



Germany ranks 11<sup>th</sup> in DESI 2017. Germany is a leader in spectrum assignment. Germans are above average users of the internet and their digital skills are progressing well. German citizens and companies are actively approaching the opportunities of eCommerce. However, Germans are reluctant to subscribe to fast broadband. Moreover, with only 19% eGovernment users, the greatest challenge is to improve the online interaction between public authorities and citizens.

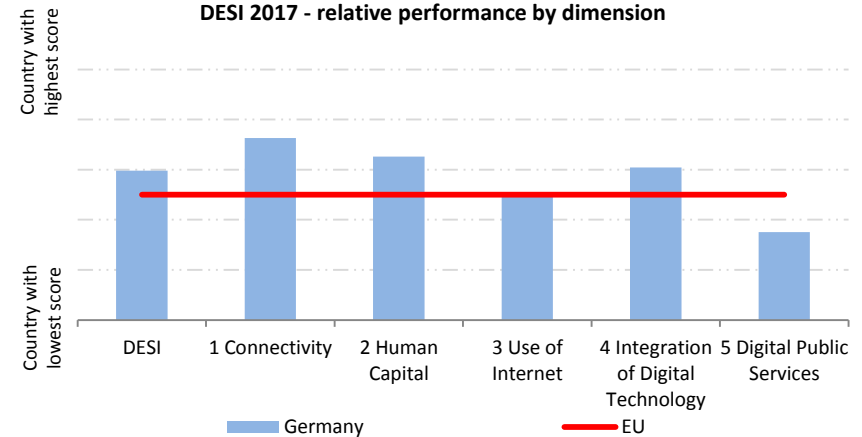
	Germany rank	Germany score	Cluster score	EU score
DESI 2017	11	0.56	0.54	0.52
DESI 2016 <sup>1</sup>	11	0.54	0.51	0.49

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

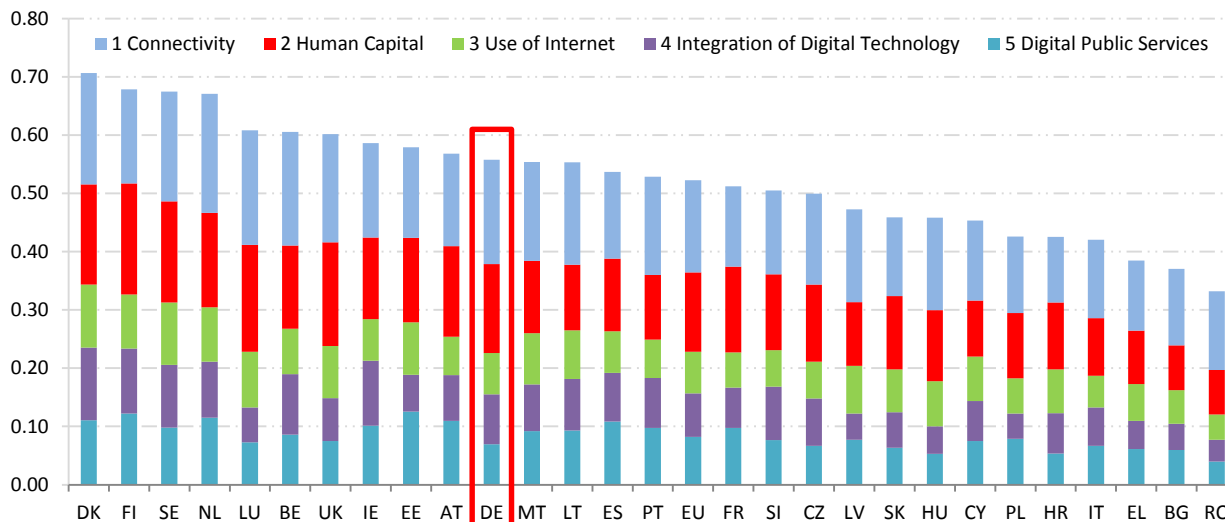
1 Connectivity	Fixed Broadband, Mobile Broadband, Broadband speed and prices
2 Human Capital	Basic Skills and Internet Use, Advanced skills and Development
3 Use of Internet	Citizens' use of Content, Communication and Online Transactions
4 Integration of Digital Technology	Business digitisation and eCommerce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

