



GKI RANK 81 /141

GKI SCORE

45.3

WORLD AVERAGE

47.8

COUNTRY PERFORMANCE SUMMARY

Lebanon is a moderate performer in terms of its knowledge infrastructure. It ranks 81st out of 141 countries in the Global Knowledge Index 2024 and 20th out of the 35 countries with high human development.

LEBANON

KEY INDICATORS

GDP (US\$ billions): 65.917

Population: 5,773,493

HDI: 0.723

AREAS OF STRENGTH

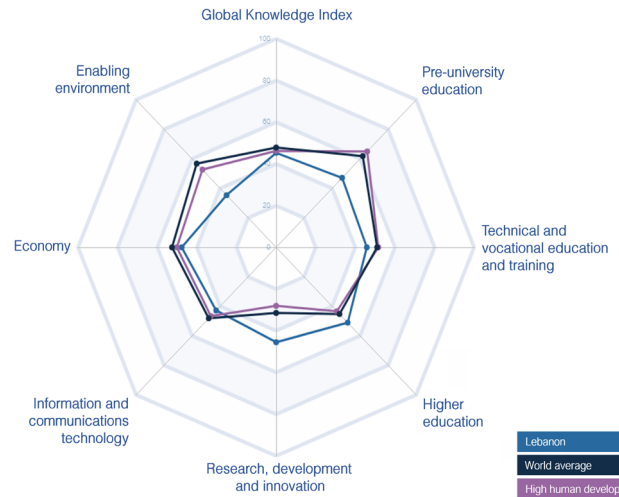
- + Citations per document
- + Pupil-teacher ratio in tertiary education
- + Cultural goods exports (% exports)
- + Tertiary graduates from ICT programmes (%)
- + Educational attainment rate, doctoral or equivalent

AREAS OF IMPROVEMENT

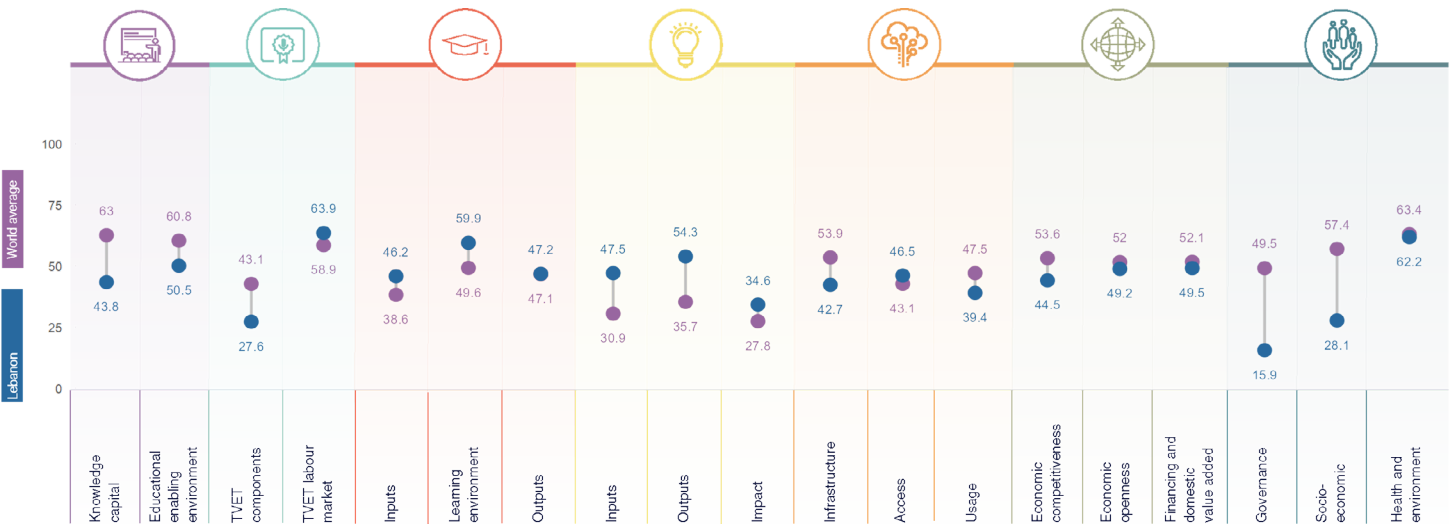
- Gross fixed capital formation (% GDP)
- Government effectiveness
- Government expenditure on secondary education (% GDP)
- Internet and telephony competition
- Bank non-performing loans (%)

SECTORAL INDICES

	RANK	VALUE
PRE-UNIVERSITY EDUCATION	110	47.1
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	99	45.8
HIGHER EDUCATION	46	51.1
RESEARCH, DEVELOPMENT AND INNOVATION	22	45.5
INFORMATION AND COMMUNICATIONS TECHNOLOGY	88	42.8
ECONOMY	86	47.7
ENABLING ENVIRONMENT	136	35.4



