



# GUYANA

## KEY INDICATORS

GDP (US\$ billions): **17.621**

Population: **804,567**

HDI: **0.714**

**GKI  
RANK**

**64** /132

**GKI  
SCORE**

**45.9**

**WORLD  
AVERAGE**

**46.5**

## COUNTRY PERFORMANCE SUMMARY

Guyana is a moderate performer in terms of its knowledge infrastructure. It ranks 64<sup>th</sup> out of 132 countries in the Global Knowledge Index 2022 and 9<sup>th</sup> out of the 28 countries with high human development.

## AREAS OF STRENGTH

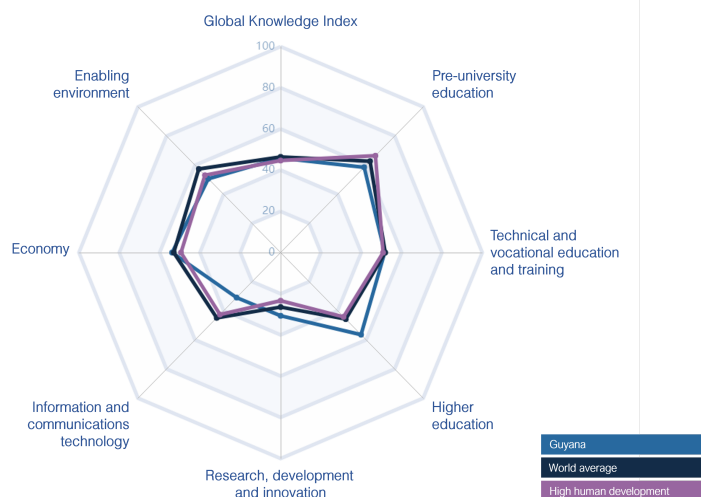
- + Firms that spend on R&D (%)
- + Foreign direct investment, net inflows (% GDP)
- + MSME financing gap (% GDP)
- + Gross enrolment ratio in early childhood education
- + Firms offering formal training (%)

## AREAS OF IMPROVEMENT

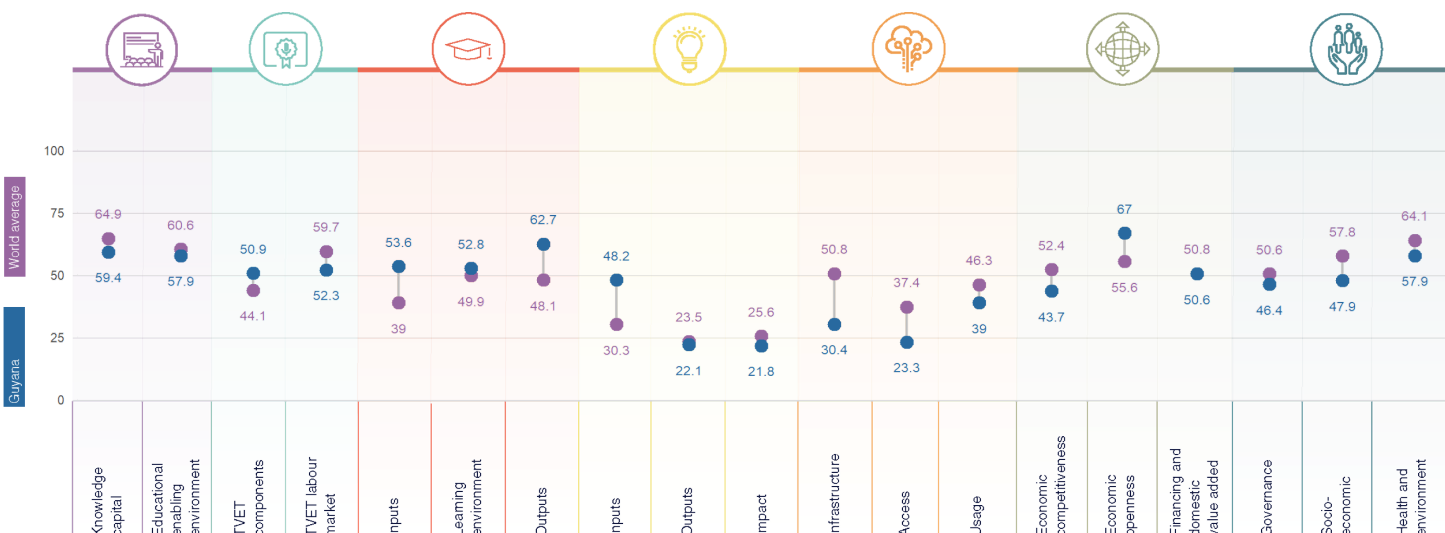
- Firms constrained with inadequately educated workforce (%)
- Research institutions prominence
- Building quality control
- Youth not in employment, education or training (%)
- Government funding per secondary student (% GDP per capita)

