



ANGOLA

KEY INDICATORS

GDP US\$ billions	203.708
Population	32,866,268
HDI	0.581

GKI RANK 148/154

GKI SCORE 28.9

WORLD AVERAGE 48.4

COUNTRY PERFORMANCE SUMMARY

Angola is a weak performer in terms of its knowledge infrastructure. It ranks 148th out of 154 countries in the Global Knowledge Index 2021 and 27th out of the 27 countries with medium human development.

AREAS OF STRENGTH

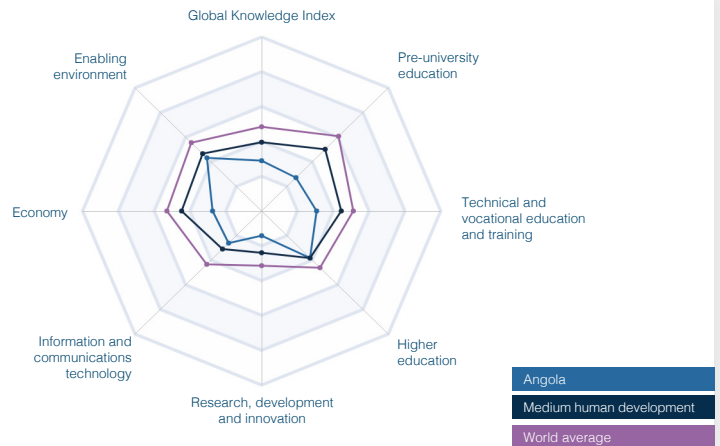
- + Female-to-male labour force participation
- + Youth not in employment, education or training (%)
- + Ecological footprint per capita
- + Printing and publishing output (% manufactured output)
- + Renewable energy consumption (%)

AREAS OF IMPROVEMENT

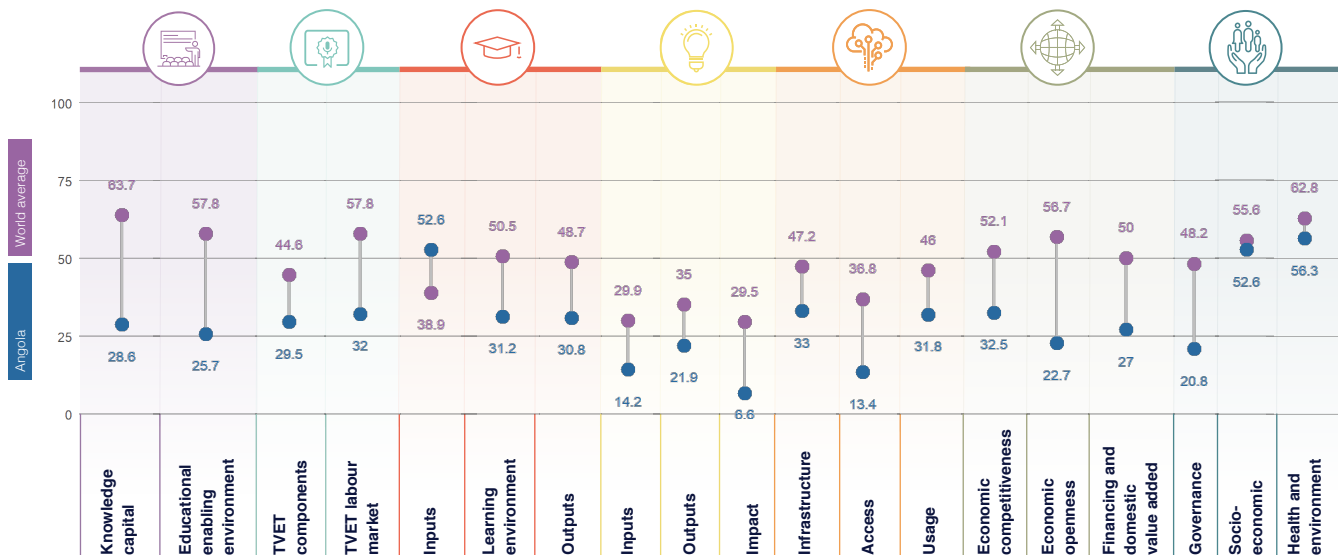
- Gross attendance ratio for tertiary education, location parity
- Intellectual property receipts (% total trade)
- Research institutions prominence
- Extent of corporate transparency
- Foreign direct investment, net inflows (% GDP)

