



GKI RANK 26 /133

GKI SCORE 60.5

WORLD AVERAGE 47.5

COUNTRY PERFORMANCE SUMMARY

United Arab Emirates is a leading performer in terms of its knowledge infrastructure. It ranks 26th out of 133 countries in the Global Knowledge Index 2023 and 26th out of the 61 countries with very high human development.

AREAS OF STRENGTH

- + Active mobile-broadband subscriptions per hundred inhabitants
- + Mobile upload and download speeds
- + Educational attainment rate, bachelor's or equivalent
- + Entrepreneurial employee activity rate
- + Individuals with standard ICT skills (%)

AREAS OF IMPROVEMENT

- Social protection coverage (% population)
- Ecological footprint per capita
- Researchers in higher education (%)
- Participation rate in formal and non-formal education and training
- Renewable energy consumption (%)

UNITED ARAB EMIRATES

KEY INDICATORS

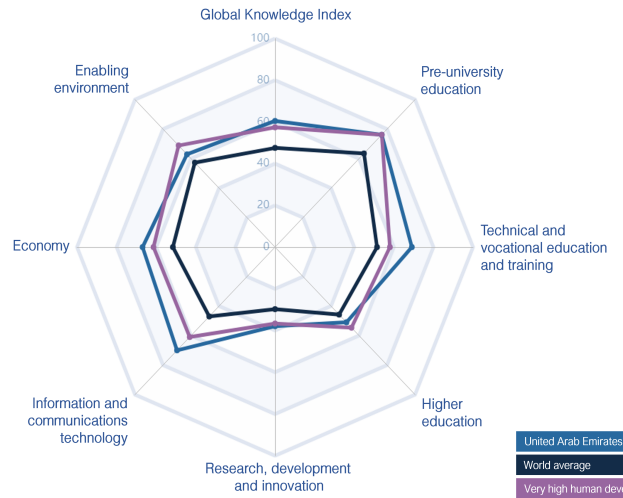
GDP (US\$ billions): 701.467

Population: 9,365,145

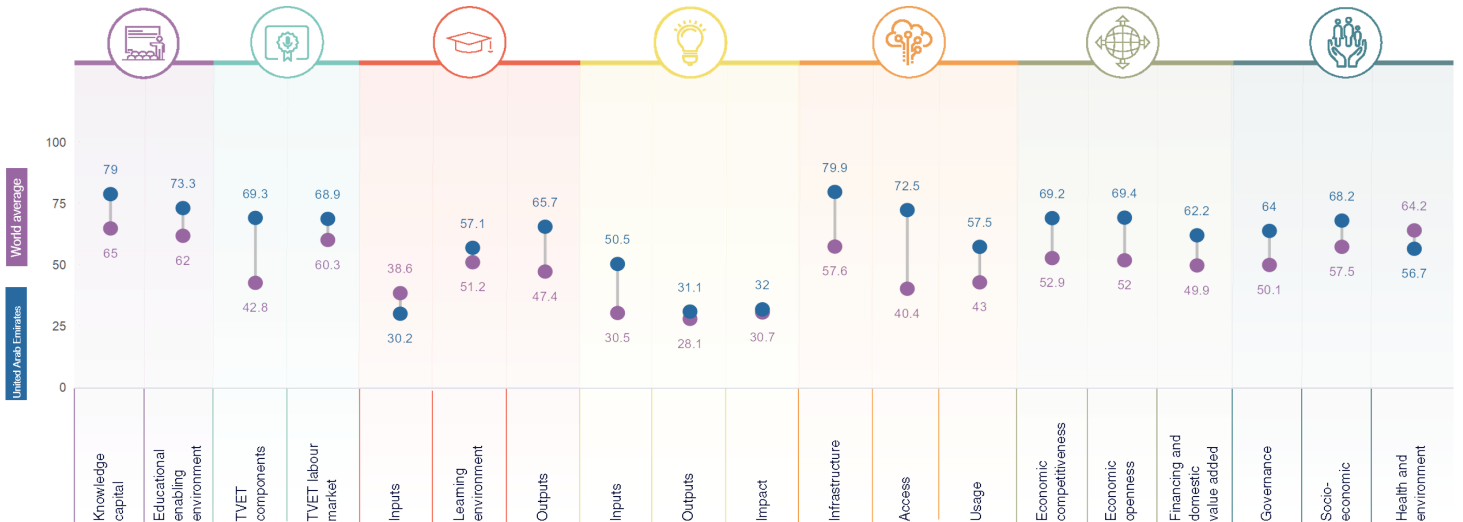
HDI: 0.911

SECTORAL INDICES

	RANK	VALUE
PRE-UNIVERSITY EDUCATION	37	76.2
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	2	69.1
HIGHER EDUCATION	47	51
RESEARCH, DEVELOPMENT AND INNOVATION	29	37.9
INFORMATION AND COMMUNICATIONS TECHNOLOGY	14	70
ECONOMY	13	66.9
ENABLING ENVIRONMENT	45	62.9



