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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	2018	2019	2020	2021	2022
B 05-09	Mining and quarrying	3.0	9.6	6.3	17.9	8.5
C 10-33	Manufacturing	19.3	18.9	19.3	20.0	20.5
C 10-12	Manufacture of food products, beverages and tobacco products	5.0	4.2	4.0	4.7	6.9
C 13-15	Manufacture of textiles, wearing apparel and of leather and related products	18.2	18.6	18.4	23.6	28.1
C 16-18	Manufacture of wood (except furniture), paper and paper products; printing and reproduction of recorded media	10.2	7.6	7.8	9.0	10.1
C 19	Manufacture of coke and refined petroleum products	38.8	26.1	33.3	22.0	19.8
C 20	Manufacture of chemicals and chemical products	63.3	69.0	59.1	57.9	57.4
C 21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	52.8	53.1	61.9	52.3	53.8
C 22	Manufacture of rubber and plastic products	23.8	24.4	25.7	24.3	24.6
C 23	Manufacture of other non-metallic mineral products	20.2	21.2	17.4	18.5	20.2
C 24	Manufacture of basic metals	20.3	26.7	29.4	24.8	21.8
C 25	Manufacture of fabricated metal products, except machinery and equipment	9.2	10.1	9.5	10.5	8.3
C 26	Manufacture of computer, electronic and optical products	54.0	55.0	56.5	54.1	57.1
C 27	Manufacture of electrical equipment	39.0	32.2	36.2	35.1	38.0
C 28	Manufacture of machinery and equipment n.e.c.	39.4	40.8	44.9	43.6	41.7
C 29	Manufacture of motor vehicles, trailers and semi-trailers	24.6	22.3	22.8	31.1	32.8
C 30	Manufacture of other transport equipment	45.2	40.9	47.7	51.8	49.4
C 31-32	Manufacture of furniture; other manufacturing	15.5	14.3	12.9	17.0	16.7
C 33	Repair and installation of machinery and equipment	9.7	12.3	12.3	10.6	16.6
D 35, E 36-39	Electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities	5.2	4.2	5.0	6.1	5.3
D 35	Electricity, gas, steam and air conditioning supply	4.6	8.7	10.4	9.0	8.6
E 36-37	Water collection, treatment and supply; sewerage	3.7	3.6	2.4	2.9	2.0
E 38-39	Waste collection, treatment and disposal activities; materials recovery; remediation activities and other waste management services	6.3	2.3	3.4	6.1	5.0
G 46; H 49-53; J 58-63; K 64-66; M 69/70.2, 71-74; N 78-82	Business-related services	7.8	7.6	8.7	9.7	10.0
G 46	Wholesale trade (except of motor vehicles and motorcycles)	3.7	3.4	7.2	7.1	6.3
H 49-53	Transportation and storage	1.9	2.8	1.5	1.6	1.7
J 58-60	Publishing activities; motion picture, video and television programme production, sound recording and music publishing activities; programming and broadcasting activities	18.6	15.1	11.4	13.5	16.7
J 61-63	Telecommunications; computer programming, consultancy and related activities; information service activities	31.0	31.1	33.5	39.5	38.9
K 64-66	Financial and insurance activities	6.1	6.9	6.0	7.9	10.7
M 69/70.2	Legal and accounting activities; management consultancy activities	3.1	3.7	6.5	5.4	6.1
M 71-72	Architectural and engineering activities; technical testing and analysis; scientific research and development	18.8	18.5	18.2	19.2	17.9
M 73-74	Advertising and market research; other professional, scientific and technical activities	10.3	10.5	7.7	11.1	12.8
N 78-82	Other business services	2.0	2.0	2.5	2.9	4.0

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Share in %							
Economic activity/Employment size class			2018	2019	2020	2021	2022
Enterprises with employees							
5	to	9	5.6	5.3	6.2	7.0	7.1
10	to	19	7.4	8.7	8.6	9.0	9.1
20	to	49	12.9	11.3	13.0	14.0	15.2
50	to	99	21.3	18.6	21.8	20.9	20.4
100	to	249	30.4	30.6	28.6	33.5	33.8
Subtotal			10.1	9.9	10.6	11.5	11.8
250	to	499	39.2	42.6	42.4	45.1	46.7
500	to	999	46.8	43.5	48.2	47.6	44.3
1,000	and more		65.7	60.5	62.5	63.1	64.7
Subtotal			45.6	45.9	47.2	48.8	49.1
Total			11.3	10.9	11.8	12.6	12.9

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).

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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>