## SECTORAL INDICES

	RANK	VALUE
PRE-UNIVERSITY EDUCATION	88	58.6
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	71	51.6
HIGHER EDUCATION	28	56.4
RESEARCH, DEVELOPMENT AND INNOVATION	33	30.7
INFORMATION AND COMMUNICATIONS TECHNOLOGY	103	30.9
ECONOMY	58	53.8
ENABLING ENVIRONMENT	88	50.7



## GKI PILLARS





# GUYANA

	Rank Value			Rank Value	
PRE-UNIVERSITY EDUCATION	88	58.6	HIGHER EDUCATION	28	56.4
Knowledge capital	91	59.4	Inputs	12	53.6
Enrolment	78	83.21	Expenditure	64	25.08
Net enrolment rate in primary education	60	93.59	Government expenditure per tertiary student	102	1.83
Net enrolment rate in lower secondary education	78	89.76	Teaching staff compensation (% tertary expenditure)	36	48.33
Net enrolment rate in upper secondary education	88	66.29	Enrolment	n/a	n/a
Completion	98	54.04	Enrolment in bachelor's or equivalent level (%)	n/a	n/a
Years of compulsory education in primary and secondary	116	46.15	Enrolment in master's, doctoral or equivalent (%)	n/a	n/a
Completion rate in upper secondary education	73	61.92	Resources	14	82.16
Gross intake ratio to the last grade of lower secondary education	n/a	n/a	Pupil-teacher ratio in tertiary education	39	82.16
Outcomes	87	40.89	Researchers in higher education (%)	n/a	n/a
Assessment of 15-year-old students in math, science and reading	n/a	n/a	Learning environment	52	52.2
Learning-adjusted years of schooling	93	40.89	Diversity and academic freedom	49	56.66
Educational enabling environment	87	57.9	Teachers in tertiary education, gender parity	25	88.75
Expenditure	120	10.17	Inbound mobility rate	103	1.02
Government expenditure on primary education (% GDP)	110	16.41	Academic freedom	56	80.2
Government expenditure on secondary education (% GDP)	101	10.8	Equity and inclusiveness	27	48.99
Government funding per primary student (% GDP per capita)	111	10.6	Gross attendance ratio for tertiary education, gender parity	18	90.92
Government funding per secondary student (% GDP per capita)	105	2.86	Gross attendance ratio for tertiary education, wealth parity	43	6.62
Resources	74	70.38	Gross attendance ratio for tertiary education, location parity	17	49.44
Pupil-trained teacher ratio in primary education	65	68.9	Outputs	13	62.7
Pupil-trained teacher ratio in secondary education	68	71.86	Attainment	n/a	n/a
Schools with access to computers in primary education (%)	n/a	n/a	Educational attainment rate, bachelor's or equivalent	n/a	n/a
Schools with access to computers in secondary education (%)	n/a	n/a	Educational attainment rate, master's or equivalent	n/a	n/a
Early learning	17	83.29	Educational attainment rate, doctoral or equivalent	n/a	n/a
Gross enrolment ratio in early childhood education	7	83.82	Employment	59	79.44
Proportion of children who are developmentally on track	13	79.86	Labour force participation rate with advanced education	48	77.41
Proportion of children with stimulating home learning environments	13	87.32	Unemployment rate with advanced education	73	81.48
Pupil-trained teacher ratio in pre-primary education	44	82.18	Impact	35	45.95
Equity and inclusiveness	72	67.77	University-industry collaboration in R&D	55	45.95
Completion rate in upper secondary education, gender parity	99	78.87	Citable documents per R&D personnel in higher education	n/a	n/a
