



# OECD Research and Development Expenditure in Industry

ANBERD

2008-2015



# **OECD Research and Development Expenditure in Industry 2017**

ANBERD

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**Please cite this publication as:**

OECD (2017), *OECD Research and Development Expenditure in Industry 2016: ANBERD*, OECD Publishing, Paris.  
<http://dx.doi.org/10.1787/9789264284494-en>

ISBN 978-92-64-28447-0 (print)

ISBN 978-92-64-28449-4 (PDF)

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## Readers' guide

### Main features

This publication includes business R&D data in ISIC Rev. 4 for 31 OECD member economies and four non-member economies. The reported data follow the International Standard Industrial Classification, Revision 4 (ISIC Rev. 4).

The data according to different versions of ISIC classification are published in the following database:

- OECD (2017), "STAN R&D: Research and development expenditure in industry – ISIC Rev. 4", STAN: OECD Structural Analysis Statistics (database), <http://dx.doi.org/10.1787/data-00689-en>.

### Signs and abbreviations

- .. Not available.
- . Decimal point.
- n.e.c. not elsewhere classified.

### Sources and methods

- Documentation (PDF): [www.oecd.org/sti/inno/ANBERD\\_full\\_documentation.pdf](http://www.oecd.org/sti/inno/ANBERD_full_documentation.pdf).
- Industry coverage (XLS): [www.oecd.org/sti/inno/ANBERDcoverage.xls](http://www.oecd.org/sti/inno/ANBERDcoverage.xls).

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### Classification

- The International Standard Industrial Classification (ISIC) Rev. 4 is available online at <http://unstats.un.org/unsd/cr/registry/isic-4.asp>.

## ISIC Rev. 4 classification

Section	Divisions	Description
<b>A-U</b>	<b>01-99</b>	<b>TOTAL BUSINESS ENTERPRISE</b>
<b>A</b>	<b>01-03</b>	<b>AGRICULTURE, FORESTRY AND FISHING</b>
<b>B</b>	<b>05-09</b>	<b>MINING AND QUARRYING</b>
<b>C</b>	<b>10-33</b>	<b>MANUFACTURING</b>
	10-12	Manufacture of food products, beverages and tobacco
	13-15	
	13	Manufacture of textiles
	14	Manufacture of wearing apparel
	15	Manufacture of leather and related products
	16-18	
	16	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials
	17	Manufacture of paper and paper products
	18	Printing and reproduction of recorded media
	19-23	
	19	Manufacture of coke and refined petroleum products
	20-21	
	20	Manufacture of chemicals and chemical products
	21	Manufacture of basic pharmaceutical products and pharmaceutical preparations
	22	Manufacture of rubber and plastics products
	23	Manufacture of other non-metallic mineral products
	24-25	
	24	Manufacture of basic metals
	25	Manufacture of fabricated metal products, except machinery and equipment
	26-30	
	26	Manufacture of computer, electronic and optical products
	27	Manufacture of electrical equipment
	28	Manufacture of machinery and equipment n.e.c.
	29	Manufacture of motor vehicles, trailers and semi-trailers
	30	Manufacture of other transport equipment
	31-33	
	31	Manufacture of furniture
	32	Other manufacturing
	33	Repair and installation of machinery and equipment
<b>D+E</b>	<b>35-39</b>	<b>ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>
<b>D</b>	35-36	Electricity, gas and water
<b>E</b>	37-39	Sewerage, waste management, remediation activities
<b>F</b>	<b>41-43</b>	<b>CONSTRUCTION</b>
<b>G-U</b>	<b>45-99</b>	<b>TOTAL SERVICES</b>
<b>G-N</b>	45-82	Business sector services
<b>G</b>	45-47	<b>Wholesale and retail trade; motor vehicles and motorcycles repairs</b>
<b>H</b>	49-53	<b>Transportation and storage</b>
<b>I</b>	55-56	<b>Accommodation and food service activities</b>
<b>J</b>	58-63	<b>Information and communication</b>
	58-60	
	58	Publishing activities
	59-60	
	59	Motion picture, video and television programme production, sound recording and music publishing activities
	60	Programming and broadcasting activities
	61	Telecommunications
	62-63	
	62	Computer programming, consultancy and related activities
	63	Information service activities
<b>K</b>	<b>64-66</b>	<b>Financial and insurance activities</b>
<b>L-N</b>	<b>68-82</b>	<b>Real estate activities; professional, scientific and technical activities; administrative and support service activities</b>
<b>L</b>	68	Real estate activities
<b>Mx72</b>	69-75x72	Professional, scientific and technical activities, except scientific R&D
	72	Scientific research and development
<b>N</b>	77-82	Administrative and support service activities
<b>O-U</b>	84-99	Community, social and personal services
<b>O-P</b>	84-85	Public administration and defence; compulsory social security and education
<b>Q</b>	86-88	Human health and social work activities
<b>R</b>	90-93	Arts, entertainment and recreation
<b>S-U</b>	94-99	Other service activities; activities of households as employers; undifferentiated goods- and services-producing activities of households for own use; extraterritorial bodies, activities of extraterritorial organizations and bodies



# R&D expenditure in industry

# AUSTRALIA

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>11 690.6</b>	<b>11 629.2</b>	<b>11 983.0</b>	<b>12 124.9</b>	<b>11 970.0 e</b>	<b>13 027.6</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>98.9</b>	<b>127.5</b>	<b>122.5</b>	<b>125.5</b>	<b>137.1 e</b>	<b>167.7</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>2 937.2</b>	<b>2 576.5</b>	<b>2 554.5</b>	<b>2 716.1</b>	<b>2 389.7 e</b>	<b>1 956.1</b>	..	..
<b>10-33 MANUFACTURING</b>	<b>2 980.2</b>	<b>2 968.8</b>	<b>3 210.5</b>	<b>2 978.7</b>	<b>2 902.9 e</b>	<b>3 373.9</b>	..	..
10-12 Food products, beverages and tobacco	302.5	340.3	401.3	362.9	371.0 e	476.2	..	..
13-15 Textiles, wearing apparel, leather and related products	23.7	20.1	30.7	34.9	32.9 e	31.8	..	..
13 Textiles	14.5	11.6	14.6	16.8	..	..	..	..
14 Wearing apparel	5.0	4.5	5.4 e	4.6	..	..	..	..
15 Leather and related products, footwear	4.2	4.0	10.7 e	13.6	..	..	..	..
16-18 Wood and paper products and printing	90.4	181.0	144.6	68.7	46.3 e	68.6	..	..
16 Wood and wood products, except furniture	38.6	39.9	41.5	25.3	..	..	..	..
17 Paper and paper products	36.4	..	..	32.0	..	..	..	..
18 Printing and reproduction of recorded media	15.4	..	..	11.4	..	..	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	695.0	660.6	688.8	712.9	739.4 e	857.0	..	..
19 Coke and refined petroleum products	68.1	53.8	60.8	59.9	75.4 e	115.0	..	..
20-21 Chemical and pharmaceutical products	498.6	455.5	489.0	517.9	521.4 e	571.0	..	..
20 Chemicals and chemical products	221.3	189.2	237.0	250.6	224.8 e	204.6	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	277.3	266.3	252.0	267.2	296.6 e	366.3	..	..
22 Rubber and plastic products	52.3	50.5	65.7	67.6	66.9 e	75.0	..	..
23 Other non-metallic mineral products	76.1	100.8	73.2	67.6	75.8 e	96.1	..	..
24-25 Basic metals, metal products, except machinery and equipment	553.3	434.8	533.0	482.6	408.6 e	402.1 e	..	..
24 Basic metals	439.4	304.1	346.6	334.5	274.3 e	229.0	..	..
25 Fabricated metal products, except machinery and equipment	113.9	130.7	186.5	148.1	134.2 e	173.0 e	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	1 156.0	1 173.7	1 229.2	1 110.8	1 089.6 e	1 297.7 e	..	..
26 Computer, electronic and optical products	272.3	254.9	248.8	237.9	..	..	..	..
27 Electrical equipment	52.6	64.6	62.6	86.8	..	..	..	..
28 Machinery and equipment n.e.c.	256.6	263.9	288.0	239.2	..	..	..	..
29 Motor vehicles, trailers and semi-trailers	425.3	452.3	469.8	440.7	..	..	..	..
30 Other transport equipment	149.2	138.0	160.0	106.2	..	..	..	..
31-33 Furniture; repair, installation of machinery and equipment	159.4	158.2	182.9	205.9	215.2 e	240.4	..	..
31 Furniture	5.7	6.7	7.9	12.2	12.8 e	11.5	..	..
32 Other manufacturing	140.4	138.8	162.0	175.8	180.9 e	203.1	..	..
33 Repair and installation of machinery and equipment	13.3	12.7	13.0	17.9	21.5 e	25.8	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>243.3</b>	<b>281.9</b>	<b>280.8</b>	<b>250.2</b>	<b>219.8 e</b>	<b>218.0</b>	..	..
35-36 Electricity, gas and water	170.6	202.1	185.1	173.7	149.5 e	129.2	..	..
37-39 Sewerage, waste management and remediation activities	72.6	79.8	95.7	76.6	70.3 e	88.7	..	..
<b>41-43 CONSTRUCTION</b>	<b>627.8</b>	<b>600.6</b>	<b>669.3</b>	<b>542.3</b>	<b>491.8 e</b>	<b>597.2</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>4 803.2</b>	<b>5 073.9</b>	<b>5 144.5</b>	<b>5 512.0</b>	<b>5 828.5 e</b>	<b>6 714.7</b>	..	..
<b>45-82 Business sector services</b>	<b>4 697.5</b>	<b>4 961.8</b>	<b>5 026.8</b>	<b>5 362.8</b>	<b>5 655.3 e</b>	<b>6 507.5</b>	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>664.1</b>	<b>616.1</b>	<b>550.6</b>	<b>573.1</b>	<b>656.9 e</b>	<b>847.1</b>	..	..
<b>49-53 Transportation and storage</b>	<b>158.3</b>	<b>179.2</b>	<b>194.4</b>	<b>193.8</b>	<b>204.9 e</b>	<b>250.9</b>	..	..
<b>55-56 Accommodation and food service activities</b>	<b>18.1</b>	<b>15.4</b>	<b>10.4</b>	<b>14.2</b>	<b>16.1 e</b>	<b>16.8</b>	..	..
<b>58-63 Information and communication</b>	<b>1 256.1</b>	<b>1 067.4</b>	<b>1 114.5</b>	<b>1 215.2</b>	<b>1 344.6 e</b>	<b>1 656.1</b>	..	..
58-60 Publishing, audiovisual and broadcasting activities	143.4	118.7	123.4	119.4	136.8 e	189.5	..	..
58 Publishing activities	116.8	79.7	82.7	84.6	97.6 e	132.4	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	26.6	39.0	40.7	34.7	39.2 e	57.1	..	..
59 Motion picture, video and TV programme production; sound and music	9.5	13.3	13.5	13.4	..	..	..	..
60 Programming and broadcasting activities	17.2	25.7	27.2	21.4	..	..	..	..
61 Telecommunications	400.3 e	203.0	234.0	319.0	273.6 e	164.8	..	..
62-63 IT and other information services	712.5	745.7	757.0	776.7	934.2 e	1 301.8	..	..
62 Computer programming, consultancy and related activities	696.2	728.8	737.5	751.1	901.8 e	1 258.8	..	..
63 Information service activities	16.3 e	16.9	19.6	25.6	32.4 e	42.9	..	..
<b>64-66 Financial and insurance activities</b>	<b>1 425.4</b>	<b>1 814.4</b>	<b>1 842.3</b>	<b>1 975.6</b>	<b>2 002.0 e</b>	<b>2 137.6</b>	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>1 175.4</b>	<b>1 269.4</b>	<b>1 315.6</b>	<b>1 391.0</b>	<b>1 430.8 e</b>	<b>1 599.1</b>	..	..
68 Real estate activities	30.0	11.8	9.2	15.2	22.3 e	32.8	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	559.3	575.2	636.6	668.0	..	..	..	..
72 Scientific research and development	489.6	464.2	427.2	454.9	..	..	..	..
77-82 Administrative and support service activities	96.5	218.2	242.6	252.9	..	..	..	..
84-99 Community, social and personal services	105.7	112.1	117.7	149.2	173.2 e	207.2	..	..
84-85 Public administration and defence; compulsory social security and education	10.3	10.9	13.4	17.5	19.9 e	23.1	..	..
86-88 Human health and social work activities	50.6	53.6	53.1	62.5	59.1 e	50.9	..	..
90-93 Arts, entertainment and recreation	22.2	23.5	27.3	47.9	62.8 e	77.9	..	..
94-99 Other services; household-employers; extraterritorial bodies	22.6	24.2	23.9	21.2	31.4 e	55.3	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# AUSTRALIA

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>12 341.7</b>	<b>11 842.7</b>	<b>11 983.0</b>	<b>11 946.7</b>	<b>12 041.0 e</b>	<b>12 136.9</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>104.4</b>	<b>129.9</b>	<b>122.5</b>	<b>123.7</b>	<b>138.0 e</b>	<b>156.3</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>3 100.8</b>	<b>2 623.8</b>	<b>2 554.5</b>	<b>2 676.1</b>	<b>2 403.9 e</b>	<b>1 822.4</b>	..	..
<b>10-33 MANUFACTURING</b>	<b>3 146.2</b>	<b>3 023.3</b>	<b>3 210.5</b>	<b>2 934.9</b>	<b>2 920.1 e</b>	<b>3 143.2</b>	..	..
10-12 Food products, beverages and tobacco	319.3	346.5	401.3	357.5	373.2 e	443.6	..	..
13-15 Textiles, wearing apparel, leather and related products	25.0	20.5	30.7	34.4	33.1 e	29.6	..	..
13 Textiles	15.3	11.8	14.6	16.6	..	..	..	..
14 Wearing apparel	5.3	4.6	5.4 e	4.5	..	..	..	..
15 Leather and related products, footwear	4.4	4.1	10.7 e	13.4	..	..	..	..
16-18 Wood and paper products and printing	95.4	184.4	144.6	67.7	46.5 e	63.9	..	..
16 Wood and wood products, except furniture	40.8	40.6	41.5	24.9	..	..	..	..
17 Paper and paper products	38.4	..	..	31.5	..	..	..	..
18 Printing and reproduction of recorded media	16.3	..	..	11.3	..	..	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	733.7	672.8	688.8	702.5	743.8 e	798.4	..	..
19 Coke and refined petroleum products	71.9	54.8	60.8	59.0	75.9 e	107.1	..	..
20-21 Chemical and pharmaceutical products	526.3	463.9	489.0	510.2	524.4 e	531.9	..	..
20 Chemicals and chemical products	233.6	192.7	237.0	246.9	226.1 e	190.7	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	292.7	271.2	252.0	263.3	298.3 e	341.3	..	..
22 Rubber and plastic products	55.2	51.4	65.7	66.6	67.3 e	69.9	..	..
23 Other non-metallic mineral products	80.3	102.7	73.2	66.6	76.2 e	89.5	..	..
24-25 Basic metals, metal products, except machinery and equipment	584.1	442.8	533.0	475.5	411.0 e	374.6 e	..	..
24 Basic metals	463.9	309.6	346.6	329.6	275.9 e	213.4	..	..
25 Fabricated metal products, except machinery and equipment	120.3	133.1	186.5	145.9	135.0 e	161.2 e	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	1 220.4	1 195.2	1 229.2	1 094.5	1 096.0 e	1 209.0 e	..	..
26 Computer, electronic and optical products	287.4	259.6	248.8	234.4	..	..	..	..
27 Electrical equipment	55.5	65.8	62.6	85.5	..	..	..	..
28 Machinery and equipment n.e.c.	270.9	268.7	288.0	235.7	..	..	..	..
29 Motor vehicles, trailers and semi-trailers	449.0	460.6	469.8	434.2	..	..	..	..
30 Other transport equipment	157.5	140.5	160.0	104.7	..	..	..	..
31-33 Furniture; repair, installation of machinery and equipment	168.2	161.1	182.9	202.9	216.5 e	223.9	..	..
31 Furniture	6.1	6.9	7.9	12.0	12.9 e	10.8	..	..
32 Other manufacturing	148.2	141.3	162.0	173.3	182.0 e	189.2	..	..
33 Repair and installation of machinery and equipment	14.0	12.9	13.0	17.6	21.6 e	24.0	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>256.9</b>	<b>287.1</b>	<b>280.8</b>	<b>246.5</b>	<b>221.1 e</b>	<b>203.1</b>	..	..
35-36 Electricity, gas and water	180.2	205.8	185.1	171.1	150.4 e	120.4	..	..
37-39 Sewerage, waste management and remediation activities	76.7	81.3	95.7	75.5	70.7 e	82.7	..	..
<b>41-43 CONSTRUCTION</b>	<b>662.8</b>	<b>611.6</b>	<b>669.3</b>	<b>534.4</b>	<b>494.7 e</b>	<b>556.4</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>5 070.7</b>	<b>5 167.1</b>	<b>5 144.5</b>	<b>5 431.0</b>	<b>5 863.1 e</b>	<b>6 255.6</b>	..	..
<b>45-82 Business sector services</b>	<b>4 959.1</b>	<b>5 052.9</b>	<b>5 026.8</b>	<b>5 284.0</b>	<b>5 688.9 e</b>	<b>6 062.6</b>	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>701.1</b>	<b>627.4</b>	<b>550.6</b>	<b>564.7</b>	<b>660.8 e</b>	<b>789.1</b>	..	..
<b>49-53 Transportation and storage</b>	<b>167.2</b>	<b>182.5</b>	<b>194.4</b>	<b>190.9</b>	<b>206.1 e</b>	<b>233.7</b>	..	..
<b>55-56 Accommodation and food service activities</b>	<b>19.1</b>	<b>15.7</b>	<b>10.4</b>	<b>14.0</b>	<b>16.2 e</b>	<b>15.6</b>	..	..
<b>58-63 Information and communication</b>	<b>1 326.1</b>	<b>1 087.0</b>	<b>1 114.5</b>	<b>1 197.3</b>	<b>1 352.6 e</b>	<b>1 542.9</b>	..	..
58-60 Publishing, audiovisual and broadcasting activities	151.4	120.9	123.4	117.6	137.6 e	176.6	..	..
58 Publishing activities	123.3	81.2	82.7	83.4	98.1 e	123.4	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	28.1	39.7	40.7	34.2	39.5 e	53.2	..	..
59 Motion picture, video and TV programme production; sound and music	10.0	13.5	13.5	13.2	..	..	..	..
60 Programming and broadcasting activities	18.1	26.2	27.2	21.1	..	..	..	..
61 Telecommunications	422.5 e	206.7	234.0	314.3	275.3 e	153.5	..	..
62-63 IT and other information services	752.2	759.4	757.0	765.3	939.7 e	1 212.8	..	..
62 Computer programming, consultancy and related activities	735.0	742.2	737.5	740.1	907.2 e	1 172.8	..	..
63 Information service activities	17.2 e	17.2	19.6	25.2	32.6 e	40.0	..	..
<b>64-66 Financial and insurance activities</b>	<b>1 504.7</b>	<b>1 847.7</b>	<b>1 842.3</b>	<b>1 946.5</b>	<b>2 013.8 e</b>	<b>1 991.4</b>	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>1 240.9</b>	<b>1 292.7</b>	<b>1 315.6</b>	<b>1 370.5</b>	<b>1 439.3 e</b>	<b>1 489.8</b>	..	..
68 Real estate activities	31.7	12.0	9.2	14.9	22.4 e	30.5	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	590.4	585.7	636.6	658.2	..	..	..	..
72 Scientific research and development	516.8	472.7	427.2	448.2	..	..	..	..
77-82 Administrative and support service activities	101.9	222.2	242.6	249.2	..	..	..	..
84-99 Community, social and personal services	111.6	114.2	117.7	147.0	174.2 e	193.0	..	..
84-85 Public administration and defence; compulsory social security and education	10.8	11.1	13.4	17.3	20.0 e	21.5	..	..
86-88 Human health and social work activities	53.5	54.6	53.1	61.6	59.5 e	47.5	..	..
90-93 Arts, entertainment and recreation	23.4	23.9	27.3	47.2	63.2 e	72.6	..	..
94-99 Other services; household-employers; extraterritorial bodies	23.9	24.7	23.9	20.9	31.5 e	51.5	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# AUSTRIA

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>6 124.2</b>	<b>6 043.6</b>	<b>6 567.0</b>	<b>6 847.5</b>	<b>7 734.4</b>	<b>8 504.0</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>1.6 e</b>	<b>1.7</b>	<b>2.0 e</b>	<b>2.4</b>	<b>3.3 e</b>	<b>4.3</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>7.3 e</b>	<b>5.3</b>	<b>6.3 e</b>	<b>7.2</b>	<b>6.3 e</b>	<b>3.7</b>	..	..
<b>10-33 MANUFACTURING</b>	<b>4 212.5 e</b>	<b>4 076.7</b>	<b>4 301.3 e</b>	<b>4 361.2</b>	<b>4 844.0 e</b>	<b>5 276.3</b>	..	..
10-12 Food products, beverages and tobacco	33.9 e	38.1	37.5 e	34.5	42.1 e	54.3	..	..
13-15 Textiles, wearing apparel, leather and related products	33.4 e	26.8 e	24.7 e	23.3 e	24.9 e	26.3 e	..	..
13 Textiles	19.0 e	14.2	12.9 e	12.8	14.8 e	16.8	..	..
14 Wearing apparel	10.3 e	8.7 e	8.1 e	7.3 e	6.8 e	5.9 e	..	..
15 Leather and related products, footwear	4.1 e	3.9	3.7 e	3.2	3.3 e	3.6	..	..
16-18 Wood and paper products and printing	55.9 e	63.8	68.8 e	65.3	68.9 e	72.8	..	..
16 Wood and wood products, except furniture	17.4 e	21.6	21.5 e	18.4	20.5 e	25.2	..	..
17 Paper and paper products	15.4 e	17.1	23.8 e	28.4	30.2 e	28.2	..	..
18 Printing and reproduction of recorded media	23.2 e	25.2	23.5 e	18.6	18.1 e	19.4	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	734.5 e	670.2 e	708.2 e	745.5 e	854.1 e	950.8 e	..	..
19 Coke and refined petroleum products	18.1 e	15.3 e	14.4 e	12.9 e	12.0 e	10.4 e	..	..
20-21 Chemical and pharmaceutical products	485.6 e	432.4	446.0 e	462.9	530.3 e	593.9	..	..
20 Chemicals and chemical products	190.0 e	203.9	243.5 e	258.0	260.6 e	236.8	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	295.5 e	228.5	202.5 e	204.8	269.7 e	357.1	..	..
22 Rubber and plastic products	139.8 e	135.6	146.3 e	157.6	191.4 e	227.7	..	..
23 Other non-metallic mineral products	91.0 e	86.9	101.4 e	112.1	120.5 e	118.7	..	..
24-25 Basic metals, metal products, except machinery and equipment	298.8 e	306.7	319.3 e	325.8	403.4 e	503.5	..	..
24 Basic metals	151.8 e	155.8	149.0 e	145.6	202.5 e	288.1	..	..
25 Fabricated metal products, except machinery and equipment	147.0 e	150.9	170.3 e	180.2	200.9 e	215.3	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	2 896.2 e	2 814.9	2 957.9 e	2 962.4	3 232.5 e	3 456.1	..	..
26 Computer, electronic and optical products	529.7 e	625.5	673.8 e	630.1	687.6 e	772.3	..	..
27 Electrical equipment	1 097.4 e	979.7	944.9 e	885.0	888.0 e	863.1	..	..
28 Machinery and equipment n.e.c.	636.5 e	647.0	739.7 e	817.6	972.9 e	1 116.4	..	..
29 Motor vehicles, trailers and semi-trailers	492.9 e	437.3	463.2 e	489.4	545.1 e	581.0	..	..
30 Other transport equipment	139.7 e	125.5	136.4 e	140.3	138.9 e	123.3	..	..
31-33 Furniture; repair, installation of machinery and equipment	159.9 e	156.2	184.9 e	204.3	218.1 e	212.5	..	..
31 Furniture	31.9 e	19.9	20.6 e	24.1	23.0 e	16.4	..	..
32 Other manufacturing	108.5 e	111.0	116.5 e	111.1	111.6 e	108.0	..	..
33 Repair and installation of machinery and equipment	19.4 e	25.3	47.8 e	69.1	83.6 e	88.1	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>15.9 e</b>	<b>15.4</b>	<b>20.4 e</b>	<b>24.4</b>	<b>25.5 e</b>	<b>22.9</b>	..	..
35-36 Electricity, gas and water	11.1 e	12.6	16.8 e	19.2	20.1 e	18.5	..	..
37-39 Sewerage, waste management and remediation activities	4.8 e	2.8	3.6 e	5.2	5.4 e	4.4	..	..
<b>41-43 CONSTRUCTION</b>	<b>26.0 e</b>	<b>34.5</b>	<b>49.5 e</b>	<b>57.1</b>	<b>57.9 e</b>	<b>50.3</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>1 860.9 e</b>	<b>1 909.9</b>	<b>2 187.5 e</b>	<b>2 395.3</b>	<b>2 797.4 e</b>	<b>3 146.5</b>	..	..
<b>45-82 Business sector services</b>	<b>1 858.8 e</b>	<b>1 906.7</b>	<b>2 182.6 e</b>	<b>2 389.7</b>	<b>2 791.7 e</b>	<b>3 141.3</b>	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>291.3 e</b>	<b>303.6</b>	<b>343.3 e</b>	<b>361.3</b>	<b>400.3 e</b>	<b>426.6</b>	..	..
<b>49-53 Transportation and storage</b>	<b>9.5 e</b>	<b>7.9</b>	<b>6.8 e</b>	<b>6.6</b>	<b>9.1 e</b>	<b>12.7</b>	..	..
<b>55-56 Accommodation and food service activities</b>	<b>0.0 e</b>	<b>0.0</b>	<b>0.0 e</b>	<b>0.0</b>	<b>0.0 e</b>	<b>0.0</b>	..	..
<b>58-63 Information and communication</b>	<b>328.8 e</b>	<b>264.2</b>	<b>327.0 e</b>	<b>415.9</b>	<b>496.4 e</b>	<b>535.1</b>	..	..
58-60 Publishing, audiovisual and broadcasting activities	39.8 e	14.0	13.7 e	26.4	37.8 e	44.8	..	..
58 Publishing activities	36.1 e	12.7	12.7 e	24.7	35.6 e	42.5	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	3.7 e	1.3	1.0 e	1.7	2.2 e	2.3	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	54.7 e	53.6	59.7 e	60.3	57.6 e	48.3	..	..
62-63 IT and other information services	234.2 e	196.6	253.6 e	329.2	400.9 e	442.0	..	..
62 Computer programming, consultancy and related activities	189.8 e	174.6	194.5 e	223.1	281.7 e	341.9	..	..
63 Information service activities	44.4 e	21.9	59.1 e	106.1	119.2 e	100.1	..	..
<b>64-66 Financial and insurance activities</b>	<b>27.2 e</b>	<b>53.6</b>	<b>54.9 e</b>	<b>36.0</b>	<b>23.5 e</b>	<b>14.5</b>	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>1 202.0 e</b>	<b>1 277.3</b>	<b>1 450.6 e</b>	<b>1 569.7</b>	<b>1 862.4 e</b>	<b>2 152.5</b>	..	..
68 Real estate activities	1.0 e	0.3	0.2 e	0.7	1.6 e	2.8	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	522.4 e	508.6	572.5 e	625.3	721.0 e	796.5	..	..
72 Scientific research and development	673.6 e	760.8	866.6 e	931.0	1 128.5 e	1 345.9	..	..
77-82 Administrative and support service activities	5.1 e	7.6	11.3 e	12.8	11.4 e	7.3	..	..
84-99 Community, social and personal services	2.1 e	3.3	4.9 e	5.6	5.8 e	5.1	..	..
84-85 Public administration and defence; compulsory social security and education	1.4 e	2.0	2.8 e	3.1	3.0 e	2.3	..	..
86-88 Human health and social work activities	0.2 e	0.2	0.4 e	0.8	1.3 e	1.9	..	..
90-93 Arts, entertainment and recreation	0.3 e	0.6	0.7 e	0.6	0.4 e	0.3	..	..
94-99 Other services; household-employers; extraterritorial bodies	0.3 e	0.4	0.9 e	1.2	1.1 e	0.6	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# AUSTRIA

