

18 July 2019

## Indicators of the Information and Communication Technology Sector (ICT) Year 2017

### Main results

- The turnover of companies in the ICT sector reached 96,750.3 million euros in 2017, with an increase of 7.4% over the previous year.
- The number of companies in the ICT sector which carried out R&D fell by 4.6% to 1,624.
- The trade deficit of companies in the ICT sector increased by 4.7%.

### Main variables in the ICT sector

The turnover of companies in the Information and Communication Technologies (ICT) sector stood at 96,750.3 million euros in 2017, representing an increase of 7.4% with respect to the previous year. These companies generated a value added of 34,416.3 million euros.

The number of companies in the ICT sector grew by 5.5% and stood at 69,821. The number of employed persons increased by 4.8% to 469,835.

### Main variables in the ICT sector. Year 2017

Economic data in million euros

ICT Sector (NACE-2009)	2017	Annual Rate
Number of enterprises	69,821	5.5
Turnover	96,750.3	7.4
Added value	34,416.3	7.9
Number of persons employed	469,835	4.8

Source: Structural business statistics: Industrial and Services sectors

### Wage costs in the ICT sector

The wage cost per worker in the ICT sector stood at 2,479.6 euros per month in the fourth quarter of 2017. The wage cost of manufacturing industry was 2,949.8 euros and that of ICT Services was 2,470.5 euros.

In terms of hourly wage costs, the highest were recorded in Telecommunications (25.7), Manufacturing (21.0) and Programming, consultancy and other computer-related activities (20.3).

### Wage cost in the ICT sector. Fourth quarter of 2017

Euros

2017 Quarter IV. ICT Sector (NACE 2009)	Wage cost per hour	Total wage cost per worker
ICT INDUSTRIES: Manufacture of computer, electronic and optical products (NACE 26)	21.0	2,949.8
ICT SERVICES	17.8	2,470.5
Wholesale trade, except of motor vehicles and motorcycles (NACE 46)	16.4	2,286.6
Publishing activities (NACE 58)	19.2	2,646.9
Telecommunications (NACE 61)	25.7	3,495.9
Computer programming, consultancy and related activities (NACE 62)	20.3	2,862.1
Information service activities (NACE 63)	17.3	2,220.6
Repair of computers and personal and household goods (NACE 95)	13.3	1,799.9
<b>ICT SECTOR</b>	<b>17.8</b>	<b>2,479.6</b>

Source: Quarterly Labour Cost Survey

### Companies in the ICT sector which carried out R&D activities

The number of companies in the ICT sector that carried out R&D activities in 2017 fell by 4.6%. Specifically, there were 1,624, which represented 16.0% of the business total that carried out this type of activity.

Employed personnel (full-time equivalents) increased by 2.4%. The number of female researchers grew by 7.2% and the number of researchers in general by 5.1%.

### R&D activities in the ICT sector. Year 2017

NACE 2009	Total	% of business total	Annual Rate
Number of enterprises	1,624	16.0	-4.6
Internal R&D expenditure*	987.4	12.8	-1.5
Persons employed on R&D. Total (FTE)**	17,208.5	18.0	2.4
Persons employed on R&D. Women (FTE)**	3,885.1	13.0	3.8
Researchers. Total (FTE)**	8,709.6	17.6	5.1
Researchers. Women (FTE)**	1,868.8	12.0	7.2

Source: Statistics on R&D Activities

\*millions of euros

\*\*FTE=Full-time Equivalent

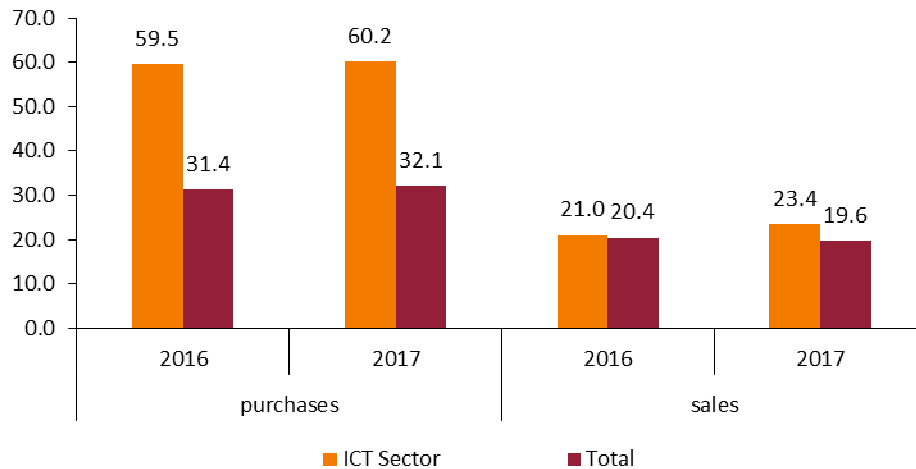
### Companies in the ICT sector that carried out e-commerce

In 2017, 60.2% of the companies in the ICT sector with 10 or more employees made purchases through E-commerce as compared to 32.1% of the total of the business sector.

On the other hand, 23.4% made sales through electronic commerce, compared to 19.6% of the business total.

## Companies engaged in e-commerce (2016-2017)

Percentage



Source: Survey on ICT usage and e-commerce in enterprises

Companies in the ICT sector made e-commerce sales worth 12,184.7 million euros, representing 4.7% of total e-commerce sales.

In terms of purchases, companies in the ICT sector spent 10,768.4 million on e-commerce, 5.3% of total purchases.

## Production value of ICT goods

According to the Industrial Products Survey, the value of the production of ICT goods was 2,842.5 million euros in 2017, with a decrease of 3.6% as compared with the previous year.

The group where it decreased the most was Telecommunications Equipment (-18.1%).