GKI PILLARS





LEBANON

	Rank	Value
PRE-UNIVERSITY EDUCATION	110	47.1
Knowledge capital	114	43.8
Enrolment	122	49
Net enrolment rate in primary education	127	50.6
Net enrolment rate in lower secondary education	114	56.4
Net enrolment rate in upper secondary education	112	39.9
Completion	98	54.7
Years of compulsory education in primary and secondary	45	76.9
Completion rate in upper secondary education	n/a	n/a
Gross intake ratio to the last grade of lower secondary education	107	32.5
Outcomes	108	27.6
Assessment of 15-year-old students in math, science and reading	70	16.3
Learning-adjusted years of schooling	99	38.9
Educational enabling environment	101	50.5
Expenditure	125	6.5
Government expenditure on primary education (% GDP)	n/a	n/a
Government expenditure on secondary education (% GDP)	122	2.9
Government funding per primary student (% GDP per capita)	n/a	n/a
Government funding per secondary student (% GDP per capita)	104	10
Resources	82	77.5
Pupil-trained teacher ratio in primary education	66	78.7
Pupil-trained teacher ratio in secondary education	n/a	n/a
Schools with access to computers in primary education (%)	66	69.8
Schools with access to computers in secondary education (%)	85	83.9
Early learning	51	67.6
Gross enrolment ratio in early childhood education	29	62.7
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	65	72.6
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	99	45.8
TVET components	131	27.6
Continuous training and skilling	124	23.3
Firms offering formal training (%)	88	22.4
Labour force participation rate with short-cycle tertiary education	94	23.7
Participation rate in formal and non-formal education and training	78	23.8
TVET structure	100	22.8
Government expenditure on vocational education (%)	n/a	n/a
Share of students enrolled in secondary vocational programmes	54	22.8
Share of students enrolled in post-secondary vocational programmes	n/a	n/a
TVET quality and qualifications	112	36.8
Extent of staff training	123	42.8
Quality of vocational training	81	50.9
Ratio of high-skill TVET occupations earnings to average wage	48	28.8
Ratio of medium-skill TVET occupations earnings to average wage	69	24.7
TVET labour market	60	63.9
Efficiency of the labour market	76	67.7
Firms constrained with inadequately educated workforce (%)	35	84.5
Employment educational mismatch (%)	65	60.8
Proportion of skilled production workers	71	61.5
Unemployment rate with vocational education	95	64.2
Post-TVET employment	60	46.5
Share of TVET occupations	67	57.8
Manufacturing employment (%)	65	35.1
Equity and inclusiveness	53	77.5
Enrolment in vocational education, gender parity	n/a	n/a
Vulnerable employment rate	55	77.5

	Rank	Value
HIGHER EDUCATION	46	51.1
Inputs	40	46.2
Expenditure	105	5.2
Government expenditure per tertiary student	80	5.2
Teaching staff compensation (% tertiary expenditure)	n/a	n/a
Enrolment	45	33.8
Enrolment in bachelor's or equivalent level (%)	58	26.1
Enrolment in master's, doctoral or equivalent (%)	40	41.5
Resources	1	99.5
Pupil-teacher ratio in tertiary education	2	99.5
Researchers in higher education (%)	n/a	n/a
Learning environment	44	59.9
Diversity and academic freedom	51	59.9
Teachers in tertiary education, gender parity	18	93.1
Inbound mobility rate	19	31.8
Academic freedom	92	55
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	66	47.2
Attainment	20	50.6
Educational attainment rate, bachelor's or equivalent	47	36.1
Educational attainment rate, master's or equivalent	30	46.7
Educational attainment rate, doctoral or equivalent	12	69
Employment	134	50.4
Labour force participation rate with advanced education	132	49.3
Unemployment rate with advanced education	128	51.5
Impact	60	40.6
University-industry collaboration in R&D	92	40.6
Citable documents per R&D personnel in higher education	n/a	n/a
RESEARCH, DEVELOPMENT AND INNOVATION	22	45.5
Inputs	24	47.5
Inputs of R&D institutions	3	74.4
GERD (% GDP)	n/a	n/a
GERD per researcher	n/a	n/a
Researchers per thousand labour force	n/a	n/a
Tertiary graduates from STEM programmes (%)	18	74.4
Inputs of RDI in business enterprises	109	11.8
GERD performed by business enterprises (%)	n/a	n/a
GERD financed by business enterprises (%)	n/a	n/a
Researchers in business enterprises (%)	n/a	n/a
Firms that spend on R&D (%)	92	11.8
Inputs of societal innovation	83	29.5
High-skilled employment (%)	46	45
Intellectual property payments (% total trade)	114	1.5
State of cluster development	103	41.9
Outputs	12	54.3
Outputs of R&D institutions	1	77.8
Average documents per researcher	n/a	n/a
Citations per document	1	100
Resident patent applications (per 100 billion GDP)	55	55.6
Outputs of RDI in business enterprises	135	9.6
Intellectual property receipts (% total trade)	47	17.9
Industrial design applications (per 100 billion GDP)	n/a	n/a
PCT applications (per 100 billion GDP)	97	0.7
Firms producing new products and services (%)	101	10.2
Outputs of societal innovation	13	52.1
Trademark applications (per 100 billion GDP)	112	5.5
Cultural goods exports (% exports)	6	98.7
Printing and publishing output (% manufactured output)	n/a	n/a
Impact	37	34.6
Quality	74	20.2
Research institutions prominence	66	8.8
Growth of innovative companies	82	44.9
ISO 9001 quality certificates (per billion GDP)	37	20.1
ISO 14001 environmental certificates (per billion GDP)	73	6.9
Linkages	111	6.7
GERD financed from abroad (%)	n/a	n/a
Joint ventures per strategic alliance deals (per billion GDP)	42	10.9
Computer software spending (% GDP)	111	2.5
Business development	4	77
New business density per thousand population	n/a	n/a
Firms with products and services new to the market (%)	22	77



