

# KOREA

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

ISIC Rev. 4

Million USD PPP

	2011	2012	2013	2014	2015	2016	2017	2018
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>44 680.5</b>	<b>50 559.8</b>	<b>53 573.7</b>	<b>57 180.5</b>	<b>59 643.5</b>	..	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>42.3</b>	<b>31.2</b>	<b>30.2</b>	<b>33.0</b>	<b>36.5</b>	..	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>25.7</b>	<b>41.1</b>	<b>29.1</b>	<b>23.2</b>	<b>27.3</b>	..	..	..
<b>10-33 MANUFACTURING</b>	<b>39 112.9</b>	<b>44 404.0</b>	<b>47 468.5</b>	<b>50 842.2</b>	<b>53 445.5</b>	..	..	..
10-12 Food products, beverages and tobacco	472.0	550.9	532.2	560.8	1 169.8	..	..	..
13-15 Textiles, wearing apparel, leather and related products	334.1	376.0	418.6	423.4	471.4	..	..	..
13 Textiles	142.2	135.5	142.5	148.3	180.5	..	..	..
14 Wearing apparel	164.3	203.9	231.8	226.9	234.0	..	..	..
15 Leather and related products, footwear	27.6	36.6	44.3	48.2	56.9	..	..	..
16-18 Wood and paper products and printing	106.4	141.0	119.4	124.8	160.3	..	..	..
16 Wood and wood products, except furniture	18.8	15.1	15.5	15.1	27.1	..	..	..
17 Paper and paper products	55.6	88.2	63.5	67.3	73.1	..	..	..
18 Printing and reproduction of recorded media	31.9	37.7	40.5	42.4	60.2	..	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	5 042.5	5 225.5	5 837.0	5 441.6	6 225.8	..	..	..
19 Coke and refined petroleum products	395.4	317.7	335.3	273.5	294.7	..	..	..
20-21 Chemical and pharmaceutical products	3 739.1	3 893.4	4 303.0	4 012.0	4 712.1	..	..	..
20 Chemicals and chemical products	2 729.0	2 671.6	3 057.1	2 724.9	3 135.7	..	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	1 010.1	1 221.9	1 245.9	1 287.1	1 576.4	..	..	..
22 Rubber and plastic products	631.0	634.2	834.0	882.9	953.9	..	..	..
23 Other non-metallic mineral products	277.1	380.1	364.7	273.3	265.0	..	..	..
24-25 Basic metals, metal products, except machinery and equipment	1 346.8	1 442.1	1 344.0	1 325.5	1 474.0	..	..	..
24 Basic metals	721.8	858.4	712.9	744.0	760.2	..	..	..
25 Fabricated metal products, except machinery and equipment	625.0	583.7	631.1	581.5	713.9	..	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	31 402.7	36 303.2	38 848.2	42 530.6	43 391.0	..	..	..
26 Computer, electronic and optical products	21 873.9	25 237.8	27 676.6	30 402.1	29 892.6	..	..	..
27 Electrical equipment	1 076.2	1 265.4	1 188.4	1 277.7	1 621.7	..	..	..
28 Machinery and equipment n.e.c.	2 413.7	3 184.4	3 066.3	3 238.9	3 315.5	..	..	..
29 Motor vehicles, trailers and semi-trailers	5 309.3	5 724.1	6 071.2	6 739.8	7 549.8	..	..	..
30 Other transport equipment	729.5	891.5	845.7	872.1	1 011.4	..	..	..
31-33 Furniture; repair, installation of machinery and equipment	408.6	365.2	369.0	435.4	553.1	..	..	..
31 Furniture	62.7	66.3	74.7	99.3	100.4	..	..	..
32 Other manufacturing	345.9	298.9	294.3	336.1	452.7	..	..	..
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>481.1</b>	<b>509.2</b>	<b>409.8</b>	<b>422.4</b>	<b>456.4</b>	..	..	..
35-36 Electricity, gas and water	444.1	476.5	371.3	382.8	395.2	..	..	..
37-39 Sewerage, waste management and remediation activities	37.0	32.7	38.4	39.6	61.3	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>1 063.2</b>	<b>1 156.1</b>	<b>1 104.8</b>	<b>1 137.6</b>	<b>875.5</b>	..	..	..
<b>45-99 TOTAL SERVICES</b>	<b>3 955.3</b>	<b>4 418.3</b>	<b>4 531.4</b>	<b>4 722.2</b>	<b>4 802.3</b>	..	..	..
<b>45-82 Business sector services</b>	<b>3 912.0</b>	<b>4 379.9</b>	<b>4 491.4</b>	<b>4 679.8</b>	<b>4 750.2</b>	..	..	..
45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs	719.9	788.8	813.8	857.9	722.1	..	..	..
49-53 Transportation and storage	144.8	81.6	127.7	45.8	46.5	..	..	..
55-56 Accommodation and food service activities	7.7	1.4	10.0	8.8	16.2	..	..	..
58-63 Information and communication	1 978.6	2 378.6	2 247.3	2 457.4	2 470.2	..	..	..
58-60 Publishing, audiovisual and broadcasting activities	1 111.1	1 559.1	1 436.0	1 627.1	1 654.5	..	..	..
58 Publishing activities	1 079.0	1 527.5	1 396.0	1 588.3	1 619.5	..	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	32.0	31.6	40.0	38.8	35.0	..	..	..
59 Motion picture, video and TV programme production; sound and music	15.4	12.7	9.5	13.7	18.7	..	..	..
60 Programming and broadcasting activities	16.7	18.9	30.6	25.1	16.3	..	..	..
61 Telecommunications	402.6	452.1	468.1	492.5	438.9	..	..	..
62-63 IT and other information services	465.0	367.4	343.2	337.7	376.7	..	..	..
62 Computer programming, consultancy and related activities	319.3	246.7	206.8	222.9	255.3	..	..	..
63 Information service activities	145.7	120.7	136.4	114.8	121.4	..	..	..
<b>64-66 Financial and insurance activities</b>	<b>1.2</b>	<b>2.1</b>	<b>2.0</b>	<b>5.2</b>	<b>6.5</b>	..	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>1 059.8</b>	<b>1 127.4</b>	<b>1 290.6</b>	<b>1 304.8</b>	<b>1 488.7</b>	..	..	..
68 Real estate activities	3.5	1.9	1.6	3.7	6.8	..	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	679.3	768.7	790.8	865.8	989.3	..	..	..
72 Scientific research and development	305.3	274.8	406.8	342.1	401.6	..	..	..
77-82 Administrative and support service activities	71.7	82.0	91.4	93.2	91.0	..	..	..
84-99 Community, social and personal services	43.3	38.4	40.0	42.4	52.2	..	..	..
84-85 Public administration and defence; compulsory social security and education	19.2	14.6	16.6	16.2	20.1	..	..	..
86-88 Human health and social work activities	0.3	1.1	5.0	5.6	13.8	..	..	..
90-93 Arts, entertainment and recreation	3.2	3.2	3.0	2.2	3.5	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	20.6	19.5	15.4	18.4	14.8	..	..	..

