UKRAINE

GII 2020 rank

45

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP$	GDP per capita, PPP$	GII 2019 rank
37	**71**	**Lower middle**	**EUR**	**44.0**	**409.3**	**8,533.5**	**47**

		Score/Value	Rank	
	INSTITUTIONS	**55.6**	**93**	
1.1	**Political environment**	**44.5**	**105**	○
1.1.1	Political and operational stability*	51.8	123	○ ◇
1.1.2	Government effectiveness*	40.9	93	
1.2	**Regulatory environment**	**61.0**	**76**	
1.2.1	Regulatory quality*	36.0	88	
1.2.2	Rule of law*	28.0	109	○
1.2.3	Cost of redundancy dismissal, salary weeks	13.0	41	
1.3	**Business environment**	**61.2**	**104**	○
1.3.1	Ease of starting a business*	91.1	52	
1.3.2	Ease of resolving insolvency*	31.4	117	○
	HUMAN CAPITAL & RESEARCH	**40.5**	**39**	◆
2.1	**Education**	**56.9**	**23**	◆
2.1.1	Expenditure on education, % GDP ⊙	5.4	26	
2.1.2	Government funding/pupil, secondary, % GDP/cap	30.3	12	● ◆
2.1.3	School life expectancy, years ⊙	14.9	54	◆
2.1.4	PISA scales in reading, maths, & science	462.7	40	◆
2.1.5	Pupil-teacher ratio, secondary	7.3	3	● ◆
2.2	**Tertiary education**	**43.9**	**32**	◆
2.2.1	Tertiary enrolment, % gross ⊙	82.7	14	● ◆
2.2.2	Graduates in science & engineering, %	25.3	35	
2.2.3	Tertiary inbound mobility, %	3.1	65	
2.3	**Research & development (R&D)**	**20.5**	**44**	◆
2.3.1	Researchers, FTE/mn pop.	988.1	52	◆
2.3.2	Gross expenditure on R&D, % GDP	0.5	69	
2.3.3	Global R&D companies, avg. exp. top 3, mn $US	39.8	38	◆
2.3.4	QS university ranking, average score top 3*	21.2	49	◆
	INFRASTRUCTURE	**33.1**	**94**	
3.1	**Information & communication technologies (ICTs)**	**58.8**	**82**	
3.1.1	ICT access*	65.9	65	◆
3.1.2	ICT use*	43.7	89	
3.1.3	Government's online service*	56.9	93	
3.1.4	E-participation*	68.5	74	
3.2	**General infrastructure**	**20.2**	**95**	
3.2.1	Electricity output, kWh/mn pop.	3,445.5	58	◆
3.2.2	Logistics performance*	35.7	65	
3.2.3	Gross capital formation, % GDP	19.3	102	○
3.3	**Ecological sustainability**	**20.2**	**99**	
3.3.1	GDP/unit of energy use	3.7	117	○ ◇
3.3.2	Environmental performance*	49.5	57	◆
3.3.3	ISO 14001 environmental certificates/bn PPP$ GDP	0.7	68	
	MARKET SOPHISTICATION	**42.1**	**99**	
4.1	**Credit**	**35.3**	**86**	
4.1.1	Ease of getting credit*	75.0	34	
4.1.2	Domestic credit to private sector, % GDP	34.1	88	
4.1.3	Microfinance gross loans, % GDP ⊙	0.0	78	○
4.2	**Investment**	**23.8**	**121**	○
4.2.1	Ease of protecting minority investors*	68.0	44	
4.2.2	Market capitalization, % GDP	4.0	71	○
4.2.3	Venture capital deals/bn PPP$ GDP	0.0	64	○
4.3	**Trade, competition, and market scale**	**67.2**	**45**	
4.3.1	Applied tariff rate, weighted avg., %	1.6	18	● ◆
4.3.2	Intensity of local competition†	64.4	83	
4.3.3	Domestic market scale, bn PPP$	409.3	48	

