

■ Table 1.8.7 1 / 2

**Innovation intensity, by sector groups and employment size classes<sup>12</sup>**

		Share in %				
	Economic activity	2015	2016	2017	2018	2019
<b>B 05-09</b>	<b>Mining and quarrying</b>	2.0	1.3	1.2	1.5	1.5
<b>C 10-33</b>	<b>Manufacturing</b>	5.7	5.9	5.8	5.8	6.0
C 10-12	Manufacture of food products, beverages and tobacco products	1.2	1.0	1.5	1.0	1.0
C 13-15	Manufacture of textiles, wearing apparel and of leather and related products	3.3	3.2	3.3	4.3	3.3
C 16-18	Manufacture of wood (except furniture), paper and paper products; printing and reproduction of recorded media	1.9	1.8	1.5	1.7	1.8
C 19	Manufacture of coke and refined petroleum products	0.4	0.4	0.2	0.3	0.4
C 20	Manufacture of chemicals and chemical products	4.5	4.8	5.0	4.5	4.8
C 21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	18.1	18.1	20.7	18.3	19.5
C 22	Manufacture of rubber and plastic products	2.8	2.9	3.2	2.5	2.9
C 23	Manufacture of other non-metallic mineral products	2.2	2.0	2.9	2.4	2.5
C 24	Manufacture of basic metals	1.9	2.3	2.0	1.8	2.0
C 25	Manufacture of fabricated metal products, except machinery and equipment	1.9	2.4	2.4	1.8	2.0
C 26	Manufacture of computer, electronic and optical products	13.4	13.3	13.1	13.9	12.9
C 27	Manufacture of electrical equipment	7.7	8.2	8.3	8.5	8.1
C 28	Manufacture of machinery and equipment n.e.c.	5.9	6.1	5.8	5.9	6.4
C 29	Manufacture of motor vehicles, trailers and semi-trailers	10.0	9.8	9.4	10.1	9.7
C 30	Manufacture of other transport equipment	8.9	9.1	8.3	8.8	8.1
C 31-32	Manufacture of furniture; other manufacturing	3.4	3.2	3.6	3.5	4.0
C 33	Repair and installation of machinery and equipment	2.7	2.4	2.1	2.6	2.8
<b>D 35, E 36-39</b>	<b>Electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities</b>	0.9	0.7	0.6	0.8	0.7
D 35	Electricity, gas, steam and air conditioning supply	0.9	0.7	0.6	0.8	0.7
E 36-37	Water collection, treatment and supply; sewerage	1.6	2.3	0.9	0.8	1.2
E 38-39	Waste collection, treatment and disposal activities; materials recovery; remediation activities and other waste management services	1.2	0.7	0.8	0.6	0.8
<b>G 46; H 49-53; J 58-63; K 64-66; M 69/70.2, 71-74; N 78-82</b>	<b>Business-related services</b>	1.3	1.4	1.4	1.6	1.6
G 46	Wholesale trade (except of motor vehicles and motorcycles)	0.2	0.3	0.2	0.2	0.3
H 49-53	Transportation and storage	2.2	2.4	2.0	2.0	2.0
J 58-60	Publishing activities; motion picture, video and television programme production, sound recording and music publishing activities; programming and broadcasting activities	2.5	2.4	2.7	2.8	3.4
J 61-63	Telecommunications; computer programming, consultancy and related activities; information service activities	7.0	6.3	6.9	7.7	7.9
K 64-66	Financial and insurance activities	0.7	0.7	0.8	1.0	0.9
M 69/70.2	Legal and accounting activities; management consultancy activities	1.0	0.9	1.0	1.6	1.5
M 71-72	Architectural and engineering activities; technical testing and analysis; scientific research and development	8.0	8.0	7.9	8.2	8.5
M 73-74	Advertising and market research; other professional, scientific and technical activities	1.8	1.9	2.2	2.6	2.6
N 78-82	Other business services	0.8	0.9	0.7	0.7	0.7

■ Table 1.8.7 2 / 2

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						Share in %				
Employment size class						2015	2016	2017	2018	2019
Enterprises with employees										
5	to	9				1.2	1.9	1.7	2.1	2.0
10	to	19				1.5	1.8	1.7	1.5	1.7
20	to	49				1.5	1.5	1.5	1.4	1.3
50	to	99				1.4	1.4	1.3	1.4	1.3
100	to	249				1.6	1.3	1.4	1.5	1.4
<b>Subtotal</b>						1.5	1.5	1.5	1.5	1.5
250	to	499				1.8	1.6	1.6	1.9	2.0
500	to	999				1.8	1.6	1.7	1.9	2.0
1,000	and more					4.8	5.2	5.2	5.5	5.4
<b>Subtotal</b>						3.8	3.9	4.0	4.1	4.2
<b>Total</b>						<b>3.0</b>	<b>3.1</b>	<b>3.1</b>	<b>3.2</b>	<b>3.3</b>

1 Innovation intensity: the ratio of innovation expenditure to turnover. All data are projected on the population of enterprises with 5 or more employees. 2018 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).

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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>