

■ Table 1.8.12 1 / 2

Product innovation rate, 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	15.2	14.9	23.7	9.8	8.2
C 10-33	Manufacturing	33.4	34.4	29.9	27.2	26.6
C 10-12	Manufacture of food products, beverages and tobacco products	27.8	20.2	17.7	16.4	13.9
C 13-15	Manufacture of textiles, wearing apparel and of leather and related products	31.6	29.7	26.8	29.0	27.5
C 16-18	Manufacture of wood (except furniture), paper and paper products; printing and reproduction of recorded media	36.0	33.9	27.0	25.0	17.6
C 19	Manufacture of coke and refined petroleum products	32.6	50.4	48.6	34.7	27.9
C 20	Manufacture of chemicals and chemical products	56.0	51.5	57.6	51.7	56.6
C 21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	55.9	49.0	50.1	45.1	45.4
C 22	Manufacture of rubber and plastic products	34.5	36.1	23.8	23.6	21.6
C 23	Manufacture of other non-metallic mineral products	27.8	22.2	32.3	18.9	28.9
C 24	Manufacture of basic metals	36.9	31.5	23.5	27.0	12.9
C 25	Manufacture of fabricated metal products, except machinery and equipment	24.8	21.8	21.6	18.1	16.1
C 26	Manufacture of computer, electronic and optical products	65.2	59.6	55.7	54.2	54.3
C 27	Manufacture of electrical equipment	39.1	53.5	38.0	38.7	38.7
C 28	Manufacture of machinery and equipment n.e.c.	49.5	60.6	46.0	46.7	44.0
C 29	Manufacture of motor vehicles, trailers and semi-trailers	41.1	44.8	36.8	34.7	31.2
C 30	Manufacture of other transport equipment	47.6	60.2	39.9	55.6	42.3
C 31-32	Manufacture of furniture; other manufacturing	34.4	38.5	38.2	27.3	36.9
C 33	Repair and installation of machinery and equipment	21.4	37.6	25.2	23.1	26.7
D 35, E 36-39	Electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities	19.0	24.8	16.9	13.0	12.6
D 35	Electricity, gas, steam and air conditioning supply	21.2	24.8	15.9	20.3	15.3
E 36-37	Water collection, treatment and supply; sewerage	18.3	12.7	11.3	10.6	11.4
E 38-39	Waste collection, treatment and disposal activities; materials recovery; remediation activities and other waste management services	18.3	30.8	20.3	10.1	11.7
G 46; H 49-53; J 58-63; K 64-66; M 69/70.2, 71-74; N 78-82	Business-related services	27.3	30.3	30.1	26.2	23.4
G 46	Wholesale trade (except of motor vehicles and motorcycles)	19.9	25.6	24.9	19.6	16.7
H 49-53	Transportation and storage	15.7	13.0	12.9	11.7	13.2
J 58-60	Publishing activities; motion picture, video and television programme production, sound recording and music publishing activities; programming and broadcasting activities	44.0	40.7	42.9	36.6	30.8
J 61-63	Telecommunications; computer programming, consultancy and related activities; information service activities	60.2	58.7	63.1	59.7	54.1
K 64-66	Financial and insurance activities	48.4	43.0	31.1	35.8	30.6
M 69/70.2	Legal and accounting activities; management consultancy activities	22.9	40.4	35.3	27.2	31.6
M 71-72	Architectural and engineering activities; technical testing and analysis; scientific research and development	35.4	32.3	40.1	33.3	30.8
M 73-74	Advertising and market research; other professional, scientific and technical activities	45.2	49.3	40.8	24.4	35.5
N 78-82	Other business services	15.6	23.0	22.0	22.5	12.2

■ Table 1.8.12 2 / 2

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						Share in %				
Economic activity/Employment size class			2019	2020	2021	2022	2023			
Enterprises with employees										
5	to	9	26.7	26.7	29.7	23.6	19.7			
10	to	19	24.5	29.0	24.8	23.2	23.1			
20	to	49	29.7	32.7	29.2	26.8	23.9			
50	to	99	31.7	40.2	31.4	30.6	30.6			
100	to	249	42.5	43.8	39.2	35.8	34.1			
Subtotal			27.9	30.5	28.9	25.4	23.2			
250	to	499	56.4	52.6	47.3	42.0	42.6			
500	to	999	57.3	59.4	59.2	50.1	54.8			
1,000	and more		81.5	81.2	80.5	78.0	77.7			
Subtotal			61.0	59.2	55.9	50.1	51.6			
Total			28.9	31.4	29.7	26.1	24.1			

1 Product innovation rate: the share of all enterprises that implement product innovations. 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>