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>6 406.7</b>	<b>6 119.1</b>	<b>6 567.0</b>	<b>6 646.4</b>	<b>7 203.9</b>	<b>7 638.5</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>1.6 e</b>	<b>1.8</b>	<b>2.0 e</b>	<b>2.3</b>	<b>3.0 e</b>	<b>3.9</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>7.7 e</b>	<b>5.4</b>	<b>6.3 e</b>	<b>7.0</b>	<b>5.9 e</b>	<b>3.3</b>	..	..
<b>10-33 MANUFACTURING</b>	<b>4 406.9 e</b>	<b>4 127.6</b>	<b>4 301.3 e</b>	<b>4 233.1</b>	<b>4 511.7 e</b>	<b>4 739.2</b>	..	..
10-12 Food products, beverages and tobacco	35.5 e	38.6	37.5 e	33.5	39.2 e	48.8	..	..
13-15 Textiles, wearing apparel, leather and related products	35.0 e	27.1 e	24.7 e	22.7 e	23.2 e	23.6 e	..	..
13 Textiles	19.8 e	14.4	12.9 e	12.5	13.7 e	15.1	..	..
14 Wearing apparel	10.8 e	8.8 e	8.1 e	7.1 e	6.3 e	5.3 e	..	..
15 Leather and related products, footwear	4.3 e	4.0	3.7 e	3.1	3.1 e	3.2	..	..
16-18 Wood and paper products and printing	58.5 e	64.6	68.8 e	63.4	64.1 e	65.3	..	..
16 Wood and wood products, except furniture	18.2 e	21.8	21.5 e	17.8	19.1 e	22.6	..	..
17 Paper and paper products	16.1 e	17.3	23.8 e	27.5	28.2 e	25.3	..	..
18 Printing and reproduction of recorded media	24.2 e	25.5	23.5 e	18.0	16.8 e	17.4	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	768.3 e	678.6 e	708.2 e	723.6 e	795.6 e	854.0 e	..	..
19 Coke and refined petroleum products	18.9 e	15.5 e	14.4 e	12.6 e	11.2 e	9.4 e	..	..
20-21 Chemical and pharmaceutical products	508.0 e	437.8	446.0 e	449.3	493.9 e	533.5	..	..
20 Chemicals and chemical products	198.8 e	206.4	243.5 e	250.5	242.7 e	212.7	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	309.2 e	231.3	202.5 e	198.8	251.2 e	320.8	..	..
22 Rubber and plastic products	146.2 e	137.3	146.3 e	152.9	178.3 e	204.5	..	..
23 Other non-metallic mineral products	95.2 e	88.0	101.4 e	108.8	112.2 e	106.6	..	..
24-25 Basic metals, metal products, except machinery and equipment	312.6 e	310.5	319.3 e	316.3	375.7 e	452.2	..	..
24 Basic metals	158.8 e	157.7	149.0 e	141.4	188.6 e	258.8	..	..
25 Fabricated metal products, except machinery and equipment	153.8 e	152.8	170.3 e	174.9	187.1 e	193.4	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	3 029.8 e	2 850.1	2 957.9 e	2 875.4	3 010.8 e	3 104.3	..	..
26 Computer, electronic and optical products	554.1 e	633.3	673.8 e	611.6	640.4 e	693.7	..	..
27 Electrical equipment	1 148.1 e	991.9	944.9 e	859.0	827.1 e	775.3	..	..
28 Machinery and equipment n.e.c.	665.9 e	655.0	739.7 e	793.6	906.1 e	1 002.8	..	..
29 Motor vehicles, trailers and semi-trailers	515.6 e	442.8	463.2 e	475.1	507.7 e	521.9	..	..
30 Other transport equipment	146.1 e	127.1	136.4 e	136.2	129.4 e	110.7	..	..
31-33 Furniture; repair, installation of machinery and equipment	167.2 e	158.2	184.9 e	198.3	203.1 e	190.9	..	..
31 Furniture	33.4 e	20.2	20.6 e	23.4	21.4 e	14.7	..	..
32 Other manufacturing	113.6 e	112.4	116.5 e	107.9	103.9 e	97.0	..	..
33 Repair and installation of machinery and equipment	20.3 e	25.6	47.8 e	67.0	77.8 e	79.2	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>16.6 e</b>	<b>15.6</b>	<b>20.4 e</b>	<b>23.7</b>	<b>23.8 e</b>	<b>20.6</b>	..	..
35-36 Electricity, gas and water	11.6 e	12.7	16.8 e	18.7	18.7 e	16.6	..	..
37-39 Sewerage, waste management and remediation activities	5.0 e	2.8	3.6 e	5.0	5.1 e	4.0	..	..
<b>41-43 CONSTRUCTION</b>	<b>27.1 e</b>	<b>35.0</b>	<b>49.5 e</b>	<b>55.4</b>	<b>53.9 e</b>	<b>45.2</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>1 946.7 e</b>	<b>1 933.8</b>	<b>2 187.5 e</b>	<b>2 324.9</b>	<b>2 605.5 e</b>	<b>2 826.2</b>	..	..
<b>45-82 Business sector services</b>	<b>1 944.6 e</b>	<b>1 930.5</b>	<b>2 182.6 e</b>	<b>2 319.5</b>	<b>2 600.2 e</b>	<b>2 821.6</b>	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>304.8 e</b>	<b>307.4</b>	<b>343.3 e</b>	<b>350.7</b>	<b>372.8 e</b>	<b>383.1</b>	..	..
<b>49-53 Transportation and storage</b>	<b>10.0 e</b>	<b>8.0</b>	<b>6.8 e</b>	<b>6.4</b>	<b>8.5 e</b>	<b>11.4</b>	..	..
<b>55-56 Accommodation and food service activities</b>	<b>0.0 e</b>	<b>0.0</b>	<b>0.0 e</b>	<b>0.0</b>	<b>0.0 e</b>	<b>0.0</b>	..	..
<b>58-63 Information and communication</b>	<b>343.9 e</b>	<b>267.5</b>	<b>327.0 e</b>	<b>403.7</b>	<b>462.3 e</b>	<b>480.6</b>	..	..
58-60 Publishing, audiovisual and broadcasting activities	41.7 e	14.2	13.7 e	25.7	35.2 e	40.2	..	..
58 Publishing activities	37.8 e	12.9	12.7 e	24.0	33.2 e	38.2	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	3.9 e	1.3	1.0 e	1.7	2.1 e	2.0	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	57.2 e	54.2	59.7 e	58.6	53.7 e	43.4	..	..
62-63 IT and other information services	245.0 e	199.0	253.6 e	319.5	373.4 e	397.0	..	..
62 Computer programming, consultancy and related activities	198.6 e	176.8	194.5 e	216.5	262.4 e	307.1	..	..
63 Information service activities	46.4 e	22.2	59.1 e	103.0	111.0 e	89.9	..	..
<b>64-66 Financial and insurance activities</b>	<b>28.4 e</b>	<b>54.3</b>	<b>54.9 e</b>	<b>35.0</b>	<b>21.9 e</b>	<b>13.0</b>	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>1 257.5 e</b>	<b>1 293.2</b>	<b>1 450.6 e</b>	<b>1 523.6</b>	<b>1 734.6 e</b>	<b>1 933.4</b>	..	..
68 Real estate activities	1.0 e	0.3	0.2 e	0.6	1.5 e	2.5	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	546.5 e	514.9	572.5 e	606.9	671.5 e	715.4	..	..
72 Scientific research and development	704.6 e	770.3	866.6 e	903.7	1 051.0 e	1 208.9	..	..
77-82 Administrative and support service activities	5.3 e	7.7	11.3 e	12.4	10.6 e	6.6	..	..
84-99 Community, social and personal services	2.2 e	3.3	4.9 e	5.4	5.4 e	4.6	..	..
84-85 Public administration and defence; compulsory social security and education	1.5 e	2.0	2.8 e	3.0	2.7 e	2.1	..	..
86-88 Human health and social work activities	0.2 e	0.2	0.4 e	0.8	1.2 e	1.7	..	..
90-93 Arts, entertainment and recreation	0.3 e	0.7	0.7 e	0.6	0.4 e	0.3	..	..
94-99 Other services; household-employers; extraterritorial bodies	0.3 e	0.4	0.9 e	1.1	1.0 e	0.6	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# BELGIUM

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>5 363.7</b>	<b>5 388.0</b>	<b>6 021.0</b>	<b>6 747.6</b>	<b>7 898.1</b>	<b>8 367.4</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>31.0</b>	<b>31.9</b>	<b>29.8</b>	<b>31.1</b>	<b>18.6</b>	<b>20.4</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>2.0</b>	<b>1.9</b>	<b>6.0</b>	<b>7.7</b>	<b>1.5</b>	<b>2.2</b>	..	..
<b>10-33 MANUFACTURING</b>	<b>3 470.7</b>	<b>3 480.9</b>	<b>3 611.7</b>	<b>4 246.0</b>	<b>4 887.6</b>	<b>5 145.5</b>	..	..
10-12 Food products, beverages and tobacco	109.5	120.0	134.0	146.3	132.7	138.3	..	..
13-15 Textiles, wearing apparel, leather and related products	53.3	54.2	60.2	68.0	59.7	67.7	..	..
13 Textiles	44.5	45.8	49.9	52.4	40.6	46.2	..	..
14 Wearing apparel	2.5	2.7	6.2	6.4	7.4	8.7	..	..
15 Leather and related products, footwear	6.4	5.6	4.1	9.2	11.6	12.8	..	..
16-18 Wood and paper products and printing	20.2	22.2	19.5	23.4	32.3	36.4	..	..
16 Wood and wood products, except furniture	5.7	6.1	6.0	6.8	14.9	17.0	..	..
17 Paper and paper products	10.0	10.7	9.8	12.5	13.2	14.6	..	..
18 Printing and reproduction of recorded media	4.5	5.4	3.6	4.1	4.3	4.8	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	1 826.5	1 858.3	1 899.4	2 331.7	2 924.5	3 065.5	..	..
19 Coke and refined petroleum products	13.9	14.9	6.8	7.9	11.5	12.1	..	..
20-21 Chemical and pharmaceutical products	1 655.1	1 674.8	1 717.8	2 137.4	2 733.2	2 872.2	..	..
20 Chemicals and chemical products	341.4	325.8	348.9	421.0	458.4	460.7	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	1 313.8	1 349.1	1 368.9	1 716.4	2 274.8	2 411.6	..	..
22 Rubber and plastic products	98.8	96.4	102.8	109.6	111.9	112.9	..	..
23 Other non-metallic mineral products	58.8	72.2	72.0	76.9	68.0	68.3	..	..
24-25 Basic metals, metal products, except machinery and equipment	178.6	184.8	237.0	276.0	299.5	287.8	..	..
24 Basic metals	113.2	111.6	136.0	169.0	171.7	155.1	..	..
25 Fabricated metal products, except machinery and equipment	65.5	73.3	101.0	107.0	127.9	132.7	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	1 246.4	1 200.4	1 224.8	1 359.4	1 378.5	1 481.1	..	..
26 Computer, electronic and optical products	544.0	533.1	489.6	511.4	555.7	593.4	..	..
27 Electrical equipment	251.9	231.8	241.7	266.7	169.4	170.4	..	..
28 Machinery and equipment n.e.c.	248.2	227.5	260.2	289.0	359.7	376.0	..	..
29 Motor vehicles, trailers and semi-trailers	101.7	99.2	106.4	136.2	153.6	183.6	..	..
30 Other transport equipment	100.5	108.9	127.0	156.2	140.1	157.7	..	..
31-33 Furniture; repair, installation of machinery and equipment	36.1	40.9	36.8	41.1	60.4	68.5	..	..
31 Furniture	9.5	10.7	9.7	10.4	12.5	12.6	..	..
32 Other manufacturing	11.9	15.1	14.2	16.2	21.1	25.0	..	..
33 Repair and installation of machinery and equipment	14.8	15.1	12.9	14.5	26.8	30.9	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>29.0</b>	<b>19.5</b>	<b>60.7</b>	<b>68.8</b>	<b>107.3</b>	<b>127.4</b>	..	..
35-36 Electricity, gas and water	21.1	11.6	41.9	51.7	91.3	104.9	..	..
37-39 Sewerage, waste management and remediation activities	7.9	7.9	18.9	17.2	15.9	22.5	..	..
<b>41-43 CONSTRUCTION</b>	<b>51.7</b>	<b>58.6</b>	<b>76.3</b>	<b>67.6</b>	<b>44.0</b>	<b>48.6</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>1 779.0</b>	<b>1 795.1</b>	<b>2 236.3</b>	<b>2 326.4</b>	<b>2 839.0</b>	<b>3 023.3</b>	..	..
<b>45-82 Business sector services</b>	<b>1 772.3</b>	<b>1 787.5</b>	<b>2 224.9</b>	<b>2 311.9</b>	<b>2 833.5</b>	<b>3 017.7</b>	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>128.3</b>	<b>128.1</b>	<b>167.0</b>	<b>162.1</b>	<b>339.3</b>	<b>353.4</b>	..	..
<b>49-53 Transportation and storage</b>	<b>14.5</b>	<b>19.6</b>	<b>14.5</b>	<b>18.1</b>	<b>17.0</b>	<b>21.5</b>	..	..
<b>55-56 Accommodation and food service activities</b>	<b>1.1</b>	<b>1.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.0</b>	..	..
<b>58-63 Information and communication</b>	<b>427.8</b>	<b>441.0</b>	<b>592.5</b>	<b>670.6</b>	<b>659.9</b>	<b>673.2</b>	..	..
58-60 Publishing, audiovisual and broadcasting activities	23.0	22.1	27.4	31.9	51.1	55.8	..	..
58 Publishing activities	15.0	14.9	20.2	22.1	44.8	47.8	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	8.0	7.1	7.2	9.8	6.2	8.0	..	..
59 Motion picture, video and TV programme production; sound and music	2.7	2.2	5.3	7.5	3.6	4.5	..	..
60 Programming and broadcasting activities	5.2	4.9	1.9	2.3	2.6	3.5	..	..
61 Telecommunications	142.0	140.5	206.9	249.7	112.4	94.5	..	..
62-63 IT and other information services	262.8	278.5	358.1	389.0	496.5	522.9	..	..
62 Computer programming, consultancy and related activities	228.9	240.9	319.8	353.3	460.9	485.5	..	..
63 Information service activities	33.9	37.6	38.3	35.7	35.6	37.3	..	..
<b>64-66 Financial and insurance activities</b>	<b>118.9</b>	<b>122.7</b>	<b>120.7</b>	<b>125.9</b>	<b>214.1</b>	<b>218.3</b>	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>1 081.5</b>	<b>1 074.8</b>	<b>1 330.3</b>	<b>1 335.2</b>	<b>1 603.2</b>	<b>1 751.3</b>	..	..
68 Real estate activities	0.2	0.3	0.9	0.9	1.4	1.5	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	505.6	496.9	661.0	682.0	743.2	830.9	..	..
72 Scientific research and development	439.5	461.2	637.0	618.6	809.7	869.8	..	..
77-82 Administrative and support service activities	136.3	116.4	31.3	33.7	48.8	49.1	..	..
84-99 Community, social and personal services	6.6	7.6	11.4	14.5	5.5	5.6	..	..
84-85 Public administration and defence; compulsory social security and education	0.9	1.0	0.9	1.0	..	..	..	..
86-88 Human health and social work activities	5.1	5.2	9.2	12.0	4.1	4.0	..	..
90-93 Arts, entertainment and recreation	0.0	0.4	0.0	0.0	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	0.6	1.0	1.3	1.5	0.6	0.7	..	..

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# BELGIUM

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>5 722.3</b>	<b>5 584.4</b>	<b>6 021.0</b>	<b>6 590.4</b>	<b>7 468.5</b>	<b>7 670.1</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>33.1</b>	<b>33.0</b>	<b>29.8</b>	<b>30.3</b>	<b>17.6</b>	<b>18.7</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>2.1</b>	<b>2.0</b>	<b>6.0</b>	<b>7.6</b>	<b>1.4</b>	<b>2.1</b>	..	..
<b>10-33 MANUFACTURING</b>	<b>3 702.8</b>	<b>3 607.8</b>	<b>3 611.7</b>	<b>4 147.1</b>	<b>4 621.8</b>	<b>4 716.7</b>	..	..
10-12 Food products, beverages and tobacco	116.8	124.4	134.0	142.9	125.5	126.8	..	..
13-15 Textiles, wearing apparel, leather and related products	56.9	56.1	60.2	66.5	56.5	62.1	..	..
13 Textiles	47.4	47.5	49.9	51.2	38.4	42.4	..	..
14 Wearing apparel	2.6	2.8	6.2	6.2	7.0	8.0	..	..
15 Leather and related products, footwear	6.8	5.8	4.1	9.0	11.0	11.7	..	..
16-18 Wood and paper products and printing	21.6	23.0	19.5	22.9	30.6	33.4	..	..
16 Wood and wood products, except furniture	6.1	6.3	6.0	6.7	14.1	15.6	..	..
17 Paper and paper products	10.7	11.0	9.8	12.2	12.4	13.3	..	..
18 Printing and reproduction of recorded media	4.8	5.6	3.6	4.0	4.0	4.4	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	1 948.7	1 926.0	1 899.4	2 277.4	2 765.5	2 810.0	..	..
19 Coke and refined petroleum products	14.8	15.4	6.8	7.7	10.8	11.1	..	..
20-21 Chemical and pharmaceutical products	1 765.8	1 735.9	1 717.8	2 087.6	2 584.6	2 632.9	..	..
20 Chemicals and chemical products	364.2	337.6	348.9	411.2	433.4	422.3	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	1 401.6	1 398.3	1 368.9	1 676.4	2 151.2	2 210.6	..	..
22 Rubber and plastic products	105.4	99.9	102.8	107.0	105.8	103.5	..	..
23 Other non-metallic mineral products	62.7	74.8	72.0	75.1	64.3	62.6	..	..
24-25 Basic metals, metal products, except machinery and equipment	190.6	191.6	237.0	269.5	283.2	263.9	..	..
24 Basic metals	120.7	115.7	136.0	165.1	162.3	142.2	..	..
25 Fabricated metal products, except machinery and equipment	69.8	75.9	101.0	104.5	120.9	121.6	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	1 329.8	1 244.2	1 224.8	1 327.8	1 303.5	1 357.7	..	..
26 Computer, electronic and optical products	580.4	552.5	489.6	499.5	525.5	543.9	..	..
27 Electrical equipment	268.7	240.3	241.7	260.4	160.1	156.2	..	..
28 Machinery and equipment n.e.c.	264.8	235.8	260.2	282.2	340.2	344.6	..	..
29 Motor vehicles, trailers and semi-trailers	108.5	102.8	106.4	133.1	145.3	168.3	..	..
30 Other transport equipment	107.2	112.9	127.0	152.5	132.4	144.6	..	..
31-33 Furniture; repair, installation of machinery and equipment	38.6	42.4	36.8	40.1	57.1	62.8	..	..
31 Furniture	10.2	11.1	9.7	10.2	11.8	11.5	..	..
32 Other manufacturing	12.7	15.6	14.2	15.8	20.0	22.9	..	..
33 Repair and installation of machinery and equipment	15.7	15.6	12.9	14.2	25.3	28.3	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>31.0</b>	<b>20.2</b>	<b>60.7</b>	<b>67.2</b>	<b>101.4</b>	<b>116.8</b>	..	..
35-36 Electricity, gas and water	22.5	12.1	41.9	50.5	86.4	96.1	..	..
37-39 Sewerage, waste management and remediation activities	8.4	8.1	18.9	16.8	15.1	20.6	..	..
<b>41-43 CONSTRUCTION</b>	<b>55.2</b>	<b>60.8</b>	<b>76.3</b>	<b>66.0</b>	<b>41.6</b>	<b>44.6</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>1 897.9</b>	<b>1 860.6</b>	<b>2 236.3</b>	<b>2 272.2</b>	<b>2 684.6</b>	<b>2 771.3</b>	..	..
<b>45-82 Business sector services</b>	<b>1 890.8</b>	<b>1 852.7</b>	<b>2 224.9</b>	<b>2 258.0</b>	<b>2 679.4</b>	<b>2 766.2</b>	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>136.9</b>	<b>132.8</b>	<b>167.0</b>	<b>158.3</b>	<b>320.8</b>	<b>323.9</b>	..	..
<b>49-53 Transportation and storage</b>	<b>15.5</b>	<b>20.4</b>	<b>14.5</b>	<b>17.7</b>	<b>16.1</b>	<b>19.7</b>	..	..
<b>55-56 Accommodation and food service activities</b>	<b>1.2</b>	<b>1.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.0</b>	..	..
<b>58-63 Information and communication</b>	<b>456.4</b>	<b>457.1</b>	<b>592.5</b>	<b>655.0</b>	<b>624.0</b>	<b>617.1</b>	..	..
58-60 Publishing, audiovisual and broadcasting activities	24.5	22.9	27.4	31.2	48.3	51.2	..	..
58 Publishing activities	16.0	15.5	20.2	21.6	42.4	43.8	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	8.5	7.4	7.2	9.6	5.9	7.3	..	..
59 Motion picture, video and TV programme production; sound and music	2.9	2.3	5.3	7.3	3.4	4.1	..	..
60 Programming and broadcasting activities	5.6	5.1	1.9	2.2	2.5	3.2	..	..
61 Telecommunications	151.5	145.6	206.9	243.8	106.3	86.6	..	..
62-63 IT and other information services	280.4	288.7	358.1	379.9	469.5	479.3	..	..
62 Computer programming, consultancy and related activities	244.2	249.7	319.8	345.1	435.8	445.1	..	..
63 Information service activities	36.2	39.0	38.3	34.9	33.6	34.2	..	..
<b>64-66 Financial and insurance activities</b>	<b>126.9</b>	<b>127.2</b>	<b>120.7</b>	<b>122.9</b>	<b>202.4</b>	<b>200.1</b>	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>1 153.8</b>	<b>1 113.9</b>	<b>1 330.3</b>	<b>1 304.1</b>	<b>1 516.0</b>	<b>1 605.3</b>	..	..
68 Real estate activities	0.2	0.3	0.9	0.9	1.3	1.4	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	539.4	515.0	661.0	666.1	702.8	761.7	..	..
72 Scientific research and development	468.9	478.0	637.0	604.2	765.7	797.3	..	..
77-82 Administrative and support service activities	145.4	120.7	31.3	32.9	46.2	45.0	..	..
84-99 Community, social and personal services	7.1	7.9	11.4	14.1	5.2	5.1	..	..
84-85 Public administration and defence; compulsory social security and education	1.0	1.1	0.9	0.9	..	..	..	..
86-88 Human health and social work activities	5.5	5.4	9.2	11.7	3.8	3.6	..	..
90-93 Arts, entertainment and recreation	0.0	0.4	0.0	0.0	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	0.6	1.0	1.3	1.4	0.6	0.6	..	..