Completion rate in upper secondary education, wealth parity	65	42.93	RESEARCH, DEVELOPMENT AND INNOVATION	33	30.7
Completion rate in upper secondary education, location parity	52	81.5	Inputs	20	48.2
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	71	51.6	Inputs of R&D institutions	44	35.97
TVET components	32	50.9	GERD (% GDP)	n/a	n/a
Continuous training and skilling	25	59.55	GERD per researcher	n/a	n/a
Firms offering formal training (%)	6	84.22	Researchers per thousand labour force	n/a	n/a
Labour force participation rate with short-cycle tertiary education	23	76.61	Tertiary graduates from STEM programmes (%)	102	35.97
Participation rate in formal and non-formal education and training	107	17.82	Inputs of RDI in business enterprises	1	96.99
TVET structure	63	49.38	GERD performed by business enterprises (%)	n/a	n/a
Government expenditure on vocational education (%)	n/a	n/a	GERD financed by business enterprises (%)	n/a	n/a
Share of students enrolled in secondary vocational programmes	87	8.46	Researchers in business enterprises (%)	n/a	n/a
Share of students enrolled in post-secondary vocational programmes	70	90.3	Firms that spend on R&D (%)	2	96.99
TVET quality and qualifications	55	43.71	Inputs of societal innovation	94	23.98
Extent of staff training	57	52.87	High-skilled employment (%)	70	27.11
Quality of vocational training	63	52.6	Intellectual property payments (% total trade)	99	1.76
Ratio of high-skill TVET occupations earnings to average wage	42	24.46	State of cluster development	84	43.08
Ratio of medium-skill TVET occupations earnings to average wage	14	44.92	Outputs	61	22.1
TVET labour market	98	52.3	Outputs of R&D institutions	29	35.78
Efficiency of the labour market	125	40.8	Average documents per researcher	n/a	n/a
Firms constrained with inadequately educated workforce (%)	109	0	Citations per document	55	35.78
Employment educational mismatch (%)	52	69.76	Resident patent applications (per 100 billion GDP)	n/a	n/a
Proportion of skilled production workers	n/a	n/a	Outputs of RDI in business enterprises	71	16.02
Unemployment rate with vocational education	113	52.65	Intellectual property receipts (% total trade)	92	0.09
Post-TVET employment	79	43.53	Industrial design applications (per 100 billion GDP)	n/a	n/a
Share of TVET occupations	81	49.53	PCT applications (per 100 billion GDP)	66	2.24
Manufacturing employment (%)	70	37.52	Firms producing new products and services (%)	58	45.73
Equity and inclusiveness	70	72.53	Outputs of societal innovation	128	0.7
Enrolment in vocational education, gender parity	n/a	n/a	Trademark applications (per 100 billion GDP)	n/a	n/a
Vulnerable employment rate	69	72.53	Cultural goods exports (% exports)	112	0.7
			Printing and publishing output (% manufactured output)	n/a	n/a
			Impact	83	21.8
			Quality	100	13.86
			Research institutions prominence	114	0
			Growth of innovative companies	57	50.8
			ISO 9001 quality certificates (per billion GDP)	97	3.78
			ISO 14001 environmental certificates (per billion GDP)	124	0.85
			Linkages	47	21.33
			GERD financed from abroad (%)	n/a	n/a
			Joint ventures per strategic alliance deals (per billion GDP)	24	21.33
			Computer software spending (% GDP)	n/a	n/a
			Business development	76	30.24
			New business density per thousand population	68	6.44
			Firms with products and services new to the market (%)	59	54.04



