

KOREA

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	34 150.3	39 025.0	44 680.5	50 559.8	53 573.7	57 180.5	58 714.5	..
01-03 AGRICULTURE, FORESTRY AND FISHING	24.8	31.0	42.3	31.2	30.2	33.0	35.9	..
05-09 MINING AND QUARRYING	17.5	22.4	25.7	41.1	29.1	23.2	26.9	..
10-33 MANUFACTURING	29 504.9	34 188.0	39 112.9	44 404.0	47 468.5	50 842.2	52 613.0	..
10-12 Food products, beverages and tobacco	450.1	361.3	472.0	550.9	532.2	560.8	1 151.6	..
13-15 Textiles, wearing apparel, leather and related products	198.6	198.6	334.1	376.0	418.6	423.4	464.1	..
13 Textiles	90.1	97.1	142.2	135.5	142.5	148.3	177.7	..
14 Wearing apparel	96.7	84.5	164.3	203.9	231.8	226.9	230.4	..
15 Leather and related products, footwear	11.7	17.0	27.6	36.6	44.3	48.2	56.0	..
16-18 Wood and paper products and printing	74.8	81.0	106.4	141.0	119.4	124.8	157.8	..
16 Wood and wood products, except furniture	8.0	7.8	18.8	15.1	15.5	15.1	26.6	..
17 Paper and paper products	36.7	42.4	55.6	88.2	63.5	67.3	71.9	..
18 Printing and reproduction of recorded media	30.0	30.8	31.9	37.7	40.5	42.4	59.2	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	3 490.3	4 065.1	5 042.5	5 225.5	5 837.0	5 441.6	6 128.8	..
19 Coke and refined petroleum products	166.5	274.4	395.4	317.7	335.3	273.5	290.2	..
20-21 Chemical and pharmaceutical products	2 600.2	2 940.3	3 739.1	3 893.4	4 303.0	4 012.0	4 638.7	..
20 Chemicals and chemical products	1 763.9	2 062.4	2 729.0	2 671.6	3 057.1	2 724.9	3 086.9	..
21 Pharmaceuticals, medicinal, chemical and botanical products	836.3	877.9	1 010.1	1 221.9	1 245.9	1 287.1	1 551.9	..
22 Rubber and plastic products	435.9	602.9	631.0	634.2	834.0	882.9	939.1	..
23 Other non-metallic mineral products	287.6	247.6	277.1	380.1	364.7	273.3	260.9	..
24-25 Basic metals, metal products, except machinery and equipment	1 022.0	972.0	1 346.8	1 442.1	1 344.0	1 325.5	1 451.1	..
24 Basic metals	669.2	664.6	721.8	858.4	712.9	744.0	748.3	..
25 Fabricated metal products, except machinery and equipment	352.8	307.4	625.0	583.7	631.1	581.5	702.7	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	24 040.6	28 258.3	31 402.7	36 303.2	38 848.2	42 530.6	42 715.1	..
26 Computer, electronic and optical products	16 252.0	19 631.5	21 873.9	25 237.8	27 676.6	30 402.1	29 427.0	..
27 Electrical equipment	932.7	992.7	1 076.2	1 265.4	1 188.4	1 277.7	1 596.4	..
28 Machinery and equipment n.e.c.	1 943.1	2 184.9	2 413.7	3 184.4	3 066.3	3 238.9	3 263.8	..
29 Motor vehicles, trailers and semi-trailers	4 283.1	4 758.4	5 309.3	5 724.1	6 071.2	6 739.8	7 432.2	..
30 Other transport equipment	629.8	690.8	729.5	891.5	845.7	872.1	995.7	..
31-33 Furniture; repair, installation of machinery and equipment	228.5	251.7	408.6	365.2	369.0	435.4	544.5	..
31 Furniture	52.1	52.5	62.7	66.3	74.7	99.3	98.9	..
32 Other manufacturing	176.4	199.2	345.9	298.9	294.3	336.1	445.6	..
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT	355.8	373.9	481.1	509.2	409.8	422.4	449.3	..
35-36 Electricity, gas and water	330.8	349.8	444.1	476.5	371.3	382.8	389.0	..
37-39 Sewerage, waste management and remediation activities	25.0	24.1	37.0	32.7	38.4	39.6	60.3	..
41-43 CONSTRUCTION	1 029.8	886.9	1 063.2	1 156.1	1 104.8	1 137.6	861.8	..
45-99 TOTAL SERVICES	3 217.6	3 522.9	3 955.3	4 418.3	4 531.4	4 722.2	4 727.5	..
45-82 Business sector services	3 188.6	3 490.7	3 912.0	4 379.9	4 491.4	4 679.8	4 676.2	..
45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs	563.1	641.8	719.9	788.8	813.8	857.9	710.8	..
49-53 Transportation and storage	41.6	88.3	144.8	81.6	127.7	45.8	45.8	..
55-56 Accommodation and food service activities	9.8	1.0	7.7	1.4	10.0	8.8	16.0	..
58-63 Information and communication	1 592.5	1 827.2	1 978.6	2 378.6	2 247.3	2 457.4	2 431.7	..
58-60 Publishing, audiovisual and broadcasting activities	1 018.3	1 131.6	1 111.1	1 559.1	1 436.0	1 627.1	1 628.7	..
58 Publishing activities	988.1	1 095.7	1 079.0	1 527.5	1 396.0	1 588.3	1 594.3	..
59-60 Motion picture, video and TV programme production; broadcasting activities	30.2	35.9	32.0	31.6	40.0	38.8	34.4	..
59 Motion picture, video and TV programme production; sound and music	12.9	13.2	15.4	12.7	9.5	13.7	18.4	..
60 Programming and broadcasting activities	17.4	22.7	16.7	18.9	30.6	25.1	16.0	..
61 Telecommunications	340.7	412.8	402.6	452.1	468.1	492.5	432.1	..
62-63 IT and other information services	233.4	282.8	465.0	367.4	343.2	337.7	370.8	..
62 Computer programming, consultancy and related activities	115.8	169.7	319.3	246.7	206.8	222.9	251.3	..
63 Information service activities	117.7	113.1	145.7	120.7	136.4	114.8	119.5	..
64-66 Financial and insurance activities	2.0	1.6	1.2	2.1	2.0	5.2	6.4	..
68-82 Real estate; professional, scientific and technical; administrative and support	979.5	930.9	1 059.8	1 127.4	1 290.6	1 304.8	1 465.5	..
68 Real estate activities	30.7	21.0	3.5	1.9	1.6	3.7	6.7	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	699.3	634.4	679.3	768.7	790.8	865.8	973.9	..
72 Scientific research and development	182.3	202.5	305.3	274.8	406.8	342.1	395.3	..
77-82 Administrative and support service activities	67.2	73.0	71.7	82.0	91.4	93.2	89.6	..
84-99 Community, social and personal services	29.0	32.3	43.3	38.4	40.0	42.4	51.4	..
84-85 Public administration and defence; compulsory social security and education	15.0	15.3	19.2	14.6	16.6	16.2	19.8	..
86-88 Human health and social work activities	0.2	0.2	0.3	1.1	5.0	5.6	13.6	..
90-93 Arts, entertainment and recreation	4.1	4.1	3.2	3.2	3.0	2.2	3.4	..
94-99 Other services; household-employers; extraterritorial bodies	9.7	12.6	20.6	19.5	15.4	18.4	14.6	..

