



TRINIDAD AND TOBAGO

KEY INDICATORS

GDP (US\$ billions): **34.322**

Population: **1,525,663**

HDI: **0.81**

GKI RANK

66 /132

GKI SCORE

45.8

WORLD AVERAGE

46.5

COUNTRY PERFORMANCE SUMMARY

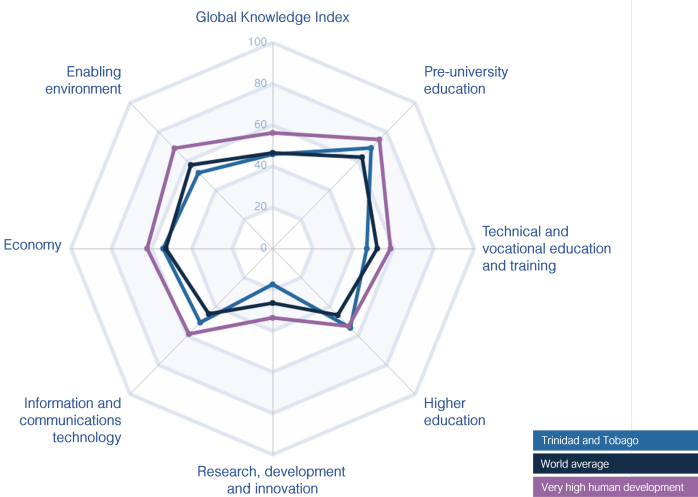
Trinidad and Tobago is a moderate performer in terms of its knowledge infrastructure. It ranks 66th out of 132 countries in the Global Knowledge Index 2022 and 56th out of the 60 countries with very high human development.

- AREAS OF STRENGTH**
- + ICT employment (%)
 - + Proportion of children with stimulating home learning environments
 - + Industry and services value added (% GDP)
 - + Proportion of children who are developmentally on track
 - + Share of TVET occupations

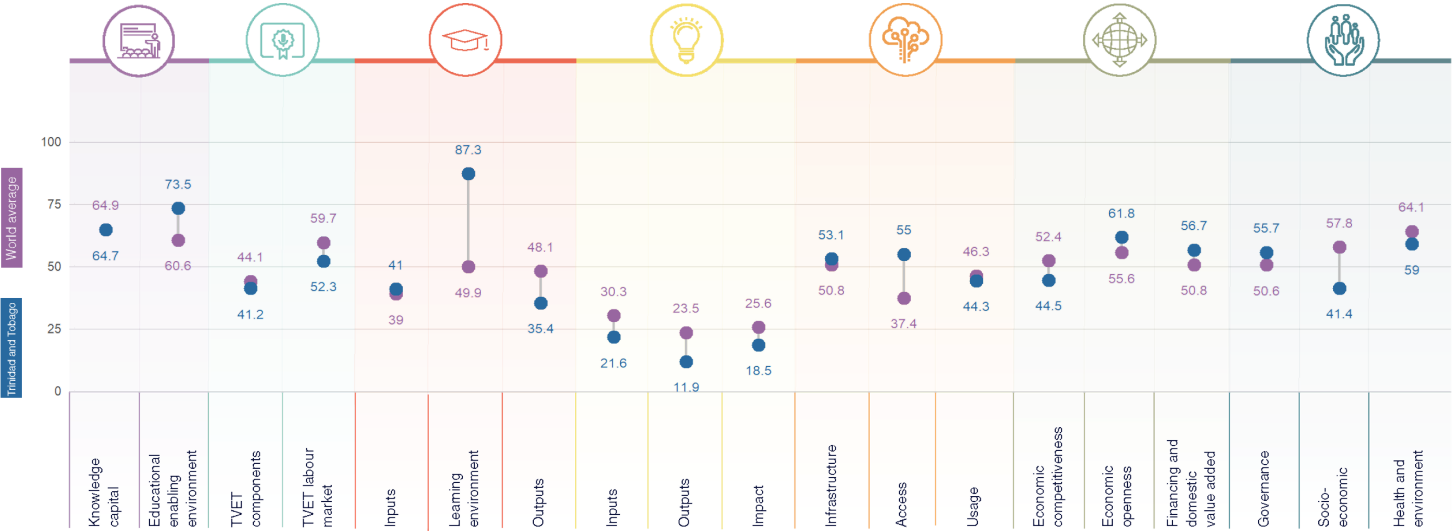
- AREAS OF IMPROVEMENT**
- Intellectual property receipts (% total trade)
 - Firms with products and services new to the market (%)
 - Enrolment in vocational education, gender parity
 - Growth of innovative companies
 - Resident patent applications (per 100 billion GDP)

