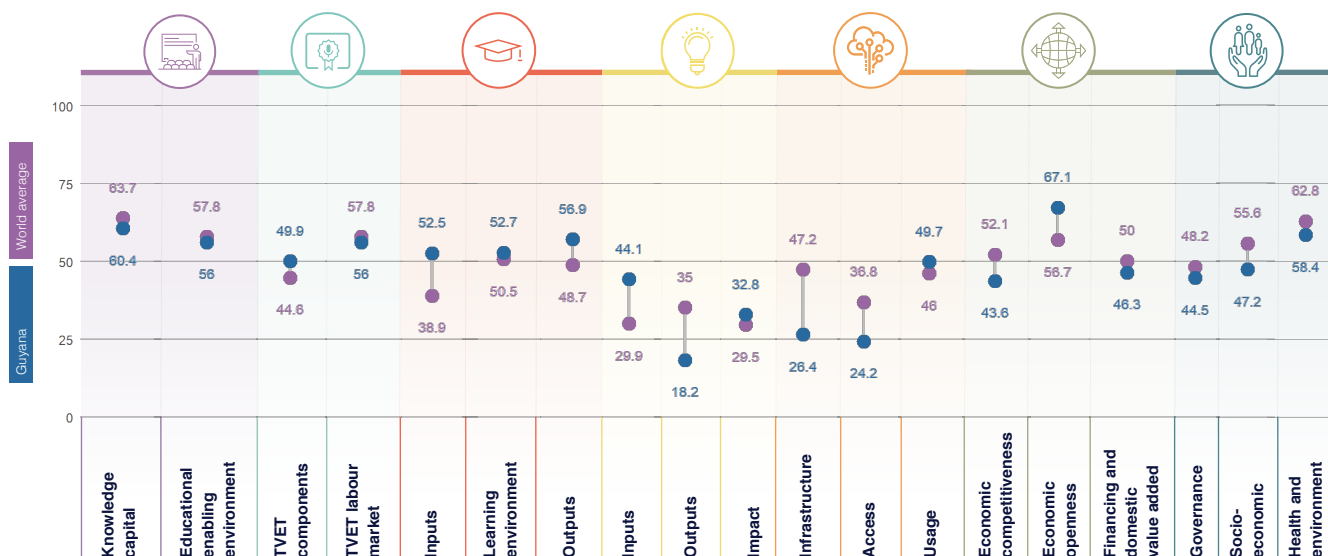
- Building quality control
- Youth not in employment, education or training (%)
- Government funding per secondary student (% of GDP per capita)
- High-technology trade (% total trade)
- Firms constrained with inadequately educated workforce (%)

SECTORAL INDICES

	RANK	VALUE
PRE-UNIVERSITY EDUCATION	94	58.2
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	72	53
HIGHER EDUCATION	36	54
RESEARCH, DEVELOPMENT AND INNOVATION	64	31.7
INFORMATION AND COMMUNICATIONS TECHNOLOGY	103	33.4
ECONOMY	71	52.4
ENABLING ENVIRONMENT	96	50



