

Luxembourg is a **Strong Innovator**. Over time, performance has increased by 1.4% relative to that of the EU in 2010.

Innovation system

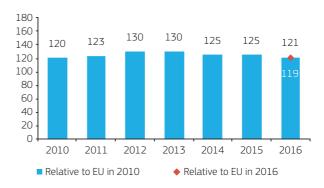
Relative strengths of the innovation system are in Attractive research systems, Innovation-friendly environment, and Intellectual assets. Relative weaknesses are in Linkages, Finance and support, and Sales impacts.

Structural differences

Notable differences are a smaller share of employment in Agriculture & Mining, in Manufacturing and in High and Medium high-tech manufacturing, a larger share of employment in Knowledge-intensive services and in Public administration, a larger share of SMEs in turnover, a smaller share of large enterprises in turnover, a larger share of foreign controlled enterprises, a higher number of Top R&D spending enterprises but a lower average R&D spending of these enterprises, a smaller share of enterprise births, higher buyer sophistication, higher GDP per capita, a higher growth rate of GDP, a higher growth rate of population, and higher population density.

	LU	EU
Structure of the economy		
Composition of employment, average 2011-15		
- Agriculture & Mining (NACE A-B) (%)	1.3	5.1
- Manufacturing (NACE C) (%)	5.4	15.6
of which High and Medium high-tech (%)	17.9	36.4
- Utilities and Construction (NACE D-F) (%)	6.9	8.6
- Services (NACE G-N) (%)	68.3	63.6
of which Knowledge-intensive services (%)	73.5	58.0
- Public administration, etc. (NACE O-U) (%)	18.1	7.1
Business indicators		
Composition of turnover, average 2011-2014		
- Micro enterprises (0-9 employees) (%)	14.8	17.3
- SMEs (10-249 employees) (%)	57.3	38.0
- Large enterprises (250+ employees) (%)	27.9	44.1
Share of foreign controlled enterprises, 2014 (%)	29.47	1.18
Top R&D spending enterprises		
- average number per 10 mln population, 2011-15	388.7	29.9
- average R&D spending, mln Euros, 2011-15	35.4	165.8
Enterprise births (10+ empl.) (%), avg 2012-14	1.1	1.5
Buyer sophistication 1-7 (best), 2013-14	4.7	3.6
Ease of starting a business, Doing Business 2017	68.8	76.5
Socio-demographic indicators		
GDP per capita, PPS, avg 2011-13	67,200	25,400
Change in GDP between 2010 and 2015, (%)	15.2	5.4
Population size, avg 2011-15 (millions)	0.5	505.5
Change in population between 2010 and 2015 (%)	12.1	1.1
Population aged 15-64, avg 2011-2015 (%)	68.9	66.1
Population density, average 2011-15	210.2	116.4
Degree of urbanisation, average 2011-15 (%)	62.0	74.4

Values in green show performance above 120% of EU, values in red show performance below 80% of EU.



