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Share of companies continuously conducting R&D, by sector groups and employment size classes^{1,2}

		Share in %				
	Economic activity/Employment size class	2017	2018	2019	2020	2021
B 05-09	Mining and quarrying	4.2	3.0	9.6	6.3	17.9
C 10-33	Manufacturing	18.0	19.3	18.9	19.3	20.0
C 10-12	Manufacture of food products, beverages and tobacco products	4.7	5.0	4.2	4.0	4.7
C 13-15	Manufacture of textiles, wearing apparel and of leather and related products	16.8	18.2	18.6	18.4	23.6
C 16-18	Manufacture of wood (except furniture), paper and paper products; printing and reproduction of recorded media	7.0	10.2	7.6	7.8	9.0
C 19	Manufacture of coke and refined petroleum products	32.6	38.8	26.1	33.3	22.0
C 20	Manufacture of chemicals and chemical products	50.6	63.3	69.0	59.1	57.9
C 21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	58.6	52.8	53.1	61.9	52.3
C 22	Manufacture of rubber and plastic products	21.4	23.8	24.4	25.7	24.3
C 23	Manufacture of other non-metallic mineral products	19.5	20.2	21.2	17.4	18.5
C 24	Manufacture of basic metals	20.9	20.3	26.7	29.4	24.8
C 25	Manufacture of fabricated metal products, except machinery and equipment	10.6	9.2	10.1	9.5	10.5
C 26	Manufacture of computer, electronic and optical products	55.6	54.0	55.0	56.5	54.1
C 27	Manufacture of electrical equipment	27.9	39.0	32.2	36.2	35.1
C 28	Manufacture of machinery and equipment n.e.c.	34.5	39.4	40.8	44.9	43.6
C 29	Manufacture of motor vehicles, trailers and semi-trailers	27.7	24.6	22.3	22.8	31.1
C 30	Manufacture of other transport equipment	46.1	45.2	40.9	47.7	51.8
C 31-32	Manufacture of furniture; other manufacturing	14.3	15.5	14.3	12.9	17.0
C 33	Repair and installation of machinery and equipment	13.8	9.7	12.3	12.3	10.6
D 35, E 36-39	Electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities	4.2	5.2	4.2	5.0	6.1
D 35	Electricity, gas, steam and air conditioning supply	8.6	4.6	8.7	10.4	9.0
E 36-37	Water collection, treatment and supply; sewerage	2.6	3.7	3.6	2.4	2.9
E 38-39	Waste collection, treatment and disposal activities; materials recovery; remediation activities and other waste management services	2.8	6.3	2.3	3.4	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	7.8	7.6	8.7	9.7
G 46	Wholesale trade (except of motor vehicles and motorcycles)	4.4	3.7	3.4	7.2	7.1
H 49-53	Transportation and storage	1.4	1.9	2.8	1.5	1.6
J 58-60	Publishing activities; motion picture, video and television programme production, sound recording and music publishing activities; programming and broadcasting activities	18.7	18.6	15.1	11.4	13.5
J 61-63	Telecommunications; computer programming, consultancy and related activities; information service activities	30.6	31.0	31.1	33.5	39.5
K 64-66	Financial and insurance activities	5.7	6.1	6.9	6.0	7.9
M 69/70.2	Legal and accounting activities; management consultancy activities	2.4	3.1	3.7	6.5	5.4
M 71-72	Architectural and engineering activities; technical testing and analysis; scientific research and development	17.9	18.8	18.5	18.2	19.2
M 73-74	Advertising and market research; other professional, scientific and technical activities	10.0	10.3	10.5	7.7	11.1
N 78-82	Other business services	2.7	2.0	2.0	2.5	2.9

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Share in %									
Economic activity/Employment size class					2017	2018	2019	2020	2021
Enterprises with employees									
5	to	9			6.4	5.6	5.3	6.2	7.0
10	to	19			9.0	7.4	8.7	8.6	9.0
20	to	49			11.1	12.9	11.3	13.0	14.0
50	to	99			17.7	21.3	18.6	21.8	20.9
100	to	249			23.8	30.4	30.6	28.6	33.5
Subtotal					9.9	10.1	9.9	10.6	11.5
250	to	499			32.1	39.2	42.6	42.4	45.1
500	to	999			46.4	46.8	43.5	48.2	47.6
1,000	and more				63.1	65.7	60.5	62.5	63.1
Subtotal					40.8	45.6	45.9	47.2	48.8
Total					10.8	11.3	10.9	11.8	12.6

1 Data from 2019 onwards are only partially comparable with data up to 2018, as the reporting scope of the innovation survey increased due to a definition change in the corporate register (definition of employee size classes is based on employees instead of employees subject to social insurance, which has increased the number of companies with 5 or more employees). 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).

Last update: January 24, 2023

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>