



EGYPT

KEY INDICATORS

GDP (US\$ billions): 1,223.044

Population: 102,334,403

HDI: 0.707

GKI RANK 88/123

GKI SCORE 40.65

WORLD AVERAGE 48.6

COUNTRY PERFORMANCE SUMMARY

Egypt is a modest performer in terms of its knowledge infrastructure. It ranks 88th out of 123 countries in the Global Knowledge Index 2021 and 26th out of the 26 countries with high human development.

AREAS OF STRENGTH

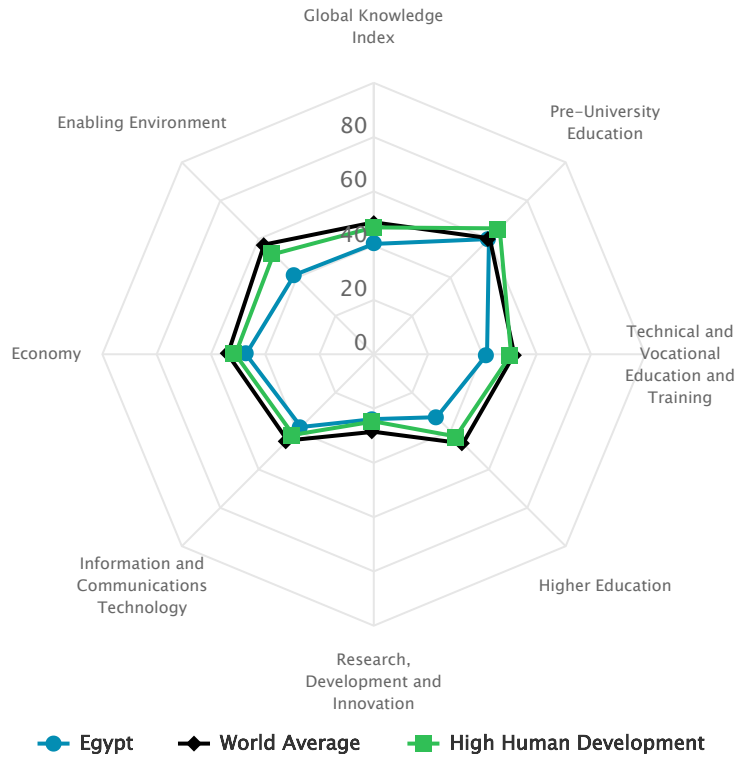
- + Firms with new product/service (%)
- + Market concentration
- + Building quality control
- + Teachers in tertiary education, gender parity
- + High-skilled employment (%)

AREAS OF IMPROVEMENT

- Share of students enrolled in post-secondary vocational programmes
- Intellectual property receipts (% total trade)
- Firms producing new goods and services (%)
- Firms that spend on R&D (%)
- Entrepreneurial employee activity rate

SECTORAL INDICES

	RANK	VALUE
PRE-UNIVERSITY EDUCATION	74	60.02
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	100	41.73
HIGHER EDUCATION	106	32.79
RESEARCH, DEVELOPMENT AND INNOVATION	76	23.89
INFORMATION AND COMMUNICATIONS TECHNOLOGY	79	37.9
ECONOMY	80	47.09
ENABLING ENVIRONMENT	108	41.34





