

■ Table 1.8.8 1 / 2

Total innovation expenditure, by sector groups and employment size classes¹²

| | | Billions of € | | | | |
|---|--|---------------|-------|-------|-------|-------|
| | Economic activity | 2017 | 2018 | 2019 | 2020 | 2021 |
| B 05-09 | Mining and quarrying | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 |
| C 10-33 | Manufacturing | 126.2 | 128.2 | 128.9 | 126.2 | 128.8 |
| C 10-12 | Manufacture of food products, beverages and tobacco products | 3.3 | 2.1 | 2.2 | 1.7 | 1.6 |
| C 13-15 | Manufacture of textiles, wearing apparel and of leather and related products | 1.0 | 1.1 | 0.9 | 0.9 | 0.9 |
| C 16-18 | Manufacture of wood (except furniture), paper and paper products; printing and reproduction of recorded media | 1.2 | 1.5 | 1.5 | 1.5 | 1.3 |
| C 19 | Manufacture of coke and refined petroleum products | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 |
| C 20 | Manufacture of chemicals and chemical products | 8.0 | 7.1 | 6.7 | 6.8 | 7.1 |
| C 21 | Manufacture of basic pharmaceutical products and pharmaceutical preparations | 10.9 | 10.8 | 11.5 | 12.0 | 13.0 |
| C 22 | Manufacture of rubber and plastic products | 2.9 | 2.3 | 2.5 | 2.3 | 2.4 |
| C 23 | Manufacture of other non-metallic mineral products | 1.4 | 1.2 | 1.3 | 1.3 | 1.2 |
| C 24 | Manufacture of basic metals | 2.1 | 1.9 | 2.0 | 1.6 | 1.4 |
| C 25 | Manufacture of fabricated metal products, except machinery and equipment | 3.3 | 2.6 | 2.8 | 2.5 | 2.2 |
| C 26 | Manufacture of computer, electronic and optical products | 12.4 | 12.9 | 12.1 | 12.0 | 12.2 |
| C 27 | Manufacture of electrical equipment | 8.9 | 9.3 | 8.5 | 8.6 | 8.9 |
| C 28 | Manufacture of machinery and equipment n.e.c. | 15.4 | 16.6 | 17.8 | 17.0 | 17.1 |
| C 29 | Manufacture of motor vehicles, trailers and semi-trailers | 47.4 | 49.9 | 49.9 | 49.3 | 50.9 |
| C 30 | Manufacture of other transport equipment | 4.9 | 5.3 | 5.2 | 4.8 | 4.6 |
| C 31-32 | Manufacture of furniture; other manufacturing | 2.0 | 2.0 | 2.4 | 2.3 | 2.2 |
| C 33 | Repair and installation of machinery and equipment | 0.9 | 1.1 | 1.2 | 1.2 | 1.1 |
| D 35, E 36-39 | Electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities | 3.2 | 4.2 | 4.1 | 4.1 | 3.8 |
| D 35 | Electricity, gas, steam and air conditioning supply | 2.9 | 3.9 | 3.6 | 3.5 | 3.4 |
| E 36-37 | Water collection, treatment and supply; sewerage | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 |
| E 38-39 | Waste collection, treatment and disposal activities; materials recovery; remediation activities and other waste management services | 0.3 | 0.2 | 0.3 | 0.4 | 0.3 |
| G 46; H 49-53; J 58-63; K 64-66; M 69/70.2, 71-74; N 78-82 | Business-related services | 36.2 | 40.8 | 43.7 | 42.6 | 41.9 |
| G 46 | Wholesale trade (except of motor vehicles and motorcycles) | 2.1 | 2.8 | 3.1 | 2.5 | 2.2 |
| H 49-53 | Transportation and storage | 5.7 | 5.7 | 5.9 | 5.5 | 5.3 |
| J 58-60 | Publishing activities; motion picture, video and television programme production, sound recording and music publishing activities; programming and broadcasting activities | 1.7 | 1.7 | 2.1 | 2.1 | 1.9 |
| J 61-63 | Telecommunications; computer programming, consultancy and related activities; information service activities | 12.8 | 15.7 | 17.1 | 17.7 | 18.1 |
| K 64-66 | Financial and insurance activities | 6.0 | 5.5 | 5.4 | 5.3 | 5.4 |
| M 69/70.2 | Legal and accounting activities; management consultancy activities | 0.6 | 1.1 | 1.1 | 1.1 | 0.9 |
| M 71-72 | Architectural and engineering activities; technical testing and analysis; scientific research and development | 5.4 | 6.4 | 7.0 | 6.6 | 6.4 |
| M 73-74 | Advertising and market research; other professional, scientific and technical activities | 0.8 | 0.9 | 1.0 | 1.0 | 0.8 |
| N 78-82 | Other business services | 1.1 | 1.1 | 1.1 | 0.9 | 0.8 |

■ Table 1.8.8 2 / 2

Total innovation expenditure, by sector groups and employment size classes¹²

| Billions of € | | | | | | | |
|----------------------------|----------|-----|--------------|--------------|--------------|--------------|--------------|
| Employment size class | | | 2017 | 2018 | 2019 | 2020 | 2021 |
| Enterprises with employees | | | | | | | |
| 5 | to | 9 | 2.5 | 3.1 | 3.0 | 2.6 | 2.5 |
| 10 | to | 19 | 3.8 | 3.5 | 3.9 | 3.2 | 2.9 |
| 20 | to | 49 | 5.9 | 5.6 | 5.3 | 4.9 | 4.5 |
| 50 | to | 99 | 5.2 | 5.9 | 5.5 | 4.8 | 4.7 |
| 100 | to | 249 | 10.0 | 9.9 | 10.3 | 10.0 | 9.7 |
| Subtotal | | | 27.4 | 28.0 | 28.1 | 25.6 | 24.3 |
| 250 | to | 499 | 10.1 | 11.7 | 12.0 | 12.4 | 12.4 |
| 500 | to | 999 | 10.3 | 12.5 | 13.0 | 12.7 | 12.6 |
| 1,000 | and more | | 118.0 | 121.3 | 123.9 | 122.3 | 125.4 |
| Subtotal | | | 138.4 | 145.4 | 148.9 | 147.5 | 150.4 |
| Total | | | 165.8 | 173.4 | 176.9 | 173.1 | 174.7 |

1 2020 and 2021 data based on expectations/projected figures by the enterprises made in spring/summer 2020. All data are projected on the population of enterprises with 5 or more employees. 2018 to 2020 data revised with respect to last year's report. Possible rounding differences.

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

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This table also appears in the Federal Report on Research and Innovation as Table 20.

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>