

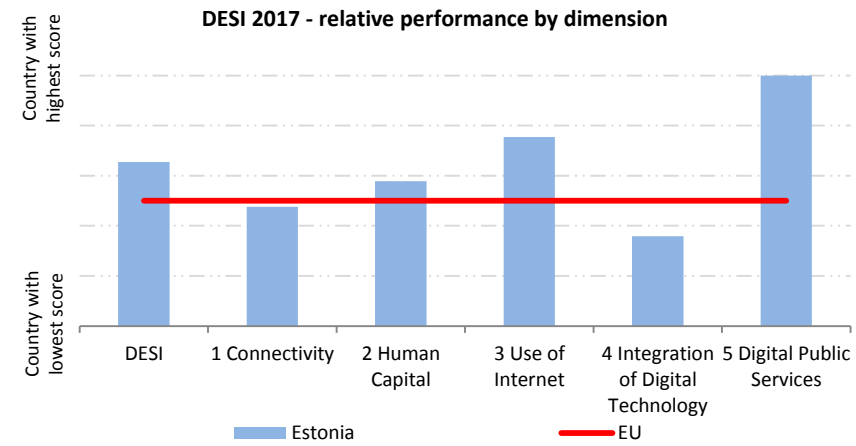
Estonia ranks 9th in DESI 2017. Estonia is the champion in Europe in the online provision of public services and scores above EU average in digital skills and the Use of Internet by citizens. As for broadband, it is strong on mobile but has low fixed broadband coverage despite progress over the past year. The key challenge in Estonia is the digitisation of companies.

	Estonia		Cluster	EU
	rank	score	score	score
DESI 2017	9	0.58	0.63	0.52
DESI 2016 ¹	9	0.55	0.60	0.49

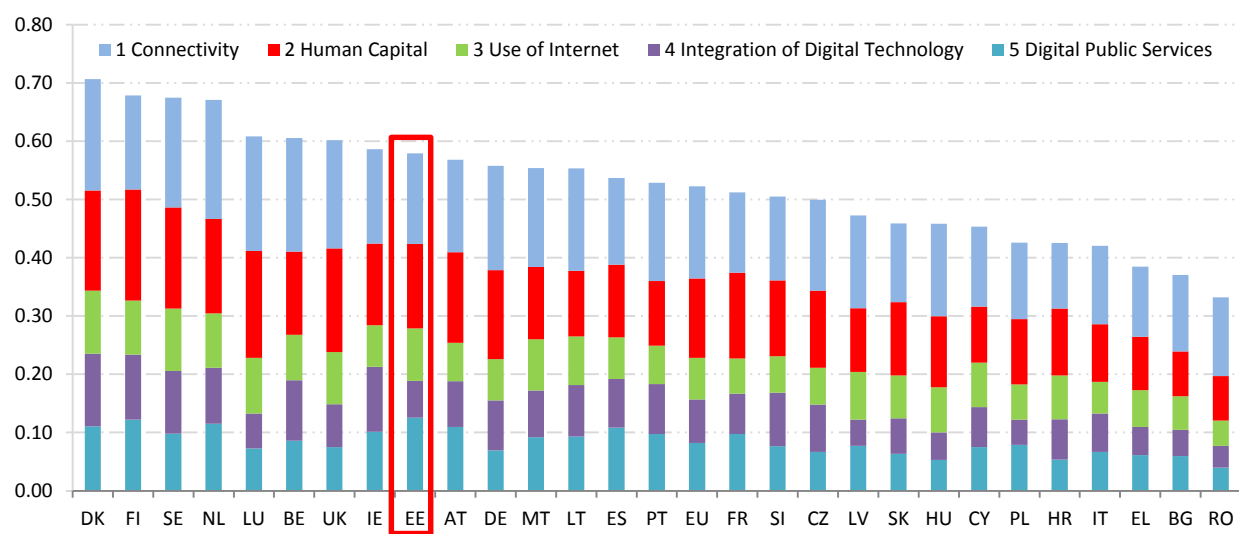
The Digital Economy and Society Index is a composite index measuring progress in digital through five components:

1 Connectivity	Fixed Broadband, Mobile Broadband, Broadband speed and prices
2 Human Capital	Basic Skills and Internet Use, Advanced skills and Development
3 Use of Internet	Citizens' use of Content, Communication and Online Transactions
4 Integration of Digital Technology	Business digitisation and eCommerce
5 Digital Public Services	eGovernment

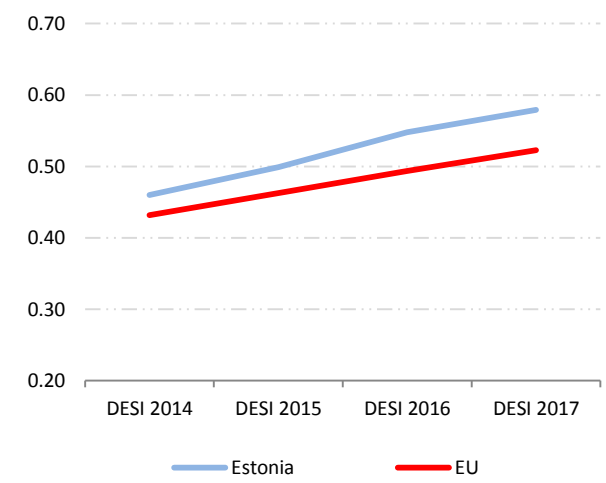
Clustering: Estonia belongs to the cluster of high performing countries.