.. Not available

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

KOREA

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

ISIC Rev. 4

2010 USD PPP

	2009	2010	2011	2012	2013	2014	2015	2016
TOTAL BUSINESS ENTERPRISE	34 567.4	39 025.0	44 716.9	50 096.2	53 507.2	56 951.4	57 049.7	..
01-03 AGRICULTURE, FORESTRY AND FISHING	25.1	31.0	42.4	30.9	30.1	32.8	34.9	..
05-09 MINING AND QUARRYING	17.7	22.4	25.7	40.7	29.1	23.2	26.1	..
10-33 MANUFACTURING	29 865.3	34 188.0	39 144.9	43 996.8	47 409.6	50 638.4	51 121.2	..
10-12 Food products, beverages and tobacco	455.6	361.3	472.4	545.8	531.6	558.6	1 118.9	..
13-15 Textiles, wearing apparel, leather and related products	201.0	198.6	334.3	372.6	418.1	421.7	450.9	..
13 Textiles	91.2	97.1	142.3	134.2	142.4	147.7	172.7	..
14 Wearing apparel	97.9	84.5	164.4	202.0	231.5	225.9	223.8	..
15 Leather and related products, footwear	11.9	17.0	27.6	36.3	44.3	48.0	54.5	..
16-18 Wood and paper products and printing	75.7	81.0	106.4	139.7	119.3	124.3	153.4	..
16 Wood and wood products, except furniture	8.1	7.8	18.8	15.0	15.4	15.0	25.9	..
17 Paper and paper products	37.2	42.4	55.7	87.3	63.4	67.1	69.9	..
18 Printing and reproduction of recorded media	30.4	30.8	32.0	37.4	40.4	42.2	57.6	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	3 532.9	4 065.1	5 046.6	5 177.6	5 829.8	5 419.8	5 955.1	..
19 Coke and refined petroleum products	168.5	274.4	395.7	314.8	334.9	272.4	281.9	..
20-21 Chemical and pharmaceutical products	2 632.0	2 940.3	3 742.1	3 857.7	4 297.7	3 995.9	4 507.2	..
20 Chemicals and chemical products	1 785.5	2 062.4	2 731.2	2 647.1	3 053.3	2 714.0	2 993.3	..
21 Pharmaceuticals, medicinal, chemical and botanical products	846.5	877.9	1 010.9	1 210.7	1 244.3	1 282.0	1 507.9	..
22 Rubber and plastic products	441.3	602.9	631.5	628.4	833.0	879.4	912.4	..
23 Other non-metallic mineral products	291.1	247.6	277.3	376.6	364.2	272.2	253.5	..
24-25 Basic metals, metal products, except machinery and equipment	1 034.5	972.0	1 347.9	1 428.9	1 342.3	1 320.2	1 409.9	..
24 Basic metals	677.4	664.6	722.4	850.6	712.0	741.0	727.1	..
25 Fabricated metal products, except machinery and equipment	357.1	307.4	625.5	578.4	630.4	579.2	682.8	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	24 334.2	28 258.3	31 428.3	35 970.3	38 799.9	42 360.1	41 504.0	..
26 Computer, electronic and optical products	16 450.5	19 631.5	21 891.8	25 006.4	27 642.3	30 280.2	28 592.6	..
27 Electrical equipment	944.1	992.7	1 077.1	1 253.8	1 186.9	1 272.6	1 551.2	..
28 Machinery and equipment n.e.c.	1 966.8	2 184.9	2 415.7	3 155.2	3 062.5	3 226.0	3 171.3	..
29 Motor vehicles, trailers and semi-trailers	4 335.4	4 758.4	5 313.7	5 671.6	6 063.7	6 712.8	7 221.4	..
30 Other transport equipment	637.5	690.8	730.1	883.3	844.6	868.6	967.4	..
31-33 Furniture; repair, installation of machinery and equipment	231.3	251.7	408.9	361.9	368.5	433.7	529.1	..