SECTORAL INDICES

	RANK	VALUE
PRE-UNIVERSITY EDUCATION	63	69.1
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	93	46.7
HIGHER EDUCATION	32	54.5
RESEARCH, DEVELOPMENT AND INNOVATION	116	17.4
INFORMATION AND COMMUNICATIONS TECHNOLOGY	52	50.8
ECONOMY	54	54.3
ENABLING ENVIRONMENT	80	52.0



GKI PILLARS





TRINIDAD AND TOBAGO

		Rank	Value			Rank	Value
PRE-UNIVERSITY EDUCATION				HIGHER EDUCATION			
Knowledge capital				Inputs			
Enrolment		99	70.8	Expenditure		115	0.41
Net enrolment rate in primary education		n/a	n/a	Government expenditure per tertiary student		n/a	n/a
Net enrolment rate in lower secondary education		n/a	n/a	Teaching staff compensation (% tertiary expenditure)		78	0.41
Net enrolment rate in upper secondary education		84	70.8	Enrolment		n/a	n/a
Completion		74	71.23	Enrolment in bachelor's or equivalent level (%)		n/a	n/a
Years of compulsory education in primary and secondary		109	53.85	Enrolment in master's, doctoral or equivalent (%)		n/a	n/a
Completion rate in upper secondary education		28	88.61	Resources		16	81.51
Gross intake ratio to the last grade of lower secondary education		n/a	n/a	Pupil-teacher ratio in tertiary education		n/a	n/a
Outcomes		60	51.93	Researchers in higher education (%)		12	81.51
Assessment of 15-year-old students in math, science and reading		51	39.99	Learning environment		1	87.3
Learning-adjusted years of schooling		52	63.87	Diversity and academic freedom		3	87.3
Educational enabling environment		32	73.5	Teachers in tertiary education, gender parity		n/a	n/a
Expenditure		79	27.26	Inbound mobility rate		n/a	n/a
Government expenditure on primary education (% GDP)		64	31.78	Academic freedom		41	87.3
Government expenditure on secondary education (% GDP)		84	20.81	Equity and inclusiveness		n/a	n/a
Government funding per primary student (% GDP per capita)		69	26.47	Gross attendance ratio for tertiary education, gender parity		n/a	n/a
Government funding per secondary student (% GDP per capita)		63	29.98	Gross attendance ratio for tertiary education, wealth parity		n/a	n/a
Resources		44	91.48	Gross attendance ratio for tertiary education, location parity		n/a	n/a
Pupil-trained teacher ratio in primary education		41	82.58	Outputs		113	35.4
Pupil-trained teacher ratio in secondary education		32	92.76	Attainment		81	8.22
Schools with access to computers in primary education (%)		n/a	n/a	Educational attainment rate, bachelor's or equivalent		83	10.56
Schools with access to computers in secondary education (%)		42	99.1	Educational attainment rate, master's or equivalent		63	6.14
Early learning		14	83.76	Educational attainment rate, doctoral or equivalent		55	7.95
Gross enrolment ratio in early childhood education		48	56.31	Employment		75	75.73
Proportion of children who are developmentally on track		4	89.76	Labour force participation rate with advanced education		113	57.94
Proportion of children with stimulating home learning environments		2	97.78	Unemployment rate with advanced education		16	93.51
Pupil-trained teacher ratio in pre-primary education		25	91.17	Impact		113	22.14
Equity and inclusiveness		27	91.56	University-industry collaboration in R&D		105	33.64
Completion rate in upper secondary education, gender parity		65	91.56	Citable documents per R&D personnel in higher education		77	10.64
Completion rate in upper secondary education, wealth parity		n/a	n/a	RESEARCH, DEVELOPMENT AND INNOVATION		116	17.4
