



GKI RANK 90 /133

GKI SCORE	42.5
WORLD AVERAGE	47.5

COUNTRY PERFORMANCE SUMMARY

Egypt is a modest performer in terms of its knowledge infrastructure. It ranks 90th out of 133 countries in the Global Knowledge Index 2023 and 24th out of the 28 countries with high human development.

EGYPT

AREAS OF STRENGTH

- + Teachers in tertiary education, gender parity
- + Market concentration
- + Firms with products and services new to the market (%)
- + State of cluster development
- + Citations per document

AREAS OF IMPROVEMENT

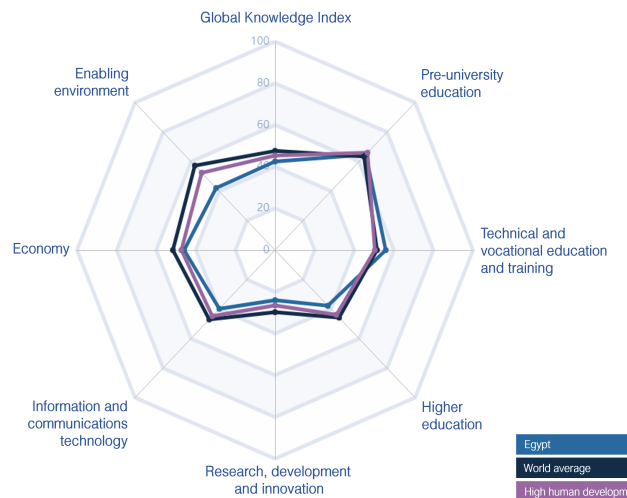
- Female-to-male labour force participation
- Firms that spend on R&D (%)
- Firms producing new products and services (%)
- Entrepreneurial employee activity rate
- Academic freedom

KEY INDICATORS

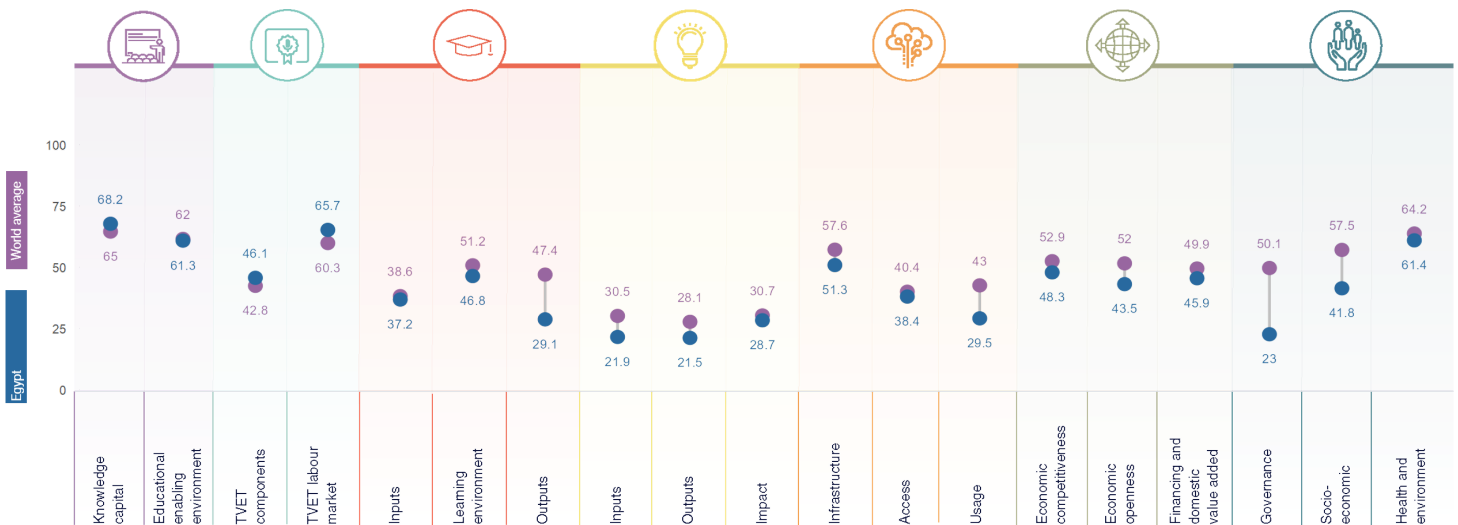
GDP (US\$ billions): 1,418.538
Population: 109,262,178
HDI: 0.731

