

■ Table 1.8.8 1 / 2

Total innovation expenditure, by sector groups and employment size classes¹²

		Billions of €				
	Economic activity	2015	2016	2017	2018	2019
B 05-09	Mining and quarrying	0.3	0.2	0.2	0.2	0.2
C 10-33	Manufacturing	116.7	120.0	126.2	129.7	132.0
C 10-12	Manufacture of food products, beverages and tobacco products	2.5	2.2	3.3	3.3	3.3
C 13-15	Manufacture of textiles, wearing apparel and of leather and related products	0.9	0.9	1.0	1.0	1.0
C 16-18	Manufacture of wood (except furniture), paper and paper products; printing and reproduction of recorded media	1.6	1.5	1.2	1.5	1.3
C 19	Manufacture of coke and refined petroleum	0.5	0.5	0.3	0.3	0.3
C 20	Manufacture of chemicals and chemical products	7.2	7.1	8.0	7.8	7.7
C 21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	8.8	9.1	11.0	11.8	12.3
C 22	Manufacture of rubber and plastic products	2.3	2.5	2.9	2.8	2.6
C 23	Manufacture of other non-metallic mineral products	1.0	0.9	1.4	1.4	1.4
C 24	Manufacture of basic metals	1.9	2.1	2.1	1.9	2.0
C 25	Manufacture of fabricated metal products, except machinery and equipment	2.4	3.1	3.2	3.0	3.2
C 26	Manufacture of computer, electronic and optical	12.1	11.7	12.5	12.7	12.4
C 27	Manufacture of electrical equipment	7.4	7.9	8.9	9.2	9.7
C 28	Manufacture of machinery and equipment n.e.c.	14.3	15.4	15.4	15.8	16.0
C 29	Manufacture of motor vehicles, trailers and semi-trailers	45.9	47.0	47.4	49.3	50.6
C 30	Manufacture of other transport equipment	5.1	5.3	4.9	5.0	5.2
C 31-32	Manufacture of furniture; other manufacturing	1.8	1.8	1.9	1.9	2.0
C 33	Repair and installation of machinery and equipment	1.0	1.0	0.9	1.0	1.1
D 35, E 36-39	Electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities	5.2	4.1	3.3	4.0	4.4
D 35	Electricity, gas, steam and air conditioning supply	4.6	3.6	2.9	3.5	4.0
E 36-37	Water collection, treatment and supply; sewerage	0.2	0.3	0.1	0.1	0.2
E 38-39	Waste collection, treatment and disposal activities; materials recovery; remediation activities and other waste management services	0.4	0.2	0.3	0.3	0.2
G 46; H 49-53; J 58-63; K 64-66; M 69/70.2, 71-74; N 78-82	Business-related services	33.4	35.1	37.2	38.6	39.3
G 46	Wholesale trade (except of motor vehicles and motorcycles)	2.1	2.6	2.1	2.4	2.2
H 49-53	Transportation and storage	5.8	6.5	6.0	6.4	7.0
J 58-60	Publishing activities; motion picture, video and television programme production, sound recording and music publishing activities; programming and broadcasting activities	1.5	1.5	1.8	1.7	1.7
J 61-63	Telecommunications; computer programming, consultancy and related activities; information service activities	11.6	11.2	12.9	14.0	14.6
K 64-66	Financial and insurance activities	5.2	5.5	6.0	6.1	5.8
M 69/70.2	Legal and accounting activities; management consultancy activities	0.6	0.5	0.7	0.7	0.7
M 71-72	Architectural and engineering activities; technical testing and analysis; scientific research and development	5.0	5.2	5.5	5.1	5.2
M 73-74	Advertising and market research; other professional, scientific and technical activities	0.6	0.7	0.9	0.7	0.7
N 78-82	Other business services	1.1	1.4	1.3	1.4	1.4

■ Table 1.8.8 2 / 2

Total innovation expenditure, by sector groups and employment size classes¹²

						Billions of €				
Employment size class						2015	2016	2017	2018	2019
Enterprises with employees										
5	to	9				1.7	2.7	2.8	2.7	2.7
10	to	19				3.3	3.9	3.8	3.2	3.2
20	to	49				5.7	5.8	5.9	5.5	5.9
50	to	99				5.4	5.5	5.4	5.5	5.3
100	to	249				9.7	8.3	10.2	10.5	9.8
Subtotal						25.8	26.3	27.9	27.4	26.8
250	to	499				10.5	9.7	10.3	10.6	10.5
500	to	999				9.6	9.6	10.6	11.0	10.9
1,000	and more					109.8	113.9	118.1	123.5	127.6
Subtotal						129.8	133.2	138.9	145.1	149.0
Total						155.6	159.4	166.9	172.5	175.9

1 2017 data provisional. 2018 and 2019 data based on expectations/projected figures by the enterprises made in spring 2018. All data are projected on the population of enterprises with 5 or more employees. 2016 data revised with respect to last year's report. Possible rounding differences.

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

Last update: February 2019

This table also appears in the Federal Report on Research and Innovation as Table 43.

Source: Centre for European Economic Research - Mannheim Innovation Panel, special evaluation

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