



Romania ranks 28th in DESI 2017. Romanians benefit from coverage of fast broadband connections in urban areas, which translates into the second highest share of subscriptions in the EU. The take-up of mobile broadband is also accelerating. However, the rate of digitisation of the economy, including for public services, and the levels of digital skills are still low.

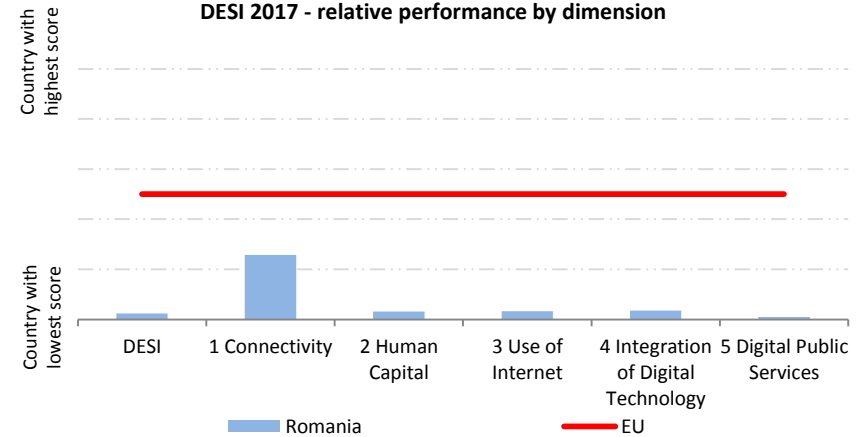
	Romania		Cluster	EU
	rank	score	score	score
DESI 2017	28	0.33	0.41	0.52
DESI 2016 ¹	28	0.31	0.38	0.49

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

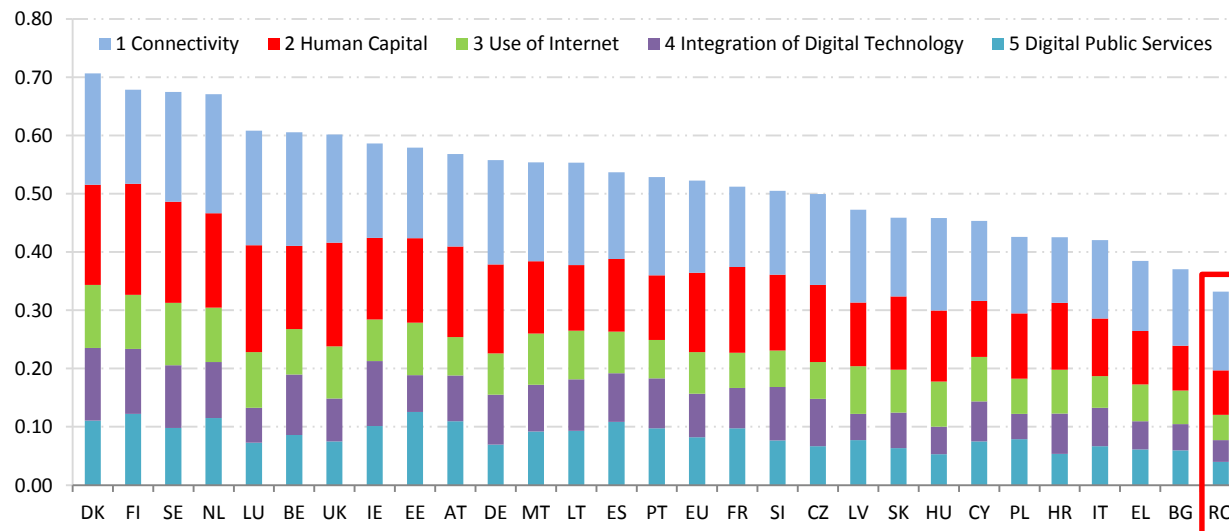
1 Connectivity	Fixed Broadband, Mobile Broadband, Broadband speed and prices
2 Human Capital	Basic Skills and Internet Use, Advanced skills and Development
3 Use of Internet	Citizens' use of Content, Communication and Online Transactions
4 Integration of Digital Technology	Business digitisation and eCommerce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

Clustering: Romania belongs to the cluster of low performing countries.

