

LEBANON

KEY INDICATORS

GDP (US\$ billions): 65.917 Population: 5,773,493

HDI: 0.723

GKI RANK 81 /141

GKI 45.3 **SCORE** 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.

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

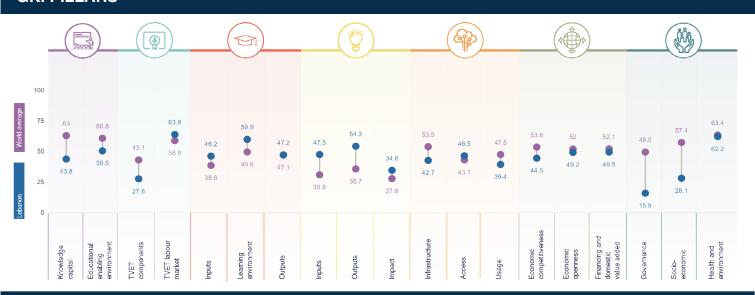
- Gross fixed capital formation (% GDP)
- Government effectiveness
- Government expenditure on secondary education (% GDP)
- Internet and telephony competition
- Bank non-performing loans (%)

SECTORAL INDICES





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 69	28.8
Ratio of medium-skill TVET occupations earnings to average wage	69	
TVET labour market		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 n/a
Enrolment in vocational education, gender parity	n/a	n/a 77.5
Vulnerable employment rate	55	11.5

A		Rank	Value
	HIGHER EDUCATION		
Concentrated expenditure per tertiary student 80 5.2	Inputs	40	46.2
Process Proc	Expenditure		
Enrodment 45 33.8 Enrodment in bachelor's or equivalent level (%) 55 2.6.1 Enrodment in bachelor's or equivalent (%) 40 415.5 Resources 1 99.5 Resourcher in higher education (%) n/a n/a Learning environment 44 59.9 Learning environment 44 59.9 Learning environment 44 59.9 Learning environment 48 59.9 Learning environment 49 25.5 Ceptury and academic readered 92 55.5 Scalarity and inclusiveness 66 47.2 Gross attendance ratio for tertiany education, gender parity n/a n/a Cross attendance ratio for tertiany education, location parity n/a n/a Outputs 46 47.2 44.7 44.7			
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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			
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			
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	Printing and publishing output (% manufactured output)		
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	Impact	37	34.6
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	Quality	74	20.2
SO 9001 quality certificates (per billion GDP) 37 20.1 SO 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	Research institutions prominence	66	8.8
SO 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	Growth of innovative companies	82	44.9
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	ISO 9001 quality certificates (per billion GDP)	37	20.1
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	ISO 14001 environmental certificates (per billion GDP)		
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	Linkages		
Computer software spending (% GDP) 111 2.5 Business development 4 77 New business density per thousand population n/a n/a	GERD financed from abroad (%)		
Business development 4 77 New business density per thousand population n/a n/a			
New business density per thousand population n/a n/a			
	New business development New business density per thousand population		
	Firms with products and services new to the market (%)		



