

■ 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			
	2015		2016	
	Total	Of which, direct project funding ³	Total	Of which, direct project funding ³
A 01-03 Agriculture, forestry and fishing	12.7	12.5	16.7	16.3
B 05-09 Mining and quarrying	2.6	0.8	2.5	0.7
C 10-33 Manufacturing	1,434.7	1,089.9	1,410.8	1,074.4
C 10-12 Manufacture of food products; manufacture of tobacco products	19.8	2.2	20.2	2.0
C 13-15 Manufacture of textiles and wearing apparel; manufacture of leather and related products	28.4	2.9	27.0	3.7
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	12.0	1.8	12.4	2.1
C 19 Manufacture of coke and refined petroleum products	1.6	1.5	3.1	3.0
C 20-21 Manufacture of chemicals and chemical products; manufacture of basic pharmaceutical products and pharmaceutical preparations	92.0	68.7	89.9	67.1
C 22-23 Manufacture of rubber and plastic products; manufacture of other non-metallic mineral products	52.6	16.1	53.4	16.9
C 24-25 Manufacture of basic metals and fabricated metal products, except machinery and equipment	73.8	16.3	80.3	18.9
C 26 Manufacture of computer, electronic and optical products	381.1	318.8	360.3	302.8
C 27 Manufacture of electrical equipment	86.5	70.5	85.5	71.9
C 28 Manufacture of machinery and equipment n.e.c.	176.4	109.1	177.9	114.7
C 29-30 Manufacture of motor vehicles, trailers and semi-trailers, manufacture of other transport equipment	485.2	472.9	476.2	463.8
C 31-33 Manufacture of furniture, other manufacturing, repair and installation of machinery and equipment	25.4	9.1	24.5	7.5
D 35 Energy supply (without mining)	35.6	29.8	37.8	27.8
E 36-39 Water supply, sewerage, waste management and remediation activities	203.2	188.8	243.7	233.7
F 41-43 Construction	16.5	4.9	17.6	6.0
G 45-47 Wholesale and retail trade and repair of motor vehicles and motorcycles	8.8	3.2	11.9	2.8
H 49-53 Transportation and storage	37.2	33.2	45.4	41.9
I 55-56 Accommodation	0.2	0.1	0.3	0.2
J 58-63 Information and communication	111.6	81.5	128.8	88.6
K 64-66 Financial and insurance activities	38.8	24.6	32.3	27.3
L-T 68-98 Other service activities by enterprises and members of the professions⁴	599.8	427.3	677.4	471.6
Total expenditure⁵	2,501.6	1,896.6	2,625.1	1,991.0
Of which, R&D	2,302.2	1,697.2	2,362.6	1,733.3

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

Millions of €				
Economic activity ²	ACTUAL			
	2017		2018	
	Total	Of which, direct project funding ³	Total	Of which, direct project funding ³
A 01-03 Agriculture, forestry and fishing	29.4	28.2	39.7	38.5
B 05-09 Mining and quarrying	2.3	0.8	2.5	1.0
C 10-33 Manufacturing	1,585.9	1,241.2	1,523.1	1,211.4
C 10-12 Manufacture of food products; manufacture of tobacco products	14.5	1.9	13.7	1.7
C 13-15 Manufacture of textiles and wearing apparel; manufacture of leather and related products	19.9	4.4	18.3	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	10.2	2.6	10.3	2.6
C 19 Manufacture of coke and refined petroleum products	2.4	2.2	0.2	0.1
C 20-21 Manufacture of chemicals and chemical products; manufacture of basic pharmaceutical products and pharmaceutical preparations	85.5	57.1	78.0	52.9
C 22-23 Manufacture of rubber and plastic products; manufacture of other non-metallic mineral products	48.6	17.9	48.6	19.8
C 24-25 Manufacture of basic metals and fabricated metal products, except machinery and equipment	61.3	22.9	62.7	26.3
C 26 Manufacture of computer, electronic and optical products	412.6	362.4	385.5	337.9
C 27 Manufacture of electrical equipment	80.6	68.0	83.9	73.1
C 28 Manufacture of machinery and equipment n.e.c.	213.5	128.6	201.8	121.9
C 29-30 Manufacture of motor vehicles, trailers and semi-trailers, manufacture of other transport equipment	612.1	563.7	600.2	562.2
C 31-33 Manufacture of furniture, other manufacturing, repair and installation of machinery and equipment	24.6	9.4	19.8	8.7
D 35 Energy supply (without mining)	34.8	26.1	67.1	58.2
E 36-39 Water supply, sewerage, waste management and remediation activities	275.7	262.3	290.0	281.0
F 41-43 Construction	23.2	7.2	25.7	6.7
G 45-47 Wholesale and retail trade and repair of motor vehicles and motorcycles	14.3	2.7	14.5	3.6
H 49-53 Transportation and storage	43.0	38.5	52.5	47.9
I 55-56 Accommodation	0.2	0.2	0.2	0.1
J 58-63 Information and communication	137.1	105.5	158.7	118.4
K 64-66 Financial and insurance activities	17.8	17.5	35.6	35.4
L-T 68-98 Other service activities by enterprises and members of the professions⁴	767.8	550.0	813.9	635.5
Total expenditure⁵	2,931.5	2,280.2	3,023.6	2,437.5
Of which, R&D	2,608.5	1,963.6	2,665.3	2,094.9

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.

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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>