

■ Table 1.1.9 1 / 2

**Federal Government expenditure on science, research and development to business enterprises, by economic activities<sup>1</sup>**

Millions of €				
Economic activity <sup>2</sup>	ACTUAL			
	2017		2018	
	Total	Of which, direct project funding <sup>3</sup>	Total	Of which, direct project funding <sup>3</sup>
<b>A 01-03 Agriculture, forestry and fishing</b>	29.4	28.2	39.7	38.5
<b>B 05-09 Mining and quarrying</b>	2.3	0.8	2.5	1
<b>C 10-33 Manufacturing</b>	1585.9	1241.2	1523.1	1211.4
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	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	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
<b>D 35 Energy supply (without mining)</b>	34.8	26.1	67.1	58.2
<b>E 36-39 Water supply, sewerage, waste management and remediation activities</b>	275.7	262.3	290	281
<b>F 41-43 Construction</b>	23.2	7.2	25.7	6.7
<b>G 45-47 Wholesale and retail trade and repair of motor vehicles and motorcycles</b>	14.3	2.7	14.5	3.6
<b>H 49-53 Transportation and storage</b>	43	38.5	52.5	47.9
<b>I 55-56 Accommodation</b>	0.2	0.2	0.2	0.1
<b>J 58-63 Information and communication</b>	137.1	105.5	158.7	118.4
<b>K 64-66 Financial and insurance activities</b>	17.8	17.5	35.6	35.4
<b>L-T 68-98 Other service activities by enterprises and members of the professions<sup>4</sup></b>	767.8	550	813.9	635.5
<b>Total expenditure<sup>5</sup></b>	<b>2931.5</b>	<b>2280.2</b>	<b>3023.6</b>	<b>2437.5</b>
Of which, R&D	2608.5	1963.6	2665.3	2094.9

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**Federal Government expenditure on science, research and development to business enterprises, by economic activities<sup>1</sup>**

Millions of €				
Economic activity <sup>2</sup>	ACTUAL			
	2019		2020	
	Total	Of which, direct project funding <sup>3</sup>	Total	Of which, direct project funding <sup>3</sup>
<b>A 01-03 Agriculture, forestry and fishing</b>	19.1	18.1	32.4	32.2
<b>B 05-09 Mining and quarrying</b>	3.1	1.1	3	1.2
<b>C 10-33 Manufacturing</b>	2008.5	1695.7	2471.9	2149.2
C 10-12 Manufacture of food products; manufacture of tobacco products	13.1	2.3	15	3
C 13-15 Manufacture of textiles and wearing apparel; manufacture of leather and related products	17	3.2	17	2.7
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	11.1	3.2	11.2	3.3
C 19 Manufacture of coke and refined petroleum products	0.1	0.1	5.8	0.5
C 20-21 Manufacture of chemicals and chemical products; manufacture of basic pharmaceutical products and pharmaceutical preparations	75.9	50.7	516.2	497
C 22-23 Manufacture of rubber and plastic products; manufacture of other non-metallic mineral products	52.7	21.4	57.6	24.1
C 24-25 Manufacture of basic metals and fabricated metal products, except machinery and equipment	66.3	28.5	71.7	27.9
C 26 Manufacture of computer, electronic and optical products	647.8	603.7	627.5	588.9
C 27 Manufacture of electrical equipment	191.8	179.6	182	167.1
C 28 Manufacture of machinery and equipment n.e.c.	245.7	168.4	250.1	172.6
C 29-30 Manufacture of motor vehicles, trailers and semi-trailers, manufacture of other transport equipment	663.4	625.2	690.8	651.6
C 31-33 Manufacture of furniture, other manufacturing, repair and installation of machinery and equipment	23.8	9.4	27.2	10.6
<b>D 35 Energy supply (without mining)</b>	78.2	69.4	66.8	56.9
<b>E 36-39 Water supply, sewerage, waste management and remediation activities</b>	299.4	290.5	339.8	329.4
<b>F 41-43 Construction</b>	26.8	7.5	31.8	12.1
<b>G 45-47 Wholesale and retail trade and repair of motor vehicles and motorcycles</b>	19.6	5.9	29.5	10
<b>H 49-53 Transportation and storage</b>	53.7	48.6	77.2	71.5
<b>I 55-56 Accommodation</b>	0.6	0.2	0.6	0.3
<b>J 58-63 Information and communication</b>	180	136.1	205.2	150.6
<b>K 64-66 Financial and insurance activities</b>	23.9	22.8	37.8	37.3
<b>L-T 68-98 Other service activities by enterprises and members of the professions<sup>4</sup></b>	916.5	714.1	910.8	746.4
<b>Total expenditure<sup>5</sup></b>	<b>3629.6</b>	<b>3010</b>	<b>4206.8</b>	<b>3597.2</b>
Of which, R&D	3281	2678.7	3815.5	3216.9

1 Including "Energy and climate fund". Research funding in the area of electro mobility is financed by the "Energy and climate fund". Discrepancies with regard to earlier publications are due to subsequent changes of assignments to economic activities. 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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