



GKI RANK 111/154

GKI SCORE 40.3

WORLD AVERAGE 48.4

ALGERIA

COUNTRY PERFORMANCE SUMMARY

Algeria is a modest performer in terms of its knowledge infrastructure. It ranks 111th out of 154 countries in the Global Knowledge Index 2021 and 38th out of the 39 countries with high human development.

KEY INDICATORS

GDP US\$ billions **468.403**
Population **43,851,043**
HDI **0.748**

AREAS OF STRENGTH

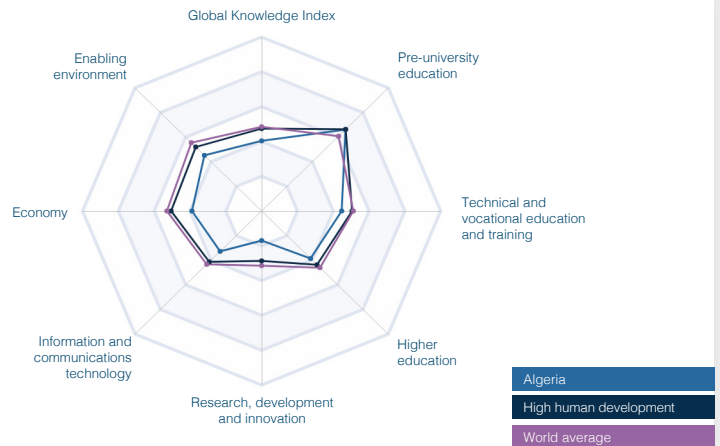
- + Researchers in higher education (%)
- + Poverty headcount ratio (% population)
- + Gross fixed capital formation (% GDP)
- + Gross attendance ratio for tertiary education, wealth parity
- + Net enrolment rate in primary education

AREAS OF IMPROVEMENT

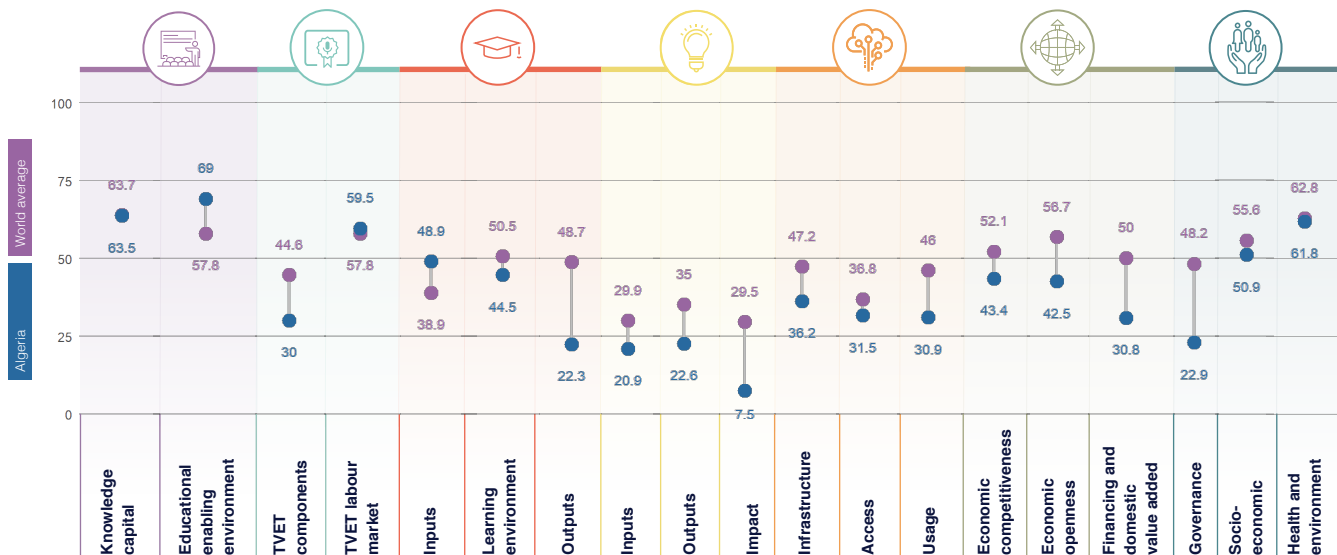
- Computer software spending (% GDP)
- Cultural goods exports (% exports)
- Fixed-broadband upload and download speeds
- GERD financed from abroad (%)
- Extent of corporate transparency

SECTORAL INDICES

	RANK	VALUE
PRE-UNIVERSITY EDUCATION	78	66.2
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	108	44.7
HIGHER EDUCATION	111	38.6
RESEARCH, DEVELOPMENT AND INNOVATION	145	17
INFORMATION AND COMMUNICATIONS TECHNOLOGY	106	32.8
ECONOMY	136	38.9
ENABLING ENVIRONMENT	117	45.2



