

■ Table 1.1.9 1 / 2

Federal Government expenditure on science, research and development to business enterprises, by economic activities¹

Millions of €				
Economic activity ²	ACTUAL			
	2014		2015	
	Total	Of which, direct project funding ³	Total	Of which, direct project funding ³
A 01-03 Agriculture, forestry and fishing	12.0	11.6	12.7	12.5
B 05-09 Mining and quarrying	2.4	0.7	2.6	0.8
C 10-33 Manufacturing	1,429.6	1,094.9	1,434.7	1,089.9
C 10-12 Manufacture of food products; manufacture of tobacco products	18.3	2.0	19.8	2.2
C 13-15 Manufacture of textiles and wearing apparel; manufacture of leather and related products	27.2	2.6	28.4	2.9
C 16-18 Manufacture of wood and products of wood and cork (except furniture); manufacture of paper and paper products; publishing, printing and reproduction of recorded media	11.5	1.6	12.0	1.8
C 19 Manufacture of coke and refined petroleum products	2.6	2.5	1.6	1.5
C 20-21 Manufacture of chemicals and chemical products; manufacture of basic pharmaceutical products and pharmaceutical preparations	97.7	75.1	92.0	68.7
C 22-23 Manufacture of rubber and plastic products; manufacture of other non-metallic mineral products	47.9	14.4	52.6	16.1
C 24-25 Manufacture of basic metals and fabricated metal products, except machinery and equipment	76.1	16.9	73.8	16.3
C 26 Manufacture of computer, electronic and optical products	378.5	322.4	381.1	318.8
C 27 Manufacture of electrical equipment	91.1	74.5	86.5	70.5
C 28 Manufacture of machinery and equipment n.e.c.	173.7	106.0	176.4	109.1
C 29-30 Manufacture of motor vehicles, trailers and semi-trailers, manufacture of other transport equipment	481.4	469.0	485.2	472.9
C 31-33 Manufacture of furniture, other manufacturing, repair and installation of machinery and equipment	23.5	8.0	25.4	9.1
D 35 Energy supply (without mining)	67.3	63.5	35.6	29.8
E 36-39 Water supply, sewerage, waste management and remediation activities	154.0	144.6	203.2	188.8
F 41-43 Construction	16.2	5.3	16.5	4.9
G 45-47 Wholesale and retail trade and repair of motor vehicles and motorcycles	7.2	2.6	8.8	3.2
H 49-53 Transportation and storage	29.1	24.5	37.2	33.2
I 55-56 Accommodation	0.1	0.1	0.2	0.1
J 58-63 Information and communication	112.4	85.6	111.6	81.5
K 64-66 Financial and insurance activities	24.0	12.7	38.8	24.6
L-T 68-98 Other service activities by enterprises and members of the professions⁴	553.0	393.5	599.8	427.3
Total expenditure⁵	2,407.3	1,839.7	2,501.6	1,896.6
Of which, R&D	2,217.5	1,653.0	2,302.2	1,697.2

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Federal Government expenditure on science, research and development to business enterprises, by economic activities¹

Millions of €				
Economic activity ²	ACTUAL			
	2016		2017	
	Total	Of which, direct project funding ³	Total	Of which, direct project funding ³
A 01-03 Agriculture, forestry and fishing	16.7	16.3	29.4	28.2
B 05-09 Mining and quarrying	2.5	0.7	2.3	0.8
C 10-33 Manufacturing	1,410.8	1,074.4	1,585.9	1,241.2
C 10-12 Manufacture of food products; manufacture of tobacco products	20.2	2.0	14.5	1.9
C 13-15 Manufacture of textiles and wearing apparel; manufacture of leather and related products	27.0	3.7	19.9	4.4
C 16-18 Manufacture of wood and products of wood and cork (except furniture); manufacture of paper and paper products; publishing, printing and reproduction of recorded media	12.4	2.1	10.2	2.6
C 19 Manufacture of coke and refined petroleum products	3.1	3.0	2.4	2.2
C 20-21 Manufacture of chemicals and chemical products; manufacture of basic pharmaceutical products and pharmaceutical preparations	89.9	67.1	85.5	57.1
C 22-23 Manufacture of rubber and plastic products; manufacture of other non-metallic mineral products	53.4	16.9	48.6	17.9
C 24-25 Manufacture of basic metals and fabricated metal products, except machinery and equipment	80.3	18.9	61.3	22.9
C 26 Manufacture of computer, electronic and optical products	360.3	302.8	412.6	362.4
C 27 Manufacture of electrical equipment	85.5	71.9	80.6	68.0
C 28 Manufacture of machinery and equipment n.e.c.	177.9	114.7	213.5	128.6
C 29-30 Manufacture of motor vehicles, trailers and semi-trailers, manufacture of other transport equipment	476.2	463.8	612.1	563.7
C 31-33 Manufacture of furniture, other manufacturing, repair and installation of machinery and equipment	24.5	7.5	24.6	9.4
D 35 Energy supply (without mining)	37.8	27.8	34.8	26.1
E 36-39 Water supply, sewerage, waste management and remediation activities	243.7	233.7	275.7	262.3
F 41-43 Construction	17.6	6.0	23.2	7.2
G 45-47 Wholesale and retail trade and repair of motor vehicles and motorcycles	11.9	2.8	14.3	2.7
H 49-53 Transportation and storage	45.4	41.9	43.0	38.5
I 55-56 Accommodation	0.3	0.2	0.2	0.2
J 58-63 Information and communication	128.8	88.6	137.1	105.5
K 64-66 Financial and insurance activities	32.3	27.3	17.8	17.5
L-T 68-98 Other service activities by enterprises and members of the professions⁴	677.4	471.6	767.8	550.1
Total expenditure⁵	2,625.1	1,991.0	2,931.5	2,280.3
Of which, R&D	2,362.6	1,733.3	2,608.6	1,963.6

1 Including "Energy and climate fund". Research funding in the area of electro mobility is financed by the "Energy and climate fund". 2016, including future investments. Possible rounding differences.

2 Breakdown pursuant to Classification of Economic Activities - 2008 edition (based on NACE 2008 - Nomenclature statistique des activités économiques dans la Communauté européenne).

3 Including expenditures for contracts in the framework of ministerial and defence-related R&D.

4 Including research and development in business enterprise institutions.

5 Differences with regard to the figures in table 1.1.8 may be due to rounding.

Last update: February 2019

This table also appears in the Federal Report on Research and Innovation as Table 12.

Source: Special evaluation of the Federal Ministry of Education and Research

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<https://www.govdata.de/dl-de/by-2-0>