# GUYANA

	Rank	Value		Rank	Value
INFORMATION AND COMMUNICATIONS TECHNOLOGY			ENABLING ENVIRONMENT		
103 30.9			88 50.7		
Infrastructure			Governance		
118 30.4			67 46.4		
Coverage			Political environment		
115 27.3			56 49.24		
3G/4G mobile network coverage (% population)			Peace and stability		
110 64.72			69 42.92		
Secure Internet servers per 1 million population			Voice and accountability		
109 0.05			53 55.56		
Investment in telecommunication services (% GDP)			Quality of institutions		
75 17.12			78 43.59		
Quality			Rule of law		
102 5.37			86 38.46		
Mobile upload and download speeds			Control of corruption		
n/a n/a			65 50		
Fixed-broadband upload and download speeds			Government effectiveness		
n/a n/a			85 42.31		
Fixed-broadband subscriptions by speed per hundred people			Socio-economic		
91 5.37			98 47.9		
Affordability			Gender equity		
119 58.49			99 59.58		
Fixed broadband basket (% GNI per capita)			Female-to-male ratio in parliament		
92 76.11			36 55.56		
Mobile broadband basket (% GNI per capita)			Female-to-male labour force participation		
110 74.37			102 63.61		
Internet and telephony competition			Female-to-male ratio in Internet usage		
125 25			n/a n/a		
Access			Social inclusion		
101 23.3			65 65.88		
Subscriptions			Social protection coverage (% population)		
106 31.43			1 100		
Active mobile-broadband subscriptions per hundred inhabitants			Adult literacy rate		
117 12.97			73 84.78		
International Internet bandwidth per user			Youth not in employment, education or training (%)		
34 49.65			128 12.86		
Households with Internet access at home (%)			Standard of living		
102 31.66			116 18.29		
Skills and employment			Poverty headcount ratio (% population)		
95 15.25			n/a n/a		
Individuals with standard ICT skills (%)			GDP per capita		
n/a n/a			55 18.29		
Tertiary graduates from ICT programmes (%)			Health and environment		
69 25.66			107 57.9		
ICT employment (%)			Health		
88 4.85			96 64.71		
Usage			Universal health coverage		
86 39			49 74.28		
Services			Healthy life expectancy (years)		
92 39.17			110 44.35		
Government online services			Under-five mortality rate		
104 45.09			96 75.51		
Fixed broadband Internet traffic per subscription			Environmental performance		
n/a n/a			84 51.07		
Mobile broadband Internet traffic per subscription			Renewable energy consumption (%)		
n/a n/a			96 11.79		
Internet users (%)			Ecological footprint per capita		
106 33.25			75 80.4		
Outcomes			Natural hazard exposure		
76 38.89			55 61		
ICT PCT patent applications (per 100 billion GDP)					
24 61.28					
E-participation					
123 21.59					
Internet activities by individuals (%)					
n/a n/a					
Trade in digitally deliverable services (% total trade)					
73 33.81					
ECONOMY					
58 53.8					
Economic competitiveness					
100 43.7					
Infrastructure investment					
126 33.05					
Gross fixed capital formation (% GDP)					
n/a n/a					
Logistics performance					
118 33.96					
Transport productive capacity					
26 38.53					
Building quality control					
131 26.67					
Business agility					
68 54.26					
Ease of starting a business					
85 85.6					
Insolvency recovery rate					
112 20.02					
Entrepreneurial employee activity rate					
n/a n/a					
Extent of corporate transparency					
75 57.14					
Economic openness					
32 67					
Trade and diversification					
77 50.19					
Trade (% GDP)					
n/a n/a					
High-technology trade (% total trade)					
126 5.87					
Product concentration					
102 61.08					
Market concentration					
96 83.61					
Financial openness					
12 83.8					
Chinn-Ito financial openness					
55 71.65					
Foreign direct investment, net inflows (% GDP)					
5 95.95					
Debt dynamics					
n/a n/a					
Financing and domestic value added					
68 50.6					
Financing and taxes					
46 61.8					
Domestic credit to private sector (% GDP)					
81 12.96					
MSME financing gap (% GDP)					
4 95.42					
Tax and contribution rate (% profit)					
40 77.01					
Bank non-performing loans (%)					
n/a n/a					
Domestic value added					
71 39.46					
Medium- and high-tech activities value added					
n/a n/a					
Industry and services value added (% GDP)					
33 60.57					
Labour underutilization rate					
121 28.01					
Output per worker					
40 29.8					

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