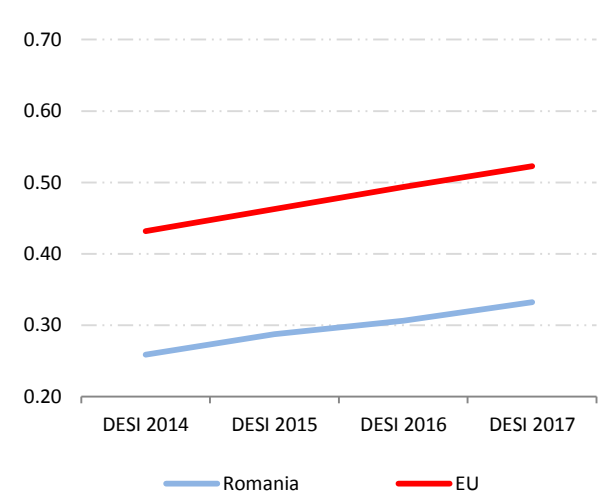
DESI 2017 - relative performance by dimension



Digital Economy and Society Index (DESI) 2017 ranking



DESI - evolution over time

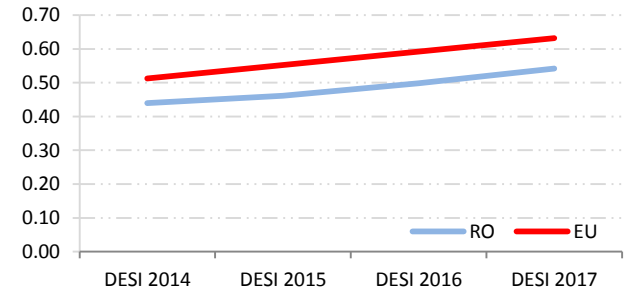


1) Connectivity: Romania has one of the highest shares of subscriptions to fast broadband in the EU and more people are taking up mobile broadband. More spectrum is made available, however the coverage of fixed and mobile (4G) broadband networks remains one of the lowest in the EU.

	Romania				EU
	DESI 2017		DESI 2016		DESI 2017
	value	rank	value	rank	value
1a1 Fixed Broadband Coverage % households	89% →	26	89%	25	98%
	2016		2015		2016
1a2 Fixed Broadband Take-up % households	63% ↑	23	60%	23	74%
	2016		2015		2016
1b1 Mobile Broadband Take-up Subscriptions per 100 people	71 ↑	22	59	24	84
	June 2016		June 2015		June 2016
1b2 4G coverage² % households (average of operators)	45%	28	NA		84%
	2016				2016
1b3 Spectrum³ % of the target	75% ↑	9	67%	18	68%
	2016		2015		2016
1c1 NGA Coverage % households	72% ↑	24	70%	22	76%
	2016		2015		2016
1c2 Subscriptions to Fast Broadband % subscriptions >= 30Mbps	70% ↑	2	63%	2	37%
	June 2016		June 2015		June 2016
1d1 Fixed Broadband Price⁴ % income	1.1% ↑	10	1.2%	15	1.2%
	price 2016, income 2015		price 2015, income 2015		price 2016, income 2015

1 Connectivity	Romania		Cluster	EU
	rank	score	score	score
DESI 2017	22	0.54	0.53	0.63
DESI 2016	21	0.50	0.46	0.59

1 Connectivity - evolution over time

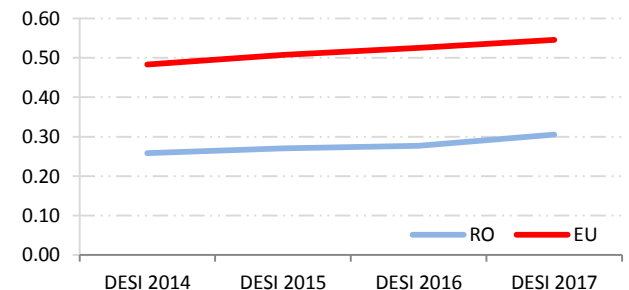


2) Human Capital: More people are online, and digital skills levels are improving but remain the second lowest in the EU. Romania can benefit from a good pool of science, technology, math and engineering graduates.

	Romania				EU
	DESI 2017		DESI 2016		DESI 2017
	value	rank	value	rank	value
2a1 Internet Users % individuals	56% ↑	28	52%	28	79%
	2016		2015		2016
2a2 At Least Basic Digital Skills % individuals	28% ↑	27	26%	28	56%
	2016		2015		2016
2b1 ICT Specialists⁵ % individuals	1.9% ↑	27	1.6%	27	3.5%
	2015		2014		2015
2b2 STEM Graduates Per 1000 individuals (aged 20-29)	16 ↓	17	17	16	19
	2014		2013		2014

2 Human Capital	Romania		Cluster	EU
	rank	score	score	score
DESI 2017	28	0.31	0.40	0.55
DESI 2016	28	0.28	0.38	0.53

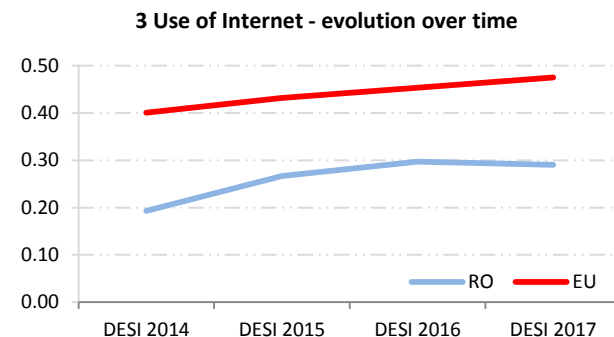
2 Human Capital - evolution over time



3) Use of Internet: Romanian Internet users engage in online activities much less than the EU average, in particular when it comes to eCommerce and eBanking. However, they are intensive users of social networks and online video call services.

