

TRINIDAD AND TOBAGO

KEY INDICATORS

GDP (US\$ billions): **36.019**

Population: **1,525,663**

HDI: **0.81**

GKI RANK **76** /133

GKI SCORE

45

WORLD AVERAGE

47.5

COUNTRY PERFORMANCE SUMMARY

Trinidad and Tobago is a moderate performer in terms of its knowledge infrastructure. It ranks 76th out of 133 countries in the Global Knowledge Index 2023 and 61st out of the 61 countries with very high human development.

AREAS OF STRENGTH

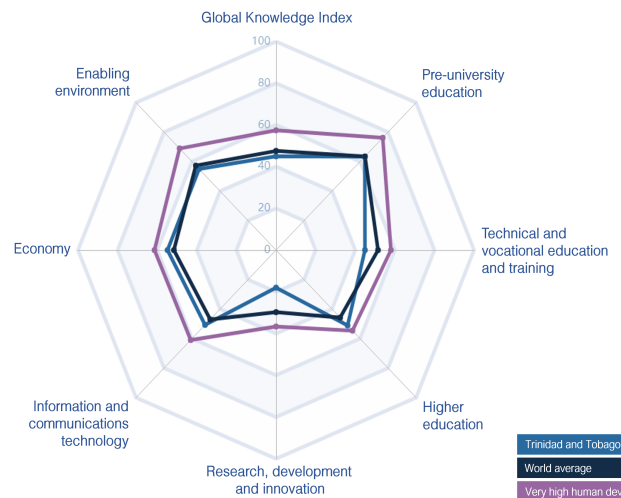
- + ICT employment (%)
- + Industry and services value added (% GDP)
- + Tertiary graduates from STEM programmes (%)
- + Share of TVET occupations
- + Trade in digitally deliverable services (% total trade)

AREAS OF IMPROVEMENT

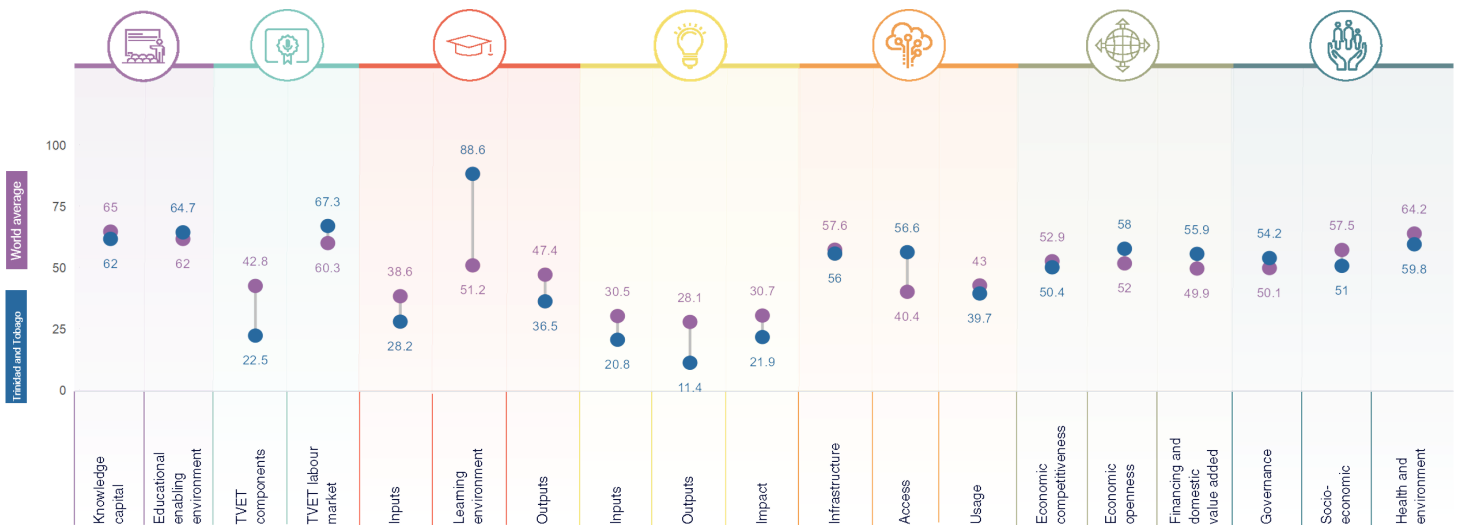
- Growth of innovative companies
- Resident patent applications (per 100 billion GDP)
- Share of students enrolled in secondary vocational programmes
- Teaching staff compensation (% tertiary expenditure)
- Share of students enrolled in post-secondary vocational programmes