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# BELGIUM

## R&D expenditure in industry by industry orientation, current prices

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>5 363.7</b>	<b>5 388.0</b>	<b>6 021.0</b>	<b>6 747.6</b>	<b>7 898.1</b>	<b>8 367.4</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>78.2 e</b>	<b>92.5 e</b>	<b>96.9</b>	<b>104.3</b>	<b>79.0</b>	<b>89.8</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>1.9 e</b>	<b>1.9 e</b>	<b>6.1</b>	<b>7.8</b>	<b>6.8</b>	<b>6.0</b>	..	..
<b>10-33 MANUFACTURING</b>	<b>3 909.0 e</b>	<b>3 937.5 e</b>	<b>4 463.6</b>	<b>5 071.8</b>	<b>6 143.2</b>	<b>6 475.3</b>	..	..
10-12 Food products, beverages and tobacco	143.8 e	149.9 e	182.4	180.8	200.7	202.0	..	..
13-15 Textiles, wearing apparel, leather and related products	52.9 e	54.1 e	62.0	71.0	74.6	84.2	..	..
13 Textiles	44.2 e	45.9 e	49.5	52.0	50.3	56.9	..	..
14 Wearing apparel	2.3 e	2.5 e	6.3	6.5	12.6	14.5	..	..
15 Leather and related products, footwear	6.4 e	5.6 e	6.2	12.4	11.6	12.8	..	..
16-18 Wood and paper products and printing	25.2 e	25.5 e	17.9	21.9	32.8	37.6	..	..
16 Wood and wood products, except furniture	5.5 e	6.0 e	5.5	6.3	14.6	17.2	..	..
17 Paper and paper products	17.3 e	17.0 e	9.8	12.5	14.0	15.6	..	..
18 Printing and reproduction of recorded media	2.4 e	2.5 e	2.6	3.1	4.2	4.8	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	2 222.7 e	2 271.7 e	2 593.0	3 016.1	3 688.1 e	3 859.0 e	..	..
19 Coke and refined petroleum products	12.3 e	13.1 e	7.2	8.0	12.0 e	12.4 e	..	..
20-21 Chemical and pharmaceutical products	2 001.9 e	2 041.1 e	2 345.7	2 756.5	3 454.1	3 622.7	..	..
20 Chemicals and chemical products	522.9 e	500.5 e	605.9	688.2	774.8	778.4	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	1 478.9 e	1 540.6 e	1 739.8	2 068.3	2 679.4	2 844.3	..	..
22 Rubber and plastic products	141.4 e	135.7 e	155.3	160.0	129.7	129.9	..	..
23 Other non-metallic mineral products	67.1 e	81.8 e	84.8	91.5	92.2	94.0	..	..
24-25 Basic metals, metal products, except machinery and equipment	250.8 e	252.8 e	286.5	345.9	342.8	333.1	..	..
24 Basic metals	118.2 e	117.5 e	162.2	199.3	210.1	193.7	..	..
25 Fabricated metal products, except machinery and equipment	132.6 e	135.3 e	124.3	146.5	132.7	139.4	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	1 191.8 e	1 158.6 e	1 289.9	1 401.2	1 747.1	1 892.8	..	..
26 Computer, electronic and optical products	667.0 e	646.8 e	520.6	541.4	643.7	685.0	..	..
27 Electrical equipment	82.3 e	78.4 e	176.6	201.6	172.5	173.7	..	..
28 Machinery and equipment n.e.c.	240.5 e	222.3 e	266.6	295.4	371.9	389.4	..	..
29 Motor vehicles, trailers and semi-trailers	94.4 e	94.3 e	194.5	201.8	400.1	460.6	..	..
30 Other transport equipment	107.6 e	116.7 e	131.7	161.0	158.9	184.1	..	..
31-33 Furniture; repair, installation of machinery and equipment	21.8 e	24.8 e	32.0	35.0	57.1 e	66.6 e	..	..
31 Furniture	..	..	8.7	9.2	13.8 e	14.2 e	..	..
32 Other manufacturing	..	..	21.2	23.3	39.6	48.5	..	..
33 Repair and installation of machinery and equipment	..	..	2.1	2.5	3.7 e	3.9 e	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>31.2 e</b>	<b>17.4 e</b>	<b>62.1</b>	<b>70.0</b>	<b>132.2</b>	<b>154.9</b>	..	..
35-36 Electricity, gas and water	..	..	42.5	52.1	113.7	129.6	..	..
37-39 Sewerage, waste management and remediation activities	..	..	19.6	17.9	18.5	25.4	..	..
<b>41-43 CONSTRUCTION</b>	<b>52.4 e</b>	<b>57.7 e</b>	<b>80.4</b>	<b>73.7</b>	<b>79.2</b>	<b>84.8</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>1 290.9 e</b>	<b>1 280.9 e</b>	<b>1 312.0</b>	<b>1 420.0</b>	<b>1 457.6</b>	<b>1 556.6</b>	..	..
<b>45-82 Business sector services</b>	<b>1 276.7 e</b>	<b>1 266.7 e</b>	<b>1 295.2</b>	<b>1 399.8</b>	<b>1 407.4</b>	<b>1 497.6</b>	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>46.2 e</b>	<b>51.2 e</b>	<b>83.5</b>	<b>75.7</b>	<b>63.8</b>	<b>75.6</b>	..	..
<b>49-53 Transportation and storage</b>	<b>14.0 e</b>	<b>19.0 e</b>	<b>15.1</b>	<b>18.4</b>	<b>16.3</b>	<b>20.0</b>	..	..
<b>55-56 Accommodation and food service activities</b>	<b>1.8 e</b>	<b>2.1 e</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1 e</b>	<b>0.1 e</b>	..	..
<b>58-63 Information and communication</b>	<b>715.0 e</b>	<b>705.4 e</b>	<b>700.6</b>	<b>775.2</b>	<b>748.6</b>	<b>772.6</b>	..	..
58-60 Publishing, audiovisual and broadcasting activities	..	..	27.4	31.7	29.8	31.1	..	..
58 Publishing activities	..	..	20.2	21.9	22.7	22.1	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	7.2	9.8	718.9	741.6	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	259.7 e	254.2 e	310.0	350.2	161.4	145.5	..	..
62-63 IT and other information services	..	..	363.1	393.2	557.5	596.0	..	..
62 Computer programming, consultancy and related activities	..	..	324.3	356.8	512.0	548.5	..	..
63 Information service activities	..	..	38.8	36.5	45.6	47.6	..	..
<b>64-66 Financial and insurance activities</b>	<b>78.0 e</b>	<b>82.2 e</b>	<b>114.3</b>	<b>119.5</b>	<b>111.5</b>	<b>106.5</b>	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>421.7 e</b>	<b>406.8 e</b>	<b>381.8</b>	<b>411.0</b>	<b>467.0 e</b>	<b>522.8 e</b>	..	..
68 Real estate activities	..	..	0.9	0.9	2.9 e	3.0 e	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	345.0	370.1	446.2	500.0	..	..
72 Scientific research and development	6.9 e	8.8 e	4.9	6.2	7.4	7.6	..	..
77-82 Administrative and support service activities	..	..	30.9	33.8	10.5	12.2	..	..
84-99 Community, social and personal services	14.3 e	14.3 e	16.8	20.1	50.2	58.9	..	..
84-85 Public administration and defence; compulsory social security and education	..	..	1.0	1.1	4.3 e	4.5 e	..	..
86-88 Human health and social work activities	..	..	15.5	18.7	44.3	52.7	..	..
90-93 Arts, entertainment and recreation	..	..	0.0	0.0	0.2 e	0.2 e	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	0.3	0.4	1.5 e	1.6 e	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# BELGIUM

## R&D expenditure in industry by industry orientation, constant prices

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>5 722.3</b>	<b>5 584.4</b>	<b>6 021.0</b>	<b>6 590.4</b>	<b>7 468.5</b>	<b>7 670.1</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>83.4 e</b>	<b>95.9 e</b>	<b>96.9</b>	<b>101.9</b>	<b>74.7</b>	<b>82.3</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>2.1 e</b>	<b>2.0 e</b>	<b>6.1</b>	<b>7.6</b>	<b>6.5</b>	<b>5.5</b>	..	..
<b>10-33 MANUFACTURING</b>	<b>4 170.4 e</b>	<b>4 081.0 e</b>	<b>4 463.6</b>	<b>4 953.7</b>	<b>5 809.1</b>	<b>5 935.7</b>	..	..
10-12 Food products, beverages and tobacco	153.5 e	155.4 e	182.4	176.6	189.7	185.1	..	..
13-15 Textiles, wearing apparel, leather and related products	56.4 e	56.1 e	62.0	69.3	70.5	77.2	..	..
13 Textiles	47.2 e	47.6 e	49.5	50.8	47.6	52.1	..	..
14 Wearing apparel	2.5 e	2.6 e	6.3	6.4	12.0	13.3	..	..
15 Leather and related products, footwear	6.8 e	5.8 e	6.2	12.1	11.0	11.7	..	..
16-18 Wood and paper products and printing	26.8 e	26.5 e	17.9	21.4	31.0	34.5	..	..
16 Wood and wood products, except furniture	5.9 e	6.2 e	5.5	6.1	13.8	15.8	..	..
17 Paper and paper products	18.4 e	17.7 e	9.8	12.2	13.2	14.3	..	..
18 Printing and reproduction of recorded media	2.6 e	2.6 e	2.6	3.0	4.0	4.4	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	2 371.3 e	2 354.5 e	2 593.0	2 945.8	3 487.5 e	3 537.4 e	..	..
19 Coke and refined petroleum products	13.1 e	13.6 e	7.2	7.8	11.4 e	11.4 e	..	..
20-21 Chemical and pharmaceutical products	2 135.7 e	2 115.5 e	2 345.7	2 692.3	3 266.3	3 320.8	..	..
20 Chemicals and chemical products	557.9 e	518.7 e	605.9	672.2	732.6	713.5	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	1 577.8 e	1 596.8 e	1 739.8	2 020.1	2 533.7	2 607.3	..	..
22 Rubber and plastic products	150.9 e	140.7 e	155.3	156.3	122.7	119.1	..	..
23 Other non-metallic mineral products	71.6 e	84.8 e	84.8	89.4	87.2	86.2	..	..
24-25 Basic metals, metal products, except machinery and equipment	267.6 e	262.1 e	286.5	337.8	324.2	305.3	..	..
24 Basic metals	126.1 e	121.8 e	162.2	194.7	198.7	177.6	..	..
25 Fabricated metal products, except machinery and equipment	141.4 e	140.2 e	124.3	143.1	125.5	127.8	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	1 271.5 e	1 200.8 e	1 289.9	1 368.6	1 652.1	1 735.1	..	..
26 Computer, electronic and optical products	711.6 e	670.4 e	520.6	528.8	608.7	628.0	..	..
27 Electrical equipment	87.9 e	81.3 e	176.6	196.9	163.1	159.2	..	..
28 Machinery and equipment n.e.c.	256.5 e	230.4 e	266.6	288.6	351.6	357.0	..	..
29 Motor vehicles, trailers and semi-trailers	100.7 e	97.8 e	194.5	197.1	378.3	422.2	..	..
30 Other transport equipment	114.8 e	121.0 e	131.7	157.2	150.3	168.7	..	..
31-33 Furniture; repair, installation of machinery and equipment	23.3 e	25.7 e	32.0	34.1	54.0 e	61.0 e	..	..
31 Furniture	..	..	8.7	9.0	13.0 e	13.1 e	..	..
32 Other manufacturing	..	..	21.2	22.7	37.5	44.4	..	..
33 Repair and installation of machinery and equipment	..	..	2.1	2.4	3.5 e	3.5 e	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>33.3 e</b>	<b>18.0 e</b>	<b>62.1</b>	<b>68.3</b>	<b>125.0</b>	<b>142.0</b>	..	..
35-36 Electricity, gas and water	..	..	42.5	50.9	107.5	118.8	..	..
37-39 Sewerage, waste management and remediation activities	..	..	19.6	17.5	17.5	23.2	..	..
<b>41-43 CONSTRUCTION</b>	<b>55.9 e</b>	<b>59.9 e</b>	<b>80.4</b>	<b>72.0</b>	<b>74.9</b>	<b>77.7</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>1 377.2 e</b>	<b>1 327.6 e</b>	<b>1 312.0</b>	<b>1 386.9</b>	<b>1 378.3</b>	<b>1 426.9</b>	..	..
<b>45-82 Business sector services</b>	<b>1 362.0 e</b>	<b>1 312.8 e</b>	<b>1 295.2</b>	<b>1 367.2</b>	<b>1 330.8</b>	<b>1 372.8</b>	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>49.3 e</b>	<b>53.1 e</b>	<b>83.5</b>	<b>73.9</b>	<b>60.4</b>	<b>69.3</b>	..	..
<b>49-53 Transportation and storage</b>	<b>15.0 e</b>	<b>19.7 e</b>	<b>15.1</b>	<b>18.0</b>	<b>15.4</b>	<b>18.3</b>	..	..
<b>55-56 Accommodation and food service activities</b>	<b>1.9 e</b>	<b>2.2 e</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1 e</b>	<b>0.1 e</b>	..	..
<b>58-63 Information and communication</b>	<b>762.8 e</b>	<b>731.1 e</b>	<b>700.6</b>	<b>757.2</b>	<b>707.9</b>	<b>708.2</b>	..	..
58-60 Publishing, audiovisual and broadcasting activities	..	..	27.4	31.0	28.1	28.5	..	..
58 Publishing activities	..	..	20.2	21.4	21.4	20.2	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	7.2	9.6	679.8	679.8	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	277.0 e	263.5 e	310.0	342.1	152.6	133.4	..	..
62-63 IT and other information services	..	..	363.1	384.1	527.2	546.4	..	..
62 Computer programming, consultancy and related activities	..	..	324.3	348.4	484.1	502.8	..	..
63 Information service activities	..	..	38.8	35.6	43.1	43.6	..	..
<b>64-66 Financial and insurance activities</b>	<b>83.2 e</b>	<b>85.2 e</b>	<b>114.3</b>	<b>116.7</b>	<b>105.4</b>	<b>97.6</b>	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>449.9 e</b>	<b>421.6 e</b>	<b>381.8</b>	<b>401.4</b>	<b>441.6 e</b>	<b>479.3 e</b>	..	..
68 Real estate activities	..	..	0.9	0.9	2.7 e	2.8 e	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	345.0	361.5	421.9	458.3	..	..
72 Scientific research and development	7.4 e	9.1 e	4.9	6.0	7.0	7.0	..	..
77-82 Administrative and support service activities	..	..	30.9	33.0	10.0	11.2	..	..
84-99 Community, social and personal services	15.2 e	14.8 e	16.8	19.7	47.5	54.0	..	..
84-85 Public administration and defence; compulsory social security and education	..	..	1.0	1.0	4.0 e	4.1 e	..	..
86-88 Human health and social work activities	..	..	15.5	18.2	41.9	48.3	..	..
90-93 Arts, entertainment and recreation	..	..	0.0	0.0	0.2 e	0.2 e	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	0.3	0.4	1.4 e	1.4 e	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# CANADA

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>13 483.6</b>	<b>13 348.1</b>	<b>12 941.2</b>	<b>13 625.3</b>	<b>13 417.9</b>	<b>13 098.0</b>	<b>12 829.1</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>108.6 e</b>	<b>105.7</b>	<b>107.3</b>	<b>116.9 e</b>	<b>77.9</b>	<b>66.2</b>	<b>68.7</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>793.9 e</b>	<b>773.2</b>	<b>803.4</b>	<b>1 118.6</b>	<b>1 292.0</b>	<b>1 294.9</b>	<b>1 165.2</b>	..
<b>10-33 MANUFACTURING</b>	<b>6 291.0 e</b>	<b>6 496.0</b>	<b>6 032.9</b>	<b>5 973.0</b>	<b>5 782.5</b>	<b>5 535.9</b>	<b>5 501.1</b>	..
10-12 Food products, beverages and tobacco	161.2 e	167.3	158.9	136.3	126.9	115.6 e	122.0	..
13-15 Textiles, wearing apparel, leather and related products	68.8 e	67.4	59.8	66.9	48.1 e	34.3	38.8	..
13 Textiles	38.9 e	39.1	36.0	35.0 e	25.7	21.2 e	24.2	..
14 Wearing apparel	..	25.0	20.5	28.7 e	19.1 e	9.8	10.9 e	..
15 Leather and related products, footwear	..	3.3	3.3	3.2	3.2 e	3.3 e	3.6 e	..
16-18 Wood and paper products and printing	350.0 e	211.4	244.9	234.7	214.5 e	211.6 e	213.3	..
16 Wood and wood products, except furniture	177.4 e	85.7	71.2	71.0	70.7 e	62.9 e	60.6 e	..
17 Paper and paper products	122.3 e	65.8	123.7	121.8	105.3	110.3	107.9 e	..
18 Printing and reproduction of recorded media	50.2 e	59.9	49.1	41.9	38.6	38.4	44.8 e	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	1 126.0 e	1 269.2 e	1 297.2 e	953.3 e	791.6 e	694.9 e	745.0 e	..
19 Coke and refined petroleum products	170.4 e	246.4 e	271.1 e	71.8 e	56.4 e	60.9 e	88.1 e	..
20-21 Chemical and pharmaceutical products	754.1 e	804.0	835.3	675.9	543.9	473.9	493.7	..
20 Chemicals and chemical products	207.3 e	245.5	288.3	258.1	180.0	144.6	145.4	..
21 Pharmaceuticals, medicinal, chemical and botanical products	546.8 e	558.5	547.0	417.8	364.0	329.2	348.3	..
22 Rubber and plastic products	145.5 e	146.5 e	126.1 e	140.3 e	138.2 e	109.5 e	113.9 e	..
23 Other non-metallic mineral products	55.9 e	72.4	64.7	65.3	53.0	50.7	49.3	..
24-25 Basic metals, metal products, except machinery and equipment	560.7 e	531.0	413.5	409.7	384.9 e	397.9 e	328.1	..
24 Basic metals	273.8 e	221.4	155.6	172.6	167.1 e	194.4 e	107.5	..
25 Fabricated metal products, except machinery and equipment	286.9 e	309.6	258.0	237.1	217.7	203.4	220.6	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	3 808.6 e	4 041.6	3 657.3	3 989.8	4 035.8	3 931.4	3 894.7	..
26 Computer, electronic and optical products	2 008.3 e	2 120.7	1 739.4	1 980.8	2 012.7	1 812.9	1 811.6	..
27 Electrical equipment	132.0 e	135.7	130.2	118.6	117.3	132.4	126.9	..
28 Machinery and equipment n.e.c.	446.3 e	526.8	436.5	516.2	472.4	450.2	450.9	..
29 Motor vehicles, trailers and semi-trailers	281.4 e	208.1	209.6 e	162.1 e	149.4 e	131.5	153.5 e	..
30 Other transport equipment	940.5 e	1 051.2	1 141.6 e	1 212.2 e	1 283.9 e	1 404.4	1 351.8 e	..
31-33 Furniture; repair, installation of machinery and equipment	215.8 e	208.1	201.5	182.3	180.8	150.3	159.2	..
31 Furniture	38.1 e	39.9	34.4	29.0	23.3	17.2	17.8	..
32 Other manufacturing	..	134.8	140.0	125.8	131.8	110.3	122.0	..
33 Repair and installation of machinery and equipment	..	33.3	27.0	27.4	25.7	22.9	19.4	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>175.8 e</b>	<b>155.6</b>	<b>154.0</b>	<b>160.5 e</b>	<b>171.1</b>	<b>189.5</b>	<b>171.3</b>	..
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>98.8 e</b>	<b>112.4</b>	<b>92.5</b>	<b>127.4</b>	<b>88.4</b>	<b>55.6</b>	<b>61.4</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>6 015.5 e</b>	<b>5 706.1</b>	<b>5 751.2</b>	<b>6 128.7</b>	<b>6 005.9</b>	<b>5 955.9</b>	<b>5 860.7</b>	..
<b>45-82 Business sector services</b>	<b>5 762.8 e</b>	<b>5 574.6</b>	<b>5 639.0</b>	<b>6 019.8</b>	<b>5 904.7</b>	<b>5 854.6</b>	<b>5 750.0</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>1 182.8 e</b>	<b>1 121.9</b>	<b>1 111.3</b>	<b>1 198.5</b>	<b>1 255.8</b>	<b>1 144.6</b>	<b>1 150.6</b>	..
<b>49-53 Transportation and storage</b>	<b>99.6 e</b>	<b>139.8</b>	<b>55.7</b>	<b>49.2</b>	<b>50.6</b>	<b>67.0 e</b>	<b>59.8</b>	..
<b>55-56 Accommodation and food service activities</b>	<b>4.7 e</b>	<b>5.0</b>	<b>6.6</b>	<b>2.4 e</b>	<b>2.4</b>	<b>1.6</b>	<b>1.8 e</b>	..
<b>58-63 Information and communication</b>	<b>2 134.7 e</b>	<b>1 954.2</b>	<b>2 112.0</b>	<b>2 171.9</b>	<b>2 076.2</b>	<b>2 145.4</b>	<b>2 131.6</b>	..
58-60 Publishing, audiovisual and broadcasting activities	..	473.6	480.7	494.4	593.8	544.1	552.7	..
58 Publishing activities	..	456.9	459.4	470.2	563.2	510.6	514.7	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	16.6	21.3	24.2	30.5	33.5	37.2	..
59 Motion picture, video and TV programme production; sound and music	..	..	20.5	23.4	28.9 e	31.0	34.7	..
60 Programming and broadcasting activities	..	..	0.8	0.8	1.6 e	2.5	2.4	..
61 Telecommunications	..	441.9	470.1	347.6	322.2	383.2	338.6	..
62-63 IT and other information services	..	1 038.7	1 161.2	1 329.9	1 161.0	1 218.1	1 241.1	..
62 Computer programming, consultancy and related activities	1 016.7 e	980.4	1 100.6	1 254.9	1 079.9	1 125.0	1 135.3	..
63 Information service activities	..	58.3	60.6	75.0	81.2	93.1	105.9	..
<b>64-66 Financial and insurance activities</b>	<b>376.7 e</b>	<b>349.6</b>	<b>255.5</b>	<b>260.5</b>	<b>278.0</b>	<b>370.9</b>	<b>328.9</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>1 964.2 e</b>	<b>2 004.1</b>	<b>2 098.0</b>	<b>2 337.3 e</b>	<b>2 241.7</b>	<b>2 125.0 e</b>	<b>2 077.3 e</b>	..
68 Real estate activities	..	9.2	6.6	6.5 e	6.4	5.7 e	6.3 e	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	482.7	488.9	575.0	555.2	..	..	..
72 Scientific research and development	1 335.1 e	1 395.7	1 504.3	1 641.3	1 564.3	1 500.0	1 473.0	..
77-82 Administrative and support service activities	..	116.5	97.5	114.5	115.7	..	..	..
84-99 Community, social and personal services	252.7 e	131.5	112.2	108.9	101.2	101.3	110.7	..
84-85 Public administration and defence; compulsory social security and education	..	21.6	9.8	10.4 e	11.2	11.4	12.1	..
86-88 Human health and social work activities	188.8 e	95.7	80.3	79.0	72.3	71.1	77.6	..
90-93 Arts, entertainment and recreation	..	4.2	4.1	4.0 e	4.0	4.1	4.0	..
94-99 Other services; household-employers; extraterritorial bodies	..	10.0	18.0	15.4 e	13.7	14.7	17.0	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# CANADA

