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Innovation rate, by sector groups and employment size classes¹²

		Share in %				
	Economic activity	2015	2016	2017	2018	2019
B 05-09	Mining and quarrying	26.5	22.5	24.7	34.6	45.7
C 10-33	Manufacturing	42.9	46.5	44.5	64.6	58.5
C 10-12	Manufacture of food products, beverages and tobacco products	30.2	28.5	30.4	52.6	47.8
C 13-15	Manufacture of textiles, wearing apparel and of leather and related products	45.7	47.2	43.4	63.9	53.9
C 16-18	Manufacture of wood (except furniture), paper and paper products; printing and reproduction of recorded media	39.8	40.9	38.2	63.4	52.9
C 19	Manufacture of coke and refined petroleum products	62.8	74.1	70.4	79.1	90.4
C 20	Manufacture of chemicals and chemical products	66.3	71.6	63.5	82.5	73.8
C 21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	68.6	66.7	73.6	73.9	79.0
C 22	Manufacture of rubber and plastic products	55.0	51.8	49.3	69.2	57.7
C 23	Manufacture of other non-metallic mineral products	37.2	38.7	43.7	61.2	60.5
C 24	Manufacture of basic metals	37.3	45.6	47.6	74.9	74.0
C 25	Manufacture of fabricated metal products, except machinery and equipment	36.3	44.3	37.3	59.2	55.9
C 26	Manufacture of computer, electronic and optical products	75.3	73.3	75.4	86.7	78.7
C 27	Manufacture of electrical equipment	52.7	62.1	54.1	77.0	67.5
C 28	Manufacture of machinery and equipment n.e.c.	55.5	67.4	58.1	80.9	73.1
C 29	Manufacture of motor vehicles, trailers and semi-trailers	62.5	52.9	62.3	71.3	55.3
C 30	Manufacture of other transport equipment	67.1	71.4	72.5	75.1	68.8
C 31-32	Manufacture of furniture; other manufacturing	44.7	43.0	49.3	66.1	60.1
C 33	Repair and installation of machinery and equipment	33.2	37.0	43.1	51.9	54.2
D 35, E 36-39	Electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities	27.3	25.2	23.8	49.1	44.2
D 35	Electricity, gas, steam and air conditioning supply	33.9	38.9	35.7	56.0	52.0
E 36-37	Water collection, treatment and supply; sewerage	22.2	19.3	19.3	42.0	39.5
E 38-39	Waste collection, treatment and disposal activities; materials recovery; remediation activities and other waste management services	26.5	21.1	19.7	49.2	42.7
G 46; H 49-53; J 58-63; K 64-66; M 69/70.2, 71-74; N 78-82	Business-related services	31.6	31.7	32.3	59.1	53.2
G 46	Wholesale trade (except of motor vehicles and motorcycles)	28.1	26.9	25.7	52.2	45.1
H 49-53	Transportation and storage	24.8	19.0	24.8	50.3	35.7
J 58-60	Publishing activities; motion picture, video and television programme production, sound recording and music publishing activities; programming and broadcasting activities	47.9	50.1	41.5	57.6	59.2
J 61-63	Telecommunications; computer programming, consultancy and related activities; information service activities	58.5	56.5	59.4	84.4	77.4
K 64-66	Financial and insurance activities	40.8	47.3	44.1	57.6	64.2
M 69/70.2	Legal and accounting activities; management consultancy activities	23.0	26.0	29.6	58.2	60.0
M 71-72	Architectural and engineering activities; technical testing and analysis; scientific research and development	40.0	41.2	40.0	62.4	63.1
M 73-74	Advertising and market research; other professional, scientific and technical activities	35.2	45.6	38.2	68.5	73.1
N 78-82	Other business services	28.5	24.4	25.7	59.0	45.2

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		Share in %				
Employment size class		2015	2016	2017	2018	2019
Enterprises with employees						
5	to 9	29.3	30.7	30.6	56.7	50.0
10	to 19	34.3	34.0	32.3	56.9	51.8
20	to 49	35.7	35.6	38.6	61.1	55.7
50	to 99	43.6	48.4	45.5	70.8	62.2
100	to 249	52.9	55.9	52.3	76.9	70.9
Subtotal		34.3	35.3	34.9	59.8	53.7
250	to 499	60.9	63.0	61.8	78.1	77.7
500	to 999	66.6	70.5	70.1	84.8	84.6
1,000	and more	82.7	84.1	84.9	89.1	92.7
Subtotal		66.0	68.4	67.7	81.6	82.0
Total		35.2	36.3	35.9	60.5	54.6

1 Innovation rate: the share of all enterprises that implement product or process innovations. 2018 data are not comparable to previous years due to changes in the definition and measurement of innovations (according to the Oslo Manual, 4th edition). Values for 2019 can only be compared to the previous year to a limited extent, as the reporting group for the Innovation Survey has increased due to a change in the definition in the business 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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This table also appears in the Federal Report on Research and Innovation as Table 20.

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>