SECTORAL INDICES

	RANK	VALUE
PRE-UNIVERSITY EDUCATION	84	63.4
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	100	44.9
HIGHER EDUCATION	46	51.1
RESEARCH, DEVELOPMENT AND INNOVATION	124	18
INFORMATION AND COMMUNICATIONS TECHNOLOGY	59	50.7
ECONOMY	50	54.8
ENABLING ENVIRONMENT	65	55



GKI PILLARS



TRINIDAD AND TOBAGO

Rank Value

Rank Value

PRE-UNIVERSITY EDUCATION	84	63.4
Knowledge capital	87	62
Enrolment	108	62.9
Net enrolment rate in primary education	n/a	n/a
Net enrolment rate in lower secondary education	n/a	n/a
Net enrolment rate in upper secondary education	91	62.9
Completion	70	71.3
Years of compulsory education in primary and secondary	109	53.8
Completion rate in upper secondary education	30	88.7
Gross intake ratio to the last grade of lower secondary education	n/a	n/a
Outcomes	61	51.9
Assessment of 15-year-old students in math, science and reading	52	40
Learning-adjusted years of schooling	53	63.9
Educational enabling environment	68	64.7
Expenditure	103	19.6
Government expenditure on primary education (% GDP)	92	22
Government expenditure on secondary education (% GDP)	94	15
Government funding per primary student (% GDP per capita)	98	23
Government funding per secondary student (% GDP per capita)	80	18.5
Resources	83	71.2
Pupil-trained teacher ratio in primary education	41	82.2
Pupil-trained teacher ratio in secondary education	33	91.9
Schools with access to computers in primary education (%)	102	11.6
Schools with access to computers in secondary education (%)	51	99.1
Early learning	32	76.4
Gross enrolment ratio in early childhood education	41	60.9
Proportion of children who are developmentally on track	n/a	n/a
Proportion of children with stimulating home learning environments	n/a	n/a
Pupil-trained teacher ratio in pre-primary education	26	91.9
Equity and inclusiveness	35	91.6
Completion rate in upper secondary education, gender parity	67	91.6
Completion rate in upper secondary education, wealth parity	n/a	n/a
Completion rate in upper secondary education, location parity	n/a	n/a
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	100	44.9
TVET components	131	22.5
Continuous training and skilling	126	9
Firms offering formal training (%)	n/a	n/a
Labour force participation rate with short-cycle tertiary education	n/a	n/a
Participation rate in formal and non-formal education and training	100	9
TVET structure	120	8.8
Government expenditure on vocational education (%)	59	19.6
Share of students enrolled in secondary vocational programmes	122	0.7
Share of students enrolled in post-secondary vocational programmes	80	6.1
TVET quality and qualifications	24	49.8
Extent of staff training	96	50.8
Quality of vocational training	84	48.7
Ratio of high-skill TVET occupations earnings to average wage	n/a	n/a
Ratio of medium-skill TVET occupations earnings to average wage	n/a	n/a
TVET labour market	47	67.3
Efficiency of the labour market	41	72.5
Firms constrained with inadequately educated workforce (%)	n/a	n/a
Employment educational mismatch (%)	75	55.2
Proportion of skilled production workers	n/a	n/a
Unemployment rate with vocational education	25	89.7
Post-TVET employment	29	58.3
Share of TVET occupations	8	79.1
Manufacturing employment (%)	72	37.5
Equity and inclusiveness	71	71.2
Enrolment in vocational education, gender parity	88	62
Vulnerable employment rate	56	80.4