LEBANON

INFORMATION AND COMMUNICATIONS TECHNOLOGY	Rank	
	88	42.8
nfrastructure	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) Quality	15 110	50.7 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 (%)	n/a 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
	126	2.1
Mobile broadband Internet traffic per subscription 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	
Eoglotico performance		42.9
Transport productive capacity	44	42.9
	44 8	50.9
Transport productive capacity Building quality control Business anility	8	50.9 93.3
Building quality control Business agility	8 110	50.9 93.3 42.2
Building quality control Business agility Ease of starting a business	8 110 119	50.9 93.3 42.2 78.2
Building quality control Business agility Ease of starting a business Insolvency recovery rate	8 110 119 87	50.9 93.3 42.2 78.2 33.5
Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate	8 110 119 87 52	50.9 93.3 42.2 78.2 33.5 14.1
Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency	8 110 119 87 52 88	50.9 93.3 42.2 78.2 33.5 14.1 42.9
Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness	8 110 119 87 52 88 75	50.9 93.3 42.2 78.2 33.5 14.1 42.9
Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification	8 110 119 87 52 88 75	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7
Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP)	8 110 119 87 52 88 75 46 35	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5
Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP) High-technology trade (% total trade)	8 110 119 87 52 88 75 46 35	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5 10.9
Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration	8 110 119 87 52 88 75 46 35 104	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5 10.9 86.6
Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration Market concentration	8 110 119 87 52 88 75 46 35 104 30 43	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5 10.9 86.6 92.6
Suilding quality control Susiness agility Ease of starting a business nsolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP) -ligh-technology trade (% total trade) Product concentration Market concentration Financial openness	8 110 119 87 52 88 75 46 35 104 30 43	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5 10.9 86.6 92.6 43.7
Suliding quality control Susiness agility Ease of starting a business nsolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP) -ligh-technology trade (% total trade) Peroduct concentration Market concentration Market concentration Financial openness Chinn-Ito financial openness	8 110 119 87 52 88 75 46 35 104 30 43 85 71	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5 10.9 86.6 92.6 43.7 44.7
Suliding quality control Susiness agility Ease of starting a business nsolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP)	8 110 119 87 52 88 75 46 35 104 30 43 85 71	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5 10.9 86.6 92.6 43.7 44.7 42.8
Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration Market concentration Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics	8 110 119 87 52 88 75 46 35 104 30 43 85 71 50 n/a	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5 10.9 86.6 92.6 43.7 44.7 42.8 n/a
Suliding quality control Susiness agility Ease of starting a business nsolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP) I-tigh-technology trade (% total trade) Peroduct concentration Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and domestic value added	8 110 119 87 52 88 75 46 35 104 30 43 85 71 50 n/a	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5 10.9 86.6 92.6 43.7 44.7 42.8 n/a
Suliding quality control Susiness agility Ease of starting a business nsolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Frade and diversification Frade (% GDP) I-digh-technology trade (% total trade) Peroduct concentration Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and domestic value added Financing and daxes	8 110 119 87 52 88 75 46 35 104 30 43 85 71 50 n/a 82 87	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5 10.9 86.6 92.6 43.7 44.7 42.8 n/a 49.5 55.3
Suliding quality control Susiness agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Frade and diversification Frade (% GDP) Irigh-technology trade (% total trade) Peroduct concentration Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and domestic value added Financing and taxes Domestic credit to private sector (% GDP)	8 110 119 87 52 88 75 46 35 104 30 43 85 71 50 n/a 82 87	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5 10.9 86.6 92.6 43.7 44.7 42.8 n/a 49.5 55.3 43
Suliding quality control Susiness agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Frade and diversification Frade (% GDP) I-righ-technology trade (% total trade) Peroduct concentration Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and domestic value added Financing and taxes Domestic credit to private sector (% GDP) MSME financing gap (% GDP)	8 110 119 87 52 88 75 46 35 104 30 43 85 71 50 n/a 82 87 19 31	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5 10.9 86.6 92.6 43.7 44.7 42.8 n/a 49.5 55.3 43 84.4
Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and domestic value added Financing and taxes Domestic credit to private sector (% GDP) MSME financing gap (% GDP) Tax and contribution rate (% profit)	8 110 119 87 52 88 75 46 35 104 30 43 85 71 50 n/a 82 87	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5 10.9 86.6 92.6 43.7 44.7 42.8 n/a 49.5 55.3 43 84.4 67.4
Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and taxes Domestic credit to private sector (% GDP) MSME financing app (% GDP) Tax and contribution rate (% profit) Bank non-performing loans (%)	8 110 119 87 52 88 75 46 35 104 30 43 85 71 50 n/a 82 87 19 31 50 113	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5 10.9 86.6 92.6 43.7 44.7 42.8 n/a 49.5 55.3 43 84.4 67.4 26.5
Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and taxes Domestic credit to private sector (% GDP) MSME financing gap (% GDP) Tax and contribution rate (% profit) Bank non-performing loans (%) Domestic value added	8 110 119 87 52 88 75 46 35 104 30 43 85 71 50 n/a 82 87 19 31 50 113 75	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5 10.9 86.6 92.6 43.7 44.7 42.8 n/a 49.5 55.3 43 84.4 67.4 26.5 43.8
Suliding quality control Susiness agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP) I-diph-technology trade (% total trade) Product concentration Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and taxes Domestic credit to private sector (% GDP) MSME financing gap (% GDP) Tax and contribution rate (% profit) Bank non-performing loans (%) Domestic value added Medium- and high-tech activities value added	8 110 119 87 52 88 75 46 35 104 30 43 85 71 50 n/a 82 87 19 31 50 113 75	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5 10.9 86.6 92.6 43.7 44.7 42.8 n/a 49.5 55.3 43 84.4 67.4 26.5 43.8 15.5
Suliding quality control Susiness agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP) Irigh-technology trade (% total trade) Product concentration Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and domestic value added Financing and taxes Domestic credit to private sector (% GDP) MSME financing gap (% GDP) Tax and contribution rate (% profit) Bank non-performing loans (%) Domestic value added	8 110 119 87 52 88 75 46 35 104 30 43 85 71 50 n/a 82 87 19 31 50 113 75	50.9 93.3 42.2 78.2 33.5 14.1 42.9 49.2 54.7 28.5 10.9 86.6 92.6 43.7 44.7 42.8 n/a 49.5 55.3 43 84.4 67.4 26.5 43.8

	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

 $^{^{\}star}$ All values are normalized to a scale from 0 (worst) to 100 (best).