LITHUANIA

GII 2019 rank

38

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP$	GDP per capita, PPP$	GII 2018 rank
40	38	High	EUR	2.9	96.9	34,825.8	40

		Score/Value	Rank	
	INSTITUTIONS	**76.0**	**33**	
1.1	**Political environment**	**75.5**	**32**	
1.1.1	Political and operational stability*	86.0	21	●
1.1.2	Government effectiveness*	70.3	32	
1.2	**Regulatory environment**	**82.6**	**25**	
1.2.1	Regulatory quality*	73.0	27	
1.2.2	Rule of law*	72.6	31	
1.2.3	Cost of redundancy dismissal, salary weeks	13.0	42	
1.3	**Business environment**	**70.0**	**66**	
1.3.1	Ease of starting a business*	93.2	28	
1.3.2	Ease of resolving insolvency*	46.9	77	◇
	HUMAN CAPITAL & RESEARCH	**36.3**	**47**	
2.1	**Education**	**51.7**	**53**	
2.1.1	Expenditure on education, % GDP	4.2	72	
2.1.2	Government funding/pupil, secondary, % GDP/cap	17.1	70	○
2.1.3	School life expectancy, years	16.5	22	●
2.1.4	PISA scales in reading, maths, & science	475.4	35	
2.1.5	Pupil-teacher ratio, secondary ⊙	7.7	7	● ◆
2.2	**Tertiary education**	**38.4**	**41**	
2.2.1	Tertiary enrolment, % gross ⊙	71.1	27	
2.2.2	Graduates in science & engineering, %	23.8	35	
2.2.3	Tertiary inbound mobility, %	4.1	53	
2.3	**Research & development (R&D)**	**18.9**	**46**	
2.3.1	Researchers, FTE/mn pop.	3,013.2	29	
2.3.2	Gross expenditure on R&D, % GDP	0.9	39	
2.3.3	Global R&D companies, avg. exp. top 3, mn US$	0.0	43	○ ◇
2.3.4	QS university ranking, average score top 3*	19.8	52	
	INFRASTRUCTURE	**51.7**	**44**	
3.1	**Information & communication technologies(ICTs)**	**75.4**	**43**	
3.1.1	ICT access*	73.7	54	◇
3.1.2	ICT use*	67.8	39	
3.1.3	Government's online service*	79.9	45	
3.1.4	E-participation*	80.3	51	
3.2	**General infrastructure**	**25.8**	**97**	○ ◇
3.2.1	Electricity output, kWh/mn pop.	1,280.8	90	○ ◇
3.2.2	Logistics performance*	44.6	53	◇
3.2.3	Gross capital formation, % GDP	18.3	101	○ ◇
3.3	**Ecological sustainability**	**53.7**	**14**	●
3.3.1	GDP/unit of energy use	10.5	45	
3.3.2	Environmental performance*	69.3	28	
3.3.3	ISO 14001 environmental certificates/bn PPP$ GDP	8.5	10	● ◆
	MARKET SOPHISTICATION	**50.9**	**51**	
4.1	**Credit**	**44.0**	**47**	
4.1.1	Ease of getting credit*	70.0	40	
4.1.2	Domestic credit to private sector, % GDP	41.4	80	◇
4.1.3	Microfinance gross loans, % GDP	n/a	n/a	
4.2	**Investment**	**45.3**	**55**	
4.2.1	Ease of protecting minority investors*	66.7	35	
4.2.2	Market capitalization, % GDP	n/a	n/a	
4.2.3	Venture capital deals/bn PPP$ GDP	0.0	55	○
4.3	**Trade, competition, & market scale**	**63.4**	**57**	
4.3.1	Applied tariff rate, weighted avg., %	1.8	23	
4.3.2	Intensity of local competition†	75.1	26	
4.3.3	Domestic market scale, bn PPP$	96.9	77	