Performance

Luxembourg relative to EU 2010 10 2016 20				Change	
Luxembourg 2010 1016 2					
SUMMARY INNOVATION INDEX 1200 121.4 1.4 Human resources 1365 147.0 18.7 New doctorate graduates 462 62.4 16.3 Population with tertiary education 48.0 -12.6 Attractive research systems 151.2 215.1 54.0 International scientific co-publications 83.2 115.8 32.6 Foreign doctorate students 0.0 0.0 0.0 Innovation-friendly environment 17.4 17.23 -1.9 Broadband penetration 36.8 88.9 -1.9 Opportunity-driven entrepreneurship 56.3 -45.3 R&D expenditure in the public sector 46.7 85.8 39.1 Venture capital expenditures 48.5 -151.7 Firm investments 68.4 81.5 13.1 R&D expenditure in the business sector 58.8 55.4 -3.4 Non-R&D innovation expenditures 24.5 4.9 -19.6 Enterprises providing ICT training 114.3 57.1 <t< th=""><th>Luxembourg</th><th>_</th></t<>	Luxembourg			_	
Human resources 1985 1477 18.7 New doctorate graduates 462 62.4 16.3 Population with tertiary education 48.0 -12.6 Attractive research systems 15.12 215.1 54.0 International scientific co-publications 83.2 115.8 32.6 Foreign doctorate students 0.0 0.0 0.0 Innovation-friendly environment 17.4 17.23 -1.9 Broadband penetration 20.0 20.0 20.0 Opportunity-driven entrepreneurship 38.8 39.1 -65.9 Finance and support 114.5 69.3 -45.3 R&D expenditure in the public sector 46.7 85.8 39.1 Venture capital expenditures 48.5 -151.7 Firm investments 68.4 81.5 13.1 R&D expenditure in the business sector 58.8 55.4 -3.4 Non-R&D innovation expenditures 24.5 49 -19.6 Enterprises providing ICT training 114.3 17.2		2010	2016	2016	
New doctorate graduates Population with tertiary education Lifelong learning Attractive research systems International scientific co-publications Most cited publications Foreign doctorate students Robert and support Broadband penetration Opportunity-driven entrepreneurship Finance and support R&D expenditure in the public sector Venture capital expenditures Firm investments R&D expenditure in the business sector SMEs product/process innovations SMEs marketing/organizational innovations SMEs marketing/organizational innovations SMEs collaborating with others Pivate co-funding of public R&D exp. Intellectual assets PCT patent applications Final feature in showledge-intensive activities Employment fast-growing enterprises Final feature in showledge-intensive services exports Final feature in showledge-intensive services exports Final feature in showledge-intensive services exports Final feature in the services exports Final feature in the feature in the feature in the services and services in the feature in the f	SUMMARY INNOVATION INDEX	120.0	121.4	1.4	
Population with tertiary education Lifelong learning Attractive research systems International scientific co-publications Most cited publications Foreign doctorate students Innovation-friendly environment Broadband penetration Opportunity-driven entrepreneurship Finance and support Venture capital expenditures Firm investments R&D expenditure in the business sector SMEs product/process innovations SMEs marketing/organizational innovations SMEs marketing/organizations Linkages Public-private co-publications Public-private co-publications Employment in knowledge-intensive activities Employment in knowledge-intensive services exports Medium and high tech product exports Insolute 114.3 91.7 -22.5 Knowledge-intensive services exports Medium and high tech product exports Insolutions 103.0 291.9 48.0 115.0 32.6 114.0 15.0 15.0 114.1 15.0 69.3 -45.3 32.6 115.0 15.0 15.0 15.0 15.0 15.0 114.5 69.3 -45.3 38.9 14.1 15.0 15.0 15.0 15.0 15.0 114.5 69.3 -45.3 39.1 14.5 69.3 -45	Human resources	128.3		18.7	