EGYPT

	Rank	Value
Pre-University Education	74	60.02
Knowledge capital	71	64.98
Enrolment	62	88.99
Net enrolment rate in primary education	36	97.24
Net enrolment rate in lower secondary education	43	96.69
Net enrolment rate in upper secondary education	72	73.05
Completion	70	67.34
Years of compulsory education in primary and secondary	3	87.5
Completion rate in upper secondary education	77	42.35
Gross intake ratio to the last grade of lower secondary education	66	72.15
Outcomes	82	38.6
Assessment of 15-year-old students in math, science and reading	N/A	N/A
Learning-adjusted years of schooling	87	38.6
Educational enabling environment	76	55.06
Expenditure	92	18.49
Government expenditure on primary education (% GDP)	80	26.03
Government expenditure on secondary education (% GDP)	75	20.83
Government funding per primary student (% GDP per capita)	97	13.16
Government funding per secondary student (% GDP per capita)	86	13.92
Resources	40	86.32
Pupil-trained teacher ratio in primary education	47	76.54
Pupil-trained teacher ratio in secondary education	28	80.39
Schools with access to computers in primary education (%)	37	94.73
Schools with access to computers in secondary education (%)	43	93.6
Early learning	78	51.22
Gross enrolment ratio in early childhood education	86	25.09
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	40	77.35
Equity and inclusiveness	64	64.24
Completion rate in upper secondary education, gender parity	28	95.65
Completion rate in upper secondary education, wealth parity	59	37.11
Completion rate in upper secondary education, location parity	66	59.96
Technical and Vocational Education and Training	100	41.73
TVET components	123	18.75
TVET structure	100	17.42
Government expenditure on vocational education (%)	N/A	N/A
Share of students enrolled in secondary vocational programmes	31	34.84
Share of students enrolled in post-secondary vocational programmes	74	0
TVET quality and qualifications	113	37
Extent of staff training	62	48.4
Quality of vocational training	111	36.66
Ratio of high-skill TVET occupations earnings to average wage	98	13.57
Ratio of medium-skill TVET occupations earnings to average wage	50	49.38
Continuous training and skilling	117	1.81
Firms offering formal training (%)	97	2.95
Labour force with short-cycle tertiary education (%)	N/A	N/A
Participation rate in formal and non-formal education and training	77	0.67
TVET labour market	51	64.71
Efficiency of the labour market	76	61.47
Firms constrained with inadequately educated workforce (%)	23	78.48
Employment educational mismatch (%)	74	48.86
Proportion of skilled production workers	64	57.06
Unemployment rate with vocational education	N/A	N/A
Post-TVET employment	38	54.36
Share of TVET occupations	38	64.27
Manufacturing employment (%)	42	44.45
Equity and inclusiveness	48	78.29
Enrolment in vocational education, gender parity	62	75.51
Vulnerable employment rate	48	81.06
Higher Education	106	32.79
Inputs	74	37.23
Expenditure	N/A	N/A
Government expenditure per tertiary student	N/A	N/A
Teaching staff compensation (% tertiary expenditure)	N/A	N/A

	Rank	Value
Information and Communications Technology	79	37.9
Infrastructure	71	50.76
Coverage	90	52.02
3G/4G mobile network coverage (% population)	58	97.27
Secure Internet servers per 1 million population	102	28.8
Investment in telecommunication services (% GDP)	54	29.98
Quality	73	13.53
Mobile upload and download speeds	70	13.89
Fixed-broadband upload and download speeds	60	7.77
Fixed-broadband subscriptions by speed per hundred people	67	18.92
Affordability	48	86.75
Fixed broadband basket (% GNI per capita)	71	93.49
Mobile broadband basket (% GNI per capita)	55	66.77
Internet and telephony competition	1	100
Access	68	31.59
Subscriptions	72	36.48
Active mobile-broadband subscriptions per hundred inhabitants	83	27.94
International Internet bandwidth per user	70	8.41
Households with Internet access at home (%)	62	73.08
Skills and employment	69	26.71
Individuals with standard ICT skills (%)	18	60.9
Tertiary graduates from ICT programmes (%)	99	10.48
ICT employment (%)	78	8.75
Usage	96	31.35
Services	87	38.46
Government online services	85	57.06
Fixed broadband Internet traffic per subscription	56	19.86
Mobile broadband Internet traffic per subscription	81	6.55
Internet users (%)	65	70.37
Outcomes	107	24.24
ICT PCT patent applications (per 100 billion GDP)	91	0.46
E-participation	90	51.19
Internet activities by individuals (%)	54	22.24
Trade in digitally deliverable services (% total trade)	95	23.08
Economy	80	47.09
Economic competitiveness	75	48.26
Infrastructure investment	81	46.58
Gross fixed capital formation (% GDP)	111	21.49
Logistics performance	61	45.62
Transport productive capacity	82	25.89
Building quality control	6	93.33
Business agility	74	49.94
Ease of starting a business	66	87.8
Insolvency recovery rate	93	25.35
Entrepreneurial employee activity rate	79	0.89
Extent of corporate transparency	12	85.71
Economic openness	81	49.95
Trade and diversification	69	50.69
Trade (% GDP)	110	4.94
High-technology trade (% total trade)	85	15.59
Product concentration	33	86.18
Market concentration	5	96.04
Financial openness	83	49.22
Chinn-Ito financial openness	68	41.69
Foreign direct investment, net inflows (% GDP)	43	65.97
Debt dynamics	97	40
Financing and domestic value added	91	43.05
Financing and taxes	100	46.68
Domestic credit to private sector (% GDP)	92	8.18
MSME financing gap (% GDP)	35	68.91
Tax and contribution rate (% profit)	82	62.97
Bank non-performing loans (%)	N/A	N/A
Domestic value added	69	39.42
Medium- and high-tech activities value added	66	24.39
Industry and services value added (% GDP)	63	60.76