Completion rate in upper secondary education, location parity		n/a	n/a	Inputs		91	21.6
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING		93	46.7	Inputs of R&D institutions		78	23.12
TVET components		80	41.2	GERD (% GDP)		110	0.93
Continuous training and skilling		102	32.6	GERD per researcher		96	3.22
Firms offering formal training (%)		64	32.6	Researchers per thousand labour force		67	6.4
Labour force participation rate with short-cycle tertiary education		n/a	n/a	Tertiary graduates from STEM programmes (%)		14	81.94
Participation rate in formal and non-formal education and training		n/a	n/a	Inputs of RDI in business enterprises		104	10.72
TVET structure		79	39.43	GERD performed by business enterprises (%)		80	0.2
Government expenditure on vocational education (%)		n/a	n/a	GERD financed by business enterprises (%)		70	16.81
Share of students enrolled in secondary vocational programmes		n/a	n/a	Researchers in business enterprises (%)		73	1.34
Share of students enrolled in post-secondary vocational programmes		78	39.43	Firms that spend on R&D (%)		47	24.52
TVET quality and qualifications		18	51.43	Inputs of societal innovation		78	29.45
Extent of staff training		74	50.65	High-skilled employment (%)		55	34.26
Quality of vocational training		65	52.2	Intellectual property payments (% total trade)		64	11.79
Ratio of high-skill TVET occupations earnings to average wage		n/a	n/a	State of cluster development		93	42.29
Ratio of medium-skill TVET occupations earnings to average wage		n/a	n/a	Outputs		111	11.9
TVET labour market		99	52.3	Outputs of R&D institutions		113	12.18
Efficiency of the labour market		118	48.96	Average documents per researcher		44	22.17
Firms constrained with inadequately educated workforce (%)		103	19.47	Citations per document		122	14.22
Employment educational mismatch (%)		71	58.4	Resident patent applications (per 100 billion GDP)		112	0.15
Proportion of skilled production workers		100	30.17	Outputs of RDI in business enterprises		79	13.29
Unemployment rate with vocational education		15	87.79	Intellectual property receipts (% total trade)		109	0
Post-TVET employment		29	58.07	Industrial design applications (per 100 billion GDP)		78	2.34
Share of TVET occupations		9	78.9	PCT applications (per 100 billion GDP)		81	1.26
Manufacturing employment (%)		74	37.24	Firms producing new products and services (%)		49	49.54
Equity and inclusiveness		105	49.77	Outputs of societal innovation		97	10.02
Enrolment in vocational education, gender parity		111	19.12	Trademark applications (per 100 billion GDP)		77	17.62
Vulnerable employment rate		55	80.43	Cultural goods exports (% exports)		88	2.42
				Printing and publishing output (% manufactured output)		n/a	n/a
				Impact		100	18.5
				Quality		123	10.97
				Research institutions prominence		107	0.8
				Growth of innovative companies		125	33.58
				ISO 9001 quality certificates (per billion GDP)		85	5.59
				ISO 14001 environmental certificates (per billion GDP)		85	3.93
				Linkages		35	28.09
				GERD financed from abroad (%)		15	45.53
				Joint ventures per strategic alliance deals (per billion GDP)		39	10.64
				Computer software spending (% GDP)		n/a	n/a
				Business development		114	16.56
				New business density per thousand population		31	18.62
				Firms with products and services new to the market (%)		106	14.5