SECTORAL INDICES

	RANK	VALUE
PRE-UNIVERSITY EDUCATION	80	64.8
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	46	55.9
HIGHER EDUCATION	94	37.7
RESEARCH, DEVELOPMENT AND INNOVATION	90	24
INFORMATION AND COMMUNICATIONS TECHNOLOGY	85	39.8
ECONOMY	85	45.9
ENABLING ENVIRONMENT	115	42.1



GKI PILLARS





EGYPT

Rank Value

PRE-UNIVERSITY EDUCATION 80 64.8

Knowledge capital 75 68.2

Enrolment 70 86.8

Net enrolment rate in primary education 19 99

Net enrolment rate in lower secondary education 72 92.9

Net enrolment rate in upper secondary education 86 68.6

Completion 31 79.2

Years of compulsory education in primary and secondary 3 92.3

Completion rate in upper secondary education 43 84.3

Gross intake ratio to the last grade of lower secondary education 75 61

Outcomes 90 38.6

Assessment of 15-year-old students in math, science and reading n/a n/a

Learning-adjusted years of schooling 95 38.6

Educational enabling environment 79 61.3

Expenditure 104 19.4

Government expenditure on primary education (% GDP) 84 25.5

Government expenditure on secondary education (% GDP) 82 21.5

Government funding per primary student (% GDP per capita) 105 16.7

Government funding per secondary student (% GDP per capita) 90 14

Resources 67 81.5

Pupil-trained teacher ratio in primary education 64 70.2

Pupil-trained teacher ratio in secondary education 51 84.2

Schools with access to computers in primary education (%) 56 84.1

Schools with access to computers in secondary education (%) 74 87.4

Early learning 69 59.8

Gross enrolment ratio in early childhood education 101 19.8

Proportion of children who are developmentally on track 13 79.3

Proportion of children with stimulating home learning environments n/a n/a

Pupil-trained teacher ratio in pre-primary education 51 80.3

Equity and inclusiveness 53 84.5

Completion rate in upper secondary education, gender parity 37 95.4

Completion rate in upper secondary education, wealth parity 18 71.2

Completion rate in upper secondary education, location parity 37 86.8

TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING 46 55.9

TVET components 44 46.1

Continuous training and skilling 93 32.2

Firms offering formal training (%) 96 5.7

Labour force participation rate with short-cycle tertiary education 68 62.7

Participation rate in formal and non-formal education and training 35 28.3

TVET structure 16 66.8

Government expenditure on vocational education (%) n/a n/a

Share of students enrolled in secondary vocational programmes 33 33.7

Share of students enrolled in post-secondary vocational programmes 1 100

TVET quality and qualifications 91 39.2

Extent of staff training 43 62.1

Quality of vocational training 105 42.6

Ratio of high-skill TVET occupations earnings to average wage 92 13.4

Ratio of medium-skill TVET occupations earnings to average wage 30 38.8

TVET labour market 52 65.7

Efficiency of the labour market 86 63.2

Firms constrained with inadequately educated workforce (%) 26 80.2

Employment educational mismatch (%) 90 41

Proportion of skilled production workers 68 57.1

Unemployment rate with vocational education 91 74.6

Post-TVET employment 32 57.5

Share of TVET occupations 24 69.1

Manufacturing employment (%) 49 45.8

Equity and inclusiveness 56 76.3

Enrolment in vocational education, gender parity 71 71.7

Vulnerable employment rate 55 80.8

Rank Value

HIGHER EDUCATION 94 37.7

Inputs 76 37.2