**Clustering:** Germany belongs to the cluster of medium performing countries.

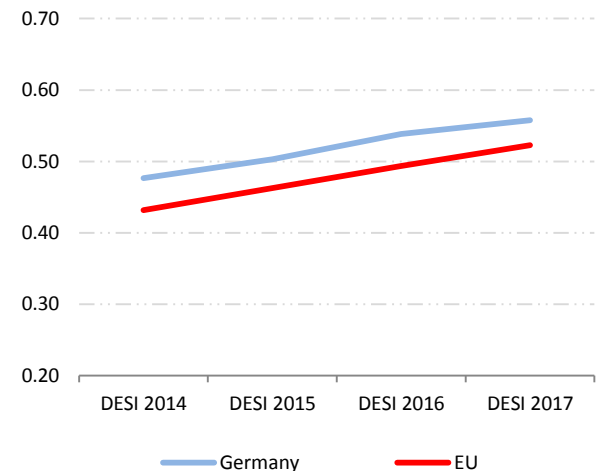
DESI 2017 - relative performance by dimension



Digital Economy and Society Index (DESI) 2017 ranking



DESI - evolution over time

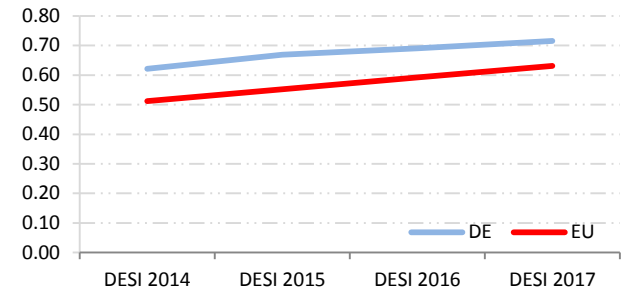


1) Connectivity: Germany is performing well, in particular when it comes to spectrum assignment. However, Germans are taking up mobile broadband and fast fixed broadband subscriptions at a slower rate than other Europeans.

	Germany				EU	
	DESI 2017		DESI 2016		DESI 2017	
	value	rank	value	rank	value	
<b>1a1 Fixed Broadband Coverage</b> % households	99% 2016	↑ 15	98% 2015	16	98% 2016	
<b>1a2 Fixed Broadband Take-up</b> % households	86% 2016	↑ 4	84% 2015	4	74% 2016	
<b>1b1 Mobile Broadband Take-up</b> Subscriptions per 100 people	73 June 2016	↑ 21	66 June 2015	17	84 June 2016	
<b>1b2 4G coverage<sup>2</sup></b> % households (average of operators)	86% 2016	19	NA		84% 2016	
<b>1b3 Spectrum<sup>3</sup></b> % of the target	100% 2016	→ 1	100% 2015	1	68% 2016	
<b>1c1 NGA Coverage</b> % households	82% 2016	↑ 12	81% 2015	12	76% 2016	
<b>1c2 Subscriptions to Fast Broadband</b> % subscriptions >= 30Mbps	31% June 2016	↑ 21	25% June 2015	21	37% June 2016	
<b>1d1 Fixed Broadband Price<sup>4</sup></b> % income	0.8% price 2016, income 2015	→ 2	0.8% price 2015, income 2015	4	1.2% price 2016, income 2015	

1 Connectivity	Germany		Cluster	EU
	rank	score	score	score
DESI 2017	7	0.72	0.63	0.63
DESI 2016	7	0.69	0.60	0.59

1 Connectivity - evolution over time

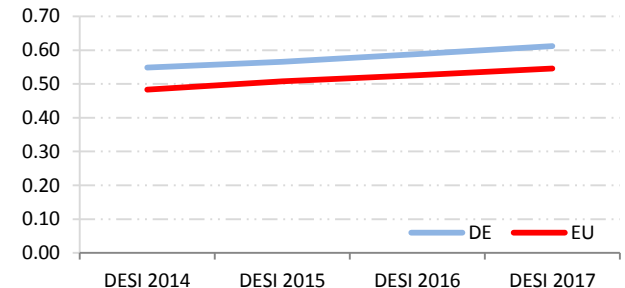


2) Human Capital: More and more people are online, and digital skills are well above average.