		Score/Value	Rank	
	BUSINESS SOPHISTICATION	**29.5**	**54**	◆
5.1	**Knowledge workers**	**39.0**	**47**	◆
5.1.1	Knowledge-intensive employment, %	37.7	32	◆
5.1.2	Firms offering formal training, %	24.3	63	
5.1.3	GERD performed by business, % GDP	0.3	48	◆
5.1.4	GERD financed by business, %	30.5	58	
5.1.5	Females employed w/advanced degrees, %	30.4	3	● ◆
5.2	**Innovation linkages**	**18.8**	**81**	
5.2.1	University/industry research collaboration†	45.5	50	
5.2.2	State of cluster development†	40.9	91	
5.2.3	GERD financed by abroad, % GDP	0.1	36	
5.2.4	JV-strategic alliance deals/bn PPP$ GDP	0.0	113	○
5.2.5	Patent families 2+ offices/bn PPP$ GDP	0.1	52	◆
5.3	**Knowledge absorption**	**30.6**	**59**	
5.3.1	Intellectual property payments, % total trade	0.8	48	
5.3.2	High-tech imports, % total trade	9.9	33	
5.3.3	ICT services imports, % total trade	1.0	74	
5.3.4	FDI net inflows, % GDP	2.7	63	
5.3.5	Research talent, % in business enterprise	27.3	47	
	KNOWLEDGE & TECHNOLOGY OUTPUTS	**35.1**	**25**	◆
6.1	**Knowledge creation**	**41.6**	**23**	◆
6.1.1	Patents by origin/bn PPP$ GDP	5.4	20	◆
6.1.2	PCT patents by origin/bn PPP$ GDP	0.5	36	◆
6.1.3	Utility models by origin/bn PPP$ GDP	23.0	1	● ◆
6.1.4	Scientific & technical articles/bn PPP$ GDP	9.5	55	
6.1.5	Citable documents H-index	16.8	50	
6.2	**Knowledge impact**	**28.7**	**45**	◆
6.2.1	Growth rate of PPP$ GDP/worker, %	2.4	39	
6.2.2	New businesses/th pop. 15-64 ⊙	1.7	61	
6.2.3	Computer software spending, % GDP	0.0	19	◆
6.2.4	ISO 9001 quality certificates/bn PPP$ GDP	4.5	58	◆
6.2.5	High- and medium-high-tech manufacturing, %	16.8	61	
6.3	**Knowledge diffusion**	**35.0**	**32**	◆
6.3.1	Intellectual property receipts, % total trade	0.1	46	
6.3.2	High-tech net exports, % total trade	1.9	56	
6.3.3	ICT services exports, % total trade	5.4	9	● ◆
6.3.4	FDI net outflows, % GDP	0.2	96	
	CREATIVE OUTPUTS	**29.9**	**44**	◆
7.1	**Intangible assets**	**42.8**	**23**	◆
7.1.1	Trademarks by origin/bn PPP$ GDP	131.1	5	● ◆
7.1.2	Global brand value, top 5,000, % GDP	1.3	79	
7.1.3	Industrial designs by origin/bn PPP$ GDP	13.5	8	● ◆
7.1.4	ICTs & organizational model creation†	55.6	58	
7.2	**Creative goods and services**	**6.6**	**95**	
7.2.1	Cultural & creative services exports, % total trade	0.5	48	
7.2.2	National feature films/mn pop. 15-69	0.6	99	○
7.2.3	Entertainment & Media market/th pop. 15-69	n/a	n/a	
7.2.4	Printing and other media, % manufacturing	0.8	70	
7.2.5	Creative goods exports, % total trade	0.2	80	
7.3	**Online creativity**	**27.3**	**39**	◆
7.3.1	Generic top-level domains (TLDs)/th pop. 15-69	4.5	56	◆
7.3.2	Country-code TLDs/th pop. 15-69	5.1	54	◆
7.3.3	Wikipedia edits/mn pop. 15-69	67.7	43	◆
7.3.4	Mobile app creation/bn PPP$ GDP	33.8	15	● ◆

NOTES: ● indicates a strength; ○ a weakness; ◆ an income group strength; ◇ an income group weakness; * an index; † a survey question. ⊙ indicates that the economy's data are