	Romania				EU
	DESI 2017		DESI 2016		DESI 2017
	value	rank	value	rank	value
3a1 News % individuals who used Internet in the last 3 months	63%	↓ 25	67%	22	70%
	2016		2015		2016
3a2 Music, Videos and Games⁶ % individuals who used Internet in the last 3 months	67%	27	NA		78%
	2016				2016
3a3 Video on Demand⁷ % individuals who used Internet in the last 3 months	6%	27	NA		21%
	2016				2016
3b1 Video Calls % individuals who used Internet in the last 3 months	45%	↑ 15	42%	15	39%
	2016		2015		2016
3b2 Social Networks % individuals who used Internet in the last 3 months	74%	↓ 8	78%	3	63%
	2016		2015		2016
3c1 Banking % individuals who used Internet in the last 3 months	8%	↓ 27	10%	27	59%
	2016		2015		2016
3c2 Shopping % internet users (last year)	18%	→ 28	18%	28	66%
	2016		2015		2016

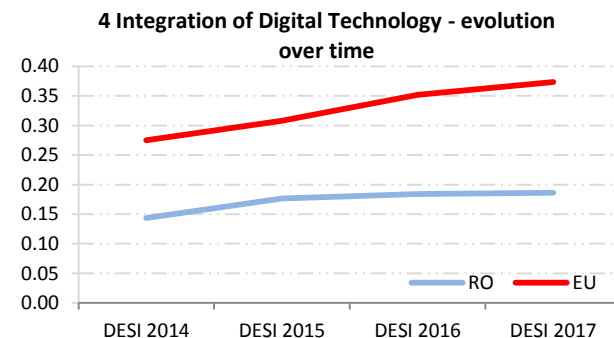
3 Use of Internet	Romania		Cluster	EU
	rank	score	score	score
DESI 2017	28	0.29	0.39	0.48
DESI 2016	28	0.30	0.37	0.45



4) Integration of Digital Technology: Romania is not closing the gap with the EU on business digitisation, particularly regarding the use of cloud computing or online trade channels. The turnover from online sales slightly decreased.

	Romania				EU
	DESI 2017		DESI 2016		DESI 2017
	value	rank	value	rank	value
4a1 Electronic Information Sharing % enterprises	22%	24	22%	24	36%
	2015		2015		2015
4a2 RFID % enterprises	4.0%	14	4.0%	14	3.9%
	2014		2014		2014
4a3 Social Media % enterprises	8%	↑ 28	6%	28	20%
	2016		2015		2016
4a4 eInvoices % enterprises	9%	24	NA		18%
	2016		2015		2016
4a5 Cloud % enterprises	5%	↓ 26	6%	26	13%
	2016		2015		2016
4b1 SMEs Selling Online % SMEs	7%	→ 27	7%	24	17%
	2016		2015		2016
4b2 eCommerce Turnover % SME turnover	4.3%	↓ 26	4.9%	24	9.4%
	2016		2015		2016
4b3 Selling Online Cross-border % SMEs	1.9%	28	1.9%	28	7.5%
	2015		2015		2015

4 Integration of Digital Technology	Romania		Cluster	EU
	rank	score	score	score
DESI 2017	28	0.19	0.27	0.37
DESI 2016	28	0.18	0.25	0.35

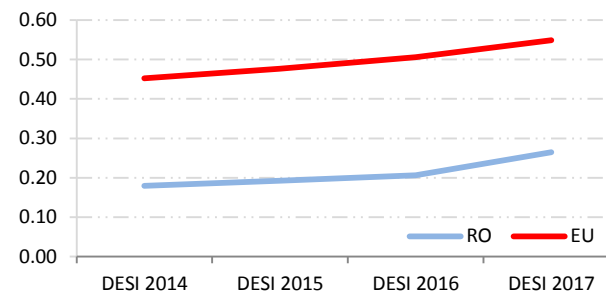


5) Digital Public Services: Romania made significant progress in the availability of Open Data but the supply and use of eGovernment services remain low.

	Romania				EU
	DESI 2017 value	rank	DESI 2016 value	rank	DESI 2017 value
5a1 eGovernment Users % internet users (last year)	6%	↓ 28	8%	28	34%
5a2 Pre-filled Forms Score (0 to 100)	12	↑ 27	6	28	49
5a3 Online Service Completion Score (0 to 100)	55	↑ 28	54	28	82
5a4 Open Data⁸ % of maximum score	63%	↑ 11	44%	17	59%

5 Digital Public Services	Romania		Cluster	EU
	rank	score	score	score
DESI 2017	28	0.27	0.43	0.55
DESI 2016	28	0.21	0.42	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.