GKI PILLARS





	Rank	Value
PRE-UNIVERSITY EDUCATION	94	58.2
Knowledge capital	98	60.4
Enrolment	82	83.3
Net enrolment rate in primary education	60	94.5
Net enrolment rate in lower secondary education	75	89.7
Net enrolment rate in upper secondary education	94	65.7
Completion	108	55
Years of compulsory education in primary and secondary	132	46.2
Completion rate in upper secondary education	71	63.9
Gross intake ratio to the last grade of lower secondary education	n/a	n/a
Outcomes	88	43
Assessment of 15-year-old students in math, science and reading	n/a	n/a
Learning-adjusted years of schooling	99	43
Educational enabling environment	91	56
Expenditure	131	10.5
Government expenditure on primary education (% GDP)	123	15.4
Government expenditure on secondary education (% GDP)	114	11.2
Government funding per primary student (% GDP per capita)	122	12.7
Government funding per secondary student (% GDP per capita)	118	2.8
Resources	88	63.7
Pupil-trained teacher ratio in primary education	64	71.8
Pupil-trained teacher ratio in secondary education	70	55.5
Schools with access to computers in primary education (%)	n/a	n/a
Schools with access to computers in secondary education (%)	n/a	n/a
Early learning	11	82.2
Gross enrolment ratio in early childhood education	11	76.1
Proportion of children who are developmentally on track	13	79.9
Proportion of children with stimulating home learning environments	15	89.5
Pupil-trained teacher ratio in pre-primary education	47	83.4
Equity and inclusiveness	66	67.8
Completion rate in upper secondary education, gender parity	94	78.9
Completion rate in upper secondary education, wealth parity	64	42.9
Completion rate in upper secondary education, location parity	48	81.5
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	72	53
TVET components	46	49.9
Continuous training and skilling	52	54.6
Firms offering formal training (%)	6	79
Labour force with short-cycle tertiary education (%)	23	81.7
Participation rate in formal and non-formal education and training	72	3
TVET structure	67	48.3
Government expenditure on vocational education (%)	n/a	n/a
Share of students enrolled in secondary vocational programmes	99	8.4
Share of students enrolled in post-secondary vocational programmes	73	88.2
TVET quality and qualifications	64	46.9
Extent of staff training	52	52.9
Quality of vocational training	n/a	n/a
Ratio of high-skill TVET occupations earnings to average wage	44	31.1
Ratio of medium-skill TVET occupations earnings to average wage	18	56.8
TVET labour market	93	56
Efficiency of the labour market	133	44
Firms constrained with inadequately educated workforce (%)	124	3.9
Employment educational mismatch (%)	53	68.3
Proportion of skilled production workers	n/a	n/a
Unemployment rate with vocational education	97	59.8
Post-TVET employment	84	43
Share of TVET occupations	89	49.5
Manufacturing employment (%)	71	36.4
Equity and inclusiveness	45	80.9
Enrolment in vocational education, gender parity	23	92.1
Vulnerable employment rate	77	69.8

	Rank	Value
HIGHER EDUCATION	36	54
Inputs	27	52.5
Expenditure	96	14.2
Government expenditure per tertiary student	111	3.8
Teaching staff compensation (% tertiary expenditure)	65	24.5
Enrolment	n/a	n/a
Enrolment in bachelor's or equivalent level (%)	n/a	n/a
Enrolment in master's, doctoral or equivalent (%)	n/a	n/a
Resources	6	90.8
Pupil-teacher ratio in tertiary education	15	90.8
Researchers in higher education (%)	n/a	n/a
Learning environment	63	52.7
Diversity and academic freedom	60	56.4
Teachers in tertiary education, gender parity	22	88.8
Inbound mobility rate	109	1.4
Academic freedom	69	79.1
Equity and inclusiveness	33	49
Gross attendance ratio for tertiary education, gender parity	23	90.9
Gross attendance ratio for tertiary education, wealth parity	23	49.4
Gross attendance ratio for tertiary education, location parity	50	6.6
Outputs	47	56.9
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, doctorate or equivalent	n/a	n/a
Employment	93	67.9
Labour force participation rate with advanced education	114	48.9
Unemployment rate with advanced education	49	86.8
Impact	48	45.9
University-industry collaboration in R&D	51	45.9
Citable documents per R&D personnel in higher education	n/a	n/a
RESEARCH, DEVELOPMENT AND INNOVATION	64	31.7
Inputs	24	44.1
Inputs of R&D institutions	67	26.2
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 (%)	105	26.2
Inputs of RDI in business enterprises	2	97
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 (%)	2	97
Inputs of societal innovation	99	27.1
High-skilled employment (%)	37	36.3
Intellectual property payments (% total trade)	113	1.8
State of cluster development	86	43.3
Outputs	142	18.2
Outputs of R&D institutions	141	19.5
Average documents per researcher	n/a	n/a
Citations per document	87	19.5
Patent applications (per 100 billion GDP)	n/a	n/a
Outputs of RDI in business enterprises	69	32.8
Intellectual property receipts (% total trade)	105	2.1
Industrial design applications (per 100 billion GDP)	n/a	n/a
PCT applications (per 100 billion GDP)	70	50.3
Firms producing new goods and services (%)	61	46



