

GERMANY

R&D expenditure in industry by main activity of the enterprise, current prices

ISIC Rev. 4

Million USD PPP

	2009	2010	2011	2012	2013	2014	2015	2016
TOTAL BUSINESS ENTERPRISE	55 820.2	58 346.1	64 758.0	68 327.0	69 136.9	74 123.8	78 211.5	80 537.5
01-03 AGRICULTURE, FORESTRY AND FISHING	161.8	176.9	159.9	175.7	185.6	178.0	192.5	202.8
05-09 MINING AND QUARRYING	16.6	15.3	12.7	13.6	19.9	16.1	26.9	26.3
10-33 MANUFACTURING	47 727.9	50 030.7	55 447.2	58 854.9	59 434.2	64 351.7	66 613.0	68 401.7
10-12 Food products, beverages and tobacco	392.1	408.5	390.5	400.0	406.2	414.1	407.5	401.5
13-15 Textiles, wearing apparel, leather and related products	155.7	154.2	151.1	155.4	145.8	149.6	116.8	121.1
13 Textiles	87.2	84.5	78.7	81.8	72.5	72.0	68.0	..
14 Wearing apparel	61.6	62.7	65.4	66.3	66.1	70.1	43.6	..
15 Leather and related products, footwear	6.9	7.1	7.0	7.2	7.2	7.4	5.1	..
16-18 Wood and paper products and printing	217.1	258.6	231.6	218.4	293.0	291.1	275.9	294.2
16 Wood and wood products, except furniture	24.8	28.5	28.7	25.2	25.7	25.4	25.7	..
17 Paper and paper products	78.9	92.0	77.7	73.8	130.2	133.7	125.8	..
18 Printing and reproduction of recorded media	113.4	138.1	125.3	119.4	137.1	132.0	123.2	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	10 259.7	10 031.3	11 011.9	11 337.5	11 328.3	11 831.8	11 901.4	12 915.8
19 Coke and refined petroleum products	114.7	110.8	119.6	121.9	120.9	154.6	173.2	181.0
20-21 Chemical and pharmaceutical products	8 746.1	8 529.9	9 339.5	9 638.4	9 578.8	9 966.1	9 934.3	10 807.9
20 Chemicals and chemical products	3 942.6	3 884.0	4 179.7	4 440.5	4 319.4	4 719.1	4 858.1	5 016.4
21 Pharmaceuticals, medicinal, chemical and botanical products	4 803.4	4 645.9	5 159.8	5 197.9	5 259.4	5 247.0	5 076.2	5 791.6
22 Rubber and plastic products	1 044.4	1 035.9	1 196.1	1 214.4	1 251.8	1 318.2	1 396.1	1 505.0
23 Other non-metallic mineral products	354.6	354.7	356.8	362.8	376.8	392.9	397.8	421.9
24-25 Basic metals, metal products, except machinery and equipment	1 487.5	1 498.8	1 574.8	1 644.5	1 643.4	1 670.6	1 738.7	1 772.4
24 Basic metals	610.2	612.9	654.5	688.1	683.9	695.4	681.4	691.5
25 Fabricated metal products, except machinery and equipment	877.3	885.8	920.3	956.4	959.5	975.2	1 057.3	1 080.9
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	33 935.3	36 381.6	40 548.1	43 633.5	43 967.2	48 216.6	49 689.3	50 638.1
26 Computer, electronic and optical products	7 169.9	7 453.2	8 321.4	9 389.4	9 476.1	9 762.4	9 676.4	9 790.1
27 Electrical equipment	1 644.0	1 671.8	2 030.7	2 200.5	2 749.3	2 824.3	2 885.8	2 945.7
28 Machinery and equipment n.e.c.	5 546.3	5 715.5	6 215.6	6 583.2	6 954.5	7 348.6	7 004.8	7 246.0
29 Motor vehicles, trailers and semi-trailers	17 039.8	18 415.2	20 681.6	22 052.6	22 183.0	25 577.9	27 544.4	28 059.8
30 Other transport equipment	2 535.4	3 125.9	3 298.8	3 408.0	2 604.5	2 690.1	2 575.3	2 596.6
31-33 Furniture; repair, installation of machinery and equipment	1 280.5	1 297.6	1 539.2	1 465.7	1 650.3	1 778.0	2 484.2	2 258.7