## R&D expenditure in industry by main activity of the enterprise, constant prices ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>13 700.0</b>	<b>13 511.2</b>	<b>12 941.2</b>	<b>13 400.2</b>	<b>13 086.5</b>	<b>12 367.0</b>	<b>12 019.5</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>110.3 e</b>	<b>107.0</b>	<b>107.3</b>	<b>115.0 e</b>	<b>76.0</b>	<b>62.5</b>	<b>64.3</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>806.7 e</b>	<b>782.6</b>	<b>803.4</b>	<b>1 100.2</b>	<b>1 260.1</b>	<b>1 222.7</b>	<b>1 091.7</b>	..
<b>10-33 MANUFACTURING</b>	<b>6 392.0 e</b>	<b>6 575.3</b>	<b>6 032.9</b>	<b>5 874.4</b>	<b>5 639.7</b>	<b>5 227.0</b>	<b>5 153.9</b>	..
10-12 Food products, beverages and tobacco	163.8 e	169.3	158.9	134.0	123.8	109.2 e	114.3	..
13-15 Textiles, wearing apparel, leather and related products	69.9 e	68.2	59.8	65.8	46.9 e	32.4	36.3	..
13 Textiles	39.5 e	39.6	36.0	34.4 e	25.1	20.1 e	22.7	..
14 Wearing apparel	..	25.3	20.5	28.3 e	18.7 e	9.3	10.2 e	..
15 Leather and related products, footwear	..	3.4	3.3	3.2	3.1 e	3.1 e	3.4 e	..
16-18 Wood and paper products and printing	355.6 e	214.0	244.9	230.8	209.2 e	199.8 e	199.9	..
16 Wood and wood products, except furniture	180.3 e	86.8	71.2	69.8	69.0 e	59.4 e	56.8 e	..
17 Paper and paper products	124.3 e	66.6	123.7	119.8	102.7	104.1	101.1 e	..
18 Printing and reproduction of recorded media	51.0 e	60.7	49.1	41.2	37.6	36.3	42.0 e	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	1 144.0 e	1 284.7 e	1 297.2 e	937.6 e	772.0 e	656.1 e	698.0 e	..
19 Coke and refined petroleum products	173.2 e	249.4 e	271.1 e	70.6 e	55.0 e	57.5 e	82.5 e	..
20-21 Chemical and pharmaceutical products	766.2 e	813.8	835.3	664.7	530.5	447.4	462.6	..
20 Chemicals and chemical products	210.6 e	248.5	288.3	253.8	175.5	136.5	136.3	..
21 Pharmaceuticals, medicinal, chemical and botanical products	555.6 e	565.3	547.0	410.9	355.0	310.9	326.3	..
22 Rubber and plastic products	147.8 e	148.3 e	126.1 e	138.0 e	134.8 e	103.4 e	106.7 e	..
23 Other non-metallic mineral products	56.8 e	73.3	64.7	64.2	51.7	47.8	46.2	..
24-25 Basic metals, metal products, except machinery and equipment	569.7 e	537.5	413.5	402.9	375.4 e	375.7 e	307.4	..
24 Basic metals	278.2 e	224.1	155.6	169.7	163.0 e	183.6 e	100.7	..
25 Fabricated metal products, except machinery and equipment	291.5 e	313.4	258.0	233.2	212.4	192.1	206.7	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	3 869.7 e	4 090.9	3 657.3	3 923.9	3 936.1	3 712.0	3 648.9	..
26 Computer, electronic and optical products	2 040.5 e	2 146.6	1 739.4	1 948.1	1 963.0	1 711.7	1 697.3	..
27 Electrical equipment	134.2 e	137.3	130.2	116.6	114.4	125.0	118.9	..
28 Machinery and equipment n.e.c.	453.4 e	533.3	436.5	507.6	460.8	425.0	422.4	..
29 Motor vehicles, trailers and semi-trailers	285.9 e	210.6	209.6 e	159.4 e	145.8 e	124.2	143.8 e	..
30 Other transport equipment	955.6 e	1 064.0	1 141.6 e	1 192.2 e	1 252.2 e	1 326.0	1 266.5 e	..
31-33 Furniture; repair, installation of machinery and equipment	219.3 e	210.6	201.5	179.3	176.3	141.9	149.1	..
31 Furniture	38.7 e	40.4	34.4	28.6	22.7	16.2	16.7	..
32 Other manufacturing	..	136.5	140.0	123.7	128.5	104.1	114.3	..
33 Repair and installation of machinery and equipment	..	33.7	27.0	27.0	25.1	21.6	18.2	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>178.6 e</b>	<b>157.5</b>	<b>154.0</b>	<b>157.8 e</b>	<b>166.9</b>	<b>179.0</b>	<b>160.5</b>	..
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>100.4 e</b>	<b>113.7</b>	<b>92.5</b>	<b>125.3</b>	<b>86.2</b>	<b>52.5</b>	<b>57.5</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>6 112.0 e</b>	<b>5 775.8</b>	<b>5 751.2</b>	<b>6 027.5</b>	<b>5 857.6</b>	<b>5 623.5</b>	<b>5 490.8</b>	..
<b>45-82 Business sector services</b>	<b>5 855.3 e</b>	<b>5 642.7</b>	<b>5 639.0</b>	<b>5 920.4</b>	<b>5 758.9</b>	<b>5 527.8</b>	<b>5 387.1</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>1 201.8 e</b>	<b>1 135.6</b>	<b>1 111.3</b>	<b>1 178.7</b>	<b>1 224.8</b>	<b>1 080.7</b>	<b>1 078.0</b>	..
<b>49-53 Transportation and storage</b>	<b>101.2 e</b>	<b>141.5</b>	<b>55.7</b>	<b>48.4</b>	<b>49.4</b>	<b>63.3 e</b>	<b>56.0</b>	..
<b>55-56 Accommodation and food service activities</b>	<b>4.8 e</b>	<b>5.1</b>	<b>6.6</b>	<b>2.4 e</b>	<b>2.4</b>	<b>1.5</b>	<b>1.7 e</b>	..
<b>58-63 Information and communication</b>	<b>2 168.9 e</b>	<b>1 978.1</b>	<b>2 112.0</b>	<b>2 136.1</b>	<b>2 024.9</b>	<b>2 025.7</b>	<b>1 997.1</b>	..
58-60 Publishing, audiovisual and broadcasting activities	..	479.4	480.7	486.2	579.1	513.8	517.8	..
58 Publishing activities	..	462.5	459.4	462.4	549.3	482.1	482.2	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	16.8	21.3	23.8	29.8	31.6	34.8	..
59 Motion picture, video and TV programme production; sound and music	..	..	20.5	23.0	28.2 e	29.3	32.6	..
60 Programming and broadcasting activities	..	..	0.8	0.8	1.6 e	2.3	2.3	..
61 Telecommunications	..	447.3	470.1	341.9	314.2	361.8	317.2	..
62-63 IT and other information services	..	1 051.4	1 161.2	1 308.0	1 132.3	1 150.2	1 162.8	..
62 Computer programming, consultancy and related activities	1 033.0 e	992.4	1 100.6	1 234.2	1 053.2	1 062.2	1 063.6	..
63 Information service activities	..	59.0	60.6	73.8	79.1	87.9	99.2	..
<b>64-66 Financial and insurance activities</b>	<b>382.7 e</b>	<b>353.8</b>	<b>255.5</b>	<b>256.2</b>	<b>271.1</b>	<b>350.2</b>	<b>308.1</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>1 995.7 e</b>	<b>2 028.6</b>	<b>2 098.0</b>	<b>2 298.7 e</b>	<b>2 186.3</b>	<b>2 006.4 e</b>	<b>1 946.2 e</b>	..
68 Real estate activities	..	9.3	6.6	6.3 e	6.3	5.4 e	5.9 e	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	488.6	488.9	565.5	541.5	..	..	..
72 Scientific research and development	1 356.5 e	1 412.8	1 504.3	1 614.2	1 525.7	1 416.3	1 380.1	..
77-82 Administrative and support service activities	..	117.9	97.5	112.6	112.8	..	..	..
84-99 Community, social and personal services	256.7 e	133.1	112.2	107.1	98.7	95.7	103.7	..
84-85 Public administration and defence; compulsory social security and education	..	21.9	9.8	10.2 e	11.0	10.8	11.4	..
86-88 Human health and social work activities	191.8 e	96.9	80.3	77.7	70.5	67.1	72.7	..
90-93 Arts, entertainment and recreation	..	4.2	4.1	4.0 e	3.9	3.9	3.8	..
94-99 Other services; household-employers; extraterritorial bodies	..	10.1	18.0	15.2 e	13.3	13.9	15.9	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# CHILE

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>414.7</b>	<b>282.6</b>	<b>304.4</b>	<b>419.5</b>	<b>466.7</b>	<b>536.4</b>	<b>508.0</b>	<b>550.2</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>13.3 e</b>	<b>8.6 e</b>	<b>10.0 e</b>	<b>50.8 e</b>	<b>48.0</b>	<b>87.9</b>	<b>69.7</b>	<b>71.9</b>
<b>05-09 MINING AND QUARRYING</b>	<b>22.7 e</b>	<b>56.2 e</b>	<b>65.0 e</b>	<b>41.6 e</b>	<b>66.6</b>	<b>93.7</b>	<b>52.8</b>	<b>109.1</b>
<b>10-33 MANUFACTURING</b>	<b>74.3 e</b>	<b>42.8 e</b>	<b>52.2 e</b>	<b>93.6 e</b>	<b>117.0</b>	<b>120.9</b>	<b>153.6</b>	<b>152.5</b>
10-12 Food products, beverages and tobacco	..	..	..	..	25.1	26.1	59.0	65.8
13-15 Textiles, wearing apparel, leather and related products	..	..	..	..	1.5	0.6	1.3	0.4
13 Textiles	..	..	..	..	0.6	0.4	1.0	0.1
14 Wearing apparel	..	..	..	..	0.0	0.0	0.0	0.0
15 Leather and related products, footwear	..	..	..	..	0.9	0.3	0.3	0.2
16-18 Wood and paper products and printing	..	..	..	..	7.2	6.2	5.0	5.9
16 Wood and wood products, except furniture	..	..	..	..	0.5	1.7	1.2	1.7
17 Paper and paper products	..	..	..	..	6.7	4.5	3.8	4.1
18 Printing and reproduction of recorded media	..	..	..	..	0.0	0.0	0.0	0.1
19-23 Chemical, rubber, plastic, non-metallic mineral products	..	..	..	..	60.0	66.7	67.8	62.9
19 Coke and refined petroleum products	..	..	..	..	0.5	1.2	0.4	0.2
20-21 Chemical and pharmaceutical products	..	..	..	..	55.8	56.8	60.9	55.0
20 Chemicals and chemical products	..	..	..	..	37.4	23.2	32.7	25.3
21 Pharmaceuticals, medicinal, chemical and botanical products	..	..	..	..	18.5	33.7	28.1	29.7
22 Rubber and plastic products	..	..	..	..	1.1	5.8	4.7	5.3
23 Other non-metallic mineral products	..	..	..	..	2.5	2.9	1.8	2.5
24-25 Basic metals, metal products, except machinery and equipment	..	..	..	..	11.2	11.5	10.7	9.2
24 Basic metals	..	..	..	..	6.2	6.6	6.5	4.8
25 Fabricated metal products, except machinery and equipment	..	..	..	..	5.1	4.9	4.2	4.4
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	..	..	..	..	8.4	6.8	7.0	7.1
26 Computer, electronic and optical products	..	..	..	..	0.5	1.2	1.7	1.0
27 Electrical equipment	..	..	..	..	1.3	1.2	1.5	2.2
28 Machinery and equipment n.e.c.	..	..	..	..	3.8	3.8	2.7	3.0
29 Motor vehicles, trailers and semi-trailers	..	..	..	..	1.3	0.0	0.7	0.8
30 Other transport equipment	..	..	..	..	1.4	0.5	0.4	0.2
31-33 Furniture; repair, installation of machinery and equipment	..	..	..	..	3.6	3.1	2.8	1.2
31 Furniture	..	..	..	..	0.5	1.7	0.8	0.6
32 Other manufacturing	..	..	..	..	0.0	0.9	1.1	0.1
33 Repair and installation of machinery and equipment	..	..	..	..	3.1	0.5	1.0	0.5
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>0.6 e</b>	<b>0.4 e</b>	<b>0.5 e</b>	<b>7.8 e</b>	<b>10.9</b>	<b>12.5</b>	<b>7.1</b>	<b>4.2</b>
35-36 Electricity, gas and water	..	..	..	..	10.9	9.0	4.3	3.3
37-39 Sewerage, waste management and remediation activities	..	..	..	..	0.0	3.5	2.8	0.9
<b>41-43 CONSTRUCTION</b>	<b>1.8 e</b>	<b>0.1 e</b>	<b>0.2 e</b>	<b>3.8 e</b>	<b>3.7</b>	<b>3.3</b>	<b>3.3</b>	<b>3.2</b>
<b>45-99 TOTAL SERVICES</b>	<b>302.1 e</b>	<b>174.5 e</b>	<b>176.5 e</b>	<b>221.9 e</b>	<b>219.1</b>	<b>218.1</b>	<b>221.5</b>	<b>209.2</b>
<b>45-82 Business sector services</b>	<b>299.9 e</b>	<b>173.6 e</b>	<b>175.4 e</b>	<b>220.5 e</b>	<b>216.1</b>	<b>207.9</b>	<b>216.1</b>	<b>200.0</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>63.6</b>	<b>42.5</b>	<b>59.5</b>	<b>52.0</b>
<b>49-53 Transportation and storage</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>3.1</b>	<b>1.7</b>	<b>8.4</b>	<b>4.8</b>
<b>55-56 Accommodation and food service activities</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>0.0</b>	<b>0.6</b>	<b>0.5</b>	<b>0.0</b>
<b>58-63 Information and communication</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>32.0</b>	<b>47.6</b>	<b>28.3</b>	<b>36.3</b>
58-60 Publishing, audiovisual and broadcasting activities	..	..	..	..	1.7	8.4	1.8	0.0
58 Publishing activities	..	..	..	..	0.1	6.3	1.8	0.0
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	..	1.6	2.1	0.0	0.0
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	1.6	2.0	0.0	0.0
60 Programming and broadcasting activities	..	..	..	..	0.0	0.1	0.0	0.0
61 Telecommunications	..	..	..	..	1.5	1.9	0.4	2.6
62-63 IT and other information services	..	..	..	..	28.8	37.3	26.1	33.8
62 Computer programming, consultancy and related activities	..	..	..	..	23.3	35.5	25.1	33.0
63 Information service activities	..	..	..	..	5.6	1.8	1.0	0.8
<b>64-66 Financial and insurance activities</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>35.0</b>	<b>24.8</b>	<b>28.5</b>	<b>11.6</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>82.4</b>	<b>90.8</b>	<b>90.9</b>	<b>95.3</b>
68 Real estate activities	..	..	..	..	0.6	0.0	0.0	0.0
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	..	..	59.2	50.1	49.3	35.1
72 Scientific research and development	..	..	..	..	20.8	37.8	39.9	57.8
77-82 Administrative and support service activities	..	..	..	..	1.7	2.9	1.7	2.4
84-99 Community, social and personal services	2.2 e	0.9 e	1.1 e	1.4 e	3.0	10.2	5.4	9.2
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	0.0	2.3	1.9	1.0
86-88 Human health and social work activities	..	..	..	..	2.9	5.1	2.2	6.8
90-93 Arts, entertainment and recreation	..	..	..	..	0.1	2.0	0.0	0.4
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	0.0	0.8	1.3	1.1

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# CHILE

## R&D expenditure in industry by main activity of the enterprise, constant prices ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>453.8</b>	<b>304.2</b>	<b>304.4</b>	<b>396.0</b>	<b>434.7</b>	<b>493.5</b>	<b>461.9</b>	<b>496.5</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>14.5 e</b>	<b>9.2 e</b>	<b>10.0 e</b>	<b>48.0 e</b>	<b>44.7</b>	<b>80.8</b>	<b>63.4</b>	<b>64.9</b>
<b>05-09 MINING AND QUARRYING</b>	<b>24.8 e</b>	<b>60.5 e</b>	<b>65.0 e</b>	<b>39.3 e</b>	<b>62.0</b>	<b>86.2</b>	<b>48.0</b>	<b>98.5</b>
<b>10-33 MANUFACTURING</b>	<b>81.3 e</b>	<b>46.0 e</b>	<b>52.2 e</b>	<b>88.3 e</b>	<b>109.0</b>	<b>111.2</b>	<b>139.7</b>	<b>137.6</b>
10-12 Food products, beverages and tobacco	..	..	..	..	23.4	24.0	53.6	59.3
13-15 Textiles, wearing apparel, leather and related products	..	..	..	..	1.4	0.6	1.1	0.3
13 Textiles	..	..	..	..	0.6	0.3	0.9	0.1
14 Wearing apparel	..	..	..	..	0.0	0.0	0.0	0.0
15 Leather and related products, footwear	..	..	..	..	0.8	0.2	0.3	0.2
16-18 Wood and paper products and printing	..	..	..	..	6.7	5.7	4.6	5.4
16 Wood and wood products, except furniture	..	..	..	..	0.5	1.6	1.1	1.6
17 Paper and paper products	..	..	..	..	6.2	4.1	3.5	3.7
18 Printing and reproduction of recorded media	..	..	..	..	0.0	0.0	0.0	0.1
19-23 Chemical, rubber, plastic, non-metallic mineral products	..	..	..	..	55.8	61.4	61.7	56.8
19 Coke and refined petroleum products	..	..	..	..	0.4	1.1	0.4	0.2
20-21 Chemical and pharmaceutical products	..	..	..	..	52.0	52.3	55.3	49.6
20 Chemicals and chemical products	..	..	..	..	34.8	21.3	29.8	22.8
21 Pharmaceuticals, medicinal, chemical and botanical products	..	..	..	..	17.2	31.0	25.6	26.8
22 Rubber and plastic products	..	..	..	..	1.0	5.3	4.3	4.8
23 Other non-metallic mineral products	..	..	..	..	2.3	2.7	1.7	2.2
24-25 Basic metals, metal products, except machinery and equipment	..	..	..	..	10.5	10.5	9.7	8.3
24 Basic metals	..	..	..	..	5.7	6.0	5.9	4.3
25 Fabricated metal products, except machinery and equipment	..	..	..	..	4.7	4.5	3.8	4.0
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	..	..	..	..	7.8	6.2	6.3	6.4
26 Computer, electronic and optical products	..	..	..	..	0.5	1.1	1.6	0.9
27 Electrical equipment	..	..	..	..	1.2	1.1	1.4	1.9
28 Machinery and equipment n.e.c.	..	..	..	..	3.6	3.5	2.4	2.7
29 Motor vehicles, trailers and semi-trailers	..	..	..	..	1.2	0.0	0.6	0.7
30 Other transport equipment	..	..	..	..	1.3	0.5	0.4	0.1
31-33 Furniture; repair, installation of machinery and equipment	..	..	..	..	3.4	2.8	2.6	1.1
31 Furniture	..	..	..	..	0.5	1.6	0.7	0.5
32 Other manufacturing	..	..	..	..	0.0	0.8	1.0	0.1
33 Repair and installation of machinery and equipment	..	..	..	..	2.9	0.4	0.9	0.5
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>0.7 e</b>	<b>0.5 e</b>	<b>0.5 e</b>	<b>7.4 e</b>	<b>10.2</b>	<b>11.5</b>	<b>6.5</b>	<b>3.8</b>
35-36 Electricity, gas and water	..	..	..	..	10.1	8.3	3.9	3.0
37-39 Sewerage, waste management and remediation activities	..	..	..	..	0.0	3.2	2.6	0.8
<b>41-43 CONSTRUCTION</b>	<b>2.0 e</b>	<b>0.1 e</b>	<b>0.2 e</b>	<b>3.5 e</b>	<b>3.4</b>	<b>3.0</b>	<b>3.0</b>	<b>2.9</b>
<b>45-99 TOTAL SERVICES</b>	<b>330.5 e</b>	<b>187.9 e</b>	<b>176.5 e</b>	<b>209.5 e</b>	<b>204.1</b>	<b>200.6</b>	<b>201.4</b>	<b>188.8</b>
<b>45-82 Business sector services</b>	<b>328.1 e</b>	<b>186.9 e</b>	<b>175.4 e</b>	<b>208.2 e</b>	<b>201.3</b>	<b>191.3</b>	<b>196.5</b>	<b>180.5</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>59.2</b>	<b>39.1</b>	<b>54.1</b>	<b>47.0</b>
<b>49-53 Transportation and storage</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>2.9</b>	<b>1.6</b>	<b>7.7</b>	<b>4.3</b>
<b>55-56 Accommodation and food service activities</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>0.0</b>	<b>0.5</b>	<b>0.4</b>	<b>0.0</b>
<b>58-63 Information and communication</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>29.9</b>	<b>43.8</b>	<b>25.8</b>	<b>32.8</b>
58-60 Publishing, audiovisual and broadcasting activities	..	..	..	..	1.6	7.7	1.7	0.0
58 Publishing activities	..	..	..	..	0.0	5.8	1.7	0.0
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	..	1.5	2.0	0.0	0.0
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	1.5	1.9	0.0	0.0
60 Programming and broadcasting activities	..	..	..	..	0.0	0.1	0.0	0.0
61 Telecommunications	..	..	..	..	1.4	1.7	0.3	2.3
62-63 IT and other information services	..	..	..	..	26.9	34.4	23.8	30.5
62 Computer programming, consultancy and related activities	..	..	..	..	21.7	32.7	22.8	29.8
63 Information service activities	..	..	..	..	5.2	1.7	1.0	0.7
<b>64-66 Financial and insurance activities</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>32.6</b>	<b>22.8</b>	<b>25.9</b>	<b>10.4</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>76.7</b>	<b>83.5</b>	<b>82.6</b>	<b>86.0</b>
68 Real estate activities	..	..	..	..	0.5	0.0	0.0	0.0
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	..	..	55.2	46.0	44.9	31.7
72 Scientific research and development	..	..	..	..	19.4	34.8	36.3	52.2
77-82 Administrative and support service activities	..	..	..	..	1.6	2.7	1.5	2.1
84-99 Community, social and personal services	2.4 e	0.9 e	1.1 e	1.3 e	2.8	9.3	4.9	8.3
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	0.0	2.1	1.8	0.9
86-88 Human health and social work activities	..	..	..	..	2.7	4.7	2.0	6.1
90-93 Arts, entertainment and recreation	..	..	..	..	0.1	1.8	0.0	0.3
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	0.0	0.8	1.1	1.0

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# CZECH REPUBLIC

## R&D expenditure in industry by main activity of the enterprise, current prices ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>2 064.3</b>	<b>2 064.8</b>	<b>2 199.3</b>	<b>2 558.8</b>	<b>2 874.8</b>	<b>3 246.9</b>	<b>3 709.1</b>	<b>3 761.8</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>7.1</b>	<b>7.4</b>	<b>8.4</b>	<b>8.5</b>	<b>10.0</b>	<b>11.4</b>	<b>11.8</b>	<b>13.9</b>
<b>05-09 MINING AND QUARRYING</b>	<b>5.9</b>	<b>4.8</b>	<b>3.8</b>	<b>1.4</b>	<b>1.5</b>	<b>1.1</b>	<b>2.4</b>	<b>2.7</b>
<b>10-33 MANUFACTURING</b>	<b>1 119.5</b>	<b>1 095.0</b>	<b>1 157.4</b>	<b>1 341.7</b>	<b>1 468.4</b>	<b>1 725.9</b>	<b>1 915.6</b>	<b>1 974.9</b>
10-12 Food products, beverages and tobacco	22.7	22.2	24.3	24.6	22.8	25.0	18.0	19.8
13-15 Textiles, wearing apparel, leather and related products	15.1	18.2	18.4	32.9	15.7	24.7	27.1	26.3
13 Textiles	10.8	12.8	14.8	16.8	12.9	21.9	24.8	24.1
14 Wearing apparel	3.4	3.9	2.6	14.8	1.7	1.3	0.8	1.0
15 Leather and related products, footwear	0.9	1.5	1.1	1.4	1.1	1.5	1.5	1.3
16-18 Wood and paper products and printing	1.3	1.2	3.5	6.1	3.2	2.7	4.0	9.7
16 Wood and wood products, except furniture	0.8	1.0	1.3	3.1	0.4	0.8	1.6	4.6
17 Paper and paper products	0.1	0.2	0.2	2.4	2.1	1.0	1.1	4.3
18 Printing and reproduction of recorded media	0.4	..	2.0	0.5	0.7	0.9	1.3	0.9
19-23 Chemical, rubber, plastic, non-metallic mineral products	213.5	222.9	226.5	239.5	243.0	281.0	305.0	320.6
19 Coke and refined petroleum products	0.8	0.7	0.8	0.8	0.5	0.5	0.6	0.9
20-21 Chemical and pharmaceutical products	130.6	153.7	147.7	156.4	155.9	165.1	178.2	178.9
20 Chemicals and chemical products	52.6	66.3	70.5	75.7	72.0	88.2	93.4	91.1
21 Pharmaceuticals, medicinal, chemical and botanical products	77.9	87.3	77.2	80.7	83.9	76.9	84.8	87.8
22 Rubber and plastic products	47.1	44.6	49.4	52.0	51.4	66.5	83.8	94.1
23 Other non-metallic mineral products	35.0	23.9	28.6	30.2	35.2	48.9	42.4	46.7
24-25 Basic metals, metal products, except machinery and equipment	67.0	59.8	75.3	79.8	92.4	86.5	113.7	119.4
24 Basic metals	24.0	14.9	17.7	22.0	23.6	17.8	23.6	25.1
25 Fabricated metal products, except machinery and equipment	43.0	44.9	57.6	57.8	68.8	68.7	90.1	94.3
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	748.8	699.1	733.7	874.8	1 004.9	1 244.2	1 377.7	1 388.6
26 Computer, electronic and optical products	115.3	96.8	87.3	86.1	92.7	119.1	147.9	154.3
27 Electrical equipment	64.1	78.6	102.7	121.3	154.1	147.2	239.7	261.8
28 Machinery and equipment n.e.c.	172.3	167.1	183.1	219.7	289.1	335.3	331.1	304.2
29 Motor vehicles, trailers and semi-trailers	306.6	260.5	252.5	298.3	345.4	508.4	513.1	554.7
30 Other transport equipment	90.5	96.1	108.1	149.3	123.6	134.2	145.9	113.6
31-33 Furniture; repair, installation of machinery and equipment	51.0	71.6	75.6	84.0	86.4	61.7	70.2	90.4
31 Furniture	1.8	2.8	3.0	5.4	4.0	3.7	3.1	3.3
32 Other manufacturing	19.8	19.3	21.2	26.8	34.0	27.0	28.1	31.5
33 Repair and installation of machinery and equipment	29.4	49.5	51.4	51.7	48.4	31.0	39.0	55.7
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>9.5</b>	<b>11.1</b>	<b>11.0</b>	<b>10.6</b>	<b>10.5</b>	<b>14.8</b>	<b>13.0</b>	<b>18.4</b>
35-36 Electricity, gas and water	4.9	3.1	2.2	3.1	3.7	7.6	5.1	4.5
37-39 Sewerage, waste management and remediation activities	4.6	8.0	8.7	7.4	6.7	7.2	7.9	13.9
<b>41-43 CONSTRUCTION</b>	<b>24.7</b>	<b>27.6</b>	<b>29.7</b>	<b>27.2</b>	<b>31.7</b>	<b>41.3</b>	<b>53.2</b>	<b>48.3</b>
<b>45-99 TOTAL SERVICES</b>	<b>897.7</b>	<b>918.8</b>	<b>989.1</b>	<b>1 169.5</b>	<b>1 352.7</b>	<b>1 452.4</b>	<b>1 713.1</b>	<b>1 703.6</b>
<b>45-82 Business sector services</b>	<b>891.0</b>	<b>912.7</b>	<b>982.4</b>	<b>1 161.3</b>	<b>1 341.7</b>	<b>1 422.5</b>	<b>1 690.9</b>	<b>1 675.7</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>61.3</b>	<b>62.5</b>	<b>67.6</b>	<b>69.8</b>	<b>69.1</b>	<b>75.0</b>	<b>71.0</b>	<b>85.2</b>
<b>49-53 Transportation and storage</b>	<b>0.4</b>	<b>0.1</b>	<b>0.1</b>	<b>0.4</b>	<b>1.5</b>	<b>1.7</b>	<b>1.8</b>	<b>1.5</b>
<b>55-56 Accommodation and food service activities</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>
<b>58-63 Information and communication</b>	<b>274.2</b>	<b>280.2</b>	<b>300.3</b>	<b>371.5</b>	<b>421.2</b>	<b>458.3</b>	<b>609.4</b>	<b>619.6</b>
58-60 Publishing, audiovisual and broadcasting activities	19.9	15.6	18.1	16.0	18.3	18.1	21.6	21.7
58 Publishing activities	19.9	15.6	18.1	16.0	18.0	17.6	21.1	21.3
59-60 Motion picture, video and TV programme production; broadcasting activities	0.0	0.0	0.0	0.1	0.3	0.5	0.5	0.4
59 Motion picture, video and TV programme production; sound and music	..	..	..	0.1	0.3	0.4	0.5	0.4
60 Programming and broadcasting activities	..	..	..	0.0	0.0	0.1	0.0	0.0
61 Telecommunications	31.4	29.7	38.1	41.1	45.7	46.3	47.6	49.4
62-63 IT and other information services	223.0	234.9	244.2	314.4	357.2	393.9	540.3	548.5
62 Computer programming, consultancy and related activities	168.5	177.2	194.8	229.7	267.5	287.9	415.5	464.1
63 Information service activities	54.5	57.8	49.4	84.7	89.6	106.0	124.8	84.4
<b>64-66 Financial and insurance activities</b>	<b>66.0</b>	<b>35.9</b>	<b>36.7</b>	<b>35.2</b>	<b>45.8</b>	<b>60.2</b>	<b>58.3</b>	<b>51.0</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>489.1</b>	<b>534.0</b>	<b>577.6</b>	<b>684.4</b>	<b>804.0</b>	<b>827.3</b>	<b>950.3</b>	<b>918.3</b>
68 Real estate activities	1.0	2.1	5.6	9.4	23.4	37.5	15.6	2.9
69-75x72 Professional, scientific and technical activities, except scientific R&D	89.0	109.9	127.0	176.3	174.5	152.9	171.4	204.7
72 Scientific research and development	398.1	421.4	444.4	497.2	601.1	629.1	755.6	704.7
77-82 Administrative and support service activities	1.0	0.6	0.7	1.4	4.9	7.8	7.7	6.0
84-99 Community, social and personal services	6.6	6.1	6.7	8.1	11.0	29.9	22.2	27.9
84-85 Public administration and defence; compulsory social security and education	0.5	0.4	0.3	1.0	2.0	12.1	9.8	10.5
86-88 Human health and social work activities	2.4	1.9	3.9	3.2	5.2	10.9	6.0	5.1
90-93 Arts, entertainment and recreation	0.5	0.6	0.6	0.9	0.7	0.9	0.7	0.7
94-99 Other services; household-employers; extraterritorial bodies	3.1	3.3	1.9	3.1	3.2	5.8	5.6	11.5