GKI PILLARS





UNITED ARAB EMIRATES

Rank Value

Rank Value

PRE-UNIVERSITY EDUCATION 37 76.2

Knowledge capital 42 79

Enrolment	5	98.7
Net enrolment rate in primary education	13	99.5
Net enrolment rate in lower secondary education	22	99
Net enrolment rate in upper secondary education	9	97.7

Completion 21 81.3

Years of compulsory education in primary and secondary	3	92.3
Completion rate in upper secondary education	n/a	n/a
Gross intake ratio to the last grade of lower secondary education	40	70.3

Outcomes 54 56.9

Assessment of 15-year-old students in math, science and reading	45	44.7
Learning-adjusted years of schooling	44	69.1

Educational enabling environment 41 73.3

Expenditure 51 39.3

Government expenditure on primary education (% GDP)	86	24.9
Government expenditure on secondary education (% GDP)	45	36
Government funding per primary student (% GDP per capita)	39	52.2
Government funding per secondary student (% GDP per capita)	24	44.2

Resources 38 96

Pupil-trained teacher ratio in primary education	31	86.6
Pupil-trained teacher ratio in secondary education	10	97.6
Schools with access to computers in primary education (%)	1	100
Schools with access to computers in secondary education (%)	1	100

Early learning 14 84.6

Gross enrolment ratio in early childhood education	n/a	n/a
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	43	84.6

Equity and inclusiveness n/a n/a

Completion rate in upper secondary education, gender parity	n/a	n/a
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 2 69.1

TVET components 2 69.3

Continuous training and skilling	86	36.7
Firms offering formal training (%)	n/a	n/a
Labour force participation rate with short-cycle tertiary education	57	70.2
Participation rate in formal and non-formal education and training	112	3.2

TVET structure 1 100

Government expenditure on vocational education (%)	n/a	n/a
Share of students enrolled in secondary vocational programmes	n/a	n/a
Share of students enrolled in post-secondary vocational programmes	1	100

TVET quality and qualifications 3 71.1

Extent of staff training	14	70.5
Quality of vocational training	7	71.7
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 36 68.9

Efficiency of the labour market 23 76.2

Firms constrained with inadequately educated workforce (%)	n/a	n/a
Employment educational mismatch (%)	54	65.8
Proportion of skilled production workers	n/a	n/a
Unemployment rate with vocational education	44	86.7

Post-TVET employment 69 46.2

Share of TVET occupations	59	59.2
Manufacturing employment (%)	85	33.1

Equity and inclusiveness 30 84.4

Enrolment in vocational education, gender parity	75	70.4
Vulnerable employment rate	4	98.3

HIGHER EDUCATION 47 51

Inputs 98 30.2

Expenditure	49	30.9
Government expenditure per tertiary student	22	30.9
Teaching staff compensation (% tertiary expenditure)	n/a	n/a

Enrolment 73 19.1

Enrolment in bachelor's or equivalent level (%)	53	31.4
Enrolment in master's, doctoral or equivalent (%)	86	6.9

Resources 114 40.4

Pupil-teacher ratio in tertiary education	70	70.8
Researchers in higher education (%)	98	10.1

Learning environment 48 57.1

Diversity and academic freedom 51 57.1

Teachers in tertiary education, gender parity	71	59.3
Inbound mobility rate	1	100
Academic freedom	122	12.1

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 11 65.7

Attainment 9 56

Educational attainment rate, bachelor's or equivalent	1	100
Educational attainment rate, master's or equivalent	33	38.2
Educational attainment rate, doctoral or equivalent	23	29.9

Employment 51 81.4

Labour force participation rate with advanced education	59	76.3
Unemployment rate with advanced education	55	86.6

Impact 8 59.6

University-industry collaboration in R&D	17	64.3
Citable documents per R&D personnel in higher education	8	54.9

RESEARCH, DEVELOPMENT AND INNOVATION 29 37.9

Inputs 16 50.5

Inputs of R&D institutions	21	44.5
GERD (% GDP)	26	27.8
GERD per researcher	11	45.8
Researchers per thousand labour force	42	21.8
Tertiary graduates from STEM programmes (%)	11	82.4

Inputs of RDI in business enterprises 4 68.3

GERD performed by business enterprises (%)	26	18.1
GERD financed by business enterprises (%)	3	91.9
Researchers in business enterprises (%)	2	94.9
Firms that spend on R&D (%)	n/a	n/a

Inputs of societal innovation 27 44.7

High-skilled employment (%)	32	48.9
Intellectual property payments (% total trade)	55	15.6
State of cluster development	4	69.6

Outputs 43 31.1

Outputs of R&D institutions	69	34.8
Average documents per researcher	75	14.1
Citations per document	10	59.1
Resident patent applications (per 100 billion GDP)	102	31

Outputs of RDI in business enterprises 87 11.9

Intellectual property receipts (% total trade)	20	31.7
Industrial design applications (per 100 billion GDP)	109	0.5
PCT applications (per 100 billion GDP)	55	3.4
Firms producing new products and services (%)	n/a	n/a

