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Product innovation rate with market innovations, 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	10.1	6.6	3.6	0.4	0.6
C 10-33	Manufacturing	11.8	11.4	10.5	9.2	9.0
C 10-12	Manufacture of food products, beverages and tobacco products	4.9	3.4	2.6	4.4	4.5
C 13-15	Manufacture of textiles, wearing apparel and of leather and related products	11.5	9.9	10.3	14.0	8.9
C 16-18	Manufacture of wood (except furniture), paper and paper products; printing and reproduction of recorded media	6.2	8.5	5.1	4.2	4.6
C 19	Manufacture of coke and refined petroleum products	13.6	18.2	30.1	22.5	12.5
C 20	Manufacture of chemicals and chemical products	23.8	22.0	22.3	25.7	22.5
C 21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	29.6	26.9	22.7	26.4	34.0
C 22	Manufacture of rubber and plastic products	9.5	9.0	11.1	14.5	9.3
C 23	Manufacture of other non-metallic mineral products	20.6	12.7	13.4	5.5	9.6
C 24	Manufacture of basic metals	17.8	17.6	11.3	8.5	8.8
C 25	Manufacture of fabricated metal products, except machinery and equipment	6.6	8.2	4.1	3.1	2.8
C 26	Manufacture of computer, electronic and optical products	34.8	31.5	31.7	24.7	26.1
C 27	Manufacture of electrical equipment	18.0	18.6	15.6	15.2	15.4
C 28	Manufacture of machinery and equipment n.e.c.	24.8	24.4	21.9	17.5	18.3
C 29	Manufacture of motor vehicles, trailers and semi-trailers	30.2	21.9	17.3	20.9	17.8
C 30	Manufacture of other transport equipment	19.2	22.6	23.0	20.0	15.6
C 31-32	Manufacture of furniture; other manufacturing	6.9	4.3	12.5	6.7	8.2
C 33	Repair and installation of machinery and equipment	7.0	9.5	9.5	7.9	6.1
D 35, E 36-39	Electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities	1.1	3.4	4.6	1.3	1.3
D 35	Electricity, gas, steam and air conditioning supply	2.9	4.9	2.6	3.5	3.6
E 36-37	Water collection, treatment and supply; sewerage	0.3	0.9	1.7	0.2	0.4
E 38-39	Waste collection, treatment and disposal activities; materials recovery; remediation activities and other waste management services	0.7	3.8	7.2	0.6	0.4
G 46; H 49-53; J 58-63; K 64-66; M 69/70.2, 71-74; N 78-82	Business-related services	6.1	5.2	4.7	4.8	4.6
G 46	Wholesale trade (except of motor vehicles and motorcycles)	3.6	5.8	3.8	4.6	2.1
H 49-53	Transportation and storage	5.5	1.4	2.0	2.8	1.7
J 58-60	Publishing activities; motion picture, video and television programme production, sound recording and music publishing activities; programming and broadcasting activities	6.2	9.3	9.2	3.5	11.2
J 61-63	Telecommunications; computer programming, consultancy and related activities; information service activities	22.1	12.9	15.7	15.6	16.9
K 64-66	Financial and insurance activities	10.6	4.9	4.0	9.4	9.0
M 69/70.2	Legal and accounting activities; management consultancy activities	3.4	5.5	2.6	1.9	2.6
M 71-72	Architectural and engineering activities; technical testing and analysis; scientific research and development	5.7	5.8	10.0	5.6	6.4
M 73-74	Advertising and market research; other professional, scientific and technical activities	10.6	9.1	1.4	6.2	2.2
N 78-82	Other business services	2.5	2.9	2.0	2.1	2.7

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						Share in %				
Economic activity/Employment size class				2019	2020	2021	2022	2023		
Enterprises with employees										
5	to	9		5.6	5.1	4.3	3.6	3.5		
10	to	19		6.7	5.2	4.9	3.8	4.5		
20	to	49		8.2	7.0	7.6	8.9	6.1		
50	to	99		6.4	9.6	8.2	7.5	8.6		
100	to	249		16.2	14.0	11.8	9.8	10.6		
Subtotal				7.1	6.4	5.8	5.4	5.1		
250	to	499		23.2	21.7	17.6	17.4	17.8		
500	to	999		26.9	27.0	27.7	21.2	25.1		
1,000	and more			46.1	46.4	47.4	49.0	48.9		
Subtotal				28.0	27.2	25.2	23.7	24.9		
Total				7.7	7.0	6.4	5.9	5.7		

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).

Last update: January 27, 2025

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>