Lifelong learning Attractive research systems International scientific co-publications Most cited publications Foreign doctorate students Innovation-friendly environment Broadband penetration Opportunity-driven entrepreneurship Finance and support Venture capital expenditures Firm investments Babe expenditure in the business sector Firm investments Babe expenditure in the business sector Sabe sproduct/process innovations SMEs product/process innovations SMEs marketing/organizational innovations SMEs co-publications Private co-publications Private co-funding of public R&D exp. Intellectual assets PCT patent applications Employment in knowledge-intensive activities Employment in knowledge-intensive services exports Enderprises product product exports Employment in knowledge-intensive services exports Medium and high tech product exports Knowledge-intensive services exports Most cited public 291.9 114.3 115.8 32.6 115.8 32.6 115.8 32.6 32.6 32.6 32.6 32.6 32.6 33.2 34.7 35.8 39.1 38.9 39.1	New doctorate graduates	46.2	62.4	16.3	
Attractive research systems 161.2 215.1 54.0 International scientific co-publications 80.5 291.9 Most cited publications 83.2 115.8 32.6 Foreign doctorate students 0.0 111.8 32.6 Innovation-friendly environment 174.7 172.9 -1.9 Broadband penetration 44.4 36.8 88.9 Opportunity-driven entrepreneurship 61.1 46.7 85.8 39.1 Finance and support 114.5 69.3 -45.3 R&D.9 -65.9 -12.1 -65.9 -12.1 -12.1 -12.6 -12.1 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 <td< td=""><td>Population with tertiary education</td><td>171.7</td><td></td><td>48.0</td></td<>	Population with tertiary education	171.7		48.0	
International scientific co-publications Most cited publications Foreign doctorate students Innovation-friendly environment Broadband penetration Opportunity-driven entrepreneurship Finance and support R&D expenditure in the public sector Venture capital expenditures Firm investments R&D expenditure in the business sector Non-R&D innovation expenditures Enterprises providing ICT training Innovators SMEs product/process innovations SMEs marketing/organizational innovations SMEs innovating in-house Linkages Innovative SMEs collaborating with others Private co-funding of public R&D exp. Intellectual assets PCT patent applications Design applications Employment in knowledge-intensive activities Employment in knowledge-intensive activities Employment fast-growing enterprises Medium and high tech product exports Intellectusive Services services Intellectusive Services exports Intellectusive Services In	Lifelong learning	176.8		-12.6	
Most cited publications Foreign doctorate students Innovation-friendly environment Innovation entrepreneurship Innovation entrepreneurship Innovation entrepreneurship Innovation expenditures Innovat	Attractive research systems	161.2		54.0	
Foreign doctorate students Innovation-friendly environment Broadband penetration Opportunity-driven entrepreneurship Finance and support R&D expenditure in the public sector Venture capital expenditures Firm investments R&D expenditure in the business sector Non-R&D innovation expenditures Enterprises providing ICT training Innovators SMEs product/process innovations SMEs marketing/organizational innovations SMEs innovatine SMEs collaborating with others Public-private co-publications Private co-funding of public R&D exp. Intellectual assets PCT patent applications Design applications Employment in knowledge-intensive activities Employment fast-growing enterprises SMEs innocative Services exports Inao, 0,0 94.4 -13.7 Medium and high tech product exports Inao, 94.7 -22.5 Knowledge-intensive services exports Intellectual intellects	International scientific co-publications	280.5		291.9	
Innovation-friendly environment 1,4,7,7,5,5,5,8 Separation 1,4,5,5,5,5,8 Separation 1,4,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,	Most cited publications	83.2	115.8	32.6	
Broadband penetration Opportunity-driven entrepreneurship Finance and support R&D expenditure in the public sector Venture capital expenditures Venture capital expenditures Venture capital expenditures R&D expenditure in the business sector R&D expenditure in the business sector S&B 55.4 -3.4 Non-R&D innovation expenditures Venture rises providing ICT training Innovators SMEs product/process innovations SMEs marketing/organizational innovations SMEs innovating in-house Linkages Fublic-private co-publications Private co-funding of public R&D exp. Intellectual assets PCT patent applications Design applications Design applications Employment in knowledge-intensive activities Employment fast-growing enterprises SMEs innovative SMEs ordinated in the second of the sec	Foreign doctorate students	231.4		0.0	