Digital Economy and Society Index (DESI) 2017 ranking



DESI - evolution over time

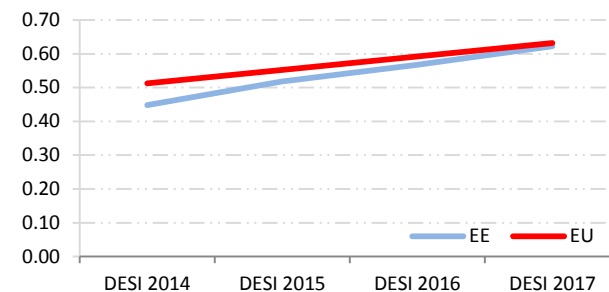


1) Connectivity: In Estonia 4G is widely available and the take-up of mobile broadband is very high. Basic fixed broadband coverage has increased but remains well below EU average. The availability of NGA is slightly above average, and fast broadband take-up is growing.

	Estonia				EU	
	DESI 2017		DESI 2016		DESI 2017	
	value	rank	value	rank	value	
1a1 Fixed Broadband Coverage % households	91% ↑	25	87%	26	98%	
	2016		2015		2016	
1a2 Fixed Broadband Take-up % households	77% →	8	77%	7	74%	
	2016		2015		2016	
1b1 Mobile Broadband Take-up Subscriptions per 100 people	116 ↑	4	105	4	84	
	June 2016		June 2015		June 2016	
1b2 4G coverage² % households (average of operators)	94%	8	NA		84%	
	2016				2016	
1b3 Spectrum³ % of the target	80% ↓	7	84%	6	68%	
	2016		2015		2016	
1c1 NGA Coverage % households	79% ↑	18	78%	16	76%	
	2016		2015		2016	
1c2 Subscriptions to Fast Broadband % subscriptions >= 30Mbps	31% ↑	20	27%	20	37%	
	June 2016		June 2015		June 2016	
1d1 Fixed Broadband Price⁴ % income	1.2% →	14	1.2%	14	1.2%	
	price 2016, income 2015		price 2015, income 2015		price 2016, income 2015	

1 Connectivity	Estonia		Cluster	EU
	rank	score	score	score
DESI 2017	17	0.62	0.75	0.63
DESI 2016	17	0.57	0.73	0.59

1 Connectivity - evolution over time

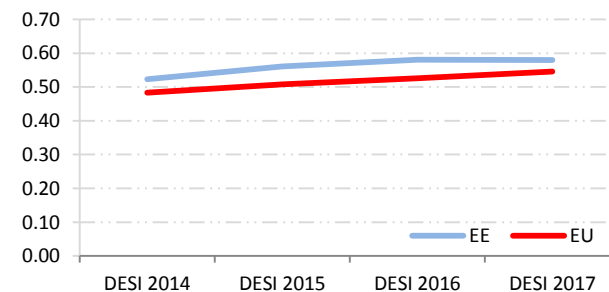


2) Human Capital: Estonia scores well in terms of Internet users, basic digital skills levels as well as in the share of ICT specialists in the workforce. At the same time, the number of graduates in science, technology, engineering and mathematics is low.

	Estonia				EU	
	DESI 2017		DESI 2016		DESI 2017	
	value	rank	value	rank	value	
2a1 Internet Users % individuals	85% ↓	8	86%	7	79%	
	2016		2015		2016	
2a2 At Least Basic Digital Skills % individuals	60% ↓	10	65%	8	56%	
	2016		2015		2016	
2b1 ICT Specialists⁵ % individuals	4.4% ↑	6	3.9%	8	3.5%	
	2015		2014		2015	
2b2 STEM Graduates Per 1000 individuals (aged 20-29)	14 →	24	14	21	19	
	2014		2013		2014	

2 Human Capital	Estonia		Cluster	EU
	rank	score	score	score
DESI 2017	10	0.58	0.68	0.55
DESI 2016	9	0.58	0.66	0.53

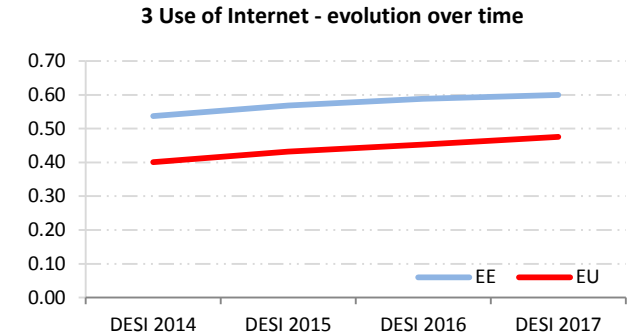
2 Human Capital - evolution over time



3) Use of Internet: Estonian Internet users engage in online activities more than the EU average does. Take-up of eBanking is one of the highest in the EU, at 90% of internet users.