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# CZECH REPUBLIC

## R&D expenditure in industry by main activity of the enterprise, constant prices ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>2 129.4</b>	<b>2 031.1</b>	<b>2 199.3</b>	<b>2 501.8</b>	<b>2 760.4</b>	<b>2 955.2</b>	<b>3 263.6</b>	<b>3 311.4</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>7.4</b>	<b>7.3</b>	<b>8.4</b>	<b>8.4</b>	<b>9.6</b>	<b>10.4</b>	<b>10.4</b>	<b>12.3</b>
<b>05-09 MINING AND QUARRYING</b>	<b>6.1</b>	<b>4.7</b>	<b>3.8</b>	<b>1.4</b>	<b>1.5</b>	<b>1.0</b>	<b>2.1</b>	<b>2.4</b>
<b>10-33 MANUFACTURING</b>	<b>1 154.8</b>	<b>1 077.1</b>	<b>1 157.4</b>	<b>1 311.8</b>	<b>1 409.9</b>	<b>1 570.8</b>	<b>1 685.5</b>	<b>1 738.5</b>
10-12 Food products, beverages and tobacco	23.4	21.8	24.3	24.1	21.9	22.7	15.9	17.4
13-15 Textiles, wearing apparel, leather and related products	15.5	17.9	18.4	32.2	15.1	22.5	23.8	23.2
13 Textiles	11.2	12.6	14.8	16.4	12.4	20.0	21.8	21.2
14 Wearing apparel	3.5	3.8	2.6	14.4	1.6	1.2	0.7	0.8
15 Leather and related products, footwear	0.9	1.5	1.1	1.3	1.1	1.3	1.3	1.1
16-18 Wood and paper products and printing	1.3	1.2	3.5	5.9	3.1	2.5	3.5	8.6
16 Wood and wood products, except furniture	0.8	1.0	1.3	3.1	0.4	0.8	1.4	4.0
17 Paper and paper products	0.1	0.2	0.2	2.3	2.0	0.9	1.0	3.8
18 Printing and reproduction of recorded media	0.4	..	2.0	0.5	0.7	0.8	1.1	0.8
19-23 Chemical, rubber, plastic, non-metallic mineral products	220.3	219.2	226.5	234.2	233.3	255.8	268.4	282.2
19 Coke and refined petroleum products	0.9	0.7	0.8	0.8	0.5	0.5	0.5	0.8
20-21 Chemical and pharmaceutical products	134.7	151.2	147.7	152.9	149.7	150.3	156.8	157.5
20 Chemicals and chemical products	54.3	65.3	70.5	74.1	69.1	80.2	82.2	80.2
21 Pharmaceuticals, medicinal, chemical and botanical products	80.4	85.9	77.2	78.9	80.6	70.0	74.6	77.3
22 Rubber and plastic products	48.6	43.9	49.4	50.9	49.3	60.5	73.7	82.8
23 Other non-metallic mineral products	36.1	23.5	28.6	29.5	33.8	44.5	37.3	41.1
24-25 Basic metals, metal products, except machinery and equipment	69.1	58.8	75.3	78.0	88.8	78.7	100.0	105.1
24 Basic metals	24.7	14.7	17.7	21.6	22.7	16.2	20.7	22.1
25 Fabricated metal products, except machinery and equipment	44.4	44.1	57.6	56.5	66.1	62.6	79.3	83.0
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	772.4	687.7	733.7	855.3	964.9	1 132.4	1 212.2	1 222.4
26 Computer, electronic and optical products	119.0	95.2	87.3	84.2	89.0	108.4	130.2	135.8
27 Electrical equipment	66.1	77.3	102.7	118.6	148.0	134.0	210.9	230.5
28 Machinery and equipment n.e.c.	177.7	164.4	183.1	214.8	277.6	305.2	291.3	267.8
29 Motor vehicles, trailers and semi-trailers	316.3	256.3	252.5	291.7	331.6	462.8	451.4	488.3
30 Other transport equipment	93.3	94.6	108.1	146.0	118.7	122.1	128.4	100.0
31-33 Furniture; repair, installation of machinery and equipment	52.6	70.4	75.6	82.1	82.9	56.2	61.7	79.6
31 Furniture	1.9	2.7	3.0	5.3	3.8	3.3	2.7	2.9
32 Other manufacturing	20.4	19.0	21.2	26.2	32.6	24.6	24.8	27.7
33 Repair and installation of machinery and equipment	30.4	48.7	51.4	50.6	46.5	28.2	34.3	49.0
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>9.8</b>	<b>10.9</b>	<b>11.0</b>	<b>10.3</b>	<b>10.1</b>	<b>13.5</b>	<b>11.5</b>	<b>16.2</b>
35-36 Electricity, gas and water	5.1	3.0	2.2	3.0	3.6	7.0	4.5	3.9
37-39 Sewerage, waste management and remediation activities	4.7	7.9	8.7	7.3	6.5	6.6	7.0	12.3
<b>41-43 CONSTRUCTION</b>	<b>25.5</b>	<b>27.2</b>	<b>29.7</b>	<b>26.6</b>	<b>30.4</b>	<b>37.6</b>	<b>46.8</b>	<b>42.5</b>
<b>45-99 TOTAL SERVICES</b>	<b>926.0</b>	<b>903.9</b>	<b>989.1</b>	<b>1 143.4</b>	<b>1 298.9</b>	<b>1 321.9</b>	<b>1 507.3</b>	<b>1 499.6</b>
<b>45-82 Business sector services</b>	<b>919.1</b>	<b>897.8</b>	<b>982.4</b>	<b>1 135.4</b>	<b>1 288.3</b>	<b>1 294.7</b>	<b>1 487.8</b>	<b>1 475.1</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>63.2</b>	<b>61.5</b>	<b>67.6</b>	<b>68.2</b>	<b>66.3</b>	<b>68.2</b>	<b>62.5</b>	<b>75.0</b>
<b>49-53 Transportation and storage</b>	<b>0.4</b>	<b>0.1</b>	<b>0.1</b>	<b>0.4</b>	<b>1.4</b>	<b>1.6</b>	<b>1.6</b>	<b>1.3</b>
<b>55-56 Accommodation and food service activities</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
<b>58-63 Information and communication</b>	<b>282.9</b>	<b>275.6</b>	<b>300.3</b>	<b>363.2</b>	<b>404.4</b>	<b>417.1</b>	<b>536.2</b>	<b>545.5</b>
58-60 Publishing, audiovisual and broadcasting activities	20.5	15.3	18.1	15.7	17.6	16.4	19.0	19.1
58 Publishing activities	20.5	15.3	18.1	15.6	17.3	16.0	18.6	18.7
59-60 Motion picture, video and TV programme production; broadcasting activities	0.0	0.0	0.0	0.1	0.3	0.4	0.4	0.4
59 Motion picture, video and TV programme production; sound and music	..	..	..	0.1	0.3	0.3	0.4	0.3
60 Programming and broadcasting activities	..	..	..	0.0	0.0	0.1	0.0	0.0
61 Telecommunications	32.4	29.2	38.1	40.2	43.9	42.1	41.9	43.5
62-63 IT and other information services	230.0	231.1	244.2	307.4	342.9	358.5	475.4	482.8
62 Computer programming, consultancy and related activities	173.8	174.3	194.8	224.5	256.9	262.1	365.6	408.5
63 Information service activities	56.3	56.8	49.4	82.8	86.0	96.4	109.8	74.3
<b>64-66 Financial and insurance activities</b>	<b>68.1</b>	<b>35.3</b>	<b>36.7</b>	<b>34.4</b>	<b>44.0</b>	<b>54.8</b>	<b>51.3</b>	<b>44.9</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>504.5</b>	<b>525.3</b>	<b>577.6</b>	<b>669.1</b>	<b>772.0</b>	<b>753.0</b>	<b>836.1</b>	<b>808.3</b>
68 Real estate activities	1.1	2.1	5.6	9.2	22.5	34.1	13.7	2.5
69-75x72 Professional, scientific and technical activities, except scientific R&D	91.8	108.2	127.0	172.4	167.6	139.1	150.8	180.2
72 Scientific research and development	410.6	414.5	444.4	486.1	577.2	572.6	664.9	620.3
77-82 Administrative and support service activities	1.0	0.6	0.7	1.4	4.7	7.1	6.8	5.2
84-99 Community, social and personal services	6.8	6.0	6.7	8.0	10.6	27.2	19.5	24.5
84-85 Public administration and defence; compulsory social security and education	0.5	0.3	0.3	1.0	1.9	11.0	8.6	9.3
86-88 Human health and social work activities	2.5	1.9	3.9	3.1	5.0	10.0	5.3	4.5
90-93 Arts, entertainment and recreation	0.6	0.5	0.6	0.9	0.7	0.9	0.7	0.6
94-99 Other services; household-employers; extraterritorial bodies	3.2	3.3	1.9	3.0	3.1	5.3	4.9	10.2

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# CZECH REPUBLIC

## R&D expenditure in industry by industry orientation, current prices ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>2 064.3</b>	<b>2 064.8</b>	<b>2 199.3</b>	<b>2 558.8</b>	<b>2 874.8</b>	<b>3 246.9</b>	<b>3 709.1</b>	<b>3 761.8</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>16.4 e</b>	<b>16.0 e</b>	<b>14.0 e</b>	<b>15.6 e</b>	<b>15.7 e</b>	<b>20.1</b>	<b>22.9</b>	<b>24.0</b>
<b>05-09 MINING AND QUARRYING</b>	<b>5.9 e</b>	<b>6.1 e</b>	<b>6.0 e</b>	<b>4.6 e</b>	<b>1.8 e</b>	<b>2.1</b>	<b>3.2</b>	<b>3.0</b>
<b>10-33 MANUFACTURING</b>	<b>1 330.3 e</b>	<b>1 315.4 e</b>	<b>1 381.6 e</b>	<b>1 616.0 e</b>	<b>1 711.7 e</b>	<b>2 033.3</b>	<b>2 358.9</b>	<b>2 418.5</b>
10-12 Food products, beverages and tobacco	17.4 e	20.9 e	20.4 e	21.0 e	27.0 e	23.3	19.5	21.9
13-15 Textiles, wearing apparel, leather and related products	19.4 e	19.8 e	21.2 e	26.7 e	17.7 e	28.2	36.1	30.5
13 Textiles	12.2 e	14.0 e	17.1 e	23.5 e	15.2 e	25.1	30.9	27.5
14 Wearing apparel	2.8 e	3.9 e	2.9 e	2.3 e	1.5 e	2.5	2.3	1.9
15 Leather and related products, footwear	4.4 e	2.0 e	1.2 e	0.9 e	1.0 e	0.6	2.9	1.1
16-18 Wood and paper products and printing	1.2 e	1.3 e	4.3 e	7.6 e	5.2 e	3.5	4.0	5.7
16 Wood and wood products, except furniture	0.8 e	0.7 e	2.0 e	4.5 e	2.6 e	1.4	2.2	2.8
17 Paper and paper products	0.2 e	0.3 e	0.3 e	2.3 e	2.4 e	1.1	1.1	1.8
18 Printing and reproduction of recorded media	0.2 e	0.4 e	2.0 e	0.8 e	0.2 e	1.0	0.7	1.1
19-23 Chemical, rubber, plastic, non-metallic mineral products	226.4 e	227.8 e	248.5 e	268.7 e	239.5 e	271.6	297.2	331.6
19 Coke and refined petroleum products	1.2 e	1.2 e	0.8 e	1.2 e	1.7 e	1.8	4.4	4.0
20-21 Chemicals and pharmaceutical products	147.4 e	159.9 e	165.6 e	189.1 e	144.1 e	160.1	177.2	206.2
20 Chemicals and chemical products	55.8 e	44.2 e	63.5 e	59.3 e	52.0 e	55.8	53.8	59.9
21 Pharmaceuticals, medicinal, chemical and botanical products	91.6 e	115.7 e	102.1 e	129.8 e	92.1 e	104.3	123.4	146.3
22 Rubber and plastic products	45.0 e	41.7 e	51.6 e	48.1 e	55.6 e	63.9	74.6	82.1
23 Other non-metallic mineral products	32.8 e	25.0 e	30.6 e	30.3 e	38.1 e	45.7	41.0	39.3
24-25 Basic metals, metal products, except machinery and equipment	61.0 e	60.3 e	67.3 e	108.5 e	124.0 e	123.8	149.2	167.9
24 Basic metals	20.7 e	15.9 e	16.4 e	15.6 e	14.8 e	12.8	12.8	11.3
25 Fabricated metal products, except machinery and equipment	40.4 e	44.4 e	51.0 e	92.9 e	109.3 e	111.0	136.4	156.6
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	934.0 e	911.6 e	944.6 e	1 080.6 e	1 236.4 e	1 494.1	1 751.0	1 772.0
26 Computer, electronic and optical products	205.3 e	179.6 e	194.1 e	183.9 e	235.0 e	264.3	310.0	304.3
27 Electrical equipment	66.8 e	79.3 e	105.9 e	126.5 e	206.2 e	124.6	156.1	157.5
28 Machinery and equipment n.e.c.	216.9 e	222.4 e	255.3 e	293.8 e	250.5 e	357.8	391.7	383.8
29 Motor vehicles, trailers and semi-trailers	295.9 e	272.8 e	238.1 e	266.2 e	361.5 e	556.3	673.9	736.3
30 Other transport equipment	149.1 e	157.5 e	151.3 e	210.2 e	183.2 e	190.9	219.4	190.0
31-33 Furniture; repair, installation of machinery and equipment	71.0 e	73.7 e	75.2 e	102.9 e	61.8 e	88.9	101.9	88.8
31 Furniture	1.6 e	3.1 e	2.1 e	1.7 e	4.4 e	5.0	10.5	3.5
32 Other manufacturing	20.5 e	18.8 e	24.7 e	35.4 e	29.1 e	39.9	36.9	33.1
33 Repair and installation of machinery and equipment	48.8 e	51.8 e	48.4 e	65.8 e	28.3 e	44.0	54.5	52.3
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>10.7 e</b>	<b>15.8 e</b>	<b>15.9 e</b>	<b>21.3 e</b>	<b>22.9 e</b>	<b>29.8</b>	<b>28.3</b>	<b>30.6</b>
35-36 Electricity, gas and water	5.4 e	7.6 e	7.6 e	10.7 e	9.8 e	10.5	10.6	10.8
37-39 Sewerage, waste management and remediation activities	5.3 e	8.1 e	8.3 e	10.7 e	13.1 e	19.3	17.7	19.8
<b>41-43 CONSTRUCTION</b>	<b>26.8 e</b>	<b>28.3 e</b>	<b>27.3 e</b>	<b>25.9 e</b>	<b>28.0 e</b>	<b>35.1</b>	<b>40.5</b>	<b>39.9</b>
<b>45-99 TOTAL SERVICES</b>	<b>674.2 e</b>	<b>683.2 e</b>	<b>754.6 e</b>	<b>875.3 e</b>	<b>1 094.6 e</b>	<b>1 126.6</b>	<b>1 255.3</b>	<b>1 245.7</b>
<b>45-82 Business sector services</b>	<b>634.1 e</b>	<b>642.3 e</b>	<b>718.6 e</b>	<b>839.3 e</b>	<b>1 061.3 e</b>	<b>1 087.7</b>	<b>1 223.2</b>	<b>1 206.0</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>14.5 e</b>	<b>13.3 e</b>	<b>22.9 e</b>	<b>21.3 e</b>	<b>1.9 e</b>	<b>0.0</b>	<b>0.2</b>	<b>3.5</b>
<b>49-53 Transportation and storage</b>	<b>2.0 e</b>	<b>2.8 e</b>	<b>9.1 e</b>	<b>2.1 e</b>	<b>2.7 e</b>	<b>4.6</b>	<b>4.4</b>	<b>4.2</b>
<b>55-56 Accommodation and food service activities</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.1 e</b>	<b>1.2 e</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
<b>58-63 Information and communication</b>	<b>244.5 e</b>	<b>271.0 e</b>	<b>279.3 e</b>	<b>385.0 e</b>	<b>442.2 e</b>	<b>478.9</b>	<b>644.2</b>	<b>657.9</b>
58-60 Publishing, audiovisual and broadcasting activities	5.1 e	2.0 e	1.7 e	2.0 e	16.9 e	0.0	2.4	0.6
58 Publishing activities	..	..	..	..	..	..	..	0.1
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	..	..	0.0	2.4	0.6
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	2.4	0.6
61 Telecommunications	34.4 e	54.7 e	53.3 e	47.3 e	51.8 e	60.4	70.6	66.0
62-63 IT and other information services	205.0 e	214.2 e	224.3 e	335.6 e	373.5 e	418.5	571.3	591.3
62 Computer programming, consultancy and related activities	185.1 e	194.1 e	206.2 e	248.6 e	264.9 e	285.6	428.6	503.9
63 Information service activities	19.9 e	20.1 e	18.1 e	87.1 e	108.6 e	132.9	142.7	87.4
<b>64-66 Financial and insurance activities</b>	<b>66.8 e</b>	<b>36.2 e</b>	<b>40.7 e</b>	<b>34.1 e</b>	<b>36.9 e</b>	<b>48.3</b>	<b>46.8</b>	<b>24.7</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>306.3 e</b>	<b>319.1 e</b>	<b>366.6 e</b>	<b>396.7 e</b>	<b>576.4 e</b>	<b>555.8</b>	<b>527.5</b>	<b>515.5</b>
68 Real estate activities	0.7 e	1.0 e	4.0 e	4.4 e	0.2 e	0.0	0.0	0.0
69-75x72 Professional, scientific and technical activities, except scientific R&D	61.1 e	86.6 e	83.7 e	105.0 e	28.2 e	32.1	36.3	49.8
72 Scientific research and development	241.5 e	231.2 e	277.8 e	286.6 e	547.7 e	523.0	490.7	465.7
77-82 Administrative and support service activities	2.9 e	0.3 e	1.0 e	0.7 e	0.4 e	0.6	0.5	0.0
84-99 Community, social and personal services	40.1 e	40.9 e	36.0 e	36.0 e	33.3 e	39.0	32.1	39.7
84-85 Public administration and defence; compulsory social security and education	10.7 e	11.8 e	10.7 e	10.4 e	11.0 e	15.5	10.3	12.4
86-88 Human health and social work activities	21.2 e	18.9 e	19.2 e	20.2 e	20.1 e	18.2	18.0	21.9
90-93 Arts, entertainment and recreation	7.0 e	9.0 e	5.4 e	3.8 e	0.2 e	0.1	0.1	0.0
94-99 Other services; household-employers; extraterritorial bodies	1.2 e	1.3 e	0.7 e	1.6 e	1.9 e	5.2	3.8	5.4

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# CZECH REPUBLIC

## R&D expenditure in industry by industry orientation, constant prices ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>2 129.4</b>	<b>2 031.1</b>	<b>2 199.3</b>	<b>2 501.8</b>	<b>2 760.4</b>	<b>2 955.2</b>	<b>3 263.6</b>	<b>3 311.4</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>16.9 e</b>	<b>15.7 e</b>	<b>14.0 e</b>	<b>15.3 e</b>	<b>15.1 e</b>	<b>18.3</b>	<b>20.2</b>	<b>21.1</b>
<b>05-09 MINING AND QUARRYING</b>	<b>6.1 e</b>	<b>6.0 e</b>	<b>6.0 e</b>	<b>4.5 e</b>	<b>1.8 e</b>	<b>1.9</b>	<b>2.9</b>	<b>2.6</b>
<b>10-33 MANUFACTURING</b>	<b>1 372.3 e</b>	<b>1 294.0 e</b>	<b>1 381.6 e</b>	<b>1 579.9 e</b>	<b>1 643.5 e</b>	<b>1 850.6</b>	<b>2 075.6</b>	<b>2 129.0</b>
10-12 Food products, beverages and tobacco	17.9 e	20.5 e	20.4 e	20.5 e	26.0 e	21.2	17.1	19.3
13-15 Textiles, wearing apparel, leather and related products	20.0 e	19.5 e	21.2 e	26.1 e	17.0 e	25.7	31.8	26.8
13 Textiles	12.6 e	13.8 e	17.1 e	22.9 e	14.6 e	22.8	27.2	24.2
14 Wearing apparel	2.9 e	3.8 e	2.9 e	2.3 e	1.4 e	2.3	2.0	1.7
15 Leather and related products, footwear	4.5 e	1.9 e	1.2 e	0.9 e	1.0 e	0.5	2.6	0.9
16-18 Wood and paper products and printing	1.2 e	1.3 e	4.3 e	7.5 e	5.0 e	3.2	3.5	5.0
16 Wood and wood products, except furniture	0.8 e	0.7 e	2.0 e	4.4 e	2.5 e	1.2	1.9	2.5
17 Paper and paper products	0.2 e	0.2 e	0.3 e	2.2 e	2.3 e	1.0	1.0	1.6
18 Printing and reproduction of recorded media	0.2 e	0.4 e	2.0 e	0.8 e	0.2 e	0.9	0.7	0.9
19-23 Chemical, rubber, plastic, non-metallic mineral products	233.5 e	224.1 e	248.5 e	262.7 e	230.0 e	247.2	261.5	291.9
19 Coke and refined petroleum products	1.2 e	1.2 e	0.8 e	1.2 e	1.6 e	1.7	3.9	3.5
20-21 Chemical and pharmaceutical products	152.1 e	157.3 e	165.6 e	184.9 e	138.4 e	145.7	155.9	181.5
20 Chemicals and chemical products	57.6 e	43.5 e	63.5 e	58.0 e	49.9 e	50.8	47.3	52.7
21 Pharmaceuticals, medicinal, chemical and botanical products	94.5 e	113.8 e	102.1 e	127.0 e	88.5 e	95.0	108.6	128.8
22 Rubber and plastic products	46.4 e	41.0 e	51.6 e	47.0 e	53.4 e	58.2	65.7	72.3
23 Other non-metallic mineral products	33.8 e	24.6 e	30.6 e	29.6 e	36.6 e	41.6	36.0	34.6
24-25 Basic metals, metal products, except machinery and equipment	63.0 e	59.4 e	67.3 e	106.1 e	119.1 e	112.6	131.3	147.8
24 Basic metals	21.3 e	15.7 e	16.4 e	15.2 e	14.2 e	11.6	11.2	10.0
25 Fabricated metal products, except machinery and equipment	41.6 e	43.7 e	51.0 e	90.8 e	104.9 e	101.0	120.0	137.9
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	963.5 e	896.8 e	944.6 e	1 056.5 e	1 187.1 e	1 359.8	1 540.7	1 559.9
26 Computer, electronic and optical products	211.7 e	176.7 e	194.1 e	179.8 e	225.6 e	240.6	272.8	267.9
27 Electrical equipment	68.9 e	78.0 e	105.9 e	123.7 e	198.0 e	113.4	137.3	138.6
28 Machinery and equipment n.e.c.	223.8 e	218.7 e	255.3 e	287.2 e	240.5 e	325.6	344.6	337.9
29 Motor vehicles, trailers and semi-trailers	305.2 e	268.4 e	238.1 e	260.3 e	347.1 e	506.4	592.9	648.1
30 Other transport equipment	153.8 e	154.9 e	151.3 e	205.5 e	175.9 e	173.8	193.0	167.3
31-33 Furniture; repair, installation of machinery and equipment	73.2 e	72.5 e	75.2 e	100.6 e	59.3 e	80.9	89.7	78.2
31 Furniture	1.7 e	3.0 e	2.1 e	1.7 e	4.2 e	4.6	9.3	3.0
32 Other manufacturing	21.2 e	18.5 e	24.7 e	34.7 e	28.0 e	36.3	32.5	29.1
33 Repair and installation of machinery and equipment	50.3 e	51.0 e	48.4 e	64.3 e	27.2 e	40.0	48.0	46.1
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>11.0 e</b>	<b>15.5 e</b>	<b>15.9 e</b>	<b>20.9 e</b>	<b>22.0 e</b>	<b>27.1</b>	<b>24.9</b>	<b>27.0</b>
35-36 Electricity, gas and water	5.6 e	7.5 e	7.6 e	10.4 e	9.4 e	9.5	9.3	9.5
37-39 Sewerage, waste management and remediation activities	5.4 e	8.0 e	8.3 e	10.4 e	12.6 e	17.6	15.5	17.4
<b>41-43 CONSTRUCTION</b>	<b>27.6 e</b>	<b>27.8 e</b>	<b>27.3 e</b>	<b>25.4 e</b>	<b>26.9 e</b>	<b>31.9</b>	<b>35.6</b>	<b>35.1</b>
<b>45-99 TOTAL SERVICES</b>	<b>695.5 e</b>	<b>672.1 e</b>	<b>754.6 e</b>	<b>855.8 e</b>	<b>1 051.0 e</b>	<b>1 025.4</b>	<b>1 104.5</b>	<b>1 096.6</b>
<b>45-82 Business sector services</b>	<b>654.1 e</b>	<b>631.8 e</b>	<b>718.6 e</b>	<b>820.6 e</b>	<b>1 019.1 e</b>	<b>990.0</b>	<b>1 076.2</b>	<b>1 061.7</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>14.9 e</b>	<b>13.1 e</b>	<b>22.9 e</b>	<b>20.8 e</b>	<b>1.8 e</b>	<b>0.0</b>	<b>0.1</b>	<b>3.1</b>
<b>49-53 Transportation and storage</b>	<b>2.1 e</b>	<b>2.7 e</b>	<b>9.1 e</b>	<b>2.0 e</b>	<b>2.6 e</b>	<b>4.2</b>	<b>3.9</b>	<b>3.7</b>
<b>55-56 Accommodation and food service activities</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.1 e</b>	<b>1.1 e</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
<b>58-63 Information and communication</b>	<b>252.2 e</b>	<b>266.5 e</b>	<b>279.3 e</b>	<b>376.4 e</b>	<b>424.6 e</b>	<b>435.9</b>	<b>566.8</b>	<b>579.1</b>
58-60 Publishing, audiovisual and broadcasting activities	5.3 e	2.0 e	1.7 e	2.0 e	16.3 e	0.0	2.1	0.6
58 Publishing activities	..	..	..	..	..	..	..	0.1
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	..	..	0.0	2.1	0.5
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	2.1	0.5
61 Telecommunications	35.4 e	53.8 e	53.3 e	46.3 e	49.8 e	55.0	62.1	58.1
62-63 IT and other information services	211.5 e	210.7 e	224.3 e	328.2 e	358.6 e	380.9	502.7	520.5
62 Computer programming, consultancy and related activities	190.9 e	191.0 e	206.2 e	243.0 e	254.3 e	259.9	377.1	443.6
63 Information service activities	20.5 e	19.8 e	18.1 e	85.1 e	104.3 e	121.0	125.5	76.9
<b>64-66 Financial and insurance activities</b>	<b>68.9 e</b>	<b>35.6 e</b>	<b>40.7 e</b>	<b>33.4 e</b>	<b>35.4 e</b>	<b>44.0</b>	<b>41.2</b>	<b>21.8</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>315.9 e</b>	<b>313.9 e</b>	<b>366.6 e</b>	<b>387.8 e</b>	<b>553.5 e</b>	<b>505.9</b>	<b>464.2</b>	<b>453.8</b>
68 Real estate activities	0.7 e	0.9 e	4.0 e	4.3 e	0.1 e	0.0	0.0	0.0
69-75x72 Professional, scientific and technical activities, except scientific R&D	63.0 e	85.2 e	83.7 e	102.6 e	27.1 e	29.2	32.0	43.8
72 Scientific research and development	249.1 e	227.5 e	277.8 e	280.3 e	525.9 e	476.0	431.7	409.9
77-82 Administrative and support service activities	3.0 e	0.3 e	1.0 e	0.7 e	0.4 e	0.6	0.5	0.0
84-99 Community, social and personal services	41.4 e	40.3 e	36.0 e	35.2 e	32.0 e	35.5	28.2	35.0
84-85 Public administration and defence; compulsory social security and education	11.0 e	11.6 e	10.7 e	10.2 e	10.6 e	14.1	9.0	10.9
86-88 Human health and social work activities	21.9 e	18.5 e	19.2 e	19.8 e	19.3 e	16.5	15.8	19.3
90-93 Arts, entertainment and recreation	7.2 e	8.9 e	5.4 e	3.7 e	0.2 e	0.1	0.1	0.0
94-99 Other services; household-employers; extraterritorial bodies	1.2 e	1.3 e	0.7 e	1.6 e	1.8 e	4.7	3.3	4.7