31 Furniture	63.0	65.1	52.9	50.7	48.3	50.7	44.9	41.9
32 Other manufacturing	539.2	548.0	697.3	667.3	786.0	840.9	803.3	746.7
33 Repair and installation of machinery and equipment	678.4	684.4	789.0	747.8	816.0	886.4	1 636.0	1 470.1
35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT	266.8	244.2	250.3	236.4	269.1	254.2	206.6	198.3
35-36 Electricity, gas and water	257.7	235.6	235.4	224.3	251.6	237.3	192.5	..
37-39 Sewerage, waste management and remediation activities	9.1	8.6	14.8	12.1	17.6	16.9	14.1	..
41-43 CONSTRUCTION	85.1	95.1	83.4	89.7	103.3	104.0	96.2	102.9
45-99 TOTAL SERVICES	7 562.1	7 784.0	8 804.6	8 956.7	9 124.9	9 219.6	11 076.3	11 605.5
45-82 Business sector services	7 540.6	7 763.9	8 773.6	8 925.3	9 087.6	9 183.1	11 035.2	11 567.5
45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs	251.3	278.6	331.7	360.2	333.6	333.8	338.8	299.8
49-53 Transportation and storage	71.3	78.9	137.7	156.0	118.2	123.7	171.9	140.6
55-56 Accommodation and food service activities	0.4	0.5	0.5	0.5	0.3	0.3	0.0	0.0
58-63 Information and communication	3 161.7	3 296.8	3 790.4	4 033.4	4 092.0	4 199.4	4 086.9	4 269.9
58-60 Publishing, audiovisual and broadcasting activities	47.1	46.9	53.5	53.4	34.5	35.1	38.5	..
58 Publishing activities	..	..	..	..	..	..	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	..	..	..	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	702.4	749.3	723.8	789.0	482.7	495.6	256.6	..
62-63 IT and other information services	2 412.2	2 500.6	3 013.0	3 189.7	3 574.8	3 668.7	3 791.8	..
62 Computer programming, consultancy and related activities	2 344.1	2 433.7	2 893.6	3 065.2	3 449.0	3 540.3	3 662.2	..
63 Information service activities	68.1	66.9	119.4	124.5	125.8	128.4	129.6	..
64-66 Financial and insurance activities	412.5	289.1	330.8	336.9	374.7	413.0	364.4	373.8
68-82 Real estate; professional, scientific and technical; administrative and support	3 643.5	3 819.7	4 182.6	4 038.3	4 168.8	4 112.8	6 073.2	6 482.9
68 Real estate activities	0.7	0.6	1.0	1.0	0.9	0.9	1.3	1.0
69-75x72 Professional, scientific and technical activities, except scientific R&D	1 633.4	1 700.4	1 967.2	1 837.5	1 956.5	1 808.0	3 227.2	3 531.5
72 Scientific research and development	1 967.6	2 072.8	2 168.8	2 150.7	2 174.7	2 267.4	2 784.5	2 896.9
77-82 Administrative and support service activities	41.8	45.9	45.6	49.0	36.7	36.5	60.3	53.5
84-99 Community, social and personal services	21.5	20.0	30.9	31.4	37.3	36.5	41.1	38.1
84-85 Public administration and defence; compulsory social security and education	..	..	2.8	2.8	3.5	3.3	1.3	1.7
86-88 Human health and social work activities	..	..	4.6	4.7	8.1	8.2	10.3	9.5
90-93 Arts, entertainment and recreation	..	..	1.6	1.7	4.5	4.4	2.6	2.7
94-99 Other services; household-employers; extraterritorial bodies	..	..	21.9	22.2	21.2	20.7	25.7	24.2

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20181213/8c73>.

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