LEBANON

	Rank	Value
INFORMATION AND COMMUNICATIONS TECHNOLOGY	88	42.8
Infrastructure	104	42.7
Coverage	48	65
3G/4G mobile network coverage (% population)	48	99.1
Secure Internet servers per 1 million population	87	45.1
Investment in telecommunication services (% GDP)	15	50.7
Quality	110	6.6
Mobile upload and download speeds	89	8.8
Fixed-broadband upload and download speeds	127	4
Fixed-broadband subscriptions by speed per hundred people	96	6.9
Affordability	123	56.4
Fixed broadband basket (% GNI per capita)	58	71.3
Mobile broadband basket (% GNI per capita)	107	82.7
Internet and telephony competition	134	15.4
Access	64	46.5
Subscriptions	81	57.9
Active mobile-broadband subscriptions per hundred inhabitants	84	41.4
International Internet bandwidth per user	81	54.8
Households with Internet access at home (%)	81	77.4
Skills and employment	50	35.1
Individuals with standard ICT skills (%)	n/a	n/a
Tertiary graduates from ICT programmes (%)	10	51.5
ICT employment (%)	56	18.7
Usage	94	39.4
Services	97	40.3
Government online services	115	44.9
Fixed broadband Internet traffic per subscription	66	25.4
Mobile broadband Internet traffic per subscription	126	2.1
Internet users (%)	40	88.9
Outcomes	86	38.4
ICT PCT patent applications (per 100 billion GDP)	61	43.3
E-participation	89	46.6
Internet activities by individuals (%)	n/a	n/a
Trade in digitally deliverable services (% total trade)	89	25.4
ECONOMY	86	47.7
Economic competitiveness	104	44.5
Infrastructure investment	92	46.8
Gross fixed capital formation (% GDP)	132	0
Logistics performance	77	42.9
Transport productive capacity	44	50.9
Building quality control	8	93.3
Business agility	110	42.2
Ease of starting a business	119	78.2
Insolvency recovery rate	87	33.5
Entrepreneurial employee activity rate	52	14.1
Extent of corporate transparency	88	42.9
Economic openness	75	49.2
Trade and diversification	46	54.7
Trade (% GDP)	35	28.5
High-technology trade (% total trade)	104	10.9
Product concentration	30	86.6
Market concentration	43	92.6
Financial openness	85	43.7
Chinn-Ito financial openness	71	44.7
Foreign direct investment, net inflows (% GDP)	50	42.8
Debt dynamics	n/a	n/a
Financing and domestic value added	82	49.5
Financing and taxes	87	55.3
Domestic credit to private sector (% GDP)	19	43
MSME financing gap (% GDP)	31	84.4
Tax and contribution rate (% profit)	50	67.4
Bank non-performing loans (%)	113	26.5
Domestic value added	75	43.8
Medium- and high-tech activities value added	89	15.5
Industry and services value added (% GDP)	20	82
Labour underutilization rate	96	59.5
Output per worker	65	18.2

	Rank	Value
ENABLING ENVIRONMENT	136	35.4
Governance	133	15.9
Political environment	120	20.2
Peace and stability	130	9.4
Voice and accountability	101	30.9
Quality of institutions	135	11.6
Rule of law	130	13.7
Control of corruption	131	13.7
Government effectiveness	139	7.5
Socio-economic	139	28.1
Gender equity	141	24.4
Female-to-male ratio in parliament	131	6.7
Female-to-male labour force participation	131	42.1
Female-to-male ratio in Internet usage	n/a	n/a
Social inclusion	98	51.5
Social protection coverage (% population)	106	17.9
Adult literacy rate	59	90.4
Youth not in employment, education or training (%)	109	46.2
Standard of living	131	8.5
Poverty headcount ratio (% population)	n/a	n/a
GDP per capita	90	8.5
Health and environment	89	62.2
Health	79	74.4
Universal health coverage	69	72.6
Healthy life expectancy (years)	75	64.1
Under-five mortality rate	88	86.6
Environmental performance	95	49.9
Renewable energy consumption (%)	123	7.1
Ecological footprint per capita	77	77.6
Natural hazard exposure	59	65

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