GKI PILLARS





ALGERIA

	Rank	Value
PRE-UNIVERSITY EDUCATION	78	66.2
Knowledge capital	88	63.5
Enrolment	4	99.5
Net enrolment rate in primary education	16	99.5
Net enrolment rate in lower secondary education	n/a	n/a
Net enrolment rate in upper secondary education	n/a	n/a
Completion	100	62.3
Years of compulsory education in primary and secondary	42	76.9
Completion rate in upper secondary education	90	43.3
Gross intake ratio to the last grade of lower secondary education	84	66.7
Outcomes	114	28.7
Assessment of 15-year-old students in math, science and reading	75	11.3
Learning-adjusted years of schooling	92	46.1
Educational enabling environment	47	69
Expenditure	n/a	n/a
Government expenditure on primary education (% GDP)	n/a	n/a
Government expenditure on secondary education (% GDP)	n/a	n/a
Government funding per primary student (% GDP per capita)	n/a	n/a
Government funding per secondary student (% GDP per capita)	n/a	n/a
Resources	52	84.9
Pupil-trained teacher ratio in primary education	46	82.6
Pupil-trained teacher ratio in secondary education	n/a	n/a
Schools with access to computers in primary education (%)	n/a	n/a
Schools with access to computers in secondary education (%)	59	87.2
Early learning	47	68.5
Gross enrolment ratio in early childhood education	34	63
Proportion of children who are developmentally on track	32	64.6
Proportion of children with stimulating home learning environments	23	78
Pupil-trained teacher ratio in pre-primary education	n/a	n/a
Equity and inclusiveness	87	53.6
Completion rate in upper secondary education, gender parity	120	59
Completion rate in upper secondary education, wealth parity	70	33.3
Completion rate in upper secondary education, location parity	62	68.4
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	108	44.7
TVET components	133	30
Continuous training and skilling	n/a	n/a
Firms offering formal training (%)	n/a	n/a
Labour force with short-cycle tertiary education (%)	n/a	n/a
Participation rate in formal and non-formal education and training	n/a	n/a
TVET structure	127	13.2
Government expenditure on vocational education (%)	n/a	n/a
Share of students enrolled in secondary vocational programmes	84	13.2
Share of students enrolled in post-secondary vocational programmes	n/a	n/a
TVET quality and qualifications	68	46.7
Extent of staff training	88	46.9
Quality of vocational training	92	46.5
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	75	59.5
Efficiency of the labour market	n/a	n/a
Firms constrained with inadequately educated workforce (%)	n/a	n/a
Employment educational mismatch (%)	n/a	n/a
Proportion of skilled production workers	n/a	n/a
Unemployment rate with vocational education	n/a	n/a
Post-TVET employment	66	48.1
Share of TVET occupations	64	60.4
Manufacturing employment (%)	73	35.8
Equity and inclusiveness	81	70.8
Enrolment in vocational education, gender parity	n/a	n/a
Vulnerable employment rate	75	70.8

	Rank	Value
HIGHER EDUCATION	111	38.6
Inputs	38	48.9
Expenditure	n/a	n/a
Government expenditure per tertiary student	n/a	n/a
Teaching staff compensation (% tertiary expenditure)	n/a	n/a
Enrolment	59	23.3
Enrolment in bachelor's or equivalent level (%)	68	23.3
Enrolment in master's, doctoral or equivalent (%)	n/a	n/a
Resources	35	74.5
Pupil-teacher ratio in tertiary education	107	55.3
Researchers in higher education (%)	3	93.7
Learning environment	96	44.5
Diversity and academic freedom	117	37.1
Teachers in tertiary education, gender parity	41	79.2
Inbound mobility rate	102	2
Academic freedom	126	30.3
Equity and inclusiveness	24	51.9
Gross attendance ratio for tertiary education, gender parity	77	61.4
Gross attendance ratio for tertiary education, wealth parity	10	63.9
Gross attendance ratio for tertiary education, location parity	12	30.3
Outputs	149	22.3
Attainment	n/a	n/a
Educational attainment rate, bachelor's or equivalent	n/a	n/a
Educational attainment rate, master's or equivalent	n/a	n/a
Educational attainment rate, doctorate or equivalent	n/a	n/a
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	130	22.3
University-industry collaboration in R&D	90	37.1
Citable documents per R&D personnel in higher education	96	7.5
RESEARCH, DEVELOPMENT AND INNOVATION	145	17
Inputs	109	20.9
Inputs of R&D institutions	68	25.6
GERD (% GDP)	58	10.8
GERD per researcher	66	19
Researchers per thousand labour force	46	18
Tertiary graduates from STEM programmes (%)	23	54.6
Inputs of RDI in business enterprises	140	3.2
GERD performed by business enterprises (%)	75	1
GERD financed by business enterprises (%)	83	8.3
Researchers in business enterprises (%)	82	0.2
Firms that spend on R&D (%)	n/a	n/a
Inputs of societal innovation	92	29.1
High-skilled employment (%)	n/a	n/a
Intellectual property payments (% total trade)	82	9.8
State of cluster development	59	48.3
Outputs	127	22.6
Outputs of R&D institutions	108	32.4
Average documents per researcher	97	38.2
Citations per document	92	18.6
Patent applications (per 100 billion GDP)	85	40.4
Outputs of RDI in business enterprises	134	18.3
Intellectual property receipts (% total trade)	102	2.3
Industrial design applications (per 100 billion GDP)	43	15.6
PCT applications (per 100 billion GDP)	107	36.9
Firms producing new goods and services (%)	n/a	n/a