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Firm investments 68.4 81.5 13.1 R&D expenditure in the business sector 58.8 55.4 -3.4 Non-R&D innovation expenditures 24.5 4.9 -19.6 Enterprises providing ICT training 114.3 11.4 57.1 Innovators 135.0 122.6 -12.6 SMEs product/process innovations 107.8 -19.5 SMEs marketing/organizational innovations 100.1 4.9 SMEs innovating in-house 109.1 -23.5 Linkages 69.7 44.2 -25.4 Innovative SMEs collaborating with others 111.7 80.0 -31.6 Public-private co-publications 92.8 42.4 -50.4 Private co-funding of public R&D exp. 15.4 16.5 1.1 Intellectual assets 91.0 16.5 25.8 PCT patent applications 67.3 71.8 4.4 Trademark applications 67.3 71.8 4.4 Trademark applications 10.0 74.3 1.0 Emplo	R&D expenditure in the public sector	46.7	85.8	39.1	
R&D expenditure in the business sector 58.8 55.4 -3.4 Non-R&D innovation expenditures 24.5 4.9 -19.6 Enterprises providing ICT training 114.3 114.3 57.1 Innovators 135.0 122.6 -12.6 SMEs product/process innovations 107.8 -19.5 SMEs marketing/organizational innovations 109.1 -23.5 SMEs innovating in-house 109.1 -23.5 Linkages 69.7 44.2 -25.4 Innovative SMEs collaborating with others 111.7 80.0 -31.6 Public-private co-publications 92.8 42.4 -50.4 Private co-funding of public R&D exp. 15.4 16.5 1.1 Intellectual assets 91.0 15.8 25.8 PCT patent applications 67.3 71.8 4.4 Trademark applications 67.3 71.8 4.4 Trademark applications 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 <td>Venture capital expenditures</td> <td>200.2</td> <td>48.5</td> <td>-151.7</td>	Venture capital expenditures	200.2	48.5	-151.7	
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Enterprises providing ICT training 114.3 11.4 57.1 Innovators 135.2 122.6 -12.6 SMEs product/process innovations 107.8 -19.5 SMEs marketing/organizational innovations 100.1 -23.5 SMEs innovating in-house 100.1 -23.5 Linkages 69.7 44.2 -25.4 Innovative SMEs collaborating with others 111.7 80.0 -31.6 Public-private co-publications 92.8 42.4 -50.4 Private co-funding of public R&D exp. 15.4 16.5 1.1 Intellectual assets 491.0 16.8 25.8 PCT patent applications 67.3 71.8 4.4 Trademark applications 67.3 71.8 4.4 Trademark applications 10.0 74.3 13.6 Employment impacts 125.1 159.8 13.6 Employment in knowledge-intensive activities 20.0 27.7 -2.6 Employment fast-growing enterprises 57.2 82.7 25.5	R&D expenditure in the business sector	58.8	55.4	-3.4	
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SMEs innovating in-house 109.1 -23.5 Linkages 69.7 44.2 -25.4 Innovative SMEs collaborating with others 111.7 80.0 -31.6 Public-private co-publications 92.8 42.4 -50.4 Private co-funding of public R&D exp. 15.4 16.5 1.1 Intellectual assets 441.0 66.8 25.8 PCT patent applications 67.3 71.8 4.4 Trademark applications 0.0 0.0 Design applications 10.0 1.7 3.5 Employment impacts 1.26.1 1.35.8 13.6 Employment in knowledge-intensive activities 2.00 2.7 2.5 Sales impacts 108.0 94.4 -13.7 Medium and high tech product exports 114.3 91.7 -22.5 Knowledge-intensive services exports 108.0 94.4 -13.7	SMEs product/process innovations	127.3		-19.5	
Linkages 69.7 44.2 -25.4 Innovative SMEs collaborating with others 111.7 80.0 -31.6 Public-private co-publications 92.8 42.4 -50.4 Private co-funding of public R&D exp. 15.4 16.5 1.1 Intellectual assets 441.0 66.8 25.8 PCT patent applications 67.3 71.8 4.4 Trademark applications 0.0 0.0 Design applications 19.4 13.9 13.6 Employment impacts 13.6 13.9 13.6 Employment in knowledge-intensive activities 20.0 27.7 -2.6 Employment fast-growing enterprises 57.2 82.7 25.5 Sales impacts 108.0 94.4 -13.7 Medium and high tech product exports 114.3 91.7 -22.5 Knowledge-intensive services exports 3.4	SMEs marketing/organizational innovations	145.2	150.1	4.9	