TRINIDAD AND TOBAGO

			Rank	Value				Rank	Value
INFORMATION AND COMMUNICATIONS TECHNOLOGY					ENABLING ENVIRONMENT				
Infrastructure					Governance				
Coverage			56	41.56	Political environment			46	59.52
3G/4G mobile network coverage (% population)			93	84.47	Peace and stability			54	51.89
Secure Internet servers per 1 million population			83	0.29	Voice and accountability			37	67.15
Investment in telecommunication services (% GDP)			13	39.93	Quality of institutions			62	51.92
Quality			58	28.28	Rule of law			70	49.04
Mobile upload and download speeds			41	16.38	Control of corruption			70	47.6
Fixed-broadband upload and download speeds			37	23.18	Government effectiveness			58	59.13
Fixed-broadband subscriptions by speed per hundred people			48	45.28	Socio-economic			113	41.4
Affordability			76	89.34	Gender equity			115	52.35
Fixed broadband basket (% GNI per capita)			74	84.32	Female-to-male ratio in parliament			71	35.48
Mobile broadband basket (% GNI per capita)			99	83.71	Female-to-male labour force participation			90	69.22
Internet and telephony competition			1	100	Female-to-male ratio in Internet usage			n/a	n/a
Access			21	55	Social inclusion			96	51.86
Subscriptions			76	50.14	Social protection coverage (% population)			54	53.91
Active mobile-broadband subscriptions per hundred inhabitants			114	16.36	Adult literacy rate			n/a	n/a
International Internet bandwidth per user			30	50.66	Youth not in employment, education or training (%)			88	49.81
Households with Internet access at home (%)			56	83.39	Standard of living			114	20.12
Skills and employment			4	59.89	Poverty headcount ratio (% population)			n/a	n/a
Individuals with standard ICT skills (%)			n/a	n/a	GDP per capita			52	20.12
Tertiary graduates from ICT programmes (%)			92	19.78	Health and environment			102	59
ICT employment (%)			1	100	Health			71	78.26
Usage			73	44.3	Universal health coverage			54	73.33
Services			71	47.43	Healthy life expectancy (years)			58	75.03
Government online services			99	48.92	Under-five mortality rate			81	86.43
Fixed broadband Internet traffic per subscription			20	33.37	Environmental performance			121	39.66
Mobile broadband Internet traffic per subscription			22	38.74	Renewable energy consumption (%)			125	0.45
Internet users (%)			83	68.69	Ecological footprint per capita			121	50.53
Outcomes			73	41.26	Natural hazard exposure			39	68
ICT PCT patent applications (per 100 billion GDP)			67	34.88					
E-participation			117	23.86					
Internet activities by individuals (%)			n/a	n/a					
Trade in digitally deliverable services (% total trade)			20	65.02					
ECONOMY			54	54.3					
Economic competitiveness			95	44.5					
Infrastructure investment			63	49.21					
Gross fixed capital formation (% GDP)			n/a	n/a					
Logistics performance			111	35.39					
Transport productive capacity			16	45.56					
Building quality control			90	66.67					
Business agility			108	39.75					
Ease of starting a business			64	88.58					
Insolvency recovery rate			98	28.4					
Entrepreneurial employee activity rate			56	13.44					
Extent of corporate transparency			90	28.57					
Economic openness			48	61.8					
Trade and diversification			50	54.52					
Trade (% GDP)			n/a	n/a					
High-technology trade (% total trade)			111	11.68					
Product concentration			90	65.4					
Market concentration			88	86.48					
Financial openness			48	69.11					
Chinn-Ito financial openness			49	83.65					
Foreign direct investment, net inflows (% GDP)			102	45.89					
Debt dynamics			57	77.78					
Financing and domestic value added			37	56.7					
Financing and taxes			64	60.27					
Domestic credit to private sector (% GDP)			77	15.41					
MSME financing gap (% GDP)			49	78.84					
Tax and contribution rate (% profit)			78	66.94					
Bank non-performing loans (%)			55	79.9					
Domestic value added			34	53.21					
Medium- and high-tech activities value added			33	47.83					
Industry and services value added (% GDP)			8	73.93					
Labour underutilization rate			66	68.64					
Output per worker			52	22.46					

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