

Digital Economy and Society Index 2017 - Luxembourg



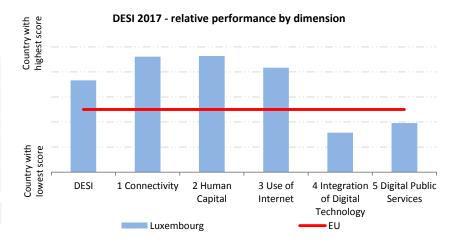
Luxembourg ranks 5th in DESI 2017. Luxembourg is one of the leading countries for connectivity, digital skills and Internet usage while the integration of digital technologies by companies and digital public services are its relative weakness.

	Luxem	bourg	Cluster	EU
	rank	score	score	score
DESI 2017	5	0.61	0.63	0.52
DESI 2016 ¹	7	0.57	0.60	0.49

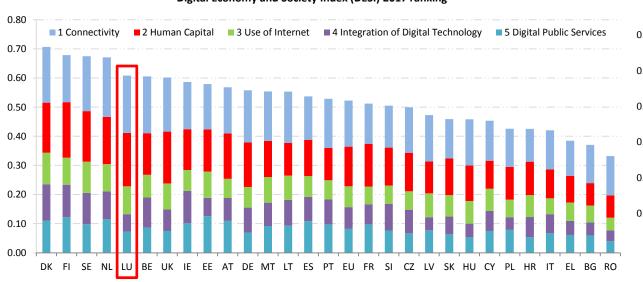
The Digital Economy and Society Index is a composite index measuring progress in digital through five components:

Fixed Broadband, Mobile Broadband, Broadband speed and prices
Basic Skills and Internet Use, Advanced skills and Development
Citizens' use of Content, Communication and Online Transactions
Business digitisation and eCommerce
eGovernment

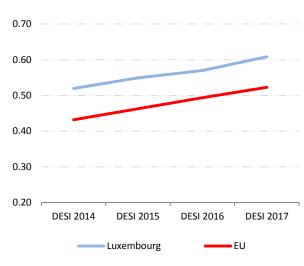
Clustering: Luxembourg belongs to the cluster of high performing countries.



Digital Economy and Society Index (DESI) 2017 ranking



DESI - evolution over time



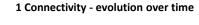
1) Connectivity: Luxembourg has reached a very high or even full degree of coverage both for fixed and fast broadband, and for mobile 4G broadband. Spectrum was not entirely assigned because of lack of demand.

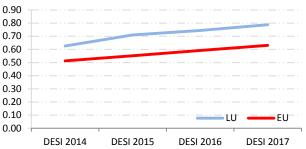
		L	.uxemb	ourg		EU
	DESI 2017			DESI 20	DESI 2017	
	value		rank	value	rank	value
1a1 Fixed Broadband Coverage	99.98%	\rightarrow	4	99.98%	4	98%
% households	2016			2015		2016
1a2 Fixed Broadband Take-up	96%	1	1	94%	1	74%
% households	2016			2015		2016
1b1 Mobile Broadband Take-up	116	1	5	73	12	84
Subscriptions per 100 people	June 2016			June 2015		June 2016
1b2 4G coverage ²	95%		5	NA		84%
% households (average of operators)	2016					2016
1b3 Spectrum ³	50%	\downarrow	24	53%	24	68%
% of the target	2016			2015		2016
1c1 NGA Coverage	94%	\rightarrow	6	94%	5	76%
% households	2016			2015		2016
1c2 Subscriptions to Fast Broadband	49%	1	12	40%	13	37%
% subscriptions >= 30Mbps	June 2016			June 2015		June 2016
1d1 Fixed Broadband Price4	NA			NA		1.2%
% income	price 2016, income 2015			price 2015, income 2015		price 2016, income 2015

2) Human Capital: Luxembourg has a high level of digital skills, reaching pole position in terms of Internet users and individuals with at least basic digital skills and a very good position in terms of ICT specialists.

	Luxembourg					EU
	DESI	201	7	DESI 20	DESI 2017	
	value		rank	value	rank	value
2a1 Internet Users	97%	\rightarrow	1	97%	1	79%
% individuals	2016			2015		2016
2a2 At Least Basic Digital Skills	86%	\rightarrow	1	86%	1	56%
% individuals	2016			2015		2016
2b1 ICT Specialists ⁵	4.6%	\downarrow	5	5.1%	3	3.5%
% individuals	2015			2014		2015
2b2 STEM Graduates	NA			NA		19
Per 1000 individuals (aged 20-29)	2014			2013		2014

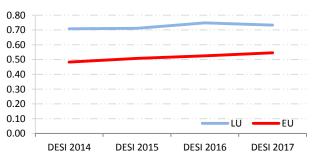
1 Connectivity	Luxem	bourg	Cluster	EU
1 connectivity	rank score		score	score
DESI 2017	2	0.79	0.75	0.63
DESI 2016	3	0.74	0.73	0.59





2 Human Capital	Luxem	bourg	Cluster	EU
2 Haman capital	rank	score	score	score
DESI 2017	2	0.73	0.68	0.55
DESI 2016	2	0.75	0.66	0.53

2 Human Capital - evolution over time



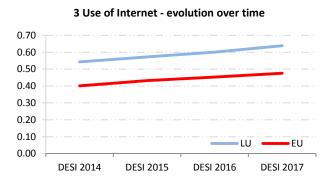
3) Use of Internet: Internet users in Luxembourg consult a wide variety of contents (news, music, and video) and carry out many transactions (banking, shopping) online. However, they engage less in social networks.

