

GKI SCORE

46.5

WORLD AVERAGE

47.5

# **UKRAINE**

### **KEY INDICATORS**

**GDP** (US\$ billions): **379.893** 

Population: 43,531,422

HDI: 0.773

### COUNTRY PERFORMANCE SUMMARY

Ukraine is a moderate performer in terms of its knowledge infrastructure. It ranks 68th out of 133 countries in the Global Knowledge Index 2023 and 10th out of the 28 countries with high human development.

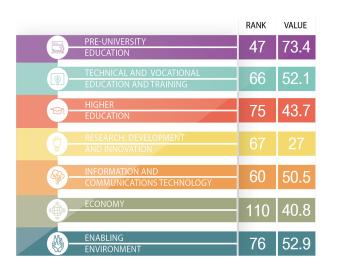
## AREAS OF STRENGTH

- Poverty headcount ratio (% population)
- + Adult literacy rate
- + Computer software spending (% GDP)
- Market concentration
- Government funding per primary student (% GDP per capita)

## AREAS OF IMPROVEMENT

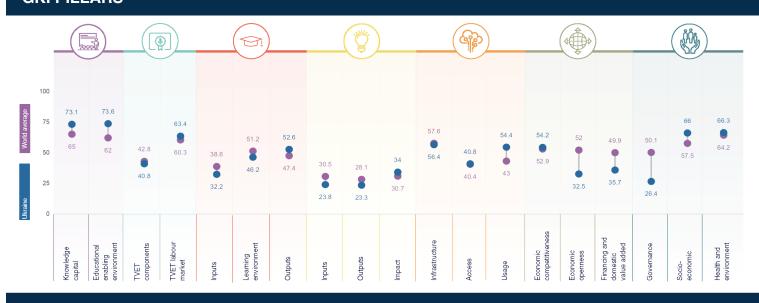
- Gross fixed capital formation (% GDP)
- Chinn-Ito financial openness
- Debt dynamics
- Bank non-performing loans (%)
- Citations per document

