

■ Table 1.8.25 1 / 2

Share of companies continuously conducting R&D, by sector groups and employment size classes¹²

		Share in %				
Economic activity/Employment size class		2019	2020	2021	2022	2023
B 05-09	Mining and quarrying	9.6	6.3	17.9	8.5	17.6
C 10-33	Manufacturing	18.9	19.3	20.0	20.5	21.2
C 10-12	Manufacture of food products, beverages and tobacco products	4.2	4.0	4.7	6.9	7.5
C 13-15	Manufacture of textiles, wearing apparel and of leather and related products	18.6	18.4	23.6	28.1	26.5
C 16-18	Manufacture of wood (except furniture), paper and paper products; printing and reproduction of recorded media	7.6	7.8	9.0	10.1	9.3
C 19	Manufacture of coke and refined petroleum products	26.1	33.3	22.0	19.8	12.8
C 20	Manufacture of chemicals and chemical products	69.0	59.1	57.9	57.4	59.1
C 21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	53.1	61.9	52.3	53.8	54.9
C 22	Manufacture of rubber and plastic products	24.4	25.7	24.3	24.6	26.1
C 23	Manufacture of other non-metallic mineral products	21.2	17.4	18.5	20.2	22.1
C 24	Manufacture of basic metals	26.7	29.4	24.8	21.8	18.3
C 25	Manufacture of fabricated metal products, except machinery and equipment	10.1	9.5	10.5	8.3	9.6
C 26	Manufacture of computer, electronic and optical products	55.0	56.5	54.1	57.1	56.1
C 27	Manufacture of electrical equipment	32.2	36.2	35.1	38.0	36.8
C 28	Manufacture of machinery and equipment n.e.c.	40.8	44.9	43.6	41.7	42.6
C 29	Manufacture of motor vehicles, trailers and semi-trailers	22.3	22.8	31.1	32.8	33.5
C 30	Manufacture of other transport equipment	40.9	47.7	51.8	49.4	57.3
C 31-32	Manufacture of furniture; other manufacturing	14.3	12.9	17.0	16.7	16.9
C 33	Repair and installation of machinery and equipment	12.3	12.3	10.6	16.6	17.2
D 35, E 36-39	Electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities	4.2	5.0	6.1	5.3	7.4
D 35	Electricity, gas, steam and air conditioning supply	8.7	10.4	9.0	8.6	12.5
E 36-37	Water collection, treatment and supply; sewerage	3.6	2.4	2.9	2.0	4.1
E 38-39	Waste collection, treatment and disposal activities; materials recovery; remediation activities and other waste management services	2.3	3.4	6.1	5.0	6.1
G 46; H 49-53; J 58-63; K 64-66; M 69/70.2, 71-74; N 78-82	Business-related services	7.6	8.7	9.7	10.0	10.7
G 46	Wholesale trade (except of motor vehicles and motorcycles)	3.4	7.2	7.1	6.3	7.8
H 49-53	Transportation and storage	2.8	1.5	1.6	1.7	2.5
J 58-60	Publishing activities; motion picture, video and television programme production, sound recording and music publishing activities; programming and broadcasting activities	15.1	11.4	13.5	16.7	16.1
J 61-63	Telecommunications; computer programming, consultancy and related activities; information service activities	31.1	33.5	39.5	38.9	41.4
K 64-66	Financial and insurance activities	6.9	6.0	7.9	10.7	8.0
M 69/70.2	Legal and accounting activities; management consultancy activities	3.7	6.5	5.4	6.1	6.1
M 71-72	Architectural and engineering activities; technical testing and analysis; scientific research and development	18.5	18.2	19.2	17.9	21.5
M 73-74	Advertising and market research; other professional, scientific and technical activities	10.5	7.7	11.1	12.8	13.1
N 78-82	Other business services	2.0	2.5	2.9	4.0	2.8

■ Table 1.8.25 2 / 2

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Share in %							
Economic activity/Employment size class			2019	2020	2021	2022	2023
Enterprises with employees							
5	to	9	5.3	6.2	7.0	7.1	6.7
10	to	19	8.7	8.6	9.0	9.1	11.5
20	to	49	11.3	13.0	14.0	15.2	16.9
50	to	99	18.6	21.8	20.9	20.4	21.2
100	to	249	30.6	28.6	33.5	33.8	31.6
Subtotal			9.9	10.6	11.5	11.8	12.6
250	to	499	42.6	42.4	45.1	46.7	39.6
500	to	999	43.5	48.2	47.6	44.3	46.7
1,000	and more		60.5	62.5	63.1	64.7	65.3
Subtotal			45.9	47.2	48.8	49.1	45.7
Total			10.9	11.8	12.6	12.9	13.6

1 All data are projected on the population of enterprises with 5 or more employees.

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

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

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