## Value of the production of goods in the ICT sector.

Million euros

Groups of products (PRODCOM)	Value	% of ICT sector	% of industrial sector	Annual Rate
1. Communication equipments	497.0	17.5	0.1	-18.1
2. Computers and peripheral equipments	153.8	5.4	0.0	-2.3
3. Electronic components	758.8	26.7	0.2	0.6
4. Audio and video equipment	196.2	6.9	0.0	-0.6
5. Miscellaneous	1,236.7	43.5	0.3	0.3
TOTAL ICT sector	2,842.5	100.0	0.7	-3.6
TOTAL industrial production	413,372.1	...	100.0	8.1

Source: Industrial Products Survey

The production value of ICT goods accounted for 0.7% of the total value of the industrial production in 2017.

## Foreign trade of ICT products

The trade balance of ICT products presented a negative balance of 12,645.2 million euros in 2017, with an increase in the trade deficit of 4.7% over the previous year.

Total exports amounted to 5,733.3 million euros, while imports reached 18,378.5 million euros.

### Foreign trade in ICT products. Year 2017

Million euros

Groups of products (CN*)	Exports	Imports	Trade balance	Coverage rate	Annual rate of trade balance
1. Communication equipments	1,356.6	6,191.7	-4,835.1	21.9	6.4
2. Computers and peripheral equipments	953.9	4,383.4	-3,429.5	21.8	14.3
3. Electronic components	992.2	1,764.0	-771.8	56.2	-4.6
4. Audio and video equipment	821.1	2,965.7	-2,144.6	27.7	4.1
5. Miscellaneous	1,609.4	3,073.7	-1,464.2	52.4	-11.9
TOTAL ICT sector	5,733.3	18,378.5	-12,645.2	31.2	4.7
TOTAL	276,142.9	302,431.2	-26,288.3	91.3	51.2

Source: Own elaboration based on data from Tax Administration

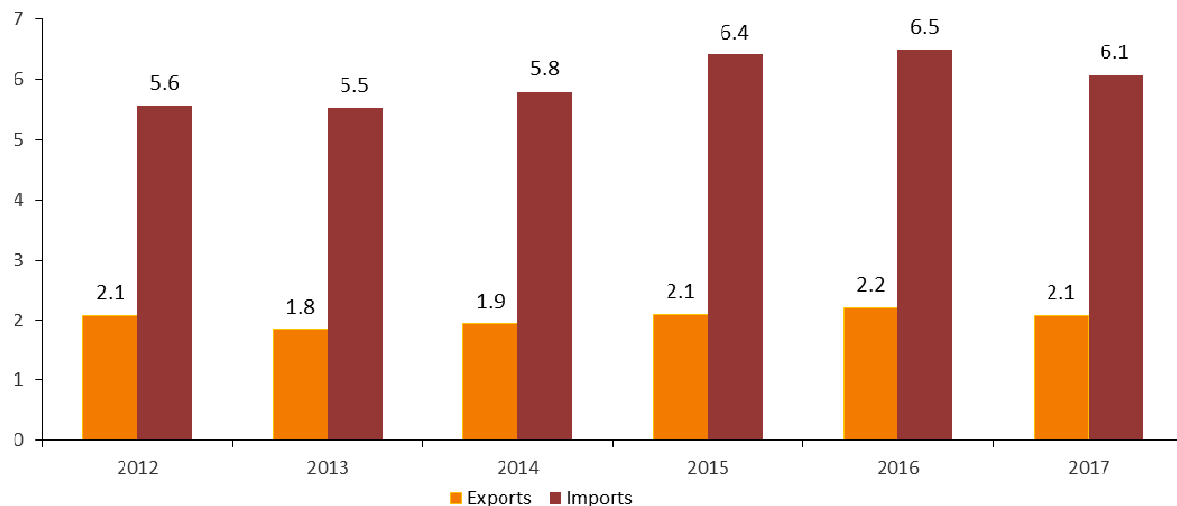
(\*)Combined Nomenclature

The exports of the ICT sector represented 2.1% of the Spanish exports in 2017, compared to 2.2% in 2016.

The imports represented 6.1% of the national imports, compared with 6.5% the previous year.

### Foreign trade in ICT products. 2012-2017

Percentages



Source: Own elaboration based on data from Tax Administration

## Revisions and updating of data

The data published today are final. The results are available at INEBase. The 2017 Innovation Indicators for the ICT sector will be published as they become available.

## Methodological note

The main objective of the Information and Communication Technologies (ICT) Indicators' sector is to show the situation of the sector on the supply side, and not on the use side, in order to offer relevant information on manufacturing and service industries whose main activity is linked to the development, production, commercialisation and intensive use of information technologies. These sectors are characterised by high rates of innovation, technological progress and productivity, and therefore they have a substantial impact on economic activity.

In order to develop the indicators, information from other statistical operations is collected. Tables with overall values of the ICT sector are published with the following variables: turnover, production value, added value, employed persons and other variables specific to the sector (classification variables, branch of activity and type of product), exports and imports.

**Type of survey:** summary statistics on an annual basis.

**Population scope:** national companies whose main activity (manufacturing, commercial or services) corresponds to the ICT scope.

**Geographical scope:** the entire national territory.

**Reference period:** the calendar year.

**Collection method:** synthesis of different statistical operations.

For more information you can access the methodology and the standardized methodological report at:

[http://www.ine.es/dyngs/INEbase/es/operacion.htm?c=Estadistica\\_C&cid=1254736176742&menu=metodologia&idp=1254735576692](http://www.ine.es/dyngs/INEbase/es/operacion.htm?c=Estadistica_C&cid=1254736176742&menu=metodologia&idp=1254735576692)

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