Expenditure n/a n/a

Government expenditure per tertiary student n/a n/a

Teaching staff compensation (% tertiary expenditure) n/a n/a

Enrolment 75 18.1

Enrolment in bachelor's or equivalent level (%) 60 27.4

Enrolment in master's, doctoral or equivalent (%) 80 8.7

Resources 85 56.4

Pupil-teacher ratio in tertiary education 93 52.6

Researchers in higher education (%) 38 60.2

Learning environment 76 46.8

Diversity and academic freedom 101 37.6

Teachers in tertiary education, gender parity 3 97.5

Inbound mobility rate 77 7

Academic freedom 126 8.4

Equity and inclusiveness 17 56

Gross attendance ratio for tertiary education, gender parity 18 90.5

Gross attendance ratio for tertiary education, wealth parity 13 28.4

Gross attendance ratio for tertiary education, location parity 17 49

Outputs 121 29.1

Attainment 91 8.1

Educational attainment rate, bachelor's or equivalent 89 11.4

Educational attainment rate, master's or equivalent 82 2.5

Educational attainment rate, doctoral or equivalent 47 10.3

Employment 124 51

Labour force participation rate with advanced education 118 53.3

Unemployment rate with advanced education 120 48.8

Impact 104 28.2

University-industry collaboration in R&D 50 50.2

Citable documents per R&D personnel in higher education 88 6.3

RESEARCH, DEVELOPMENT AND INNOVATION 90 24

Inputs 93 21.9

Inputs of R&D institutions 74 23.6

GERD (% GDP) 40 17.7

GERD per researcher 58 15.7

Researchers per thousand labour force 47 19.1

Tertiary graduates from STEM programmes (%) 94 42

Inputs of RDI in business enterprises 120 3.5

GERD performed by business enterprises (%) 74 0.6

GERD financed by business enterprises (%) 83 4.9

Researchers in business enterprises (%) 64 7.4

Firms that spend on R&D (%) 102 1

Inputs of societal innovation 54 36.7

High-skilled employment (%) 61 31.9

Intellectual property payments (% total trade) 62 11.1

State of cluster development 8 67

Outputs 93 21.5

Outputs of R&D institutions 61 35.4

Average documents per researcher 81 11.9

Citations per document 15 52.7

Resident patent applications (per 100 billion GDP) 81 41.6

Outputs of RDI in business enterprises 114 4.9

Intellectual property receipts (% total trade) 41 6.5

Industrial design applications (per 100 billion GDP) 52 10.3

PCT applications (per 100 billion GDP) 83 0.9

Firms producing new products and services (%) 102 2.1

Outputs of societal innovation 98 10.4

Trademark applications (per 100 billion GDP) 78 16.7

Cultural goods exports (% exports) 87 2.5

Printing and publishing output (% manufactured output) 76 11.9

Impact 77 28.7

Quality 59 34.1

Research institutions prominence 32 64.3

Growth of innovative companies 16 60.6

ISO 9001 quality certificates (per billion GDP) 91 5.3

ISO 14001 environmental certificates (per billion GDP) 79 6.1

Linkages 106 7.7

GERD financed from abroad (%) 93 0.9

Joint ventures per strategic alliance deals (per billion GDP) 92 3.2

Computer software spending (% GDP) 69 18.9

Business development 39 44.2

New business density per thousand population 107 0.8

Firms with products and services new to the market (%) 6 87.6



EGYPT

	Rank	Value		Rank	Value
INFORMATION AND COMMUNICATIONS TECHNOLOGY			ENABLING ENVIRONMENT		
Infrastructure	85	39.8	Governance	115	42.1
Coverage	110	49.9	Political environment	129	11.7
3G/4G mobile network coverage (% population)	59	98.6	Peace and stability	116	14.2