	Estonia				EU
	DESI 2017		DESI 2016		DESI 2017
	value	rank	value	rank	value
3a1 News	89%	↓ 3	91%	2	70%
% individuals who used Internet in the last 3 months	2016		2015		2016
3a2 Music, Videos and Games⁶	84%	9	NA		78%
% individuals who used Internet in the last 3 months	2016		2016		2016
3a3 Video on Demand⁷	24%	9	NA		21%
% individuals who used Internet in the last 3 months	2016		2016		2016
3b1 Video Calls	47%	↑ 12	46%	8	39%
% individuals who used Internet in the last 3 months	2016		2015		2016
3b2 Social Networks	66%	↑ 20	63%	20	63%
% individuals who used Internet in the last 3 months	2016		2015		2016
3c1 Banking	90%	↓ 4	91%	2	59%
% individuals who used Internet in the last 3 months	2016		2015		2016
3c2 Shopping	64%	↓ 13	66%	10	66%
% internet users (last year)	2016		2015		2016

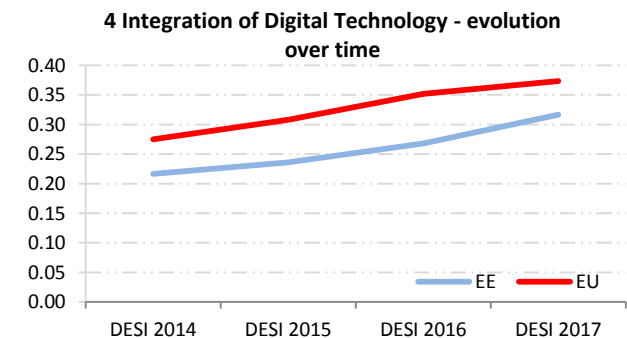
3 Use of Internet	Estonia		Cluster	EU
	rank	score	score	score
DESI 2017	6	0.60	0.60	0.48
DESI 2016	5	0.59	0.57	0.45



4) Integration of Digital Technology: Several Estonian companies make use of eInvoices and cloud services. However, overall Estonia stands below EU average in digitising businesses, mainly because of low scores in electronic information sharing, social media and RFID.

	Estonia				EU
	DESI 2017		DESI 2016		DESI 2017
	value	rank	value	rank	value
4a1 Electronic Information Sharing	22%	23	22%	23	36%
% enterprises	2015		2015		2015
4a2 RFID	2.7%	25	2.7%	25	3.9%
% enterprises	2014		2014		2014
4a3 Social Media	12%	↑ 23	9%	25	20%
% enterprises	2016		2015		2016
4a4 eInvoices	19%	↑ 12	14%	11	18%
% enterprises	2016		2015		2016
4a5 Cloud	17%	8	NA		13%
% enterprises	2016		2015		2016
4b1 SMEs Selling Online	15%	↑ 16	12%	19	17%
% SMEs	2016		2015		2016
4b2 eCommerce Turnover	10.7%	↑ 8	8.1%	15	9.4%
% SME turnover	2016		2015		2016
4b3 Selling Online Cross-border	6.1%	19	6.1%	19	7.5%
% SMEs	2015		2015		2015

4 Integration of Digital Technology	Estonia		Cluster	EU
	rank	score	score	score
DESI 2017	20	0.32	0.44	0.37
DESI 2016	21	0.27	0.41	0.35

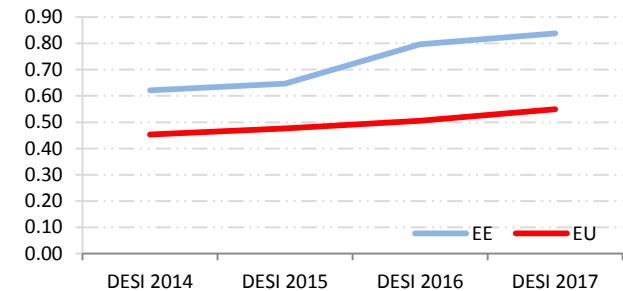


5) Digital Public Services: Estonia is the European champion in eGovernment use. In addition, it ranks 2nd on the quality of digital public services. Estonia's performance in open data has improved significantly but still stands slightly below EU average.

	Estonia				EU
	DESI 2017 value	rank	DESI 2016 value	rank	DESI 2017 value
5a1 eGovernment Users % internet users (last year)	78% ↓	1	80%	1	34%
5a2 Pre-filled Forms Score (0 to 100)	89 ↓	2	95	1	49
5a3 Online Service Completion Score (0 to 100)	97 ↑	2	96	4	82
5a4 Open Data⁸ % of maximum score	55% ↑	17	29%	23	59%

5 Digital Public Services	Estonia		Cluster	EU
	rank	score	score	score
DESI 2017	1	0.84	0.59	0.55
DESI 2016	2	0.80	0.57	0.51

5 Digital Public Services - evolution over time



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.