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Innovation rate, by sector groups and employment size classes¹²

		Share in %				
	Economic activity	2013	2014	2015	2016	2017
B 05-09	Mining and quarrying	22.8	23.9	26.5	22.5	24.7
C 10-33	Manufacturing	45.5	44.9	42.9	46.5	44.5
C 10-12	Manufacture of food products, beverages and tobacco products	34.1	26.4	30.2	28.5	30.4
C 13-15	Manufacture of textiles, wearing apparel and of leather and related products	48.8	47.1	45.7	47.2	43.4
C 16-18	Manufacture of wood (except furniture), paper and paper products; printing and reproduction of recorded media	41.6	42.6	39.8	40.9	38.2
C 19	Manufacture of coke and refined petroleum	44.0	61.1	62.8	74.1	70.4
C 20	Manufacture of chemicals and chemical products	73.9	75.1	66.3	71.6	63.5
C 21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	82.2	76.9	68.6	66.7	73.6
C 22	Manufacture of rubber and plastic products	49.7	56.0	55.0	51.8	49.3
C 23	Manufacture of other non-metallic mineral products	39.8	41.1	37.2	38.7	43.7
C 24	Manufacture of basic metals	38.2	34.2	37.3	45.6	47.6
C 25	Manufacture of fabricated metal products, except machinery and equipment	35.1	41.9	36.3	44.3	37.3
C 26	Manufacture of computer, electronic and optical	74.2	74.2	75.3	73.3	75.4
C 27	Manufacture of electrical equipment	62.7	53.3	52.7	62.1	54.1
C 28	Manufacture of machinery and equipment n.e.c.	63.8	67.7	55.5	67.4	58.1
C 29	Manufacture of motor vehicles, trailers and semi-trailers	67.7	52.4	62.5	52.9	62.3
C 30	Manufacture of other transport equipment	70.1	62.5	67.1	71.4	72.5
C 31-32	Manufacture of furniture; other manufacturing	47.8	39.5	44.7	43.0	49.3
C 33	Repair and installation of machinery and equipment	38.3	36.1	33.2	37.0	43.1
D 35, E 36-39	Electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities	25.3	25.6	27.3	25.2	23.8
D 35	Electricity, gas, steam and air conditioning supply	37.7	29.8	33.9	38.9	35.7
E 36-37	Water collection, treatment and supply; sewerage	17.9	23.3	22.2	19.3	19.3
E 38-39	Waste collection, treatment and disposal activities; materials recovery; remediation activities and other waste management services	23.7	24.8	26.5	21.1	19.7
G 46; H 49-53; J 58-63; K 64-66; M 69/70.2, 71-74; N 78-82	Business-related services	33.2	33.0	31.6	31.7	32.4
G 46	Wholesale trade (except of motor vehicles and motorcycles)	29.4	32.4	28.1	26.9	26.0
H 49-53	Transportation and storage	21.8	19.9	24.8	19.0	24.8
J 58-60	Publishing activities; motion picture, video and television programme production, sound recording and music publishing activities; programming and broadcasting activities	47.7	44.5	47.9	50.1	41.5
J 61-63	Telecommunications; computer programming, consultancy and related activities; information service activities	70.9	64.3	58.5	56.5	59.4
K 64-66	Financial and insurance activities	40.9	40.8	40.8	47.3	44.1
M 69/70.2	Legal and accounting activities; management consultancy activities	28.2	24.0	23.0	26.0	29.7
M 71-72	Architectural and engineering activities; technical testing and analysis; scientific research and development	31.8	41.5	40.0	41.2	40.0
M 73-74	Advertising and market research; other professional, scientific and technical activities	44.8	43.8	35.2	45.6	38.2
N 78-82	Other business services	31.0	28.4	28.5	24.4	25.7

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

Employment size class		Share in %				
		2013	2014	2015	2016	2017
Enterprises with employees						
5	to 9	31.0	31.5	29.3	30.7	30.7
10	to 19	35.5	34.8	34.3	34.0	32.3
20	to 49	40.5	37.4	35.7	35.6	38.6
50	to 99	45.2	45.4	43.6	48.4	45.5
100	to 249	52.7	56.0	52.9	55.9	52.3
Subtotal		36.2	35.9	34.3	35.3	35.0
250	to 499	62.2	62.7	60.9	63.0	61.9
500	to 999	72.0	67.6	66.6	70.5	70.1
1,000	and more	83.4	81.8	82.7	84.1	84.9
Subtotal		68.4	67.2	66.0	68.4	67.7
Total		37.1	36.8	35.2	36.3	36.0

1 Innovation rate: the share of all enterprises that implement product or process innovations. 2017 data provisional. All data are projected on the population of enterprises with 5 or more employees. 2016 data revised with respect to last year's report.

2 Classification of Economic Activities - 2008 edition (based on NACE 2008 - Nomenclature statistique des activités économiques dans la Communauté européenne).

Last update: February 2019

This table also appears in the Federal Report on Research and Innovation as Table 41.

Source: Centre for European Economic Research - Mannheim Innovation Panel, special evaluation

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<https://www.govdata.de/dl-de/by-2-0>