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

Disclaimer: <http://oe.cd/disclaimer>

# DENMARK

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	..	<b>4 754.7</b>	<b>4 673.8</b>	<b>4 859.9</b>	<b>4 897.4</b>	<b>4 936.6</b>	<b>4 948.2</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	..	<b>3.8</b>	<b>7.0</b>	<b>7.0</b>	<b>5.8</b>	<b>7.1</b>	<b>6.5</b>	..
<b>05-09 MINING AND QUARRYING</b>	..	<b>3.6</b>	<b>5.8</b>	<b>5.6</b>	<b>1.9</b>	<b>6.4</b>	<b>11.1</b>	..
<b>10-33 MANUFACTURING</b>	..	<b>2 346.3</b>	<b>2 445.8</b>	<b>2 524.4</b>	<b>2 754.5</b>	<b>2 870.2</b>	<b>2 862.5</b>	..
10-12 Food products, beverages and tobacco	..	58.9	49.9	69.0	81.9	64.8	49.9	..
13-15 Textiles, wearing apparel, leather and related products	..	3.4	4.0	2.4	2.7	2.7	2.7	..
13 Textiles	..	3.0	2.5	1.5	1.7	2.3	2.3	..
14 Wearing apparel	..	..	..	..	1.0	0.5	0.4	..
15 Leather and related products, footwear	..	..	..	..	0.0	0.0	0.0	..
16-18 Wood and paper products and printing	..	6.2	6.3	5.9	4.6	46.7	7.8	..
16 Wood and wood products, except furniture	..	1.2	1.1	1.4	1.5	43.4	2.3	..
17 Paper and paper products	..	4.9	3.9	4.2	3.1	3.3	5.6	..
18 Printing and reproduction of recorded media	..	0.1	1.3	0.3	0.0	0.0	0.0	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	..	1 113.1	1 197.2	1 185.8	1 418.6	1 476.6	1 519.0	..
19 Coke and refined petroleum products	..	..	..	..	..	..	..	..
20-21 Chemical and pharmaceutical products	..	..	..	..	..	..	..	..
20 Chemicals and chemical products	..	..	..	..	..	..	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	..	848.0	932.3	892.2	1 065.8	1 127.2	1 139.6	..
22 Rubber and plastic products	..	54.1	51.1	50.3	53.8	55.0	55.8	..
23 Other non-metallic mineral products	..	10.6	5.5	4.7	22.4	23.4	24.8	..
24-25 Basic metals, metal products, except machinery and equipment	..	22.8	16.0	19.5	19.8	19.8	17.3	..
24 Basic metals	..	2.2	2.8	3.1	3.2	2.9	2.8	..
25 Fabricated metal products, except machinery and equipment	..	20.6	13.1	16.4	16.6	16.8	14.5	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	..	1 002.0	1 042.4	1 112.5	1 079.5	1 078.1	1 086.4	..
26 Computer, electronic and optical products	..	338.4	334.9	325.7	373.3	406.2	412.4	..
27 Electrical equipment	..	50.1	70.5	78.6	73.1	69.0	71.0	..
28 Machinery and equipment n.e.c.	..	600.3	621.5	687.7	612.4	581.1	584.7	..
29 Motor vehicles, trailers and semi-trailers	..	10.0	10.5	14.9	15.3	15.6	11.6	..
30 Other transport equipment	..	3.2	5.1	5.5	5.4	6.1	6.8	..
31-33 Furniture; repair, installation of machinery and equipment	..	139.9	129.8	129.3	147.3	181.5	179.2	..
31 Furniture	..	9.2	5.2	6.1	4.5	4.0	5.5	..
32 Other manufacturing	..	129.1	123.9	123.2	141.3	177.5	173.7	..
33 Repair and installation of machinery and equipment	..	1.6	0.7	0.0	1.5	0.0	0.0	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	..	<b>98.2</b>	<b>31.5</b>	<b>37.3</b>	<b>13.2</b>	<b>12.4</b>	<b>13.5</b>	..
35-36 Electricity, gas and water	..	96.5	30.5	34.2	9.2	10.9	8.9	..
37-39 Sewerage, waste management and remediation activities	..	1.7	0.9	3.1	4.0	1.5	4.6	..
<b>41-43 CONSTRUCTION</b>	..	<b>2.1</b>	<b>7.3</b>	<b>5.3</b>	<b>5.9</b>	<b>7.2</b>	<b>5.0</b>	..
<b>45-99 TOTAL SERVICES</b>	..	<b>2 300.8</b>	<b>2 176.5</b>	<b>2 280.4</b>	<b>2 116.1</b>	<b>2 033.2</b>	<b>2 049.6</b>	..
<b>45-82 Business sector services</b>	..	<b>2 294.7</b>	<b>2 175.9</b>	<b>2 250.4</b>	<b>2 072.9</b>	<b>1 996.2</b>	<b>2 019.6</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	..	<b>167.5</b>	<b>176.3</b>	<b>255.7</b>	<b>236.8</b>	<b>160.8</b>	<b>222.5</b>	..
<b>49-53 Transportation and storage</b>	..	<b>27.7</b>	<b>19.4</b>	<b>7.5</b>	<b>15.6</b>	<b>8.9</b>	<b>7.7</b>	..
<b>55-56 Accommodation and food service activities</b>	..	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.1</b>	<b>1.9</b>	<b>1.2</b>	..
<b>58-63 Information and communication</b>	..	<b>706.5</b>	<b>770.9</b>	<b>749.3</b>	<b>594.8</b>	<b>492.3</b>	<b>470.7</b>	..
58-60 Publishing, audiovisual and broadcasting activities	..	121.1	114.5	89.3	74.3	71.4	86.5	..
58 Publishing activities	..	120.7	105.3	86.9	73.0	67.3	81.5	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	0.4	9.1	2.5	1.3	4.1	5.1	..
59 Motion picture, video and TV programme production; sound and music	..	0.4	9.1	2.5	1.3	4.1	3.6	..
60 Programming and broadcasting activities	..	0.0	0.0	0.0	0.0	0.0	1.5	..
61 Telecommunications	..	42.3	31.9	52.0	64.0	52.8	30.6	..
62-63 IT and other information services	..	542.9	624.6	607.9	456.5	368.1	353.6	..
62 Computer programming, consultancy and related activities	..	538.6	620.0	595.7	444.5	353.7	341.2	..
63 Information service activities	..	4.3	4.6	12.2	12.0	14.3	12.4	..
<b>64-66 Financial and insurance activities</b>	..	<b>467.5</b>	<b>511.0</b>	<b>531.7</b>	<b>541.5</b>	<b>541.4</b>	<b>544.6</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	<b>925.3</b>	<b>697.7</b>	<b>705.8</b>	<b>684.1</b>	<b>790.9</b>	<b>772.9</b>	..
68 Real estate activities	..	7.4	0.0	1.3	3.1	6.8	2.0	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	246.7	151.5	164.9	161.7	174.9	150.3	..
72 Scientific research and development	..	660.1	538.4	530.1	512.2	604.6	610.7	..
77-82 Administrative and support service activities	..	11.1	7.8	9.5	7.0	4.6	9.8	..
84-99 Community, social and personal services	..	6.1	0.6	30.0	43.2	37.1	30.0	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	3.2	0.3	0.1	6.1	5.2	5.0	..
94-99 Other services; household-employers; extraterritorial bodies	..	0.0	0.1	29.9	29.6	31.5	24.7	..

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

Disclaimer: <http://oe.cd/disclaimer>

# DENMARK

## R&D expenditure in industry by main activity of the enterprise, constant prices ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	..	<b>5 001.8</b>	<b>4 673.8</b>	<b>4 758.8</b>	<b>4 745.5</b>	<b>4 610.1</b>	<b>4 569.2</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	..	<b>4.0</b>	<b>7.0</b>	<b>6.8</b>	<b>5.6</b>	<b>6.7</b>	<b>6.0</b>	..
<b>05-09 MINING AND QUARRYING</b>	..	<b>3.8</b>	<b>5.8</b>	<b>5.5</b>	<b>1.8</b>	<b>6.0</b>	<b>10.2</b>	..
<b>10-33 MANUFACTURING</b>	..	<b>2 468.2</b>	<b>2 445.8</b>	<b>2 471.9</b>	<b>2 669.0</b>	<b>2 680.4</b>	<b>2 643.3</b>	..
10-12 Food products, beverages and tobacco	..	62.0	49.9	67.6	79.4	60.5	46.1	..
13-15 Textiles, wearing apparel, leather and related products	..	3.5	4.0	2.3	2.6	2.5	2.5	..
13 Textiles	..	3.1	2.5	1.5	1.7	2.1	2.1	..
14 Wearing apparel	..	..	..	..	0.9	0.4	0.4	..
15 Leather and related products, footwear	..	..	..	..	0.0	0.0	0.0	..
16-18 Wood and paper products and printing	..	6.5	6.3	5.7	4.4	43.6	7.2	..
16 Wood and wood products, except furniture	..	1.2	1.1	1.4	1.5	40.5	2.1	..
17 Paper and paper products	..	5.2	3.9	4.1	3.0	3.1	5.2	..
18 Printing and reproduction of recorded media	..	0.1	1.3	0.3	0.0	0.0	0.0	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	..	1 171.0	1 197.2	1 161.1	1 374.6	1 378.9	1 402.7	..
19 Coke and refined petroleum products	..	..	..	..	..	..	..	..
20-21 Chemical and pharmaceutical products	..	..	..	..	..	..	..	..
20 Chemicals and chemical products	..	..	..	..	..	..	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	..	892.1	932.3	873.6	1 032.8	1 052.6	1 052.4	..
22 Rubber and plastic products	..	56.9	51.1	49.3	52.1	51.4	51.6	..
23 Other non-metallic mineral products	..	11.2	5.5	4.6	21.7	21.9	22.9	..
24-25 Basic metals, metal products, except machinery and equipment	..	24.0	16.0	19.1	19.2	18.5	16.0	..
24 Basic metals	..	2.3	2.8	3.1	3.1	2.7	2.6	..
25 Fabricated metal products, except machinery and equipment	..	21.7	13.1	16.1	16.1	15.7	13.4	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	..	1 054.1	1 042.4	1 089.3	1 046.0	1 006.8	1 003.2	..
26 Computer, electronic and optical products	..	356.0	334.9	318.9	361.7	379.4	380.8	..
27 Electrical equipment	..	52.7	70.5	77.0	70.8	64.5	65.5	..
28 Machinery and equipment n.e.c.	..	631.5	621.5	673.4	593.4	542.6	539.9	..
29 Motor vehicles, trailers and semi-trailers	..	10.5	10.5	14.6	14.8	14.6	10.7	..
30 Other transport equipment	..	3.4	5.1	5.4	5.2	5.7	6.2	..
31-33 Furniture; repair, installation of machinery and equipment	..	147.1	129.8	126.6	142.7	169.5	165.5	..
31 Furniture	..	9.7	5.2	6.0	4.3	3.7	5.1	..
32 Other manufacturing	..	135.8	123.9	120.6	136.9	165.8	160.4	..
33 Repair and installation of machinery and equipment	..	1.6	0.7	0.0	1.5	0.0	0.0	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	..	<b>103.3</b>	<b>31.5</b>	<b>36.5</b>	<b>12.8</b>	<b>11.6</b>	<b>12.4</b>	..
35-36 Electricity, gas and water	..	101.5	30.5	33.5	9.0	10.2	8.2	..
37-39 Sewerage, waste management and remediation activities	..	1.8	0.9	3.1	3.9	1.4	4.3	..
<b>41-43 CONSTRUCTION</b>	..	<b>2.2</b>	<b>7.3</b>	<b>5.2</b>	<b>5.7</b>	<b>6.7</b>	<b>4.6</b>	..
<b>45-99 TOTAL SERVICES</b>	..	<b>2 420.4</b>	<b>2 176.5</b>	<b>2 232.9</b>	<b>2 050.4</b>	<b>1 898.8</b>	<b>1 892.7</b>	..
<b>45-82 Business sector services</b>	..	<b>2 414.0</b>	<b>2 175.9</b>	<b>2 203.5</b>	<b>2 008.6</b>	<b>1 864.2</b>	<b>1 864.9</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	..	<b>176.2</b>	<b>176.3</b>	<b>250.4</b>	<b>229.5</b>	<b>150.2</b>	<b>205.4</b>	..
<b>49-53 Transportation and storage</b>	..	<b>29.2</b>	<b>19.4</b>	<b>7.4</b>	<b>15.1</b>	<b>8.3</b>	<b>7.1</b>	..
<b>55-56 Accommodation and food service activities</b>	..	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.1</b>	<b>1.7</b>	<b>1.1</b>	..
<b>58-63 Information and communication</b>	..	<b>743.2</b>	<b>770.9</b>	<b>733.7</b>	<b>576.4</b>	<b>459.7</b>	<b>434.7</b>	..
58-60 Publishing, audiovisual and broadcasting activities	..	127.4	114.5	87.5	72.0	66.7	79.9	..
58 Publishing activities	..	127.0	105.3	85.1	70.7	62.8	75.2	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	0.4	9.1	2.4	1.3	3.9	4.7	..
59 Motion picture, video and TV programme production; sound and music	..	0.4	9.1	2.4	1.3	3.9	3.3	..
60 Programming and broadcasting activities	..	0.0	0.0	0.0	0.0	0.0	1.4	..
61 Telecommunications	..	44.5	31.9	50.9	62.0	49.3	28.2	..
62-63 IT and other information services	..	571.1	624.6	595.3	442.3	343.7	326.5	..
62 Computer programming, consultancy and related activities	..	566.6	620.0	583.3	430.7	330.3	315.1	..
63 Information service activities	..	4.5	4.6	11.9	11.6	13.4	11.4	..
<b>64-66 Financial and insurance activities</b>	..	<b>491.8</b>	<b>511.0</b>	<b>520.6</b>	<b>524.7</b>	<b>505.6</b>	<b>502.8</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	<b>973.4</b>	<b>697.7</b>	<b>691.1</b>	<b>662.8</b>	<b>738.6</b>	<b>713.7</b>	..
68 Real estate activities	..	7.8	0.0	1.2	3.0	6.3	1.9	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	259.5	151.5	161.5	156.7	163.4	138.8	..
72 Scientific research and development	..	694.4	538.4	519.1	496.3	564.6	564.0	..
77-82 Administrative and support service activities	..	11.7	7.8	9.3	6.8	4.3	9.1	..
84-99 Community, social and personal services	..	6.4	0.6	29.4	41.9	34.6	27.7	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	3.4	0.3	0.1	5.9	4.9	4.7	..
94-99 Other services; household-employers; extraterritorial bodies	..	0.0	0.1	29.3	28.7	29.4	22.8	..

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# ESTONIA

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>164.9</b>	<b>170.8</b>	<b>228.4</b>	<b>474.7</b>	<b>420.3</b>	<b>297.8</b>	<b>237.1</b>	<b>262.2</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>0.5</b>	<b>..</b>	<b>..</b>	<b>0.1</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>0.0</b>
<b>05-09 MINING AND QUARRYING</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>
<b>10-33 MANUFACTURING</b>	<b>37.4</b>	<b>35.1</b>	<b>83.9</b>	<b>302.8</b>	<b>182.3</b>	<b>102.9</b>	<b>51.1</b>	<b>70.7</b>
10-12 Food products, beverages and tobacco	3.7	3.9	3.0	2.7	2.6	9.0	6.0	6.4
13-15 Textiles, wearing apparel, leather and related products	1.2	0.7	1.0	1.0	0.9	1.0	1.2	1.2
13 Textiles	..	..	..	..	..	..	..	..
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	0.8	0.6	3.9	1.1	0.2	0.6	0.1	1.1
16 Wood and wood products, except furniture	0.8	..	..	..	..	0.6	0.1	0.0
17 Paper and paper products	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 Printing and reproduction of recorded media	0.0	..	..	..	..	0.0	0.0	1.0
19-23 Chemical, rubber, plastic, non-metallic mineral products	..	..	..	..	..	..	..	..
19 Coke and refined petroleum products	11.4	4.7	..	263.9	146.3	64.5	9.1	22.4
20-21 Chemical and pharmaceutical products	..	..	6.9	9.2	8.5	6.7	5.9	6.3
20 Chemicals and chemical products	4.9	5.1	6.4	3.0	6.8	4.8	3.7	4.7
21 Pharmaceuticals, medicinal, chemical and botanical products	..	..	0.5	6.2	1.7	1.9	2.1	1.7
22 Rubber and plastic products	0.6	1.6	1.3	1.7	1.6	0.8	7.6	0.4
23 Other non-metallic mineral products	0.4	0.1	..	..	..	..	..	..
24-25 Basic metals, metal products, except machinery and equipment	0.2	1.6	..	0.7	0.4	..	..	..
24 Basic metals	0.0	0.0	..	0.0	0.0	..	..	..
25 Fabricated metal products, except machinery and equipment	0.2	1.6	0.8	0.7	0.4	1.6	1.4	0.9
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	10.9	12.8	13.4	19.2	18.7	16.0	16.7	29.8
26 Computer, electronic and optical products	4.4	5.9	5.6	5.7	4.5	5.0	8.0	12.5
27 Electrical equipment	0.6	2.2	3.2	7.9	8.4	3.4	4.7	9.2
28 Machinery and equipment n.e.c.	4.3	2.8	2.0	1.6	1.4	5.2	1.2	1.6
29 Motor vehicles, trailers and semi-trailers	1.5	1.7	1.8	3.7	4.4	2.3	2.8	3.3
30 Other transport equipment	..	..	..	..	..	..	..	..
31-33 Furniture; repair, installation of machinery and equipment	2.7	3.5	..	3.0	..	2.2	..	..
31 Furniture	0.4	0.3	0.5	0.4	0.6	0.4	..	..
32 Other manufacturing	1.3	2.8	2.2	2.4	1.6	1.5	1.5	0.6
33 Repair and installation of machinery and equipment	1.0	0.3	..	0.1	..	0.4	0.2	0.2
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>5.4</b>	<b>5.4</b>	<b>4.9</b>	<b>23.7</b>	<b>33.0</b>	<b>9.6</b>	<b>25.2</b>	<b>15.5</b>
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>0.7</b>	<b>5.9</b>	<b>..</b>	<b>..</b>	<b>..</b>
<b>45-99 TOTAL SERVICES</b>	<b>121.1</b>	<b>129.6</b>	<b>137.7</b>	<b>147.0</b>	<b>198.7</b>	<b>181.1</b>	<b>156.6</b>	<b>175.2</b>
<b>45-82 Business sector services</b>	<b>121.1</b>	<b>127.5</b>	<b>137.7</b>	<b>144.5</b>	<b>196.2</b>	<b>178.9</b>	<b>152.6</b>	<b>172.6</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>5.8</b>	<b>7.6</b>	<b>2.9</b>	<b>2.9</b>	<b>3.3</b>	<b>2.7</b>	<b>2.7</b>	<b>0.2</b>
<b>49-53 Transportation and storage</b>	<b>4.7</b>	<b>1.3</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>
<b>55-56 Accommodation and food service activities</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>58-63 Information and communication</b>	<b>70.3</b>	<b>61.4</b>	<b>57.7</b>	<b>68.9</b>	<b>101.0</b>	<b>85.2</b>	<b>72.5</b>	<b>94.9</b>
58-60 Publishing, audiovisual and broadcasting activities	0.0	..	..	..	..	..	..	..
58 Publishing activities	..	..	..	..	..	..	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59 Motion picture, video and TV programme production; sound and music	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60 Programming and broadcasting activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61 Telecommunications	12.1	..	3.9	11.5	25.0	11.9	10.8	10.2
62-63 IT and other information services	58.2	..	53.7	57.3	75.9	..	..	..
62 Computer programming, consultancy and related activities	57.0	49.4	52.8	54.6	73.2	69.6	59.4	78.9
63 Information service activities	..	..	1.0	2.7	2.7	..	..	..
<b>64-66 Financial and insurance activities</b>	<b>14.0</b>	<b>19.3</b>	<b>26.0</b>	<b>22.5</b>	<b>22.5</b>	<b>25.4</b>	<b>25.1</b>	<b>24.7</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>26.0</b>	<b>37.8</b>	<b>50.6</b>	<b>49.4</b>	<b>69.4</b>	<b>65.4</b>	<b>50.1</b>	<b>50.4</b>
68 Real estate activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69-75x72 Professional, scientific and technical activities, except scientific R&D	6.9	6.8	6.9	7.9	11.2	10.8	9.6	11.3
72 Scientific research and development	18.9	29.1	41.9	40.5	57.5	54.1	40.2	33.6
77-82 Administrative and support service activities	..	2.0	1.9	..	..	..	..	..
84-99 Community, social and personal services	..	2.1	..	2.6	2.5	2.2	3.9	2.5
84-85 Public administration and defence; compulsory social security and education	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86-88 Human health and social work activities	..	2.1	..	2.6	2.5	2.2	3.9	2.5
90-93 Arts, entertainment and recreation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94-99 Other services; household-employers; extraterritorial bodies	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# ESTONIA

