Lithuania is a **Moderate Innovator**. Over time, performance has increased relative to that of the EU in 2010.
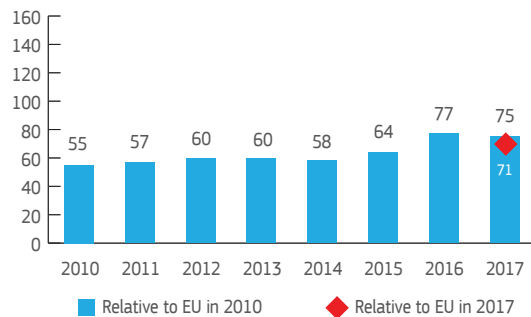

Legend: ■ Relative to EU in 2010 ◆ Relative to EU in 2017

Innovation-friendly environment and Linkages are the strongest innovation dimensions. Attractive research systems and Sales impacts are the weakest innovation dimensions.
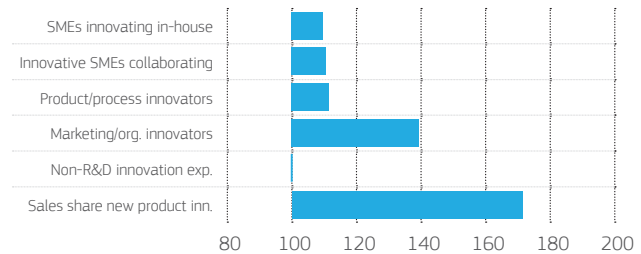
Lithuania	Performance relative to EU 2010 in		Relative to EU 2017 in
	2010	*2017*	*2017*
SUMMARY INNOVATION INDEX	**55.1**	**75.3**	**71.1**
Human resources	**106.9**	**115.5**	**96.8**
New doctorate graduates	61.5	51.1	36.7
Population with tertiary education	214.9	237.3	209.2
Lifelong learning	34.4	50.0	49.0
Attractive research systems	**32.0**	**39.5**	**34.8**
International scientific co-publications	48.2	139.6	85.8
Most cited publications	47.9	29.8	28.7
Foreign doctorate students	3.8	18.8	17.0
Innovation-friendly environment	**103.3**	**164.5**	**123.0**
Broadband penetration	177.8	311.1	175.0
Opportunity-driven entrepreneurship	59.2	77.6	72.1
Finance and support	**47.8**	**64.0**	**59.4**
R&D expenditure in the public sector	82.3	69.9	72.5
Venture capital expenditures	3.5	56.4	46.2
Firm investments	**48.9**	**104.2**	**93.2**
R&D expenditure in the business sector	13.5	22.2	20.0
Non-R&D innovation expenditures	109.1	280.8	256.8
Enterprises providing ICT training	35.7	42.9	37.5
Innovators	**43.5**	**79.7**	**92.6**
SMEs product/process innovations	43.2	93.8	114.7
SMEs marketing/organisational innovations	37.0	45.9	55.4
SMEs innovating in-house	50.5	100.7	107.9
Linkages	**83.4**	**103.0**	**102.0**
Innovative SMEs collaborating with others	68.5	140.3	139.6
Public-private co-publications	46.3	31.0	30.7
Private co-funding of public R&D exp.	139.2	144.0	142.0
Intellectual assets	**25.7**	**51.5**	**51.0**
PCT patent applications	14.8	21.8	22.8
Trademark applications	56.1	107.5	95.1
Design applications	13.0	37.2	38.5
Employment impacts	**62.2**	**39.6**	**39.3**
Employment in knowledge-intensive activities	31.2	51.9	47.1
Employment fast-growing enterprises	84.4	30.7	32.8
Sales impacts	**31.9**	**36.6**	**35.1**
Medium and high tech product exports	36.0	49.6	46.8
Knowledge-intensive services exports	0.3	8.7	8.3
Sales of new-to-market/firm innovations	63.7	53.7	53.1

Dark green: normalised performance above 120% of EU; light green: normalised performance between 90% and 120% of EU; yellow: normalised performance between 50% and 90% of EU; orange: normalised performance below 50% of EU. Normalised performance uses the data after a possible imputation of missing data and transformation of the data.

Data in red show a decline in performance compared to 2010.

Provisional CIS 2016 data show improved performance for five indicators and slightly reduced performance for one indicator.

Provisional CIS 2016 vs CIS 2014 (=100)

Structural differences with the EU are shown in the table below. The turnover share of SMEs is well above the EU average. GDP per capita, the employment share in high and medium high-tech manufacturing, the employment share in knowledge-intensive services, and the turnover share of large enterprises are well below the EU average.

	LT	EU
Performance and structure of the economy		
GDP per capita (PPS)	21,500	28,600
Average annual GDP growth (%)	3.1	2.2
Employment share Manufacturing (NACE C) (%)	15.3	15.5
of which High and Medium high-tech (%)	13.3	37.2
Employment share Services (NACE G-N) (%)	39.5	41.6
of which Knowledge-intensive services (%)	23.7	35.0
Turnover share SMEs (%)	48.7	38.0
Turnover share large enterprises (%)	33.3	44.4
Foreign-controlled enterprises – share of value added (%)	11.9	12.5
Business and entrepreneurship		
Enterprise births (10+ employees) (%)	2.3	1.5
Total Entrepreneurial Activity (TEA) (%)	n/a	6.6
FDI net inflows (% GDP)	1.9	3.6
Top R&D spending enterprises per 10 mln population	0.0	19.7
Buyer sophistication (1 to 7 best)	3.2	3.7
Governance and policy framework		
Ease of starting a business (0 to 100 best)	78.3	76.9
Basic-school entrepren. education and training (1 to 5 best)	n/a	1.9
Govt. procurement of advanced tech products (1 to 7 best)	3.0	3.5
Rule of law (-2.5 to 2.5 best)	1.0	1.2
Demography		
Population size (millions)	2.9	510.1
Average annual population growth (%)	-1.3	0.3
Population density (inhabitants/km²)	46.3	117.1

EU targets for 2020

Indicator	2013	Latest	Target[1]
Gross domestic expenditure on R&D (% of GDP)	0.95	0.85	1.90
Tertiary educational attainment (% of population aged 30-34)	51.3	58.2	48.7

1 Sources are provided in the introduction to the country profiles.

RIO country report:
https://rio.jrc.ec.europa.eu/en/country-analysis/Lithuania
European Semester country report:
https://ec.europa.eu/info/sites/info/files/2018-european-semester-country-report-lithuania-en.pdf