SECTORAL INDICES

	RANK	VALUE
PRE-UNIVERSITY EDUCATION	149	27.1
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	149	30.7
HIGHER EDUCATION	113	38.2
RESEARCH, DEVELOPMENT AND INNOVATION	153	14.2
INFORMATION AND COMMUNICATIONS TECHNOLOGY	122	26.1
ECONOMY	154	27.4
ENABLING ENVIRONMENT	120	43.2



GKI PILLARS





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	Rank	Value		Rank	Value
PRE-UNIVERSITY EDUCATION	149	27.1	HIGHER EDUCATION	113	38.2
Knowledge capital	145	28.6	Inputs	26	52.6
Enrolment	134	44	Expenditure	n/a	n/a
Net enrolment rate in primary education	131	44	Government expenditure per tertiary student	n/a	n/a
Net enrolment rate in lower secondary education	n/a	n/a	Teaching staff compensation (% tertiary expenditure)	n/a	n/a
Net enrolment rate in upper secondary education	n/a	n/a	Enrolment	n/a	n/a
Completion	150	22.7	Enrolment in bachelor's or equivalent level (%)	n/a	n/a
Years of compulsory education in primary and secondary	132	46.2	Enrolment in master's, doctoral or equivalent (%)	n/a	n/a
Completion rate in upper secondary education	118	16.3	Resources	105	52.6
Gross intake ratio to the last grade of lower secondary education	141	5.6	Pupil-teacher ratio in tertiary education	110	54.2
Outcomes	140	19.1	Researchers in higher education (%)	44	51
Assessment of 15-year-old students in math, science and reading	n/a	n/a	Learning environment	129	31.2
Learning-adjusted years of schooling	140	19.1	Diversity and academic freedom	114	37.6
Educational enabling environment	148	25.7	Teachers in tertiary education, gender parity	104	32.7
Expenditure	n/a	n/a	Inbound mobility rate	n/a	n/a
Government expenditure on primary education (% GDP)	n/a	n/a	Academic freedom	115	42.5
Government expenditure on secondary education (% GDP)	n/a	n/a	Equity and inclusiveness	83	24.8
Government funding per primary student (% GDP per capita)	n/a	n/a	Gross attendance ratio for tertiary education, gender parity	61	71.9
Government funding per secondary student (% GDP per capita)	n/a	n/a	Gross attendance ratio for tertiary education, wealth parity	86	2.4
Resources	121	15.5	Gross attendance ratio for tertiary education, location parity	76	0
Pupil-trained teacher ratio in primary education	94	7.4	Outputs	138	30.8
Pupil-trained teacher ratio in secondary education	n/a	n/a	Attainment	96	4.6
Schools with access to computers in primary education (%)	85	7	Educational attainment rate, bachelor's or equivalent	97	4.6
Schools with access to computers in secondary education (%)	84	32	Educational attainment rate, master's or equivalent	n/a	n/a
Early learning	128	33.3	Educational attainment rate, doctorate or equivalent	n/a	n/a
Gross enrolment ratio in early childhood education	85	31.3	Employment	69	73.9
Proportion of children who are developmentally on track	n/a	n/a	Labour force participation rate with advanced education	94	63.4