#### **SECTORAL INDICES**





#### **GKI PILLARS**



# UKRAINE

-	Rank	Value		Rank	Value
PRE-UNIVERSITY EDUCATION	47	73.4	HIGHER EDUCATION	75	43.7
Knowledge capital	57	73.1	Inputs	96	32.2
Enrolment	97	74.4	Expenditure	92	9.8
Net enrolment rate in primary education	115	63.7	Government expenditure per tertiary student	56	9.8
Net enrolment rate in lower secondary education	89	84.2	Teaching staff compensation (% tertiary expenditure)	n/a	n/a
Net enrolment rate in upper secondary education	76	75.3	Enrolment	47	31.8
Completion	26	80.4	Enrolment in bachelor's or equivalent level (%)	56	27.7
Years of compulsory education in primary and secondary	30	84.6	Enrolment in master's, doctoral or equivalent (%)	45	35.9
Completion rate in upper secondary education	7	96.7	Resources	87	55
Gross intake ratio to the last grade of lower secondary education	78	59.9	Pupil-teacher ratio in tertiary education	12	91.2
Outcomes	42	64.6	Researchers in higher education (%)	96	18.9
Assessment of 15-year-old students in math, science and reading	38	57.8	Learning environment	80	46.2
Learning-adjusted years of schooling	39	71.3	Diversity and academic freedom	111	31.9
Educational enabling environment	39	73.6	Teachers in tertiary education, gender parity	92	38.8
Expenditure	23	47	Inbound mobility rate	48	17.2
Government expenditure on primary education (% GDP)	71	29.1	Academic freedom	101	39.6
Government expenditure on secondary education (% GDP)	51	33.6	Equity and inclusiveness	13	60.6
Government funding per primary student (% GDP per capita)	6	74.6	Gross attendance ratio for tertiary education, gender parity	15 7	91.7
Government funding per secondary student (% GDP per capita)	15	50.5	Gross attendance ratio for tertiary education, wealth parity		35.1
Resources	33	96.7	Gross attendance ratio for tertiary education, location parity	13	55.1
Pupil-trained teacher ratio in primary education	27	89.5	Outputs	52	52.6
Pupil-trained teacher ratio in secondary education	5	98.4	Attainment	n/a	n/a
Schools with access to computers in primary education (%)	36	98.9	Educational attainment rate, bachelor's or equivalent	n/a	n/a
Schools with access to computers in secondary education (%)	44	99.9	Educational attainment rate, master's or equivalent	n/a	n/a
Early learning	74	58.9	Educational attainment rate, doctoral or equivalent	n/a	n/a
Gross enrolment ratio in early childhood education	48	58.9	Employment	112	63.9
Proportion of children who are developmentally on track	n/a	n/a	Labour force participation rate with advanced education	116	57.7 70.1
Proportion of children with stimulating home learning environments	n/a	n/a	Unemployment rate with advanced education	98 53	
Pupil-trained teacher ratio in pre-primary education	n/a	n/a	Impact  Linkersity industry collaboration in DSD		41.2
Equity and inclusiveness	33	91.8	University-industry collaboration in R&D  Citable documents per R&D personnel in higher education	66 18	36
Completion rate in upper secondary education, gender parity	24	97.2			
Completion rate in upper secondary education, wealth parity	9	85.4	RESEARCH, DEVELOPMENT AND INNOVATION		27
Completion rate in upper secondary education, location parity	28	93	Inputs	84	23.8
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	66	52.1	Inputs of R&D institutions	83	21.6
TVET components	69	40.8	GERD (% GDP) GERD per researcher	76 90	5.3
Continuous training and skilling	98	29.2	Researchers per thousand labour force	55	11.4
Firms offering formal training (%)	68	29.2	Tertiary graduates from STEM programmes (%)	39	63.8
Labour force participation rate with short-cycle tertiary education	n/a	n/a	Inputs of RDI in business enterprises	66	23.5
Participation rate in formal and non-formal education and training	n/a	n/a	GERD performed by business enterprises (%)	47	6.3
TVET structure	38	55	GERD financed by business enterprises (%)	56	37.7
Government expenditure on vocational education (%)	n/a	n/a	Researchers in business enterprises (%)	43	33
Share of students enrolled in secondary vocational programmes	82	10	Firms that spend on R&D (%)	71	16.9
Share of students enrolled in post-secondary vocational programmes	1	100	Inputs of societal innovation	81	28.4
TVET quality and qualifications	101	38.3	High-skilled employment (%)	n/a 68	n/a 9.5
Extent of staff training	61	59	Intellectual property payments (% total trade)  State of cluster development	70	47.4
Quality of vocational training	45	58.8	Outputs	82	23.3
Ratio of high-skill TVET occupations earnings to average wage	104	8.3	Outputs of R&D institutions	100	
Ratio of medium-skill TVET occupations earnings to average wage	70	27.2	Average documents per researcher	60	18.6
TVET labour market	66	63.4	Citations per document	132	1.6
Efficiency of the labour market	103	60.3	Resident patent applications (per 100 billion GDP)	31	59.6
Firms constrained with inadequately educated workforce (%)	94	24.2	Outputs of RDI in business enterprises	43	21.9
Employment educational mismatch (%)	n/a	n/a	Intellectual property receipts (% total trade)	54	2.8
Proportion of skilled production workers	10	83	Industrial design applications (per 100 billion GDP)	19	36.9
Unemployment rate with vocational education	93	73.8	PCT applications (per 100 billion GDP)	47	5.1
Post-TVET employment	43	54.6	Firms producing new products and services (%)	58	43
Share of TVET occupations	53	60.4	Outputs of societal innovation  Trademark applications (per 100 billion GDP)	68 30	18.2 38.9
Manufacturing employment (%)	43	48.8	Cultural goods exports (% exports)	81	2.8
Equity and inclusiveness	62	75.3	Printing and publishing output (% manufactured output)	67	12.9
Enrolment in vocational education, gender parity	84	65.4	Impact	48	34
Vulnerable employment rate	50	85.3	Quality	68	31.6
			Research institutions prominence	38	61.2
			Growth of innovative companies	56	49.3
			ISO 9001 quality certificates (per billion GDP)	68	9.7
			ISO 14001 environmental certificates (per billion GDP)	78	6.2
			Linkages	20	36.5
			GERD financed from abroad (%)	19	41.3
			Joint ventures per strategic alliance deals (per billion GDP)  Computer software spending (% GDP)	102	2.4 65.7
			Business development	88	33.9
			New business density per thousand population	66	6.8
			Firms with products and services new to the market (%)	74	61.1