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20200813/2abe>.

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

ISIC Rev. 4

2010 USD PPP

	2011	2012	2013	2014	2015	2016	2017	2018
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>47 429.6</b>	<b>53 025.9</b>	<b>56 543.8</b>	<b>60 000.6</b>	<b>59 643.5</b>	..	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>44.9</b>	<b>32.7</b>	<b>31.8</b>	<b>34.6</b>	<b>36.5</b>	..	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>27.2</b>	<b>43.1</b>	<b>30.7</b>	<b>24.4</b>	<b>27.3</b>	..	..	..
<b>10-33 MANUFACTURING</b>	<b>41 519.6</b>	<b>46 569.8</b>	<b>50 100.1</b>	<b>53 349.7</b>	<b>53 445.5</b>	..	..	..
10-12 Food products, beverages and tobacco	501.0	577.8	561.7	588.5	1 169.8	..	..	..
13-15 Textiles, wearing apparel, leather and related products	354.6	394.3	441.9	444.2	471.4	..	..	..
13 Textiles	150.9	142.1	150.4	155.6	180.5	..	..	..
14 Wearing apparel	174.4	213.8	244.7	238.0	234.0	..	..	..
15 Leather and related products, footwear	29.3	38.4	46.8	50.6	56.9	..	..	..
16-18 Wood and paper products and printing	112.9	147.9	126.1	131.0	160.3	..	..	..
16 Wood and wood products, except furniture	19.9	15.9	16.3	15.8	27.1	..	..	..
17 Paper and paper products	59.1	92.5	67.0	70.7	73.1	..	..	..
18 Printing and reproduction of recorded media	33.9	39.5	42.7	44.5	60.2	..	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	5 352.8	5 480.4	6 160.6	5 710.0	6 225.8	..	..	..
19 Coke and refined petroleum products	419.7	333.2	353.9	287.0	294.7	..	..	..
20-21 Chemical and pharmaceutical products	3 969.1	4 083.3	4 541.6	4 209.9	4 712.1	..	..	..
20 Chemicals and chemical products	2 896.9	2 801.9	3 226.6	2 859.3	3 135.7	..	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	1 072.2	1 281.5	1 314.9	1 350.6	1 576.4	..	..	..
22 Rubber and plastic products	669.8	665.2	880.3	926.4	953.9	..	..	..
23 Other non-metallic mineral products	294.1	398.7	384.9	286.8	265.0	..	..	..
24-25 Basic metals, metal products, except machinery and equipment	1 429.7	1 512.5	1 418.5	1 390.9	1 474.0	..	..	..
24 Basic metals	766.2	900.3	752.4	780.7	760.2	..	..	..
25 Fabricated metal products, except machinery and equipment	663.5	612.2	666.1	610.2	713.9	..	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	33 334.9	38 073.9	41 001.9	44 628.2	43 391.0	..	..	..
26 Computer, electronic and optical products	23 219.8	26 468.8	29 211.0	31 901.5	29 892.6	..	..	..
27 Electrical equipment	1 142.4	1 327.1	1 254.2	1 340.7	1 621.7	..	..	..
28 Machinery and equipment n.e.c.	2 562.2	3 339.7	3 236.3	3 398.7	3 315.5	..	..	..
29 Motor vehicles, trailers and semi-trailers	5 636.0	6 003.3	6 407.8	7 072.2	7 549.8	..	..	..
30 Other transport equipment	774.4	934.9	892.5	915.1	1 011.4	..	..	..
31-33 Furniture; repair, installation of machinery and equipment	433.7	383.0	389.5	456.9	553.1	..	..	..
31 Furniture	66.5	69.6	78.9	104.2	100.4	..	..	..
32 Other manufacturing	367.2	313.5	310.6	352.7	452.7	..	..	..