Proportion of children with stimulating home learning environments	n/a	n/a	Unemployment rate with advanced education	61	84.3
Pupil-trained teacher ratio in pre-primary education	77	35.3	Impact	147	13.9
Equity and inclusiveness	119	28.3	University-industry collaboration in R&D	145	16
Completion rate in upper secondary education, gender parity	116	64.7	Citable documents per R&D personnel in higher education	87	11.9
Completion rate in upper secondary education, wealth parity	111	3.5	RESEARCH, DEVELOPMENT AND INNOVATION	153	14.2
Completion rate in upper secondary education, location parity	114	16.7	Inputs	142	14.2
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	149	30.7	Inputs of R&D institutions	120	11.5
TVET components	135	29.5	GERD (% GDP)	119	0.4
Continuous training and skilling	92	36.9	GERD per researcher	58	23.1
Firms offering formal training (%)	83	27.9	Researchers per thousand labour force	107	0.1
Labour force with short-cycle tertiary education (%)	68	64.2	Researchers in business enterprises (%)	109	22.2
Participation rate in formal and non-formal education and training	44	18.5	Inputs of RDI in business enterprises	n/a	n/a
TVET structure	112	22.5	GERD performed by business enterprises (%)	n/a	n/a
Government expenditure on vocational education (%)	n/a	n/a	GERD financed by business enterprises (%)	n/a	n/a
Share of students enrolled in secondary vocational programmes	57	22.5	Researchers in business enterprises (%)	n/a	n/a
Share of students enrolled in post-secondary vocational programmes	n/a	n/a	Firms that spend on R&D (%)	n/a	n/a
TVET quality and qualifications	147	29.1	Inputs of societal innovation	128	19.7
Extent of staff training	141	32.5	High-skilled employment (%)	66	16.2
Quality of vocational training	138	25.6	Intellectual property payments (% total trade)	62	17.8
Ratio of high-skill TVET occupations earnings to average wage	n/a	n/a	State of cluster development	142	25.1
Ratio of medium-skill TVET occupations earnings to average wage	n/a	n/a	Outputs	128	21.9
TVET labour market	146	32	Outputs of R&D institutions	122	28.3
Efficiency of the labour market	135	43.1	Average documents per researcher	99	36.5
Firms constrained with inadequately educated workforce (%)	83	51.9	Citations per document	148	6
Employment educational mismatch (%)	106	14.2	Patent applications (per 100 billion GDP)	80	42.4
Proportion of skilled production workers	96	40.6	Outputs of RDI in business enterprises	150	8.2
Unemployment rate with vocational education	89	65.8	Intellectual property receipts (% total trade)	117	0
Post-TVET employment	136	18	Industrial design applications (per 100 billion GDP)	n/a	n/a
Share of TVET occupations	118	35	PCT applications (per 100 billion GDP)	133	16.4
Manufacturing employment (%)	153	1	Firms producing new goods and services (%)	n/a	n/a
Equity and inclusiveness	134	34.7			
Enrolment in vocational education, gender parity	104	47.6			
Vulnerable employment rate	133	21.9			