HIGHER EDUCATION	46	51.1
Inputs	104	28.2
Expenditure	116	0.4
Government expenditure per tertiary student	n/a	n/a
Teaching staff compensation (% tertiary expenditure)	76	0.4
Enrolment	120	2.8
Enrolment in bachelor's or equivalent level (%)	n/a	n/a
Enrolment in master's, doctoral or equivalent (%)	113	2.8
Resources	18	81.5
Pupil-teacher ratio in tertiary education	n/a	n/a
Researchers in higher education (%)	11	81.5
Learning environment	1	88.6
Diversity and academic freedom	2	88.6
Teachers in tertiary education, gender parity	n/a	n/a
Inbound mobility rate	n/a	n/a
Academic freedom	34	88.6
Equity and inclusiveness	n/a	n/a
Gross attendance ratio for tertiary education, gender parity	n/a	n/a
Gross attendance ratio for tertiary education, wealth parity	n/a	n/a
Gross attendance ratio for tertiary education, location parity	n/a	n/a
Outputs	110	36.5
Attainment	89	8.2
Educational attainment rate, bachelor's or equivalent	90	10.6
Educational attainment rate, master's or equivalent	64	6.2
Educational attainment rate, doctoral or equivalent	57	8
Employment	66	79.1
Labour force participation rate with advanced education	100	65.3
Unemployment rate with advanced education	19	92.9
Impact	118	22.1
University-industry collaboration in R&D	112	33.7
Citable documents per R&D personnel in higher education	79	10.6
RESEARCH, DEVELOPMENT AND INNOVATION	124	18
Inputs	98	20.8
Inputs of R&D institutions	70	25
GERD (% GDP)	111	1
GERD per researcher	98	2.3
Researchers per thousand labour force	61	9
Tertiary graduates from STEM programmes (%)	7	87.9
Inputs of RDI in business enterprises	116	6.1
GERD performed by business enterprises (%)	81	0.2
GERD financed by business enterprises (%)	71	16.8
Researchers in business enterprises (%)	74	1.3
Firms that spend on R&D (%)	n/a	n/a
Inputs of societal innovation	84	27
High-skilled employment (%)	56	34.5
Intellectual property payments (% total trade)	97	2.9
State of cluster development	92	43.6
Outputs	131	11.4
Outputs of R&D institutions	125	18.2
Average documents per researcher	64	17.4
Citations per document	89	25.3
Resident patent applications (per 100 billion GDP)	125	12
Outputs of RDI in business enterprises	121	2.4
Intellectual property receipts (% total trade)	57	2.6
Industrial design applications (per 100 billion GDP)	91	2.3
PCT applications (per 100 billion GDP)	65	2.4
Firms producing new products and services (%)	n/a	n/a
Outputs of societal innovation	110	6.9
Trademark applications (per 100 billion GDP)	95	11.4
Cultural goods exports (% exports)	89	2.4
Printing and publishing output (% manufactured output)	n/a	n/a
Impact	106	21.9
Quality	112	17.6
Research institutions prominence	108	30.3
Growth of innovative companies	128	30.2
ISO 9001 quality certificates (per billion GDP)	90	5.4
ISO 14001 environmental certificates (per billion GDP)	92	4.4
Linkages	36	29.4
GERD financed from abroad (%)	15	45.5
Joint ventures per strategic alliance deals (per billion GDP)	32	13.2
Computer software spending (% GDP)	n/a	n/a
Business development	115	18.6
New business density per thousand population	32	18.6
Firms with products and services new to the market (%)	n/a	n/a

