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Product innovation rate, by sector groups and employment size classes¹²

		Share in %				
	Economic activity/Employment size class	2017	2018	2019	2020	2021
B 05-09	Mining and quarrying	8.8	9.4	15.2	14.9	23.7
C 10-33	Manufacturing	33.5	42.4	33.4	34.4	29.9
C 10-12	Manufacture of food products, beverages and tobacco products	18.9	33.3	27.8	20.2	17.7
C 13-15	Manufacture of textiles, wearing apparel and of leather and related products	31.7	35.2	31.6	29.7	26.8
C 16-18	Manufacture of wood (except furniture), paper and paper products; printing and reproduction of recorded media	25.8	42.9	36.0	33.9	27.0
C 19	Manufacture of coke and refined petroleum products	43.7	39.6	32.6	50.4	48.6
C 20	Manufacture of chemicals and chemical products	55.8	65.8	56.0	51.5	57.6
C 21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	57.6	58.0	55.9	49.0	50.1
C 22	Manufacture of rubber and plastic products	36.1	47.5	34.5	36.1	23.8
C 23	Manufacture of other non-metallic mineral products	29.9	38.8	27.8	22.2	32.3
C 24	Manufacture of basic metals	27.1	31.3	36.9	31.5	23.5
C 25	Manufacture of fabricated metal products, except machinery and equipment	24.8	29.7	24.8	21.8	21.6
C 26	Manufacture of computer, electronic and optical products	66.5	74.2	65.2	59.6	55.7
C 27	Manufacture of electrical equipment	45.3	56.1	39.1	53.5	38.0
C 28	Manufacture of machinery and equipment n.e.c.	52.0	61.9	49.5	60.6	46.0
C 29	Manufacture of motor vehicles, trailers and semi-trailers	50.0	46.8	41.1	44.8	36.8
C 30	Manufacture of other transport equipment	68.2	45.7	47.6	60.2	39.9
C 31-32	Manufacture of furniture; other manufacturing	40.8	47.0	34.4	38.5	38.2
C 33	Repair and installation of machinery and equipment	29.8	32.6	21.4	37.6	25.2
D 35, E 36-39	Electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities	14.8	24.6	19.0	24.8	16.9
D 35	Electricity, gas, steam and air conditioning supply	27.4	27.6	21.2	24.8	15.9
E 36-37	Water collection, treatment and supply; sewerage	7.3	21.1	18.3	12.7	11.3
E 38-39	Waste collection, treatment and disposal activities; materials recovery; remediation activities and other waste management services	11.8	24.8	18.3	30.8	20.3
G 46; H 49-53; J 58-63; K 64-66; M 69/70.2, 71-74; N 78-82	Business-related services	21.5	33.7	27.3	30.3	30.1
G 46	Wholesale trade (except of motor vehicles and motorcycles)	15.9	30.4	19.9	25.6	24.9
H 49-53	Transportation and storage	13.6	15.6	15.7	13.0	12.9
J 58-60	Publishing activities; motion picture, video and television programme production, sound recording and music publishing activities; programming and broadcasting activities	34.4	35.6	44.0	40.7	42.9
J 61-63	Telecommunications; computer programming, consultancy and related activities; information service activities	48.0	70.8	60.2	58.7	63.1
K 64-66	Financial and insurance activities	29.3	39.6	48.4	43.0	31.1
M 69/70.2	Legal and accounting activities; management consultancy activities	15.9	37.3	22.9	40.4	35.3
M 71-72	Architectural and engineering activities; technical testing and analysis; scientific research and development	29.3	33.9	35.4	32.3	40.1
M 73-74	Advertising and market research; other professional, scientific and technical activities	31.5	44.3	45.2	49.3	40.8
N 78-82	Other business services	16.7	28.7	15.6	23.0	22.0

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Product innovation rate, by sector groups and employment size classes^{1,2}

						Share in %				
Economic activity/Employment size class			2017	2018	2019	2020	2021			
Enterprises with employees										
5	to	9	19.3	32.0	26.7	26.7	29.7			
10	to	19	22.0	34.4	24.5	29.0	24.8			
20	to	49	27.6	37.2	29.7	32.7	29.2			
50	to	99	33.7	43.2	31.7	40.2	31.4			
100	to	249	44.4	44.9	42.5	43.8	39.2			
Subtotal			24.1	35.3	27.9	30.5	28.9			
250	to	499	48.4	55.1	56.4	52.6	47.3			
500	to	999	58.5	68.0	57.3	59.4	59.2			
1,000	and more		76.1	80.4	81.5	81.2	80.5			
Subtotal			55.5	62.6	61.0	59.2	55.9			
Total			25.0	36.1	28.9	31.4	29.7			

1 Product innovation rate: the share of all enterprises that implement product innovations. As of 2018, data are not comparable to previous years' data due to changes in the definition and measurement of innovations (according to the Oslo Manual, 4th edition). 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>