31 Furniture	52.7	52.5	62.7	65.7	74.6	98.9	96.1	..
32 Other manufacturing	178.6	199.2	346.2	296.2	293.9	334.7	433.0	..
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT	360.1	373.9	481.5	504.5	409.3	420.7	436.6	..
35-36 Electricity, gas and water	334.9	349.8	444.4	472.1	370.9	381.2	378.0	..
37-39 Sewerage, waste management and remediation activities	25.3	24.1	37.0	32.4	38.4	39.5	58.6	..
41-43 CONSTRUCTION	1 042.4	886.9	1 064.0	1 145.5	1 103.4	1 133.0	837.4	..
45-99 TOTAL SERVICES	3 256.9	3 522.9	3 958.5	4 377.8	4 525.8	4 703.2	4 593.5	..
45-82 Business sector services	3 227.5	3 490.7	3 915.2	4 339.8	4 485.8	4 661.0	4 543.6	..
45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs	570.0	641.8	720.5	781.5	812.8	854.5	690.7	..
49-53 Transportation and storage	42.1	88.3	144.9	80.9	127.5	45.6	44.5	..
55-56 Accommodation and food service activities	9.9	1.0	7.8	1.4	10.0	8.8	15.5	..
58-63 Information and communication	1 612.0	1 827.2	1 980.3	2 356.8	2 244.5	2 447.5	2 362.7	..
58-60 Publishing, audiovisual and broadcasting activities	1 030.8	1 131.6	1 112.0	1 544.8	1 434.2	1 620.6	1 582.6	..
58 Publishing activities	1 000.2	1 095.7	1 079.9	1 513.5	1 394.2	1 581.9	1 549.1	..
59-60 Motion picture, video and TV programme production; broadcasting activities	30.6	35.9	32.1	31.3	40.0	38.7	33.5	..
59 Motion picture, video and TV programme production; sound and music	13.0	13.2	15.4	12.5	9.5	13.7	17.9	..
60 Programming and broadcasting activities	17.6	22.7	16.7	18.8	30.5	25.0	15.5	..
61 Telecommunications	344.9	412.8	402.9	448.0	467.5	490.5	419.9	..
62-63 IT and other information services	236.3	282.8	465.4	364.0	342.8	336.4	360.3	..
62 Computer programming, consultancy and related activities	117.2	169.7	319.6	244.4	206.5	222.0	244.2	..
63 Information service activities	119.1	113.1	145.8	119.6	136.3	114.4	116.1	..
64-66 Financial and insurance activities	2.0	1.6	1.2	2.1	2.0	5.1	6.2	..
68-82 Real estate; professional, scientific and technical; administrative and support	991.5	930.9	1 060.6	1 117.1	1 289.0	1 299.6	1 424.0	..
68 Real estate activities	31.1	21.0	3.5	1.8	1.6	3.7	6.5	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	707.8	634.4	679.9	761.7	789.9	862.3	946.3	..
72 Scientific research and development	184.5	202.5	305.6	272.3	406.3	340.7	384.1	..
77-82 Administrative and support service activities	68.0	73.0	71.7	81.3	91.3	92.8	87.1	..
84-99 Community, social and personal services	29.4	32.3	43.4	38.0	40.0	42.2	49.9	..
84-85 Public administration and defence; compulsory social security and education	15.2	15.3	19.2	14.5	16.6	16.2	19.2	..
86-88 Human health and social work activities	0.3	0.2	0.3	1.1	5.0	5.6	13.2	..
90-93 Arts, entertainment and recreation	4.1	4.1	3.2	3.1	3.0	2.2	3.3	..
94-99 Other services; household-employers; extraterritorial bodies	9.8	12.6	20.6	19.3	15.4	18.3	14.2	..

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