		L	uxemb	ourg		EU
	DESI	201	7	DESI 20	DESI 2017	
	value		rank	value	rank	value
3a1 News	89%	1	4	85%	9	70%
% individuals who used Internet in the last 3 months	2016			2015		2016
3a2 Music, Videos and Games ⁶	89%		5	NA		78%
% individuals who used Internet in the last 3 months	2016					2016
3a3 Video on Demand ⁷	29%		6	NA		21%
% individuals who used Internet in the last 3 months	2016					2016
3b1 Video Calls	54%	1	6	47%	7	39%
% individuals who used Internet in the last 3 months	2016			2015		2016
3b2 Social Networks	69%	\downarrow	15	70%	9	63%
% individuals who used Internet in the last 3 months	2016			2015		2016
3c1 Banking	73%	1	9	67%	10	59%
% individuals who used Internet in the last 3 months	2016			2015		2016
3c2 Shopping	80%	\rightarrow	4	80%	4	66%
% internet users (last year)	2016			2015		2016

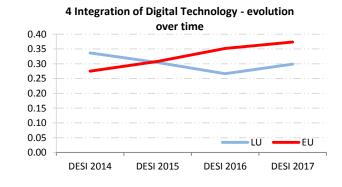
4) Integration of Digital Technology: Companies in Luxembourg have an average level of integration of digital technologies (information sharing, elnvoices and cloud). However, SMEs do not engage much in online commerce, including cross-border.

		Luxembourg				
	DESI 20:	L 7	DESI 20	DESI 2017		
	value	rank	value	rank	value	
4a1 Electronic Information Sharing	39%	11	39%	11	36%	
% enterprises	2015		2015		2015	
4a2 RFID	4.9%	10	4.9%	10	3.9%	
% enterprises	2014		2014		2014	
4a3 Social Media	19% ↑	12	15%	15	20%	
% enterprises	2016		2015		2016	
4a4 elnvoices	11%	20	NA		18%	
% enterprises	2016		2015		2016	
4a5 Cloud	12%	14	NA		13%	
% enterprises	2016		2015		2016	
4b1 SMEs Selling Online	9% 1	24	6%	26	17%	
% SMEs	2016		2015		2016	
4b2 eCommerce Turnover	NA		2.6%	27	9.4%	
% SME turnover	2016		2015		2016	
4b3 Selling Online Cross-border	6.3%	18	6.3%	18	7.5%	
% SMEs	2015		2015		2015	

3 Use of Internet	Luxen	bourg	Cluster	EU
	rank	score	score	score
DESI 2017	3	0.64	0.60	0.48
DESI 2016	4	0.60	0.57	0.45



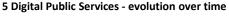
4 Integration of Digital	Luxen	bourg	Cluster	EU
Technology	rank score		score	score
DESI 2017	22	0.30	0.44	0.37
DESI 2016	22	0.27	0.41	0.35

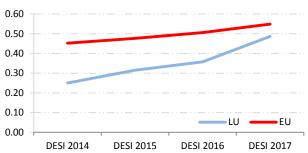


5) Digital Public Services: Luxembourg has made progress compared to last year, particularly in terms of open data and in the provision of pre-filled forms. However, numbers of eGovernment users and the delivery of services have flattened.

	Luxembourg					EU
	DES	201	7	DESI 20	DESI 2017	
	value		rank	value	rank	value
5a1 eGovernment Users	36%	\rightarrow	15	36%	15	34%
% internet users (last year)	2016			2015		2016
5a2 Pre-filled Forms	30	1	20	20	23	49
Score (0 to 100)	2016			2015		2016
5a3 Online Service Completion	77	\downarrow	19	78	19	82
Score (0 to 100)	2016			2015		2016
5a4 Open Data ⁸	57%	1	14	15%	26	59%
% of maximum score	2016			2015		2016

5 Digital Public Services	Luxem	bourg	Cluster	EU
5 Digital 1 abile Services	rank s		score	score
DESI 2017	19	0.49	0.59	0.55
DESI 2016	21	0.36	0.57	0.51





Methodological note

- ¹ **DESI 2016** was re-calculated for all countries to reflect slight changes in the choice of indicators and corrections to the underlying indicator data. As a result, country scores and rankings may have changed from the previous publication.
- ² **4G coverage**: This is a new DESI indicator measuring the average coverage of telecom operators' 4G networks.
- ³ Spectrum: There is a decrease in most of the Member States due to the additional EU harmonisation of the 700 MHz band in April 2016.
- ⁴ Fixed Broadband Price: Due to a slight methodological change, historical data was re-calculated.
- ⁵ **ICT Specialists**: Historical data have been revised by Eurostat.
- ⁶ **Music, Videos and Games**: Break in series due to a change in the Eurostat survey.
- ⁷ **Video on Demand**: Break in series due to a change of data source. New source is Eurostat.
- ⁸ Open Data: Change of data source. The historical data have also been restated. The new source is the European Data Portal.