TRINIDAD AND TOBAGO

	Rank	Value		Rank	Value
INFORMATION AND COMMUNICATIONS TECHNOLOGY			ENABLING ENVIRONMENT		
Infrastructure	59	50.7	Governance	65	55
Coverage	74	56	Political environment	52	54.2
3G/4G mobile network coverage (% population)	104	53.8	Peace and stability	45	61.9
Secure Internet servers per 1 million population	96	87.6	Voice and accountability	49	56.6
Investment in telecommunication services (% GDP)	87	45.9	Quality of institutions	38	67.1
Quality	78	27.8	Rule of law	74	46.5
Mobile upload and download speeds	61	28.4	Control of corruption	79	40.6
Fixed-broadband upload and download speeds	42	16.4	Government effectiveness	68	52.4
Fixed-broadband subscriptions by speed per hundred people	38	23.2	Socio-economic	73	46.7
Affordability	49	45.6	Gender equity	84	51
Fixed broadband basket (% GNI per capita)	80	85.8	Female-to-male ratio in parliament	54	71.5
Mobile broadband basket (% GNI per capita)	79	80.3	Female-to-male labour force participation	59	40
Internet and telephony competition	102	77.2	Female-to-male ratio in Internet usage	80	74.4
Access	1	100	Social inclusion	1	100
Subscriptions	23	56.6	Social protection coverage (% population)	79	61.6
Active mobile-broadband subscriptions per hundred inhabitants	81	52.2	Adult literacy rate	57	53.9
International Internet bandwidth per user	119	15.2	Youth not in employment, education or training (%)	n/a	n/a
Households with Internet access at home (%)	22	61	Standard of living	51	69.3
Skills and employment	71	80.4	Poverty headcount ratio (% population)	109	19.9
Individuals with standard ICT skills (%)	6	61	GDP per capita	n/a	n/a
Tertiary graduates from ICT programmes (%)	n/a	n/a	Health and environment	55	19.9
ICT employment (%)	85	22	Health	99	59.8
Usage	1	100	Universal health coverage	72	79.1
Services	75	39.7	Healthy life expectancy (years)	59	75
Government online services	71	48.9	Under-five mortality rate	59	75
Fixed broadband Internet traffic per subscription	100	48.9	Environmental performance	81	87.3
Mobile broadband Internet traffic per subscription	24	38.6	Renewable energy consumption (%)	120	40.5
Internet users (%)	25	30.2	Ecological footprint per capita	126	0.5
Outcomes	71	77.7	Natural hazard exposure	113	53
ICT PCT patent applications (per 100 billion GDP)	74	30.5		40	68
E-participation	67	2.3			
Internet activities by individuals (%)	118	23.9			
Trade in digitally deliverable services (% total trade)	n/a	n/a			
ECONOMY	12	65.3			
Economic competitiveness	50	54.8			
Infrastructure investment	78	50.4			
Gross fixed capital formation (% GDP)	25	61.1			
Logistics performance	n/a	n/a			
Transport productive capacity	97	37.5			
Building quality control	15	79			
Business agility	91	66.7			
Ease of starting a business	108	39.7			
Insolvency recovery rate	65	88.6			
Entrepreneurial employee activity rate	99	28.4			
Extent of corporate transparency	55	13.4			
Economic openness	90	28.6			
Trade and diversification	52	58			
Trade (% GDP)	64	51.8			
High-technology trade (% total trade)	n/a	n/a			
Product concentration	108	12.1			
Market concentration	109	59.7			
Financial openness	95	83.5			
Chinn-Ito financial openness	46	64.3			
Foreign direct investment, net inflows (% GDP)	50	83.6			
Debt dynamics	125	29.1			
Financing and domestic value added	36	80			
Financing and taxes	39	55.9			
Domestic credit to private sector (% GDP)	71	59.3			
MSME financing gap (% GDP)	81	11.9			
Tax and contribution rate (% profit)	48	78.8			
Bank non-performing loans (%)	79	66.9			
Domestic value added	61	79.4			
Medium- and high-tech activities value added	35	52.6			
Industry and services value added (% GDP)	33	48			
Labour underutilization rate	7	69			
Output per worker	66	71.2			
	53	22.3			

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