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>179.7</b>	<b>175.6</b>	<b>228.4</b>	<b>451.4</b>	<b>394.6</b>	<b>269.9</b>	<b>212.9</b>	<b>235.4</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>0.5</b>	<b>..</b>	<b>..</b>	<b>0.1</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>0.0</b>
<b>05-09 MINING AND QUARRYING</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>
<b>10-33 MANUFACTURING</b>	<b>40.7</b>	<b>36.1</b>	<b>83.9</b>	<b>287.9</b>	<b>171.1</b>	<b>93.3</b>	<b>45.9</b>	<b>63.5</b>
10-12 Food products, beverages and tobacco	4.1	4.0	3.0	2.6	2.4	8.1	5.4	5.7
13-15 Textiles, wearing apparel, leather and related products	1.3	0.8	1.0	1.0	0.8	0.9	1.1	1.1
13 Textiles	..	..	..	..	..	..	..	..
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	0.9	0.6	3.9	1.1	0.2	0.6	0.1	1.0
16 Wood and wood products, except furniture	0.9	..	..	..	..	0.6	0.1	0.0
17 Paper and paper products	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 Printing and reproduction of recorded media	0.0	..	..	..	..	0.0	0.0	0.9
19-23 Chemical, rubber, plastic, non-metallic mineral products	..	..	..	..	..	..	..	..
19 Coke and refined petroleum products	12.4	4.9	..	250.9	137.3	58.5	8.2	20.1
20-21 Chemical and pharmaceutical products	..	..	6.9	8.8	8.0	6.0	5.3	5.7
20 Chemicals and chemical products	5.4	5.3	6.4	2.9	6.4	4.3	3.4	4.2
21 Pharmaceuticals, medicinal, chemical and botanical products	..	..	0.5	5.9	1.6	1.7	1.9	1.5
22 Rubber and plastic products	0.7	1.6	1.3	1.7	1.5	0.8	6.8	0.4
23 Other non-metallic mineral products	0.4	0.1	..	..	..	..	..	..
24-25 Basic metals, metal products, except machinery and equipment	0.3	1.7	..	0.7	0.4	..	..	..
24 Basic metals	0.0	0.0	..	0.0	0.0	..	..	..
25 Fabricated metal products, except machinery and equipment	0.3	1.7	0.8	0.7	0.4	1.5	1.2	0.8
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	11.9	13.2	13.4	18.2	17.6	14.5	15.0	26.7
26 Computer, electronic and optical products	4.7	6.1	5.6	5.4	4.2	4.5	7.2	11.2
27 Electrical equipment	0.7	2.3	3.2	7.5	7.9	3.1	4.2	8.3
28 Machinery and equipment n.e.c.	4.7	2.9	2.0	1.5	1.3	4.7	1.1	1.4
29 Motor vehicles, trailers and semi-trailers	1.6	1.8	1.8	3.5	4.2	2.0	2.5	3.0
30 Other transport equipment	..	..	..	..	..	..	..	..
31-33 Furniture; repair, installation of machinery and equipment	3.0	3.6	..	2.8	..	2.0	..	..
31 Furniture	0.4	0.3	0.5	0.4	0.5	0.3	..	..
32 Other manufacturing	1.5	2.9	2.2	2.3	1.5	1.3	1.4	0.5
33 Repair and installation of machinery and equipment	1.1	0.3	..	0.1	..	0.3	0.2	0.2
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>5.9</b>	<b>5.6</b>	<b>4.9</b>	<b>22.6</b>	<b>31.0</b>	<b>8.7</b>	<b>22.7</b>	<b>14.0</b>
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>0.7</b>	<b>5.6</b>	<b>..</b>	<b>..</b>	<b>..</b>
<b>45-99 TOTAL SERVICES</b>	<b>131.9</b>	<b>133.2</b>	<b>137.7</b>	<b>139.8</b>	<b>186.5</b>	<b>164.1</b>	<b>140.6</b>	<b>157.2</b>
<b>45-82 Business sector services</b>	<b>131.9</b>	<b>131.1</b>	<b>137.7</b>	<b>137.4</b>	<b>184.2</b>	<b>162.1</b>	<b>137.1</b>	<b>155.0</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>6.3</b>	<b>7.9</b>	<b>2.9</b>	<b>2.8</b>	<b>3.1</b>	<b>2.5</b>	<b>2.4</b>	<b>0.2</b>
<b>49-53 Transportation and storage</b>	<b>5.2</b>	<b>1.4</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>
<b>55-56 Accommodation and food service activities</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>58-63 Information and communication</b>	<b>76.5</b>	<b>63.1</b>	<b>57.7</b>	<b>65.5</b>	<b>94.8</b>	<b>77.2</b>	<b>65.1</b>	<b>85.2</b>
58-60 Publishing, audiovisual and broadcasting activities	0.0	..	..	..	..	..	..	..
58 Publishing activities	..	..	..	..	..	..	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59 Motion picture, video and TV programme production; sound and music	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60 Programming and broadcasting activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61 Telecommunications	13.1	..	3.9	11.0	23.5	10.8	9.7	9.1
62-63 IT and other information services	63.4	..	53.7	54.4	71.3	..	..	..
62 Computer programming, consultancy and related activities	62.1	50.8	52.8	51.9	68.7	63.1	53.3	70.8
63 Information service activities	..	..	1.0	2.6	2.6	..	..	..
<b>64-66 Financial and insurance activities</b>	<b>15.3</b>	<b>19.9</b>	<b>26.0</b>	<b>21.4</b>	<b>21.1</b>	<b>23.0</b>	<b>22.5</b>	<b>22.2</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>28.3</b>	<b>38.9</b>	<b>50.6</b>	<b>46.9</b>	<b>65.1</b>	<b>59.2</b>	<b>45.0</b>	<b>45.3</b>
68 Real estate activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69-75x72 Professional, scientific and technical activities, except scientific R&D	7.5	6.9	6.9	7.5	10.5	9.8	8.7	10.1
72 Scientific research and development	20.6	29.9	41.9	38.5	54.0	49.0	36.1	30.2
77-82 Administrative and support service activities	..	2.1	1.9	..	..	..	..	..
84-99 Community, social and personal services	..	2.1	..	2.4	2.3	2.0	3.5	2.3
84-85 Public administration and defence; compulsory social security and education	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86-88 Human health and social work activities	..	2.1	..	2.4	2.3	2.0	3.5	2.3
90-93 Arts, entertainment and recreation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94-99 Other services; household-employers; extraterritorial bodies	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# FINLAND

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>5 593.5</b>	<b>5 413.4</b>	<b>5 401.0</b>	<b>5 620.3</b>	<b>5 167.9</b>	<b>5 083.5</b>	<b>4 865.4</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>0.7</b>	<b>1.2</b>	<b>3.9</b>	<b>5.5</b>	<b>2.0</b>	<b>3.2</b>	<b>1.7</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>11.1</b>	<b>16.5</b>	<b>9.1</b>	<b>9.3</b>	<b>10.9</b>	<b>9.4</b>	<b>7.0</b>	..
<b>10-33 MANUFACTURING</b>	<b>4 456.0</b>	<b>4 333.3</b>	<b>4 302.6</b>	<b>4 318.3</b>	<b>3 728.4</b>	<b>3 626.2</b>	<b>3 449.6</b>	..
10-12 Food products, beverages and tobacco	69.0	63.8	71.8	71.5	65.6	75.7	78.2	..
13-15 Textiles, wearing apparel, leather and related products	13.7	19.1	9.6	7.6	5.4	7.0	9.7	..
13 Textiles	..	..	6.5 e	4.7 e	3.4 e	5.3 e	4.4 e	..
14 Wearing apparel	..	..	3.0 e	2.6 e	1.6 e	1.3 e	5.1 e	..
15 Leather and related products, footwear	..	..	0.2 e	0.3 e	0.5 e	0.3 e	0.2 e	..
16-18 Wood and paper products and printing	126.2	107.2	129.8	101.1	109.1	105.0	99.9	..
16 Wood and wood products, except furniture	11.8	11.4	12.0	10.7	8.5	8.4	8.8	..
17 Paper and paper products	105.6	87.6	112.9	84.5	94.3	90.0	85.1	..
18 Printing and reproduction of recorded media	8.8	8.2	4.9	5.8	6.4	6.6	6.0	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	398.0 e	358.9 e	368.2	390.1 e	385.0 e	385.5 e	363.8 e	..
19 Coke and refined petroleum products	..	..	..	..	..	..	..	..
20-21 Chemical and pharmaceutical products	285.3	251.0	253.1	273.6	267.2	273.8	264.6	..
20 Chemicals and chemical products	163.3	128.9	136.0	143.5	117.1	141.4	116.0	..
21 Pharmaceuticals, medicinal, chemical and botanical products	122.0	122.0	117.1	130.1	150.1	132.4	148.6	..
22 Rubber and plastic products	..	..	..	..	..	..	..	..
23 Other non-metallic mineral products	30.0	27.0	33.4	33.7	37.3	30.3	32.4	..
24-25 Basic metals, metal products, except machinery and equipment	105.1	115.6	116.2	108.3	98.9	93.6	82.2	..
24 Basic metals	62.3	63.9	67.0	56.4	51.9	44.7	35.6	..
25 Fabricated metal products, except machinery and equipment	42.8	51.7	49.3	51.9	47.0	48.8	46.6	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	3 705.1	3 633.9	3 572.5	3 604.0	3 023.4	2 926.6	2 786.2	..
26 Computer, electronic and optical products	2 988.6	2 943.3	2 875.7	2 794.6	2 097.5	1 966.8	1 918.3	..
27 Electrical equipment	230.7	236.8	258.7	289.4	318.4	331.7	334.8	..
28 Machinery and equipment n.e.c.	439.0	389.4	385.5	444.2	518.7	557.1	488.2	..
29 Motor vehicles, trailers and semi-trailers	21.4	25.7	21.5	22.9	23.2	27.8	28.4	..
30 Other transport equipment	25.5	38.8	31.0	52.9	65.5	43.1	16.4	..
31-33 Furniture; repair, installation of machinery and equipment	39.0 e	34.8 e	34.5	35.8 e	40.9 e	32.9 e	29.6 e	..
31 Furniture	..	..	..	..	..	..	..	..
32 Other manufacturing	20.7	16.7	16.2	15.4	20.3	14.7	15.3	..
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>37.4</b>	<b>43.3</b>	<b>45.7</b>	<b>57.4</b>	<b>62.4</b>	<b>53.5</b>	<b>40.6</b>	..
35-36 Electricity, gas and water	12.0	15.8	23.6	26.0	33.7	27.7	21.1	..
37-39 Sewerage, waste management and remediation activities	25.3	27.6	22.1	31.4	28.7	25.7	19.6	..
<b>41-43 CONSTRUCTION</b>	<b>36.0</b>	<b>48.9</b>	<b>64.3</b>	<b>55.3</b>	<b>56.5</b>	<b>50.4</b>	<b>87.9</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>1 052.2</b>	<b>970.2</b>	<b>975.4</b>	<b>1 174.5</b>	<b>1 307.7</b>	<b>1 340.9</b>	<b>1 278.6</b>	..
<b>45-82 Business sector services</b>	<b>1 042.1</b>	<b>957.9</b>	<b>955.2</b>	<b>1 153.6</b>	<b>1 278.5</b>	<b>1 315.6</b>	<b>1 249.6</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>76.7</b>	<b>82.1</b>	<b>80.3</b>	<b>101.7</b>	<b>129.0</b>	<b>93.4</b>	<b>79.4</b>	..
<b>49-53 Transportation and storage</b>	<b>22.1</b>	<b>20.0</b>	<b>11.7</b>	<b>17.3</b>	<b>19.6</b>	<b>17.2</b>	<b>16.1</b>	..
<b>55-56 Accommodation and food service activities</b>	<b>..</b>	<b>..</b>	<b>0.7</b>	<b>0.7</b>	<b>1.1</b>	<b>0.5 e</b>	<b>0.1 e</b>	..
<b>58-63 Information and communication</b>	<b>468.8</b>	<b>418.4</b>	<b>460.8</b>	<b>500.5</b>	<b>514.4</b>	<b>602.6</b>	<b>563.9</b>	..
58-60 Publishing, audiovisual and broadcasting activities	15.0	11.5	57.8	64.4	64.0	75.2	90.3	..
58 Publishing activities	12.3	9.3	55.7	61.3	62.2	74.1	86.7	..
59-60 Motion picture, video and TV programme production; broadcasting activities	2.7	2.2	2.2	3.1	1.8	1.1	3.5	..
59 Motion picture, video and TV programme production; sound and music	..	..	2.1	..	..	..	..	..
60 Programming and broadcasting activities	..	..	0.1	..	..	..	..	..
61 Telecommunications	60.5	50.6	48.8	42.3	27.4	38.8	40.1	..
62-63 IT and other information services	393.2	356.3	354.2	393.8	423.0	488.6	433.7	..
62 Computer programming, consultancy and related activities	377.1	342.1	337.4	383.3	416.9	473.4	410.3	..
63 Information service activities	16.2	14.2	16.7	10.5	6.1	15.2	23.4	..
<b>64-66 Financial and insurance activities</b>	<b>83.5</b>	<b>77.1</b>	<b>76.3</b>	<b>79.3</b>	<b>94.8</b>	<b>75.6</b>	<b>103.8</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>390.9</b>	<b>360.3</b>	<b>325.4</b>	<b>454.1</b>	<b>519.6</b>	<b>526.3 e</b>	<b>486.2 e</b>	..
68 Real estate activities	..	..	2.6	3.1	3.2	1.4 e	0.2 e	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	214.7	188.3	190.7	170.0	192.3	154.1	140.6	..
72 Scientific research and development	176.3	172.0	128.8	276.4	318.8	367.1	338.4	..
77-82 Administrative and support service activities	..	..	3.3	4.5	5.3	3.5	6.8	..
84-99 Community, social and personal services	10.2	12.3	20.2	21.0	29.2	25.3	29.0	..
84-85 Public administration and defence; compulsory social security and education	..	..	0.0	1.4 e	3.3	1.4	1.9 e	..
86-88 Human health and social work activities	..	..	2.8	3.0	4.0	5.3	2.2	..
90-93 Arts, entertainment and recreation	..	..	14.5	13.2 e	16.8	16.7	22.5	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	2.9	3.4 e	5.1	1.9	2.4 e	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# FINLAND

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>5 803.2</b>	<b>5 411.8</b>	<b>5 401.0</b>	<b>5 474.2</b>	<b>4 945.9</b>	<b>4 727.7</b>	<b>4 454.2</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>0.7</b>	<b>1.2</b>	<b>3.9</b>	<b>5.4</b>	<b>1.9</b>	<b>3.0</b>	<b>1.5</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>11.6</b>	<b>16.5</b>	<b>9.1</b>	<b>9.0</b>	<b>10.4</b>	<b>8.7</b>	<b>6.4</b>	..
<b>10-33 MANUFACTURING</b>	<b>4 623.1</b>	<b>4 332.0</b>	<b>4 302.6</b>	<b>4 206.0</b>	<b>3 568.2</b>	<b>3 372.4</b>	<b>3 158.1</b>	..
10-12 Food products, beverages and tobacco	71.5	63.8	71.8	69.6	62.8	70.4	71.6	..
13-15 Textiles, wearing apparel, leather and related products	14.2	19.1	9.6	7.4	5.2	6.5	8.9	..
13 Textiles	..	..	6.5 e	4.5 e	3.2 e	4.9 e	4.1 e	..
14 Wearing apparel	..	..	3.0 e	2.5 e	1.6 e	1.3 e	4.7 e	..
15 Leather and related products, footwear	..	..	0.2 e	0.3 e	0.4 e	0.3 e	0.2 e	..
16-18 Wood and paper products and printing	130.9	107.2	129.8	98.4	104.5	97.7	91.4	..
16 Wood and wood products, except furniture	12.2	11.4	12.0	10.4	8.1	7.8	8.1	..
17 Paper and paper products	109.5	87.6	112.9	82.3	90.2	83.7	77.9	..
18 Printing and reproduction of recorded media	9.2	8.2	4.9	5.7	6.1	6.2	5.5	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	413.0 e	358.8 e	368.2	379.9 e	368.5 e	358.5 e	333.1 e	..
19 Coke and refined petroleum products	..	..	..	..	..	..	..	..
20-21 Chemical and pharmaceutical products	296.0	250.9	253.1	266.5	255.8	254.7	242.2	..
20 Chemicals and chemical products	169.5	128.9	136.0	139.8	112.1	131.5	106.2	..
21 Pharmaceuticals, medicinal, chemical and botanical products	126.6	122.0	117.1	126.7	143.7	123.2	136.1	..
22 Rubber and plastic products	..	..	..	..	..	..	..	..
23 Other non-metallic mineral products	31.1	27.0	33.4	32.8	35.7	28.1	29.7	..
24-25 Basic metals, metal products, except machinery and equipment	109.0	115.5	116.2	105.5	94.7	87.0	75.3	..
24 Basic metals	64.6	63.8	67.0	54.9	49.7	41.6	32.6	..
25 Fabricated metal products, except machinery and equipment	44.4	51.7	49.3	50.5	45.0	45.4	42.6	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	3 844.0	3 632.9	3 572.5	3 510.3	2 893.5	2 721.7	2 550.7	..
26 Computer, electronic and optical products	3 100.7	2 942.4	2 875.7	2 722.0	2 007.4	1 829.2	1 756.2	..
27 Electrical equipment	239.3	236.7	258.7	281.8	304.7	308.5	306.5	..
28 Machinery and equipment n.e.c.	455.5	389.3	385.5	432.6	496.5	518.1	447.0	..
29 Motor vehicles, trailers and semi-trailers	22.2	25.7	21.5	22.3	22.2	25.9	26.0	..
30 Other transport equipment	26.4	38.8	31.0	51.6	62.7	40.1	15.1	..
31-33 Furniture; repair, installation of machinery and equipment	40.5 e	34.7 e	34.5	34.8 e	39.2 e	30.6 e	27.1 e	..
31 Furniture	..	..	..	..	..	..	..	..
32 Other manufacturing	21.5	16.7	16.2	15.0	19.4	13.7	14.0	..
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>38.8</b>	<b>43.3</b>	<b>45.7</b>	<b>55.9</b>	<b>59.7</b>	<b>49.7</b>	<b>37.2</b>	..
35-36 Electricity, gas and water	12.5	15.8	23.6	25.3	32.3	25.8	19.3	..
37-39 Sewerage, waste management and remediation activities	26.3	27.6	22.1	30.6	27.4	23.9	18.0	..
<b>41-43 CONSTRUCTION</b>	<b>37.4</b>	<b>48.9</b>	<b>64.3</b>	<b>53.9</b>	<b>54.1</b>	<b>46.8</b>	<b>80.5</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>1 091.7</b>	<b>969.9</b>	<b>975.4</b>	<b>1 144.0</b>	<b>1 251.6</b>	<b>1 247.1</b>	<b>1 170.5</b>	..
<b>45-82 Business sector services</b>	<b>1 081.1</b>	<b>957.6</b>	<b>955.2</b>	<b>1 123.6</b>	<b>1 223.6</b>	<b>1 223.5</b>	<b>1 144.0</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>79.6</b>	<b>82.0</b>	<b>80.3</b>	<b>99.0</b>	<b>123.5</b>	<b>86.9</b>	<b>72.7</b>	..
<b>49-53 Transportation and storage</b>	<b>22.9</b>	<b>20.0</b>	<b>11.7</b>	<b>16.9</b>	<b>18.7</b>	<b>16.0</b>	<b>14.7</b>	..
<b>55-56 Accommodation and food service activities</b>	<b>..</b>	<b>..</b>	<b>0.7</b>	<b>0.7</b>	<b>1.0</b>	<b>0.4 e</b>	<b>0.1 e</b>	..
<b>58-63 Information and communication</b>	<b>486.4</b>	<b>418.3</b>	<b>460.8</b>	<b>487.5</b>	<b>492.3</b>	<b>560.5</b>	<b>516.3</b>	..
58-60 Publishing, audiovisual and broadcasting activities	15.6	11.5	57.8	62.7	61.3	70.0	82.6	..
58 Publishing activities	12.8	9.3	55.7	59.7	59.6	68.9	79.4	..
59-60 Motion picture, video and TV programme production; broadcasting activities	2.8	2.2	2.2	3.0	1.7	1.0	3.2	..
59 Motion picture, video and TV programme production; sound and music	..	..	2.1	..	..	..	..	..
60 Programming and broadcasting activities	..	..	0.1	..	..	..	..	..
61 Telecommunications	62.8	50.6	48.8	41.2	26.2	36.1	36.7	..
62-63 IT and other information services	408.0	356.2	354.2	383.6	404.8	454.4	397.1	..
62 Computer programming, consultancy and related activities	391.2	342.0	337.4	373.4	399.0	440.3	375.7	..
63 Information service activities	16.8	14.2	16.7	10.2	5.8	14.2	21.4	..
<b>64-66 Financial and insurance activities</b>	<b>86.7</b>	<b>77.1</b>	<b>76.3</b>	<b>77.3</b>	<b>90.8</b>	<b>70.3</b>	<b>95.1</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>405.6</b>	<b>360.2</b>	<b>325.4</b>	<b>442.3</b>	<b>497.3</b>	<b>489.4 e</b>	<b>445.1 e</b>	..
68 Real estate activities	..	..	2.6	3.0	3.1	1.3 e	0.2 e	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	222.7	188.2	190.7	165.6	184.0	143.3	128.7	..
72 Scientific research and development	182.9	172.0	128.8	269.2	305.1	341.5	309.8	..
77-82 Administrative and support service activities	..	..	3.3	4.4	5.1	3.3	6.3	..
84-99 Community, social and personal services	10.6	12.3	20.2	20.4	27.9	23.5	26.6	..
84-85 Public administration and defence; compulsory social security and education	..	..	0.0	1.3 e	3.1	1.3	1.7 e	..
86-88 Human health and social work activities	..	..	2.8	3.0	3.8	4.9	2.0	..
90-93 Arts, entertainment and recreation	..	..	14.5	12.8 e	16.1	15.5	20.6	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	2.9	3.3 e	4.9	1.7	2.2 e	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# FINLAND

## R&D expenditure in industry by industry orientation, current prices

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	..	..	<b>5 401.0</b>	<b>5 620.3</b>	<b>5 167.9</b>	<b>5 083.5</b>	<b>4 865.4</b>	<b>4 474.9</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	..	..	<b>13.3</b>	<b>22.3</b>	<b>21.0</b>	<b>13.8</b>	<b>12.2</b>	<b>18.1</b>
<b>05-09 MINING AND QUARRYING</b>	..	..	<b>41.8</b>	<b>40.8</b>	<b>18.4</b>	<b>15.5</b>	<b>15.7</b>	<b>20.1</b>
<b>10-33 MANUFACTURING</b>	..	..	<b>4 414.7</b>	<b>4 500.8</b>	<b>3 916.0</b>	<b>3 800.2</b>	<b>3 668.2</b>	<b>3 321.6</b>
10-12 Food products, beverages and tobacco	..	..	74.3	71.0	81.2	82.1	86.8	75.7
13-15 Textiles, wearing apparel, leather and related products	..	..	13.6	14.1	9.4	10.2	11.3	17.0
13 Textiles	..	..	9.2	8.7	5.8	7.8	5.1	14.5
14 Wearing apparel	..	..	4.2	4.8	2.8	2.0	5.9	2.1
15 Leather and related products, footwear	..	..	0.3	0.6	0.8	0.4	0.2	0.3
16-18 Wood and paper products and printing	..	..	124.0	95.4	109.5	108.1	99.7	117.7
16 Wood and wood products, except furniture	..	..	9.1	7.8	7.2	8.6	8.0	3.7
17 Paper and paper products	..	..	112.3	82.0	95.3	92.0	85.1	104.1
18 Printing and reproduction of recorded media	..	..	2.7	5.6	6.0	7.5	6.6	9.9
19-23 Chemical, rubber, plastic, non-metallic mineral products	..	..	416.4	432.9	406.1	402.6	368.6	406.9
19 Coke and refined petroleum products	..	..	45.9	47.9	49.1	51.0	33.7	42.3
20-21 Chemical and pharmaceutical products	..	..	313.1	326.0	297.1	292.6	279.8	302.4
20 Chemicals and chemical products	..	..	130.8	134.6	100.8	125.7	94.6	115.6
21 Pharmaceuticals, medicinal, chemical and botanical products	..	..	182.2	191.4	196.3	166.9	185.2	186.8
22 Rubber and plastic products	..	..	36.9	41.6	43.0	48.3	40.8	46.5
23 Other non-metallic mineral products	..	..	20.5	17.5	16.9	10.7	14.3	15.7
24-25 Basic metals, metal products, except machinery and equipment	..	..	214.5	150.9	94.4	145.2	158.0	170.9
24 Basic metals	..	..	41.6	37.4	35.1	31.0	42.4	33.7
25 Fabricated metal products, except machinery and equipment	..	..	172.9	113.5	59.3	114.2	115.7	137.2
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	..	..	3 495.5	3 658.3	3 133.7	2 968.6	2 857.1	2 439.0
26 Computer, electronic and optical products	..	..	2 956.0	2 937.1	2 256.8	2 117.0	2 059.0	1 625.5
27 Electrical equipment	..	..	241.4	278.5	314.7	320.2	330.9	266.7
28 Machinery and equipment n.e.c.	..	..	239.7	348.6	457.9	452.3	415.8	461.6
29 Motor vehicles, trailers and semi-trailers	..	..	16.8	18.7	5.9	11.7	8.5	40.5
30 Other transport equipment	..	..	41.6	75.4	98.5	67.4	42.9	44.6
31-33 Furniture; repair, installation of machinery and equipment	..	..	76.3	78.2	81.8	83.4	86.9	94.3
31 Furniture	..	..	4.6	6.3	7.6	6.1	7.0	5.8
32 Other manufacturing	..	..	55.4	60.5	61.9	66.8	73.3	78.4
33 Repair and installation of machinery and equipment	..	..	16.4	11.4	12.3	10.5	6.6	10.0
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	..	..	<b>45.5</b>	<b>41.7</b>	<b>32.6</b>	<b>27.9</b>	<b>22.1</b>	<b>19.4</b>
35-36 Electricity, gas and water	..	..	38.7	30.1	27.7	20.9	17.2	12.3
37-39 Sewerage, waste management and remediation activities	..	..	6.7	11.6	4.9	7.1	4.9	7.1
<b>41-43 CONSTRUCTION</b>	..	..	<b>65.0</b>	<b>74.0</b>	<b>72.4</b>	<b>62.3</b>	<b>26.3</b>	<b>34.1</b>
<b>45-99 TOTAL SERVICES</b>	..	..	<b>820.8</b>	<b>940.7</b>	<b>1 107.5</b>	<b>1 164.0</b>	<b>1 121.0</b>	<b>1 061.7</b>
<b>45-82 Business sector services</b>	..	..	<b>779.8</b>	<b>900.8</b>	<b>1 034.6</b>	<b>1 097.9</b>	<b>1 045.7</b>	<b>1 023.7</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	..	..	<b>6.4</b>	<b>15.7</b>	<b>3.4</b>	<b>7.8</b>	<b>7.0</b>	<b>12.2</b>
<b>49-53 Transportation and storage</b>	..	..	<b>12.4</b>	<b>17.4</b>	<b>18.3</b>	<b>14.8</b>	<b>17.1</b>	<b>17.9</b>
<b>55-56 Accommodation and food service activities</b>	..	..	<b>1.3</b>	<b>8.2</b>	<b>1.1</b>	<b>0.4</b>	<b>0.2</b>	<b>0.5</b>
<b>58-63 Information and communication</b>	..	..	<b>518.0</b>	<b>644.7</b>	<b>760.1</b>	<b>805.4</b>	<b>724.6</b>	<b>701.0</b>
58-60 Publishing, audiovisual and broadcasting activities	..	..	9.0	11.6	15.3	19.9	15.1	18.3
58 Publishing activities	..	..	7.0	9.1	13.1	17.8	12.7	16.0
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	2.1	2.5	2.3	2.1	2.4	2.3
59 Motion picture, video and TV programme production; sound and music	..	..	0.7	1.0	1.1	0.2	0.9	0.6
60 Programming and broadcasting activities	..	..	1.3	1.5	1.2	1.9	1.5	1.7
61 Telecommunications	..	..	90.3	227.9	290.3	272.9	218.2	95.6
62-63 IT and other information services	..	..	418.7	405.1	454.4	512.6	491.3	587.0
62 Computer programming, consultancy and related activities	..	..	293.2	279.4	327.9	366.3	360.8	495.2
63 Information service activities	..	..	125.5	125.8	126.6	146.4	130.5	91.9
<b>64-66 Financial and insurance activities</b>	..	..	<b>73.1</b>	<b>75.2</b>	<b>92.6</b>	<b>71.8</b>	<b>102.3</b>	<b>132.0</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	..	<b>168.6</b>	<b>139.6</b>	<b>159.0</b>	<b>197.6</b>	<b>194.5</b>	<b>160.1</b>
68 Real estate activities	..	..	10.0	2.7	5.7	4.5	3.6	2.1
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	41.4	21.8	22.9	22.8	31.5	39.2
72 Scientific research and development	..	..	110.3	107.1	126.9	164.6	154.7	107.5
77-82 Administrative and support service activities	..	..	6.9	8.0	3.6	5.7	4.6	11.3
84-99 Community, social and personal services	..	..	41.0	39.9	72.9	66.1	75.4	38.0
84-85 Public administration and defence; compulsory social security and education	..	..	1.2	1.8	4.4	1.7	3.4	1.5
86-88 Human health and social work activities	..	..	7.2	4.2	7.4	11.3	8.2	8.0
90-93 Arts, entertainment and recreation	..	..	10.1	10.1	10.2	11.8	11.7	15.2
94-99 Other services; household-employers; extraterritorial bodies	..	..	22.6	23.8	51.0	41.3	52.2	13.2

