

■ 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			
	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	550.0
Total expenditure⁵	2,625.1	1,991.0	2,931.5	2,280.2
Of which, R&D	2,362.6	1,733.3	2,608.5	1,963.6

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

Millions of €				
Economic activity ²	ACTUAL			
	2018		2019	
	Total	Of which, direct project funding ³	Total	Of which, direct project funding ³
A 01-03 Agriculture, forestry and fishing	39.7	38.5	19.1	18.1
B 05-09 Mining and quarrying	2.5	1.0	3.1	1.1
C 10-33 Manufacturing	1,523.1	1,211.4	2,008.5	1,695.7
C 10-12 Manufacture of food products; manufacture of tobacco products	13.7	1.7	13.1	2.3
C 13-15 Manufacture of textiles and wearing apparel; manufacture of leather and related products	18.3	4.4	17.0	3.2
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	10.3	2.6	11.1	3.2
C 19 Manufacture of coke and refined petroleum products	0.2	0.1	0.1	0.1
C 20-21 Manufacture of chemicals and chemical products; manufacture of basic pharmaceutical products and pharmaceutical preparations	78.0	52.9	75.9	50.7
C 22-23 Manufacture of rubber and plastic products; manufacture of other non-metallic mineral products	48.6	19.8	52.7	21.4
C 24-25 Manufacture of basic metals and fabricated metal products, except machinery and equipment	62.7	26.3	66.3	28.5
C 26 Manufacture of computer, electronic and optical products	385.5	337.9	647.8	603.7
C 27 Manufacture of electrical equipment	83.9	73.1	191.8	179.6
C 28 Manufacture of machinery and equipment n.e.c.	201.8	121.9	245.7	168.4
C 29-30 Manufacture of motor vehicles, trailers and semi-trailers, manufacture of other transport equipment	600.2	562.2	663.4	625.2
C 31-33 Manufacture of furniture, other manufacturing, repair and installation of machinery and equipment	19.8	8.7	23.8	9.4
D 35 Energy supply (without mining)	67.1	58.2	78.2	69.4
E 36-39 Water supply, sewerage, waste management and remediation activities	290.0	281.0	299.4	290.5
F 41-43 Construction	25.7	6.7	26.8	7.5
G 45-47 Wholesale and retail trade and repair of motor vehicles and motorcycles	14.5	3.6	19.6	5.9
H 49-53 Transportation and storage	52.5	47.9	53.7	48.6
I 55-56 Accommodation	0.2	0.1	0.6	0.2
J 58-63 Information and communication	158.7	118.4	180.0	136.1
K 64-66 Financial and insurance activities	35.6	35.4	23.9	22.8
L-T 68-98 Other service activities by enterprises and members of the professions⁴	813.9	635.5	916.5	714.1
Total expenditure⁵	3,023.6	2,437.5	3,629.6	3,010.0
Of which, R&D	2,665.3	2,094.9	3,281.0	2,678.7

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

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