ALGERIA

	Rank	Value
Outputs of societal innovation	124	7.2
Trademark applications (per 100 billion GDP)	82	18
Cultural goods exports (% exports)	140	0
Printing and publishing output (% manufactured output)	104	3.7
Impact	149	7.5
Quality	87	19.8
Research institutions prominence	46	25.5
Growth of innovative companies	90	46.6
ISO 9001 quality certificates (% GDP)	113	3.8
ISO 14001 environmental certificates (% GDP)	100	3.3
Linkages	139	1
GERD financed from abroad (%)	101	0
Joint ventures per strategic alliance deals (% GDP)	123	2.5
Computer software spending (% GDP)	123	0.4
Business development	148	1.7
New business density per thousand population	113	1.7
Firms with new product/service (%)	n/a	n/a
INFORMATION AND COMMUNICATIONS TECHNOLOGY	106	32.8
Infrastructure	111	36.2
Coverage	107	39.3
3G/4G mobile network coverage (% population)	89	85.9
Secure Internet servers per 1 million population	126	1.1
Investment in telecommunication services (% GDP)	67	31
Quality	126	5.3
Mobile upload and download speeds	n/a	n/a
Fixed-broadband upload and download speeds	115	0
Fixed-broadband subscriptions by speed per hundred people	87	10.6
Affordability	101	63.9
Fixed broadband basket (% GNI per capita)	92	69.9
Mobile broadband basket (% GNI per capita)	45	71.7
Internet and telephony competition	131	50
Access	93	31.5
Subscriptions	72	48.9
Active mobile-broadband subscriptions per hundred inhabitants	56	39.6
International Internet bandwidth per user	103	32.5
Households with Internet access at home (%)	69	74.5
Skills and employment	116	14.1
Individuals with standard ICT skills (%)	64	15.5
Tertiary graduates from ICT programmes (%)	97	21.9
ICT employment (%)	100	4.9
Usage	118	30.9
Services	114	27.3
Government online services	142	27.7
Fixed broadband Internet traffic per subscription	59	18.2
Mobile broadband Internet traffic per subscription	81	8.3
Internet users (%)	94	55.2
Outcomes	121	34.4
ICT PCT patent applications (per 100 billion GDP)	98	27.2
E-participation	150	15.5
Internet activities by individuals (%)	50	37.5
Trade in digitally deliverable services (% total trade)	31	57.4
ECONOMY	136	38.9
Economic competitiveness	112	43.4
Infrastructure investment	61	52.6
Gross fixed capital formation (% GDP)	7	86.5
Logistics performance	114	36.2
Transport productive capacity	147	7.5
Building quality control	47	80

	Rank	Value
Business agility	139	34.2
Ease of starting a business	128	78
Insolvency recovery rate	43	55.2
Entrepreneurial employee activity rate	77	3.6
Extent of corporate transparency	118	0
Economic openness	131	42.5
Trade and diversification	106	54
Trade (% GDP)	119	16.4
High-technology trade (% total trade)	49	51.8
Product concentration	124	55.8
Market concentration	57	92
Financial openness	136	31.1
Chinn-Ito financial openness	137	16.4
Foreign direct investment, net inflows (% GDP)	130	32
Debt dynamics	109	45
Financing and domestic value added	145	30.8
Financing and taxes	145	32.4
Domestic credit to private sector (% GDP)	107	10.4
MSME financing gap (% GDP)	n/a	n/a
Tax and contribution rate (% profit)	146	40.9
Bank non-performing loans (%)	106	45.9
Domestic value added	131	29.2
Medium- and high-tech activities value added	130	2.9
Industry and services value added (% GDP)	87	59.7
Labour underutilization rate	135	36.6
Output per worker	68	17.4
ENABLING ENVIRONMENT	117	45.2
Governance	128	22.9
Political environment	131	17.9
Peace and stability	125	17.5
Voice and accountability	128	18.4
Quality of institutions	117	27.9
Rule of law	123	21.6
Control of corruption	110	28.4
Government effectiveness	104	33.7
Socio-economic	95	50.9
Gender equity	145	34.9
Female-to-male ratio in parliament	143	8.8
Female-to-male labour force participation	149	18.1
Female-to-male ratio in Internet usage	100	77.7
Social inclusion	72	66.8
Social protection coverage (% population)	n/a	n/a
Adult literacy rate	86	76.1
Youth not in employment, education or training (%)	98	57.6
Standard of living	44	51
Poverty headcount ratio (% population)	7	93
GDP per capita	91	9.1
Health and environment	91	61.8
Health	74	77.9
Universal health coverage	30	78
Healthy life expectancy (years)	60	74.2
Under-five mortality rate	97	81.5
Environmental performance	120	45.8
Renewable energy consumption (%)	149	0.2
Ecological footprint per capita	73	86.1
Natural hazard exposure	101	51

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