

23 July 2019

Modified at 11:30

High Technology Indicators Year 2017

The turnover of high and medium-high technology companies grew by 6.2% in 2017, to 265,474 million euros.

Exports of High Technology products increased by 8,5% and imports did so by 13.4%

In 2017, high- and medium-high technology companies achieved a turnover of

265,474 million euros, with an increase of 6.2% over the previous year. This figure generated an added value of 76,569 million.

By sector, the turnover of high and medium-high technology manufacturing companies grew by 5.7% to 183,989 million euros.

For their part, companies in the high technology services sector had a turnover of 81,485 million euros, a 7.5% increase.

Main High Technology indicators Year 2017

Economic data in thousands of euros

NACE 2009

	Number of enterprises	Turnover	Annual rate of turnover compared to 2016
Manufacture sectors of high and medium-high technology	21,050	183,989,135	5.7%
Manufacture sectors of high technology	2,790	27,413,754	3.2%
Manufacture sectors of medium-high technology	18,260	156,575,381	6.1%
High technology services	66,848	81,485,206	7.5%
Total of high and medium-high technology sectors	87,898	265,474,341	6.2%

Source: Structural Business Statistic

Employment in the High Technology sectors

Employment in high-tech sectors increased 6.6% in 2017, according to the Economically Active Population Survey (EAPS).

By sector, the number of employed grew 6.6% in high-tech manufacturing and 5.3% in medium-high technology. In turn, occupancy in high-tech services increased by 7.9%.

The high and medium-high technology sectors employed 7.3% of the total employed in the Spanish economy in 2017. 28.9% of the total persons employed in these sectors were women.

Employed in high-tech sectors. Year 2017

Thousands of people and percentages

NACE 2009	Persons employed 2017	% Women 2017	Annual rate of persons employed compared to 2016
Manufacture sectors of high and medium-high technology	775.3	62.8	5.6
Manufacture sectors of high technology	146.6	39.4	6.6
Manufacture sectors of medium-high technology	628.7	23.4	5.3
High technology services	592.9	32.1	7.9
Total of high and medium-high technology sectors	1,368.2	28.9	6.6
Total of persons employed	18,824.8	45.5	2.6

Source: Labour Force Survey (annual average)

R&D in high technology sectors

Companies in the high and medium-high technology sectors invested 5,140.3 million euros in R&D in 2017, 6.4% more than in the previous year.

This figure accounted for 66.5% of the total expenditure of the business sector in R&D activities.

Internal expenditure on R&D in high technology sectors. Year 2017

Millions of euros and percentages

NACE 2009	Total expenditures	% Expenditures	%variation of expenditures compared to 2016
Manufacture sectors of high and medium-high technology	2,672.2	34.6	7.7
Manufacture sectors of high technology	1,304.4	16.9	8.1
Manufacture sectors of medium-high technology	1,367.7	17.7	7.4
High technology services	2,468.2	31.9	4.9
Total of high and medium-high technology sectors	5,140.3	66.5	6.4
Total enterprises sector	7,729.2	100.0	8.5

Source: Statistics on R&D. Enterprises sector

The Full-time Equivalent (FTE) personnel dedicated to R&D tasks in the high and medium-high technology sector was 62,073.3, 4.9% more than the previous year.

The branches of the high technology sector concentrated 64.9% of the total personnel dedicated to R&D (in FTE) in the business sector and 68.7% of the researchers.

R&D personnel in high-tech sectors. Year 2017

Persons in Full-Time Equivalent (FTE)

NACE 2009	Total personnel	% Personnel	% Researchers	% variation of personnel compared to 2016
Manufacture sectors of high and medium-high technology	28,156.1	29.4	28.0	6.0
Manufacture sectors of high technology	11,182.3	11.7	12.4	5.9
Manufacture sectors of medium-high technology	16,973.8	17.7	15.6	6.0
High technology services	33,917.2	35.5	40.7	4.1
Total of high and medium-high technology sectors	62,073.3	64.9	68.7	4.9
Total enterprises sector	95,667.3	100.0	100.0	6.1

Source: Statistics on R&D. Enterprises sector

Production value of high technology goods

According to the Annual Industrial Products Survey, the production value of high-technology goods increased 7.0% in 2017, reaching 9,298.4 million euros.