Innovative SMEs collaborating with others Public-private co-publications 92.8 42.4 -50.4 Private co-funding of public R&D exp. Intellectual assets PCT patent applications Psign applications Design applications Employment impacts Employment in knowledge-intensive activities Employment fast-growing enterprises Sales impacts Medium and high tech product exports Knowledge-intensive services exports 111.7 80.0 -31.6 92.8 42.4 -50.4 16.5 1.1 16.5 1.1 16.5 25.8 25.8 25.8 25.8 25.8 26.9 27.2 25.5 26.9 37.4 26.9 37.4 27.2 28.7 25.5 28.7 25.5 28.7 25.5 28.7 25.5 3.4	SMEs innovating in-house	132.6	109.1	-23.5	
Public-private co-publications 92.8 42.4 -50.4 Private co-funding of public R&D exp. 1.5.4 16.5 1.1 Intellectual assets 25.8 PCT patent applications 67.3 71.8 4.4 Trademark applications 67.3 71.8 4.4 Trademark applications 15.0 15.0 15.9 15.9 15.9 15.6 15.9 15.9 15.9 15.9 15.9 15.9 15.0 15.9 15.9 15.0 15.9 15.0 15.9 15.0 15.9 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0	Linkages	69.7	44.2	-25.4	
Private co-funding of public R&D exp. Intellectual assets PCT patent applications Frademark applications Design applications Employment impacts Employment in knowledge-intensive activities Employment fast-growing enterprises Sales impacts Medium and high tech product exports Knowledge-intensive services exports 1.54 16.5 1.1 6.8 25.8 25.8 4.4 0.0 0.0 1.3 1.3 1.4 1.5 1.5 1.5 1.5 1.6 1.7 1.5 1.6 1.7 1.8 1.8 1.8 1.9 1.9 1.9 1.9 1.9	Innovative SMEs collaborating with others	111.7		-31.6	
Intellectual assets PCT patent applications PCT patent applications Frademark applications Design applications Employment impacts Employment in knowledge-intensive activities Employment fast-growing enterprises Sales impacts Medium and high tech product exports Knowledge-intensive services exports PCS	Public-private co-publications	92.8	42.4	-50.4	
PCT patent applications 67.3 71.8 4.4 Trademark applications 0.0 Design applications 1.0.0 1.1 74.3 Employment impacts 1.0.0 1.39.8 13.6 Employment in knowledge-intensive activities 1.0.0 1.39.8 1.3.6 Employment fast-growing enterprises 57.2 82.7 25.5 Sales impacts 108.0 94.4 -13.7 Medium and high tech product exports 114.3 91.7 -22.5 Knowledge-intensive services exports 1.0.0 3.4	Private co-funding of public R&D exp.			1.1	
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Design applications 177.0 211 74.3 Employment impacts 126.1 39.8 13.6 Employment in knowledge-intensive activities 26.0 37.2 82.7 25.5 Employment fast-growing enterprises 57.2 82.7 25.5 Sales impacts 108.0 94.4 -13.7 Medium and high tech product exports 114.3 91.7 -22.5 Knowledge-intensive services exports 3.4	PCT patent applications			4.4	
Employment impacts126.1135.813.6Employment in knowledge-intensive activities200107.0-2.6Employment fast-growing enterprises57.282.725.5Sales impacts108.094.4-13.7Medium and high tech product exports114.391.7-22.5Knowledge-intensive services exports108.03.4	Trademark applications				
Employment in knowledge-intensive activities 201 207 -2.6 Employment fast-growing enterprises 57.2 82.7 25.5 Sales impacts 108.0 94.4 -13.7 Medium and high tech product exports 114.3 91.7 -22.5 Knowledge-intensive services exports 3.4	Design applications				
Employment fast-growing enterprises 57.2 82.7 25.5 Sales impacts 108.0 94.4 -13.7 Medium and high tech product exports 114.3 91.7 -22.5 Knowledge-intensive services exports 3.4	Employment impacts	126.1		13.6	
Sales impacts108.094.4-13.7Medium and high tech product exports114.391.7-22.5Knowledge-intensive services exports100.03.4	Employment in knowledge-intensive activities		217.9		
Medium and high tech product exports114.391.7-22.5Knowledge-intensive services exports145.8145.03.4	Employment fast-growing enterprises	57.2	82.7	25.5	
Knowledge-intensive services exports 145.5 149.0 3.4	Sales impacts	108.0	94.4	-13.7	
The triangle with the second superior					
Sales of new-to-market/firm innovations 56.6 33.6 -23.0					
	Sales of new-to-market/firm innovations	56.6	33.6	-23.0	

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.

Change highlighted in green is positive; change highlighted in light red is negative.