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<del></del>	Rank	Value
INFORMATION AND COMMUNICATIONS TECHNOLOGY	60	50.5
Infrastructure	70	56.4
Coverage	81	58.9
3G/4G mobile network coverage (% population)	92	89.6
Secure Internet servers per 1 million population	44	72.6
Investment in telecommunication services (% GDP)	114	14.4
Quality	69	22
Mobile upload and download speeds	68	9.5
Fixed-broadband upload and download speeds	44	20.4
Fixed-broadband subscriptions by speed per hundred people  Affordability	64 74	36.2 88.3
Fixed broadband basket (% GNI per capita)	58	87.4
Mobile broadband basket (% GNI per capita)	80	90
Internet and telephony competition	95	87.5
Access	67	40.8
Subscriptions	78	54.8
Active mobile-broadband subscriptions per hundred inhabitants	85	32.5
International Internet bandwidth per user	71	49.4
Households with Internet access at home (%)	69	82.5
Skills and employment	69	26.8
Individuals with standard ICT skills (%)	67	14.9
Tertiary graduates from ICT programmes (%)	26	42.1
ICT employment (%)	45	23.5
Usage	34	54.4
Services	6	79.7
Government online services	32	81.5
Fixed broadband Internet traffic per subscription	n/a	n/a
Mobile broadband Internet traffic per subscription	n/a	n/a
Internet users (%)	69	77.9
Outcomes	78	29.1
ICT PCT patent applications (per 100 billion GDP)	45	4.5
E-participation E-participation	55	60.2
Internet activities by individuals (%)  Trade in digitally deliverable services (% total trade)	62	22.6
Trade in digitally deliverable services (% total trade)	80	29
Trade in digitally deliverable services (% total trade)  ECONOMY	80 110	29 40.8
Trade in digitally deliverable services (% total trade)	80 110 60	29 40.8 54.2
Trade in digitally deliverable services (% total trade)  ECONOMY  Economic competitiveness  Infrastructure investment	80 110	29 40.8
Trade in digitally deliverable services (% total trade)  ECONOMY  Economic competitiveness	80 110 60 100	29 40.8 54.2 41.4
Trade in digitally deliverable services (% total trade)  ECONOMY  Economic competitiveness  Infrastructure investment  Gross fixed capital formation (% GDP)	80 110 60 100 128	29 40.8 54.2 41.4 0
Trade in digitally deliverable services (% total trade)  ECONOMY  Economic competitiveness  Infrastructure investment  Gross fixed capital formation (% GDP)  Logistics performance	80 110 60 100 128 79	29 40.8 54.2 41.4 0 42.5
Trade in digitally deliverable services (% total trade)  ECONOMY  Economic competitiveness  Infrastructure investment  Gross fixed capital formation (% GDP)  Logistics performance  Transport productive capacity	80 110 60 100 128 79 69	29 40.8 54.2 41.4 0 42.5 43.1
Trade in digitally deliverable services (% total trade)  ECONOMY  Economic competitiveness  Infrastructure investment  Gross fixed capital formation (% GDP)  Logistics performance  Transport productive capacity  Building quality control	80 110 60 100 128 79 69 45	29 40.8 54.2 41.4 0 42.5 43.1 80
Trade in digitally deliverable services (% total trade)  ECONOMY  Economic competitiveness  Infrastructure investment  Gross fixed capital formation (% GDP)  Logistics performance  Transport productive capacity  Building quality control  Business agility	80 110 60 100 128 79 69 45 42	29 40.8 54.2 41.4 0 42.5 43.1 80 67
ECONOMY  Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business	80 110 60 100 128 79 69 45 42 53	29 40.8 54.2 41.4 0 42.5 43.1 80 67 91.1
ECONOMY  Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency	80 110 60 100 128 79 69 45 42 53 123 n/a 1	29 40.8 54.2 41.4 0 42.5 43.1 80 67 91.1 9.8 n/a
ECONOMY  Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency  Economic openness	80 110 60 100 128 79 69 45 42 53 123 n/a 1 122	29 40.8 54.2 41.4 0 42.5 43.1 80 67 91.1 9.8 n/a 100 32.5