		Score/Value	Rank	
	BUSINESS SOPHISTICATION	**38.0**	**39**	
5.1	**Knowledge workers**	**56.2**	**29**	
5.1.1	Knowledge-intensive employment, %	41.8	24	
5.1.2	Firms offering formal training, % firms	42.0	31	
5.1.3	GERD performed by business, % GDP	0.3	47	
5.1.4	GERD financed by business, %	39.0	47	
5.1.5	Females employed w/advanced degrees, %	27.9	4	● ◆
5.2	**Innovation linkages**	**29.2**	**51**	
5.2.1	University/industry research collaboration†	51.4	37	
5.2.2	State of cluster development†	41.3	90	○ ◇
5.2.3	GERD financed by abroad, %	19.2	19	●
5.2.4	JV–strategic alliance deals/bn PPP$ GDP	0.0	39	
5.2.5	Patent families 2+ offices/bn PPP$ GDP	0.3	37	
5.3	**Knowledge absorption**	**28.6**	**89**	○ ◇
5.3.1	Intellectual property payments, % total trade	0.2	90	○ ◇
5.3.2	High-tech imports, % total trade	6.5	85	○
5.3.3	ICT services imports, % total trade	0.8	84	○
5.3.4	FDI net inflows, % GDP	2.4	73	
5.3.5	Research talent, % in business enterprise	29.0	43	
	KNOWLEDGE & TECHNOLOGY OUTPUTS	**24.4**	**55**	
6.1	**Knowledge creation**	**16.7**	**53**	
6.1.1	Patents by origin/bn PPP$ GDP	1.1	59	
6.1.2	PCT patents by origin/bn PPP$ GDP	0.4	39	
6.1.3	Utility models by origin/bn PPP$ GDP	n/a	n/a	
6.1.4	Scientific & technical articles/bn PPP$ GDP	17.2	29	
6.1.5	Citable documents H-index	11.3	58	
6.2	**Knowledge impact**	**36.9**	**61**	
6.2.1	Growth rate of PPP$ GDP/worker, %	2.5	34	◆
6.2.2	New businesses/th pop. 15–64	3.3	38	
6.2.3	Computer software spending, % GDP	0.1	97	○ ◇
6.2.4	ISO 9001 quality certificates/bn PPP$ GDP	14.1	25	
6.2.5	High- & medium-high-tech manufactures, %	0.2	59	
6.3	**Knowledge diffusion**	**19.6**	**50**	
6.3.1	Intellectual property receipts, % total trade	0.1	60	
6.3.2	High-tech net exports, % total trade	5.9	26	
6.3.3	ICT services exports, % total trade ⊙	1.0	81	
6.3.4	FDI net outflows, % GDP	1.2	50	
	CREATIVE OUTPUTS	**40.3**	**30**	
7.1	**Intangible assets**	**48.4**	**42**	
7.1.1	Trademarks by origin/bn PPP$ GDP	53.7	44	
7.1.2	Industrial designs by origin/bn PPP$ GDP	3.5	36	
7.1.3	ICTs & business model creation†	69.8	31	
7.1.4	ICTs & organizational model creation†	68.4	21	●
7.2	**Creative goods & services**	**20.8**	**56**	
7.2.1	Cultural & creative services exports, % total trade	0.6	43	
7.2.2	National feature films/mn pop. 15–69	5.5	40	
7.2.3	Entertainment & Media market/th pop. 15–69	n/a	n/a	
7.2.4	Printing & other media, % manufacturing	1.2	49	
7.2.5	Creative goods exports, % total trade	2.0	29	
7.3	**Online creativity**	**43.5**	**15**	●
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69	13.1	34	
7.3.2	Country-code TLDs/th pop. 15–69	26.3	22	●
7.3.3	Wikipedia edits/mn pop. 15–69	54.3	19	●
7.3.4	Mobile app creation/bn PPP$ GDP	98.0	4	● ◆

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 older than the base year; see Appendix II for details, including the year of the data, at http://globalinnovationindex.org. Square brackets [ ] indicate that the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level.