Outputs of societal innovation 11 43.1

Trademark applications (per 100 billion GDP)	105	7.2
Cultural goods exports (% exports)	1	100
Printing and publishing output (% manufactured output)	35	22.1

Impact 55 32

Quality	26	43.5
Research institutions prominence	40	60.9
Growth of innovative companies	4	67.5
ISO 9001 quality certificates (per billion GDP)	37	18.5
ISO 14001 environmental certificates (per billion GDP)	26	27.1

Linkages 12 43.1

GERD financed from abroad (%)	n/a	n/a
Joint ventures per strategic alliance deals (per billion GDP)	8	63.3
Computer software spending (% GDP)	57	22.9

Business development 121 9.3

New business density per thousand population	55	9.3
Firms with products and services new to the market (%)	n/a	n/a

UNITED ARAB EMIRATES

	Rank	Value		Rank	Value
INFORMATION AND COMMUNICATIONS TECHNOLOGY			ENABLING ENVIRONMENT		
Infrastructure	13	79.9	Governance	45	64
Coverage	51	66.3	Political environment	66	44.3
3G/4G mobile network coverage (% population)	20	99.9	Peace and stability	29	70.3
Secure Internet servers per 1 million population	63	58.3	Voice and accountability	114	18.4
Investment in telecommunication services (% GDP)	45	40.8	Quality of institutions	24	83.6
Quality	7	76.1	Rule of law	25	83.5
Mobile upload and download speeds	1	100	Control of corruption	19	88.7
Fixed-broadband upload and download speeds	17	49.7	Government effectiveness	31	78.8
Fixed-broadband subscriptions by speed per hundred people	16	78.6	Socio-economic	38	68.2
Affordability	18	97.4	Gender equity	10	86.8
Fixed broadband basket (% GNI per capita)	6	97.8	Female-to-male ratio in parliament	1	100
Mobile broadband basket (% GNI per capita)	56	94.4	Female-to-male labour force participation	110	60.5
Internet and telephony competition	1	100	Female-to-male ratio in Internet usage	1	100
Access	3	72.5	Social inclusion	86	53.6
Subscriptions	1	90.6	Social protection coverage (% population)	123	0.7
Active mobile-broadband subscriptions per hundred inhabitants	1	100	Adult literacy rate	30	97.6
International Internet bandwidth per user	6	71.7	Youth not in employment, education or training (%)	67	62.3
Households with Internet access at home (%)	1	100	Standard of living	10	64.1
Skills and employment	14	54.4	Poverty headcount ratio (% population)	n/a	n/a
Individuals with standard ICT skills (%)	2	98	GDP per capita	5	64.1
Tertiary graduates from ICT programmes (%)	37	36.7	Health and environment	113	56.7
ICT employment (%)	41	28.6	Health	43	84
Usage	29	57.5	Universal health coverage	31	81.8
Services	15	68.8	Healthy life expectancy (years)	62	74.2
Government online services	11	90.1	Under-five mortality rate	46	96.1
Fixed broadband Internet traffic per subscription	3	66.3	Environmental performance	130	29.3
Mobile broadband Internet traffic per subscription	51	18.7	Renewable energy consumption (%)	124	1
Internet users (%)	1	100	Ecological footprint per capita	128	29.1
Outcomes	34	46.3	Natural hazard exposure	66	58
ICT PCT patent applications (per 100 billion GDP)	49	4			
E-participation	16	78.4			
Internet activities by individuals (%)	31	64.2			
Trade in digitally deliverable services (% total trade)	58	38.5			
ECONOMY	13	66.9			
Economic competitiveness	17	69.2			
Infrastructure investment	6	68.3			
Gross fixed capital formation (% GDP)	89	18.5			
Logistics performance	7	75			
Transport productive capacity	12	79.8			
Building quality control	1	100			
Business agility	35	70			
Ease of starting a business	15	94.8			
Insolvency recovery rate	95	30.1			
Entrepreneurial employee activity rate	2	83.7			
Extent of corporate transparency	49	71.4			
Economic openness	16	69.4			
Trade and diversification	33	58.7			
Trade (% GDP)	17	39.3			
High-technology trade (% total trade)	44	31			
Product concentration	80	71.2			
Market concentration	33	93.3			
Financial openness	9	80.2			
Chinn-Ito financial openness	1	100			
Foreign direct investment, net inflows (% GDP)	23	40.6			
Debt dynamics	1	100			
Financing and domestic value added	19	62.2			
Financing and taxes	75	58.7			
Domestic credit to private sector (% GDP)	37	27.4			
MSME financing gap (% GDP)	n/a	n/a			
Tax and contribution rate (% profit)	10	92			
Bank non-performing loans (%)	91	56.6			
Domestic value added	6	65.8			
Medium- and high-tech activities value added	30	49.7			
Industry and services value added (% GDP)	5	73.8			
Labour underutilization rate	6	95			
Output per worker	18	44.5			

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