	Germany				EU	
	DESI 2017		DESI 2016		DESI 2017	
	value	rank	value	rank	value	
<b>2a1 Internet Users</b> % individuals	87% 2016	↑ 7	84% 2015	8	79% 2016	
<b>2a2 At Least Basic Digital Skills</b> % individuals	68% 2016	↑ 7	67% 2015	7	56% 2016	
<b>2b1 ICT Specialists<sup>5</sup></b> % individuals	3.7% 2015	↑ 10	3.6% 2014	10	3.5% 2015	
<b>2b2 STEM Graduates</b> Per 1000 individuals (aged 20-29)	19 2014	↑ 11	17 2013	14	19 2014	

2 Human Capital	Germany		Cluster	EU
	rank	score	score	score
DESI 2017	8	0.61	0.57	0.55
DESI 2016	8	0.59	0.55	0.53

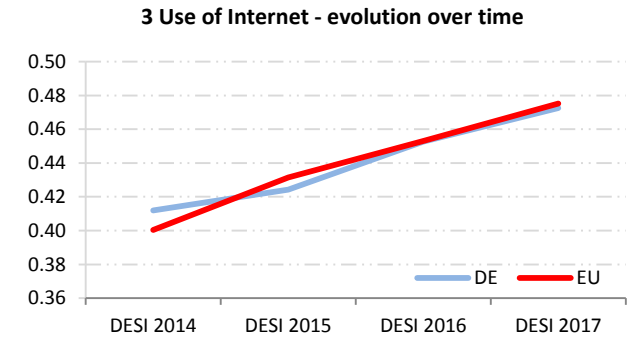
2 Human Capital - evolution over time



3) Use of Internet: 87% of Germans are online but they seem to engage in a more limited array of online activities than other Europeans. Germans are nevertheless very active when it comes to online shopping.

	Germany				EU
	DESI 2017		DESI 2016		DESI 2017
	value	rank	value	rank	value
<b>3a1 News</b>	72%	→ 19	72%	16	70%
% individuals who used Internet in the last 3 months	2016		2015		2016
<b>3a2 Music, Videos and Games<sup>6</sup></b>	78%	17	NA		78%
% individuals who used Internet in the last 3 months	2016				2016
<b>3a3 Video on Demand<sup>7</sup></b>	23%	11	NA		21%
% individuals who used Internet in the last 3 months	2016				2016
<b>3b1 Video Calls</b>	31%	→ 27	31%	25	39%
% individuals who used Internet in the last 3 months	2016		2015		2016
<b>3b2 Social Networks</b>	56%	25	NA		63%
% individuals who used Internet in the last 3 months	2016		2015		2016
<b>3c1 Banking</b>	59%	↑ 16	58%	16	59%
% individuals who used Internet in the last 3 months	2016		2015		2016
<b>3c2 Shopping</b>	82%	→ 3	82%	2	66%
% internet users (last year)	2016		2015		2016

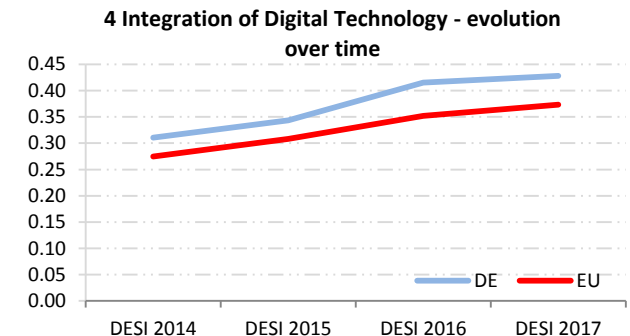
3 Use of Internet	Germany		Cluster	EU
	rank	score	score	score
DESI 2017	18	0.47	0.45	0.48
DESI 2016	15	0.45	0.42	0.45



4) Integration of Digital Technology: Progress has been slow. Companies are however leading in the use of information sharing softwares. An increasing number of SMEs is engaged in eCommerce, their turnover from selling online is however decreasing.