Production value of high-tech products by type of product. Year 2017

Million euros

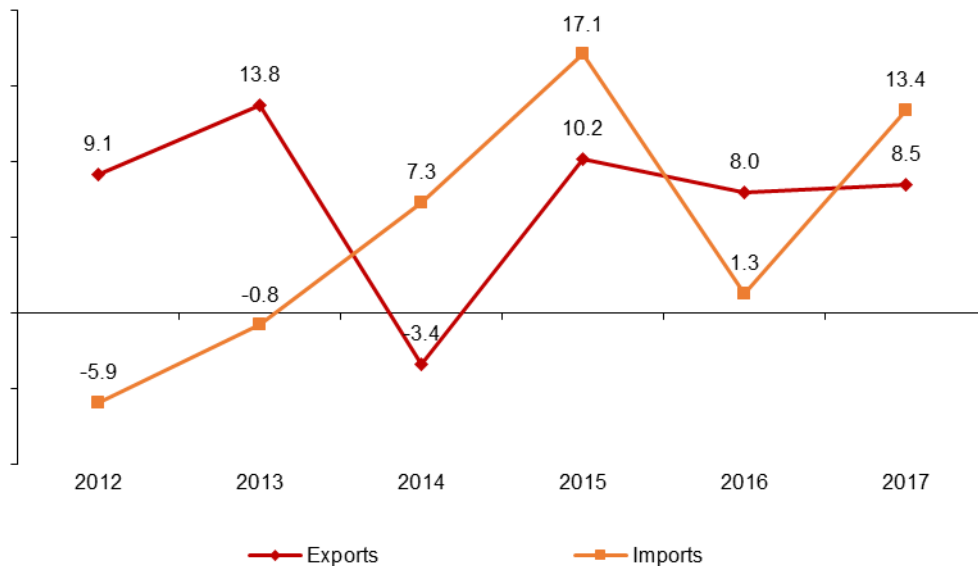
Group of products	2016 year	2017 year	% variation compared to 2016
1. Aeronautical and spacial construction	691.4	826.3	19.5
2. Office machinery and computer equipment	121.6	123.0	1.2
3. Electronic material; radio, TV and communications equipment and devi	1,692.9	1,817.5	7.4
4. Pharmaceutical products	2,006.4	2,096.9	4.5
5. Scientific instruments	987.0	987.7	0.1
6. Machinery and electrical equipment	167.8	418.7	149.5
7. Chemical products	1,772.0	1,880.5	6.1
8. Material and mechanical equipment	724.8	897.2	23.8
9. Weapons and ammunition	524.2	250.6	-52.2
Total of high technology products	8,688.1	9,298.4	7.0
Total of industrial production	382,440.5	413,372.1	8.1

Source: Industrial Products Survey

Foreign trade of High Technology products

Exports of high-tech products increased by 8.5% in 2017, reaching 16,193.7 million euros. Imports grew by 13.4%, to 29,179.3 million.

Annual variation in high-tech exports and imports. Percentage



Source: Own elaboration based on data from Tax Administration

The highest coverage rate (ratio between exports and imports, expressed as a percentage) in foreign trade of high technology products corresponded to the group of *Arms and ammunition* (313.9%).

On the other hand, the group of *Office machinery and computer equipment* presented the lowest rate (22.3%).

Foreign trade of high-tech products by groups of products. Year 2017

Million euros

Group of products	Value of exports	Value of imports	Trade balance	Coverage rate (%)
1. Aeronautical and spacial construction	4,298.7	4,257.8	40.9	101.0
2. Office maquinery and computer equipment	1,039.7	4,672.6	-3,632.9	22.3
3. Electronic material; radio, TV and communications equipment and devic	2,450.9	8,668.0	-6,217.1	28.3
4. Pharmaceutical products	3,658.9	4,724.5	-1,065.6	77.4
5. Scientific instruments	1,381.9	3,551.4	-2,169.5	38.9
6. Maquinery and electrical equipment	338.2	981.1	-642.9	34.5
7. Chemical products	1,761.6	1,497.7	263.9	117.6
8. Material and mechanical equipment	781.8	672.6	109.2	116.2
9. Weapons and ammunition	482.0	153.6	328.4	313.9
Total of high technology products	16,193.7	29,179.3	-12,985.6	55.5
Total of industrial production	276,142.9	302,431.2	-26,288.3	91.3

Source: Own elaboration based on data from Tax Administration

Data review and update

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

Methodological note

The High Technology Indicators are obtained as summary statistics with the purpose of providing data on sectors and products considered high technology (industrial or services sectors) according to the criteria of the methodology proposed by the OECD.

For the branches of activity, R&D and innovation indicators are offered, such as: expenditure, personnel, employed, business figures, production value, added value, number of companies, innovation intensity. For high-tech products, the value of production, imports and exports is provided.

Type of operation: synthesis statistics on an annual basis.

Geographical scope: the entire national territory.

Reference period: t-2 where t is the year of the data's publication.

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/dynt3/metadatos/es/RespuestaDatos.html?oe=30197>

For further information see **INEbase**: www.ine.es/en/ Twitter: [@es_ine](https://twitter.com/es_ine)

All press releases at: www.ine.es/en/prensa/prensa_en.htm

Press office: Telephone numbers: (+34) 91 583 93 63 /94 08 – gprensa@ine.es

Information Area: Telephone number: (+34) 91 583 91 00 – www.ine.es/infoine/?L=1