Secure Internet servers per 1 million population	114	29.8	Voice and accountability	126	9.2
Investment in telecommunication services (% GDP)	101	21.4	Quality of institutions	91	34.3
Quality	85	12.5	Rule of law	102	26.4
Mobile upload and download speeds	77	8.7	Control of corruption	96	34
Fixed-broadband upload and download speeds	64	8.9	Government effectiveness	80	42.5
Fixed-broadband subscriptions by speed per hundred people	78	19.8	Socio-economic	113	41.8
Affordability	56	91.6	Gender equity	125	47.5
Fixed broadband basket (% GNI per capita)	71	82.6	Female-to-male ratio in parliament	65	38
Mobile broadband basket (% GNI per capita)	73	92.2	Female-to-male labour force participation	132	22.3
Internet and telephony competition	1	100	Female-to-male ratio in Internet usage	96	82.2
Access	77	38.4	Social inclusion	108	45
Subscriptions	87	49.3	Social protection coverage (% population)	77	32.8
Active mobile-broadband subscriptions per hundred inhabitants	101	25.9	Adult literacy rate	88	64.9
International Internet bandwidth per user	73	49.1	Youth not in employment, education or training (%)	105	37.2
Households with Internet access at home (%)	80	72.9	Standard of living	91	33.1
Skills and employment	67	27.6	Poverty headcount ratio (% population)	79	55.6
Individuals with standard ICT skills (%)	39	44.7	GDP per capita	79	10.5
Tertiary graduates from ICT programmes (%)	49	31.7	Health and environment	89	61.4
ICT employment (%)	81	6.3	Health	86	73.1
Usage	99	29.5	Universal health coverage	75	70.2
Services	97	36.7	Healthy life expectancy (years)	91	63.9
Government online services	86	57.3	Under-five mortality rate	89	85
Fixed broadband Internet traffic per subscription	70	13.3	Environmental performance	87	49.7
Mobile broadband Internet traffic per subscription	98	5.6	Renewable energy consumption (%)	113	6.8
Internet users (%)	86	70.5	Ecological footprint per capita	35	91.3
Outcomes	105	22.3	Natural hazard exposure	89	51
ICT PCT patent applications (per 100 billion GDP)	100	0.5			
E-participation	94	35.2			
Internet activities by individuals (%)	52	37.4			
Trade in digitally deliverable services (% total trade)	105	16.3			
ECONOMY	85	45.9			
Economic competitiveness	85	48.3			
Infrastructure investment	79	46.4			
Gross fixed capital formation (% GDP)	116	7.7			
Logistics performance	54	52.5			
Transport productive capacity	91	32			
Building quality control	7	93.3			
Business agility	81	50.3			
Ease of starting a business	74	87.8			
Insolvency recovery rate	103	25.4			
Entrepreneurial employee activity rate	82	2.2			
Extent of corporate transparency	13	85.7			
Economic openness	87	43.5			
Trade and diversification	76	48.4			
Trade (% GDP)	121	3.2			
High-technology trade (% total trade)	109	12			
Product concentration	38	82.2			
Market concentration	4	96.1			
Financial openness	85	38.5			
Chinn-Ito financial openness	75	41.7			
Foreign direct investment, net inflows (% GDP)	83	33.9			
Debt dynamics	91	40			
Financing and domestic value added	83	45.9			
Financing and taxes	104	51.3			
Domestic credit to private sector (% GDP)	94	9.2			
MSME financing gap (% GDP)	36	81.7			
Tax and contribution rate (% profit)	92	63			
Bank non-performing loans (%)	n/a	n/a			
Domestic value added	68	40.5			
Medium- and high-tech activities value added	69	27.6			
Industry and services value added (% GDP)	68	48.5			
Labour underutilization rate	76	67.3			
Output per worker	60	18.7			

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