	Germany				EU
	DESI 2017		DESI 2016		DESI 2017
	value	rank	value	rank	value
<b>4a1 Electronic Information Sharing</b>	56%	1	56%	1	36%
% enterprises	2015		2015		2015
<b>4a2 RFID</b>	4.0%	15	4.0%	15	3.9%
% enterprises	2014		2014		2014
<b>4a3 Social Media</b>	18%	↑ 15	15%	16	20%
% enterprises	2016		2015		2016
<b>4a4 eInvoices</b>	16%	↑ 13	14%	13	18%
% enterprises	2016		2015		2016
<b>4a5 Cloud</b>	9%	21	NA		13%
% enterprises	2016		2015		2016
<b>4b1 SMEs Selling Online</b>	26%	↑ 5	24%	4	17%
% SMEs	2016		2015		2016
<b>4b2 eCommerce Turnover</b>	7.0%	↓ 20	9.6%	11	9.4%
% SME turnover	2016		2015		2016
<b>4b3 Selling Online Cross-border</b>	9.2%	11	9.2%	11	7.5%
% SMEs	2015		2015		2015

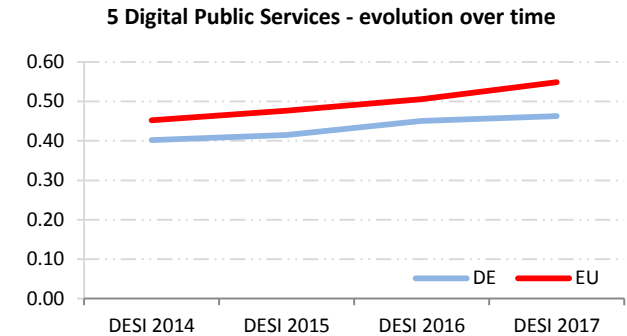
4 Integration of Digital Technology	Germany		Cluster	EU
	rank	score	score	score
DESI 2017	10	0.43	0.40	0.37
DESI 2016	7	0.42	0.37	0.35



5) Digital Public Services: Germany shows little progress in improving the online interaction between public authorities and citizens, and neither in increasing open data.

	Germany				EU
	DESI 2017 value	rank	DESI 2016 value	rank	DESI 2017 value
<b>5a1 eGovernment Users</b> % internet users (last year)	19%	→ 23	19%	23	34%
<b>5a2 Pre-filled Forms</b> Score (0 to 100)	38	↑ 17	34	18	49
<b>5a3 Online Service Completion</b> Score (0 to 100)	83	→ 17	83	17	82
<b>5a4 Open Data<sup>8</sup></b> % of maximum score	51%	→ 20	51%	10	59%

5 Digital Public Services	Germany		Cluster	EU
	rank	score	score	score
DESI 2017	20	0.46	0.59	0.55
DESI 2016	20	0.45	0.56	0.51



**Methodological note**

- <sup>1</sup> **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.
- <sup>2</sup> **4G coverage:** This is a new DESI indicator measuring the average coverage of telecom operators' 4G networks.
- <sup>3</sup> **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.
- <sup>4</sup> **Fixed Broadband Price:** Due to a slight methodological change, historical data was re-calculated.
- <sup>5</sup> **ICT Specialists:** Historical data have been revised by Eurostat.
- <sup>6</sup> **Music, Videos and Games:** Break in series due to a change in the Eurostat survey.
- <sup>7</sup> **Video on Demand:** Break in series due to a change of data source. New source is Eurostat.
- <sup>8</sup> **Open Data:** Change of data source. The historical data have also been restated. The new source is the European Data Portal.