Enrolment	66	18.09
Enrolment in bachelor's or equivalent level (%)	62	23.74
Enrolment in master's, doctoral or equivalent (%)	66	12.43
Resources	78	56.36
Pupil-teacher ratio in tertiary education	95	52.49
Researchers in higher education (%)	33	60.24
Learning environment	76	44.69
Diversity and academic freedom	98	33.42
Teachers in tertiary education, gender parity	15	92.02
Inbound mobility rate	73	6.46
Academic freedom	116	1.76
Equity and inclusiveness	16	55.97
Gross attendance ratio for tertiary education, gender parity	20	90.53
Gross attendance ratio for tertiary education, wealth parity	12	28.43
Gross attendance ratio for tertiary education, location parity	16	48.96
Outputs	122	16.44
Attainment	76	8.57
Educational attainment rate, bachelor's or equivalent	N/A	N/A
Educational attainment rate, master's or equivalent	77	2.46
Educational attainment rate, doctoral or equivalent	44	14.67
Employment	N/A	N/A
Labour force participation rate with advanced education	N/A	N/A
Unemployment rate with advanced education	N/A	N/A
Impact	105	24.31
University-industry collaboration in R&D	72	38.5
Citable documents per R&D personnel in higher education	83	10.12
Research, Development and Innovation	76	23.89
Inputs	84	21.64
Inputs of R&D institutions	81	18.91
GERD (% GDP)	44	15.79
GERD per researcher	56	24.8
Researchers per thousand labour force	47	14.3
Tertiary graduates from STEM programmes (%)	100	20.76
Inputs of RDI in business enterprises	111	3.41
GERD performed by business enterprises (%)	70	1.2
GERD financed by business enterprises (%)	75	4.86
Researchers in business enterprises (%)	60	7.37
Firms that spend on R&D (%)	96	0.22
Inputs of societal innovation	27	45.31
High-skilled employment (%)	12	59.13
Intellectual property payments (% total trade)	64	13.22
State of cluster development	20	63.59
Outputs	111	11.24
Outputs of R&D institutions	87	16.35
Average documents per researcher	77	19.29
Citations per document	58	23.92
Patent applications (per 100 billion GDP)	60	5.83
Outputs of RDI in business enterprises	116	2.55
Intellectual property receipts (% total trade)	98	0
Industrial design applications (per 100 billion GDP)	48	9.49
PCT applications (per 100 billion GDP)	85	0.73
Firms producing new goods and services (%)	98	0
Outputs of societal innovation	102	9.73
Trademark applications (per 100 billion GDP)	79	12.96
Cultural goods exports (% exports)	81	5.38
Printing and publishing output (% manufactured output)	81	10.86
Impact	21	38.79
Quality	61	26.11
Research institutions prominence	33	35.38
Growth of innovative companies	25	60.59
ISO 9001 quality certificates (% GDP)	84	3.61
ISO 14001 environmental certificates (% GDP)	72	4.86
Linkages	100	7.22
GERD financed from abroad (%)	88	0.94
Joint ventures per strategic alliance deals (per billion GDP)	86	4.12
Computer software spending (% GDP)	64	16.61
Business development	3	83.04
New business density per thousand population	N/A	N/A
Firms with new product/service (%)	4	83.04

Labour underutilization rate	90	54.95
Output per worker	55	17.57
Enabling Environment	108	41.34
Governance	112	20.55
Political environment	121	9.53
Peace and stability	111	11.32
Voice and accountability	119	7.73
Quality of institutions	88	31.57
Rule of law	76	39.9
Control of corruption	101	22.6
Government effectiveness	89	32.21
Socio-economic	100	43.13
Gender equity	99	53.53
Female-to-male ratio in parliament	54	38.32
Female-to-male labour force participation	120	25.94
Female-to-male ratio in Internet usage	56	96.34
Social inclusion	103	43.29
Social protection coverage (% population)	64	35.08
Adult literacy rate	84	62.91
Youth not in employment, education or training (%)	102	31.88
Standard of living	86	32.56
Poverty headcount ratio (% population)	79	54.89
GDP per capita	71	10.24
Health and environment	86	60.33
Health	79	71.84
Universal health coverage	69	68
Healthy life expectancy (years)	81	63.9
Under-five mortality rate	79	83.63
Environmental performance	91	48.82
Renewable energy consumption (%)	110	4.92
Ecological footprint per capita	41	90.54
Natural hazard exposure	81	51

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