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	Rank	Value
Outputs of societal innovation	83	22.7
Trademark applications (per 100 billion GDP)	101	7.9
Cultural goods exports (% exports)	140	0
Printing and publishing output (% manufactured output)	12	60.3
Impact	150	6.6
Quality	138	9.5
Research institutions prominence	115	0
Growth of innovative companies	133	35.6
ISO 9001 quality certificates (% GDP)	132	1.7
ISO 14001 environmental certificates (% GDP)	145	0.6
Linkages	130	3.8
GERD financed from abroad (%)	n/a	n/a
Joint ventures per strategic alliance deals (% GDP)	110	3.8
Computer software spending (% GDP)	n/a	n/a
Business development	n/a	n/a
New business density per thousand population	n/a	n/a
Firms with new product/service (%)	n/a	n/a
INFORMATION AND COMMUNICATIONS TECHNOLOGY	122	26.1
Infrastructure	118	33
Coverage	138	23
3G/4G mobile network coverage (% population)	132	47.7
Secure Internet servers per 1 million population	135	0.6
Investment in telecommunication services (% GDP)	111	20.8
Quality	105	8.6
Mobile upload and download speeds	58	21.6
Fixed-broadband upload and download speeds	97	3.9
Fixed-broadband subscriptions by speed per hundred people	119	0.3
Affordability	95	67.3
Fixed broadband basket (% GNI per capita)	112	60.6
Mobile broadband basket (% GNI per capita)	113	44.3
Internet and telephony competition	75	97.1
Access	136	13.4
Subscriptions	147	8.4
Active mobile-broadband subscriptions per hundred inhabitants	139	7.8
International Internet bandwidth per user	143	10.9
Households with Internet access at home (%)	143	6.5
Skills and employment	102	18.4
Individuals with standard ICT skills (%)	n/a	n/a
Tertiary graduates from ICT programmes (%)	55	34.2
ICT employment (%)	116	2.6
Usage	115	31.8
Services	127	21.8
Government online services	112	48.8
Fixed broadband Internet traffic per subscription	87	3.9
Mobile broadband Internet traffic per subscription	108	2.1
Internet users (%)	116	32.5
Outcomes	95	41.8
ICT PCT patent applications (per 100 billion GDP)	n/a	n/a
E-participation	113	45.2
Internet activities by individuals (%)	n/a	n/a
Trade in digitally deliverable services (% total trade)	76	38.3
ECONOMY	154	27.4
Economic competitiveness	146	32.5
Infrastructure investment	149	30.2
Gross fixed capital formation (% GDP)	104	42
Logistics performance	144	26.2
Transport productive capacity	135	12.6
Building quality control	142	40

	Rank	Value
Business agility	135	34.8
Ease of starting a business	124	79.4
Insolvency recovery rate	n/a	n/a
Entrepreneurial employee activity rate	39	25
Extent of corporate transparency	118	0
Economic openness	154	22.7
Trade and diversification	153	32.4
Trade (% GDP)	90	24.5
High-technology trade (% total trade)	135	26
Product concentration	152	13.1
Market concentration	141	66
Financial openness	153	12.9
Chinn-Ito financial openness	139	0
Foreign direct investment, net inflows (% GDP)	151	0
Debt dynamics	126	38.8
Financing and domestic value added	153	27
Financing and taxes	152	24.7
Domestic credit to private sector (% GDP)	139	3.5
MSME financing gap (% GDP)	99	37.1
Tax and contribution rate (% profit)	123	58.2
Bank non-performing loans (%)	116	0
Domestic value added	129	29.3
Medium- and high-tech activities value added	127	3.7
Industry and services value added (% GDP)	57	65
Labour underutilization rate	123	42.1
Output per worker	109	6.5
ENABLING ENVIRONMENT	120	43.2
Governance	133	20.8
Political environment	113	26.2
Peace and stability	107	26.9
Voice and accountability	115	25.6
Quality of institutions	139	15.4
Rule of law	133	16.8
Control of corruption	129	18.3
Government effectiveness	144	11.1
Socio-economic	88	52.6
Gender equity	34	76.1
Female-to-male ratio in parliament	55	41.9
Female-to-male labour force participation	7	96.2
Female-to-male ratio in Internet usage	87	90.2
Social inclusion	109	51.7
Social protection coverage (% population)	119	7.9
Adult literacy rate	107	56.3
Youth not in employment, education or training (%)	15	90.9
Standard of living	108	29.9
Poverty headcount ratio (% population)	91	54.8
GDP per capita	107	5
Health and environment	127	56.3
Health	140	37.5
Universal health coverage	141	40
Healthy life expectancy (years)	137	35.5
Under-five mortality rate	139	36.9
Environmental performance	21	75.1
Renewable energy consumption (%)	35	58.9
Ecological footprint per capita	14	97.4
Natural hazard exposure	37	69

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