ECONOMY  Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity 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	80 110 60 100 128 79 69 45 42 53 123 n/a 1 122	29 40.8 54.2 41.4 0 42.5 43.1 80 67 91.1 9.8 n/a 100 32.5 53.9
ECONOMY  Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity 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)	80 110 60 100 128 79 69 45 42 53 123 n/a 1 122 45 65	29 40.8 54.2 41.4 0 42.5 43.1 80 67 91.1 9.8 n/a 100 32.5 53.9 17.3
ECONOMY  Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity 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)	80 110 60 100 128 79 69 45 42 53 123 n/a 1 122 45 65 68	29 40.8 54.2 41.4 0 42.5 43.1 80 67 91.1 9.8 n/a 100 32.5 53.9 17.3 21
ECONOMY  Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity 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	80 110 60 100 128 79 69 45 42 53 1/a 1 122 45 66 68 44	29 40.8 54.2 41.4 0 42.5 43.1 80 67 91.1 9.8 n/a 100 32.5 53.9 17.3 21 81.3
ECONOMY  Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity 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	80 110 60 100 128 79 69 45 42 53 1/a 1 122 45 66 68 44 5	29 40.8 54.2 41.4 0 42.5 43.1 80 67 91.1 9.8 n/a 100 32.5 53.9 17.3 21 81.3 96.1
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ECONOMY  Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity 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 Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP)	80 110 60 100 128 79 69 45 42 53 1/a 1 122 45 66 68 44 5 133 124 87	29 40.8 54.2 41.4 0 42.5 43.1 80 67 91.1 9.8 n/a 100 32.5 53.9 17.3 21 81.3 96.1 11.1 0 33.4
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ECONOMY  ECONOMY  ECONOMIC competitiveness Infrastructure investment  Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity 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)	80 110 60 100 128 79 69 45 42 53 1/a 1 122 45 66 68 44 5 133 124 87 120 118 132 106 86	29 40.8 54.2 41.4 0 42.5 43.1 80 67 91.1 9.8 n/a 100 32.5 53.9 17.3 21 81.3 96.1 11.1 0 33.4 0 35.7 30.2 6.4 52.1
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ECONOMY  Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity 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) Bank non-performing loans (%)	80 110 60 100 128 79 46 42 53 123 n/a 1 122 45 66 68 44 5 133 124 87 120 118 132 106 86 95 108	29 40.8 54.2 41.4 0 42.5 43.1 80 67 91.1 9.8 n/a 100 32.5 53.9 17.3 21 81.3 96.1 11.1 0 33.4 0 35.7 30.2 6.4 52.1 62.2 0
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	Rank	Value
ENABLING ENVIRONMENT	76	52.9
Governance	107	26.4
Political environment	107	25.8
Peace and stability	130	5.7
Voice and accountability	71	45.9
Quality of institutions	106	27
Rule of law	97	29.2
Control of corruption	97	33
Government effectiveness	115	18.9
Socio-economic	43	66
Gender equity	82	65.1
Female-to-male ratio in parliament	91	25.7
Female-to-male labour force participation	75	76
Female-to-male ratio in Internet usage	82	93.7
Social inclusion	45	78.6
Social protection coverage (% population)	44	72.2
Adult literacy rate	1	100
Youth not in employment, education or training (%)	59	63.6
Standard of living	29	54.4
Poverty headcount ratio (% population)	1	100
GDP per capita	87	8.7
Health and environment	58	66.3
Health	69	79.5
Universal health coverage	57	75.5
Healthy life expectancy (years)	79	68.4
Under-five mortality rate	55	94.5
Environmental performance	64	53.1
Renewable energy consumption (%)	110	9.1
Ecological footprint per capita	66	81.2
Natural hazard exposure	36	69

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