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>510.7</b>	<b>534.0</b>	<b>432.5</b>	<b>443.2</b>	<b>456.4</b>	..	..	..
35-36 Electricity, gas and water	471.4	499.7	391.9	401.6	395.2	..	..	..
37-39 Sewerage, waste management and remediation activities	39.3	34.3	40.6	41.6	61.3	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>1 128.6</b>	<b>1 212.5</b>	<b>1 166.0</b>	<b>1 193.7</b>	<b>875.5</b>	..	..	..
<b>45-99 TOTAL SERVICES</b>	<b>4 198.7</b>	<b>4 633.8</b>	<b>4 782.6</b>	<b>4 955.1</b>	<b>4 802.3</b>	..	..	..
<b>45-82 Business sector services</b>	<b>4 152.7</b>	<b>4 593.5</b>	<b>4 740.4</b>	<b>4 910.6</b>	<b>4 750.2</b>	..	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>764.2</b>	<b>827.2</b>	<b>858.9</b>	<b>900.2</b>	<b>722.1</b>	..	..	..
<b>49-53 Transportation and storage</b>	<b>153.7</b>	<b>85.6</b>	<b>134.8</b>	<b>48.0</b>	<b>46.5</b>	..	..	..
<b>55-56 Accommodation and food service activities</b>	<b>8.2</b>	<b>1.4</b>	<b>10.5</b>	<b>9.3</b>	<b>16.2</b>	..	..	..
<b>58-63 Information and communication</b>	<b>2 100.4</b>	<b>2 494.6</b>	<b>2 371.9</b>	<b>2 578.6</b>	<b>2 470.2</b>	..	..	..
58-60 Publishing, audiovisual and broadcasting activities	1 179.5	1 635.1	1 515.6	1 707.4	1 654.5	..	..	..
58 Publishing activities	1 145.4	1 602.0	1 473.4	1 666.6	1 619.5	..	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	34.0	33.2	42.3	40.7	35.0	..	..	..
59 Motion picture, video and TV programme production; sound and music	16.3	13.3	10.0	14.4	18.7	..	..	..
60 Programming and broadcasting activities	17.7	19.9	32.3	26.3	16.3	..	..	..
61 Telecommunications	427.3	474.1	494.0	516.8	438.9	..	..	..
62-63 IT and other information services	493.6	385.3	362.2	354.4	376.7	..	..	..
62 Computer programming, consultancy and related activities	338.9	258.7	218.2	233.9	255.3	..	..	..
63 Information service activities	154.7	126.6	144.0	120.5	121.4	..	..	..
<b>64-66 Financial and insurance activities</b>	<b>1.2</b>	<b>2.2</b>	<b>2.1</b>	<b>5.4</b>	<b>6.5</b>	..	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>1 125.0</b>	<b>1 182.4</b>	<b>1 362.2</b>	<b>1 369.1</b>	<b>1 488.7</b>	..	..	..
68 Real estate activities	3.7	2.0	1.6	3.9	6.8	..	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	721.1	806.2	834.7	908.5	989.3	..	..	..
72 Scientific research and development	324.1	288.2	429.4	359.0	401.6	..	..	..
77-82 Administrative and support service activities	76.1	86.0	96.5	97.8	91.0	..	..	..
84-99 Community, social and personal services	46.0	40.2	42.2	44.5	52.2	..	..	..
84-85 Public administration and defence; compulsory social security and education	20.4	15.4	17.6	17.0	20.1	..	..	..
86-88 Human health and social work activities	0.3	1.2	5.3	5.9	13.8	..	..	..
90-93 Arts, entertainment and recreation	3.4	3.3	3.2	2.3	3.5	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	21.9	20.4	16.2	19.3	14.8	..	..	..

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