GUYANA

	Rank	Value
Outputs of societal innovation	144	1.1
Trademark applications (per 100 billion GDP)	n/a	n/a
Cultural goods exports (% exports)	123	1.1
Printing and publishing output (% manufactured output)	n/a	n/a
Impact	62	32.8
Quality	146	3.4
Research institutions prominence	n/a	n/a
Growth of innovative companies	n/a	n/a
ISO 9001 quality certificates (% GDP)	99	5.8
ISO 14001 environmental certificates (% GDP)	132	1.1
Linkages	37	28.7
GERD financed from abroad (%)	n/a	n/a
Joint ventures per strategic alliance deals (% GDP)	26	28.7
Computer software spending (% GDP)	n/a	n/a
Business development	18	66.4
New business density per thousand population	n/a	n/a
Firms with new product/service (%)	66	66.4
INFORMATION AND COMMUNICATIONS TECHNOLOGY	103	33.4
Infrastructure	142	26.4
Coverage	128	31.1
3G/4G mobile network coverage (% population)	116	67.7
Secure Internet servers per 1 million population	122	1.3
Investment in telecommunication services (% GDP)	89	24.4
Quality	125	5.3
Mobile upload and download speeds	n/a	n/a
Fixed-broadband upload and download speeds	n/a	n/a
Fixed-broadband subscriptions by speed per hundred people	98	5.3
Affordability	141	42.7
Fixed broadband basket (% GNI per capita)	103	63.1
Mobile broadband basket (% GNI per capita)	122	39.9
Internet and telephony competition	146	25
Access	113	24.2
Subscriptions	110	29.7
Active mobile-broadband subscriptions per hundred inhabitants	135	10.6
International Internet bandwidth per user	32	50.4
Households with Internet access at home (%)	110	28.1
Skills and employment	100	18.7
Individuals with standard ICT skills (%)	n/a	n/a
Tertiary graduates from ICT programmes (%)	71	31
ICT employment (%)	97	6.4
Usage	71	49.7
Services	91	40.2
Government online services	115	46.5
Fixed broadband Internet traffic per subscription	n/a	n/a
Mobile broadband Internet traffic per subscription	n/a	n/a
Internet users (%)	114	33.9
Outcomes	47	59.3
ICT PCT patent applications (per 100 billion GDP)	27	61.8
E-participation	113	45.2
Internet activities by individuals (%)	n/a	n/a
Trade in digitally deliverable services (% total trade)	12	70.9
ECONOMY	71	52.4
Economic competitiveness	110	43.6
Infrastructure investment	145	33.1
Gross fixed capital formation (% GDP)	n/a	n/a
Logistics performance	128	34
Transport productive capacity	36	38.5
Building quality control	149	26.7

	Rank	Value
Business agility	75	54.2
Ease of starting a business	95	85.6
Insolvency recovery rate	126	20
Entrepreneurial employee activity rate	n/a	n/a
Extent of corporate transparency	79	57.1
Economic openness	43	67.1
Trade and diversification	129	48.4
Trade (% GDP)	n/a	n/a
High-technology trade (% total trade)	143	13.9
Product concentration	137	47.1
Market concentration	112	84.3
Financial openness	8	85.8
Chinn-Ito financial openness	60	71.7
Foreign direct investment, net inflows (% GDP)	1	100
Debt dynamics	n/a	n/a
Financing and domestic value added	96	46.3
Financing and taxes	57	61.5
Domestic credit to private sector (% GDP)	90	14.1
MSME financing gap (% GDP)	4	93.4
Tax and contribution rate (% profit)	43	77
Bank non-performing loans (%)	n/a	n/a
Domestic value added	123	31.1
Medium- and high-tech activities value added	n/a	n/a
Industry and services value added (% GDP)	104	54.1
Labour underutilization rate	139	28
Output per worker	91	11.2
ENABLING ENVIRONMENT	96	50
Governance	78	44.5
Political environment	66	48.3
Peace and stability	80	42.5
Voice and accountability	63	54.1
Quality of institutions	85	40.7
Rule of law	97	36.1
Control of corruption	74	48.6
Government effectiveness	97	37.5
Socio-economic	105	47.2
Gender equity	105	58.2
Female-to-male ratio in parliament	37	55.6
Female-to-male labour force participation	117	60.8
Female-to-male ratio in Internet usage	n/a	n/a
Social inclusion	70	67.2
Social protection coverage (% population)	1	100
Adult literacy rate	80	81.5
Youth not in employment, education or training (%)	149	19.9
Standard of living	133	16.4
Poverty headcount ratio (% population)	n/a	n/a
GDP per capita	60	16.4
Health and environment	113	58.4
Health	108	64
Universal health coverage	68	72
Healthy life expectancy (years)	125	43.6
Under-five mortality rate	107	76.3
Environmental performance	78	52.8
Renewable energy consumption (%)	94	17.4
Ecological footprint per capita	85	79.8
Natural hazard exposure	59	61

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