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# FINLAND

## R&D expenditure in industry by industry orientation, constant prices

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	..	..	<b>5 401.0</b>	<b>5 474.2</b>	<b>4 945.9</b>	<b>4 727.7</b>	<b>4 454.2</b>	<b>4 020.3</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	..	..	<b>13.3</b>	<b>21.7</b>	<b>20.1</b>	<b>12.8</b>	<b>11.1</b>	<b>16.3</b>
<b>05-09 MINING AND QUARRYING</b>	..	..	<b>41.8</b>	<b>39.7</b>	<b>17.6</b>	<b>14.4</b>	<b>14.4</b>	<b>18.1</b>
<b>10-33 MANUFACTURING</b>	..	..	<b>4 414.7</b>	<b>4 383.8</b>	<b>3 747.8</b>	<b>3 534.2</b>	<b>3 358.2</b>	<b>2 984.1</b>
10-12 Food products, beverages and tobacco	..	..	74.3	69.2	77.7	76.3	79.5	68.1
13-15 Textiles, wearing apparel, leather and related products	..	..	13.6	13.7	9.0	9.5	10.3	15.2
13 Textiles	..	..	9.2	8.4	5.6	7.3	4.7	13.0
14 Wearing apparel	..	..	4.2	4.7	2.7	1.8	5.4	1.9
15 Leather and related products, footwear	..	..	0.3	0.6	0.8	0.4	0.2	0.3
16-18 Wood and paper products and printing	..	..	124.0	92.9	104.8	100.6	91.3	105.7
16 Wood and wood products, except furniture	..	..	9.1	7.6	6.9	8.0	7.4	3.4
17 Paper and paper products	..	..	112.3	79.8	91.2	85.6	77.9	93.5
18 Printing and reproduction of recorded media	..	..	2.7	5.5	5.7	7.0	6.1	8.9
19-23 Chemical, rubber, plastic, non-metallic mineral products	..	..	416.4	421.7	388.6	374.4	337.4	365.6
19 Coke and refined petroleum products	..	..	45.9	46.6	47.0	47.5	30.9	38.0
20-21 Chemical and pharmaceutical products	..	..	313.1	317.5	284.3	272.1	256.2	271.6
20 Chemicals and chemical products	..	..	130.8	131.1	96.5	116.9	86.6	103.8
21 Pharmaceuticals, medicinal, chemical and botanical products	..	..	182.2	186.4	187.8	155.2	169.6	167.8
22 Rubber and plastic products	..	..	36.9	40.5	41.2	44.9	37.3	41.8
23 Other non-metallic mineral products	..	..	20.5	17.0	16.2	10.0	13.1	14.1
24-25 Basic metals, metal products, except machinery and equipment	..	..	214.5	147.0	90.3	135.1	144.7	153.6
24 Basic metals	..	..	41.6	36.4	33.6	28.9	38.8	30.3
25 Fabricated metal products, except machinery and equipment	..	..	172.9	110.6	56.7	106.2	105.9	123.3
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	..	..	3 495.5	3 563.2	2 999.1	2 760.8	2 615.6	2 191.2
26 Computer, electronic and optical products	..	..	2 956.0	2 860.8	2 159.8	1 968.8	1 884.9	1 460.4
27 Electrical equipment	..	..	241.4	271.3	301.1	297.8	302.9	239.6
28 Machinery and equipment n.e.c.	..	..	239.7	339.5	438.2	420.7	380.6	414.7
29 Motor vehicles, trailers and semi-trailers	..	..	16.8	18.2	5.7	10.9	7.8	36.4
30 Other transport equipment	..	..	41.6	73.4	94.2	62.7	39.3	40.0
31-33 Furniture; repair, installation of machinery and equipment	..	..	76.3	76.2	78.2	77.6	79.5	84.7
31 Furniture	..	..	4.6	6.2	7.2	5.6	6.4	5.2
32 Other manufacturing	..	..	55.4	58.9	59.2	62.1	67.1	70.5
33 Repair and installation of machinery and equipment	..	..	16.4	11.1	11.8	9.8	6.1	9.0
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	..	..	<b>45.5</b>	<b>40.6</b>	<b>31.2</b>	<b>26.0</b>	<b>20.2</b>	<b>17.4</b>
35-36 Electricity, gas and water	..	..	38.7	29.3	26.5	19.4	15.8	11.1
37-39 Sewerage, waste management and remediation activities	..	..	6.7	11.3	4.7	6.6	4.5	6.3
<b>41-43 CONSTRUCTION</b>	..	..	<b>65.0</b>	<b>72.0</b>	<b>69.3</b>	<b>57.9</b>	<b>24.0</b>	<b>30.6</b>
<b>45-99 TOTAL SERVICES</b>	..	..	<b>820.8</b>	<b>916.3</b>	<b>1 059.9</b>	<b>1 082.5</b>	<b>1 026.3</b>	<b>953.8</b>
<b>45-82 Business sector services</b>	..	..	<b>779.8</b>	<b>877.4</b>	<b>990.2</b>	<b>1 021.1</b>	<b>957.3</b>	<b>919.7</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	..	..	<b>6.4</b>	<b>15.2</b>	<b>3.3</b>	<b>7.3</b>	<b>6.4</b>	<b>11.0</b>
<b>49-53 Transportation and storage</b>	..	..	<b>12.4</b>	<b>17.0</b>	<b>17.6</b>	<b>13.8</b>	<b>15.7</b>	<b>16.1</b>
<b>55-56 Accommodation and food service activities</b>	..	..	<b>1.3</b>	<b>7.9</b>	<b>1.0</b>	<b>0.4</b>	<b>0.2</b>	<b>0.4</b>
<b>58-63 Information and communication</b>	..	..	<b>518.0</b>	<b>628.0</b>	<b>727.5</b>	<b>749.1</b>	<b>663.4</b>	<b>629.8</b>
58-60 Publishing, audiovisual and broadcasting activities	..	..	9.0	11.3	14.7	18.5	13.8	16.4
58 Publishing activities	..	..	7.0	8.9	12.5	16.5	11.6	14.4
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	2.1	2.5	2.2	2.0	2.2	2.1
59 Motion picture, video and TV programme production; sound and music	..	..	0.7	1.0	1.1	0.2	0.8	0.5
60 Programming and broadcasting activities	..	..	1.3	1.5	1.1	1.7	1.4	1.5
61 Telecommunications	..	..	90.3	222.0	277.9	253.8	199.8	85.9
62-63 IT and other information services	..	..	418.7	394.6	434.9	476.7	449.8	527.4
62 Computer programming, consultancy and related activities	..	..	293.2	272.1	313.8	340.6	330.3	444.9
63 Information service activities	..	..	125.5	122.5	121.1	136.1	119.5	82.5
<b>64-66 Financial and insurance activities</b>	..	..	<b>73.1</b>	<b>73.3</b>	<b>88.6</b>	<b>66.8</b>	<b>93.7</b>	<b>118.6</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	..	<b>168.6</b>	<b>136.0</b>	<b>152.2</b>	<b>183.8</b>	<b>178.0</b>	<b>143.8</b>
68 Real estate activities	..	..	10.0	2.7	5.4	4.2	3.3	1.9
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	41.4	21.3	21.9	21.2	28.9	35.2
72 Scientific research and development	..	..	110.3	104.3	121.4	153.1	141.7	96.6
77-82 Administrative and support service activities	..	..	6.9	7.8	3.4	5.3	4.2	10.1
84-99 Community, social and personal services	..	..	41.0	38.9	69.7	61.4	69.0	34.1
84-85 Public administration and defence; compulsory social security and education	..	..	1.2	1.8	4.2	1.5	3.1	1.3
86-88 Human health and social work activities	..	..	7.2	4.1	7.1	10.5	7.5	7.2
90-93 Arts, entertainment and recreation	..	..	10.1	9.8	9.7	11.0	10.7	13.6
94-99 Other services; household-employers; extraterritorial bodies	..	..	22.6	23.1	48.8	38.4	47.8	11.9

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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## FRANCE

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>29 211.9</b>	<b>30 659.8</b>	<b>32 184.0</b>	<b>34 290.4</b>	<b>35 581.4</b>	<b>37 834.5</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>117.1</b>	<b>146.7</b>	<b>159.4</b>	<b>179.9</b>	<b>185.4</b>	<b>219.2</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>6.5</b>	<b>17.5</b>	<b>17.6</b>	<b>14.1</b>	<b>17.5</b>	<b>18.5</b>	..	..
<b>10-33 MANUFACTURING</b>	<b>16 890.8</b>	<b>16 340.9</b>	<b>16 206.4</b>	<b>17 057.9</b>	<b>17 866.7</b>	<b>19 208.7</b>	..	..
10-12 Food products, beverages and tobacco	336.9	366.8	443.6	396.1	414.1	445.1	..	..
13-15 Textiles, wearing apparel, leather and related products	214.9	157.7	165.3	134.5	134.9	154.5	..	..
13 Textiles	130.4	113.1	102.7	89.8	88.1	98.2	..	..
14 Wearing apparel	74.6	36.4	51.1	37.4	39.9	50.0	..	..
15 Leather and related products, footwear	9.9	8.1	11.5	7.2	7.0	6.3	..	..
16-18 Wood and paper products and printing	81.9	80.7	66.5	78.0	87.8	92.5	..	..
16 Wood and wood products, except furniture	16.3	19.8	17.8	17.1	22.6	22.8	..	..
17 Paper and paper products	42.1	28.0	31.8	48.5	47.3	52.4	..	..
18 Printing and reproduction of recorded media	23.5	32.8	16.9	12.5	17.9	17.4	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	3 550.8	3 306.0	3 347.4	3 166.3	3 285.7	3 450.0	..	..
19 Coke and refined petroleum products	100.8	106.3	127.0	127.8	91.8	123.9	..	..
20-21 Chemical and pharmaceutical products	2 481.1	2 187.2	2 243.1	1 988.2	2 031.0	2 155.4	..	..
20 Chemicals and chemical products	1 288.1	1 196.2	1 266.4	990.5	1 074.4	1 163.6	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	1 192.9	991.0	976.7	997.7	956.6	991.8	..	..
22 Rubber and plastic products	761.6	782.7	784.3	832.8	943.3	935.4	..	..
23 Other non-metallic mineral products	207.3	229.8	193.0	217.5	219.6	235.3	..	..
24-25 Basic metals, metal products, except machinery and equipment	703.4	1 031.7	880.6	1 074.2	1 105.3	1 165.9	..	..
24 Basic metals	362.0	325.9	143.0	289.7	290.5	305.6	..	..
25 Fabricated metal products, except machinery and equipment	341.4	705.8	737.7	784.5	814.8	860.4	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	11 513.5	10 790.1	10 792.9	11 540.5	12 107.4	13 135.5	..	..
26 Computer, electronic and optical products	3 727.9	3 913.6	3 622.9	3 795.6	4 007.9	4 520.0	..	..
27 Electrical equipment	806.0	972.7	743.4	771.2	790.5	813.4	..	..
28 Machinery and equipment n.e.c.	909.5	1 081.7	1 117.6	1 219.0	1 293.3	1 275.3	..	..
29 Motor vehicles, trailers and semi-trailers	2 587.7	1 923.5	2 115.8	2 280.0	2 251.7	2 350.2	..	..
30 Other transport equipment	3 482.3	2 898.7	3 193.3	3 474.7	3 763.9	4 176.6	..	..
31-33 Furniture; repair, installation of machinery and equipment	489.4	607.8	510.1	668.3	731.5	765.1	..	..
31 Furniture	6.9	22.1	21.4	20.8	20.7	22.7	..	..
32 Other manufacturing	254.0	252.9	261.6	328.3	345.5	377.6	..	..
33 Repair and installation of machinery and equipment	228.6	332.8	227.1	319.2	365.3	364.8	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>456.7</b>	<b>552.5</b>	<b>588.4</b>	<b>643.7</b>	<b>647.8</b>	<b>708.2</b>	..	..
35-36 Electricity, gas and water	437.1	527.9	534.1	611.8	621.1	669.4	..	..
37-39 Sewerage, waste management and remediation activities	19.6	24.6	54.3	31.9	26.8	38.8	..	..
<b>41-43 CONSTRUCTION</b>	<b>100.0</b>	<b>184.2</b>	<b>193.8</b>	<b>153.5</b>	<b>173.2</b>	<b>180.7</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>11 640.7</b>	<b>13 418.1</b>	<b>15 018.3</b>	<b>16 241.2</b>	<b>16 690.9</b>	<b>17 499.0</b>	..	..
<b>45-82 Business sector services</b>	<b>11 597.8</b>	<b>13 366.1</b>	<b>14 962.6</b>	<b>16 177.5</b>	<b>16 625.1</b>	<b>17 419.1</b>	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>683.8</b>	<b>1 168.3</b>	<b>1 430.4</b>	<b>1 757.4</b>	<b>1 819.0</b>	<b>2 022.6</b>	..	..
<b>49-53 Transportation and storage</b>	<b>53.7</b>	<b>85.3</b>	<b>41.4</b>	<b>57.6</b>	<b>55.5</b>	<b>56.7</b>	..	..
<b>55-56 Accommodation and food service activities</b>	<b>0.1</b>	<b>3.3</b>	<b>3.8</b>	<b>0.4</b>	<b>4.1</b>	<b>5.2 e</b>	..	..
<b>58-63 Information and communication</b>	<b>2 713.1</b>	<b>3 028.3</b>	<b>3 484.3</b>	<b>3 581.2</b>	<b>3 935.3</b>	<b>4 478.7</b>	..	..
58-60 Publishing, audiovisual and broadcasting activities	870.0	831.8	954.4	939.2	1 067.4	1 219.3	..	..
58 Publishing activities	831.8	786.6	840.4	870.4	983.2	1 151.2	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	38.1	45.2	114.0	68.8	84.2	68.0	..	..
59 Motion picture, video and TV programme production; sound and music	..	41.5	99.9	58.9	74.9	61.1	..	..
60 Programming and broadcasting activities	..	3.7	14.0	10.0	9.4	7.0	..	..
61 Telecommunications	815.9	799.2	775.6	708.4	853.8	1 034.7	..	..
62-63 IT and other information services	1 027.2	1 397.3	1 754.3	1 933.6	2 014.1	2 224.7	..	..
62 Computer programming, consultancy and related activities	955.1	1 279.7	1 611.0	1 797.5	1 892.7	2 087.2	..	..
63 Information service activities	72.2	117.6	143.3	136.1	121.4	137.5	..	..
<b>64-66 Financial and insurance activities</b>	<b>178.3</b>	<b>188.1</b>	<b>259.3</b>	<b>311.0</b>	<b>302.9</b>	<b>312.2</b>	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>7 968.8</b>	<b>8 892.9</b>	<b>9 746.0</b>	<b>10 469.8</b>	<b>10 508.2</b>	<b>10 543.8 e</b>	..	..
68 Real estate activities	1.0	1.1	2.5	4.3	2.1	2.7 e	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	3 985.2	4 406.7	5 299.2	5 970.7	5 926.6	5 862.7	..	..
72 Scientific research and development	3 936.4	4 038.7	4 316.0	4 332.2	4 388.8	4 433.2	..	..
77-82 Administrative and support service activities	46.2	446.4	128.2	162.6	190.7	245.3	..	..
84-99 Community, social and personal services	42.9	52.0	55.7	63.7	65.7	79.8	..	..
84-85 Public administration and defence; compulsory social security and education	9.2	7.9	5.5	4.6	4.5	5.8	..	..
86-88 Human health and social work activities	2.6	5.8	12.1	16.9	18.0	24.8	..	..
90-93 Arts, entertainment and recreation	4.1	2.3	1.4	4.1	6.9	8.1	..	..
94-99 Other services; household-employers; extraterritorial bodies	27.0	36.0	36.7	38.2	36.4	41.2	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.Disclaimer: <http://oe.cd/disclaimer>

## FRANCE

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>30 554.5</b>	<b>31 312.7</b>	<b>32 184.0</b>	<b>33 504.3</b>	<b>34 488.0</b>	<b>34 981.6</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>122.5</b>	<b>149.8</b>	<b>159.4</b>	<b>175.8</b>	<b>179.7</b>	<b>202.7</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>6.8</b>	<b>17.8</b>	<b>17.6</b>	<b>13.8</b>	<b>17.0</b>	<b>17.1</b>	..	..
<b>10-33 MANUFACTURING</b>	<b>17 667.1</b>	<b>16 688.8</b>	<b>16 206.4</b>	<b>16 666.9</b>	<b>17 317.7</b>	<b>17 760.3</b>	..	..
10-12 Food products, beverages and tobacco	352.4	374.6	443.6	387.0	401.3	411.6	..	..
13-15 Textiles, wearing apparel, leather and related products	224.8	161.1	165.3	131.4	130.8	142.9	..	..
13 Textiles	136.4	115.6	102.7	87.8	85.4	90.8	..	..
14 Wearing apparel	78.0	37.2	51.1	36.6	38.7	46.3	..	..
15 Leather and related products, footwear	10.4	8.3	11.5	7.1	6.8	5.8	..	..
16-18 Wood and paper products and printing	85.7	82.4	66.5	76.2	85.1	85.6	..	..
16 Wood and wood products, except furniture	17.1	20.2	17.8	16.7	21.9	21.1	..	..
17 Paper and paper products	44.0	28.6	31.8	47.4	45.8	48.4	..	..
18 Printing and reproduction of recorded media	24.6	33.5	16.9	12.2	17.3	16.1	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	3 714.0	3 376.4	3 347.4	3 093.7	3 184.7	3 189.9	..	..
19 Coke and refined petroleum products	105.5	108.5	127.0	124.9	89.0	114.6	..	..
20-21 Chemical and pharmaceutical products	2 595.1	2 233.7	2 243.1	1 942.6	1 968.6	1 992.9	..	..
20 Chemicals and chemical products	1 347.3	1 221.7	1 266.4	967.8	1 041.4	1 075.8	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	1 247.8	1 012.1	976.7	974.8	927.3	917.0	..	..
22 Rubber and plastic products	796.6	799.4	784.3	813.7	914.3	864.9	..	..
23 Other non-metallic mineral products	216.8	234.7	193.0	212.5	212.8	217.6	..	..
24-25 Basic metals, metal products, except machinery and equipment	735.7	1 053.7	880.6	1 049.5	1 071.3	1 078.0	..	..
24 Basic metals	378.6	332.9	143.0	283.0	281.6	282.5	..	..
25 Fabricated metal products, except machinery and equipment	357.1	720.8	737.7	766.5	789.7	795.5	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	12 042.7	11 019.9	10 792.9	11 276.0	11 735.4	12 145.0	..	..
26 Computer, electronic and optical products	3 899.3	3 997.0	3 622.9	3 708.6	3 884.8	4 179.2	..	..
27 Electrical equipment	843.0	993.4	743.4	753.5	766.2	752.1	..	..
28 Machinery and equipment n.e.c.	951.4	1 104.7	1 117.6	1 191.1	1 253.5	1 179.2	..	..
29 Motor vehicles, trailers and semi-trailers	2 706.6	1 964.4	2 115.8	2 227.8	2 182.5	2 173.0	..	..
30 Other transport equipment	3 642.4	2 960.4	3 193.3	3 395.0	3 648.3	3 861.7	..	..
31-33 Furniture; repair, installation of machinery and equipment	511.9	620.8	510.1	653.0	709.0	707.4	..	..
31 Furniture	7.2	22.6	21.4	20.3	20.1	21.0	..	..
32 Other manufacturing	265.7	258.3	261.6	320.8	334.9	349.2	..	..
33 Repair and installation of machinery and equipment	239.1	339.8	227.1	311.8	354.0	337.3	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>477.7</b>	<b>564.2</b>	<b>588.4</b>	<b>628.9</b>	<b>627.8</b>	<b>654.8</b>	..	..
35-36 Electricity, gas and water	457.2	539.1	534.1	597.7	602.0	618.9	..	..
37-39 Sewerage, waste management and remediation activities	20.5	25.2	54.3	31.2	25.9	35.9	..	..
<b>41-43 CONSTRUCTION</b>	<b>104.6</b>	<b>188.1</b>	<b>193.8</b>	<b>150.0</b>	<b>167.8</b>	<b>167.1</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>12 175.8</b>	<b>13 703.8</b>	<b>15 018.3</b>	<b>15 868.9</b>	<b>16 177.9</b>	<b>16 179.5</b>	..	..
<b>45-82 Business sector services</b>	<b>12 130.9</b>	<b>13 650.7</b>	<b>14 962.6</b>	<b>15 806.6</b>	<b>16 114.2</b>	<b>16 105.7</b>	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>715.2</b>	<b>1 193.1</b>	<b>1 430.4</b>	<b>1 717.1</b>	<b>1 763.1</b>	<b>1 870.1</b>	..	..
<b>49-53 Transportation and storage</b>	<b>56.2</b>	<b>87.1</b>	<b>41.4</b>	<b>56.3</b>	<b>53.8</b>	<b>52.4</b>	..	..
<b>55-56 Accommodation and food service activities</b>	<b>0.1</b>	<b>3.3</b>	<b>3.8</b>	<b>0.4</b>	<b>4.0</b>	<b>4.8 e</b>	..	..
<b>58-63 Information and communication</b>	<b>2 837.8</b>	<b>3 092.8</b>	<b>3 484.3</b>	<b>3 499.1</b>	<b>3 814.4</b>	<b>4 141.0</b>	..	..
58-60 Publishing, audiovisual and broadcasting activities	910.0	849.5	954.4	917.7	1 034.6	1 127.3	..	..
58 Publishing activities	870.1	803.3	840.4	850.5	953.0	1 064.4	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	39.9	46.2	114.0	67.2	81.6	62.9	..	..
59 Motion picture, video and TV programme production; sound and music	..	42.4	99.9	57.5	72.6	56.5	..	..
60 Programming and broadcasting activities	..	3.8	14.0	9.7	9.1	6.5	..	..
61 Telecommunications	853.4	816.2	775.6	692.1	827.6	956.7	..	..
62-63 IT and other information services	1 074.5	1 427.0	1 754.3	1 889.3	1 952.2	2 057.0	..	..
62 Computer programming, consultancy and related activities	999.0	1 306.9	1 611.0	1 756.3	1 834.5	1 929.9	..	..
63 Information service activities	75.5	120.1	143.3	133.0	117.7	127.1	..	..
<b>64-66 Financial and insurance activities</b>	<b>186.5</b>	<b>192.1</b>	<b>259.3</b>	<b>303.8</b>	<b>293.5</b>	<b>288.7</b>	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>8 335.0</b>	<b>9 082.2</b>	<b>9 746.0</b>	<b>10 229.8</b>	<b>10 185.3</b>	<b>9 748.7 e</b>	..	..
68 Real estate activities	1.1	1.1	2.5	4.2	2.1	2.5 e	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	4 168.4	4 500.5	5 299.2	5 833.9	5 744.4	5 420.6	..	..
72 Scientific research and development	4 117.3	4 124.7	4 316.0	4 232.9	4 254.0	4 099.0	..	..
77-82 Administrative and support service activities	48.3	455.9	128.2	158.9	184.8	226.8	..	..
84-99 Community, social and personal services	44.9	53.1	55.7	62.3	63.7	73.8	..	..
84-85 Public administration and defence; compulsory social security and education	9.6	8.1	5.5	4.5	4.4	5.4	..	..
86-88 Human health and social work activities	2.7	5.9	12.1	16.5	17.4	22.9	..	..
90-93 Arts, entertainment and recreation	4.3	2.4	1.4	4.0	6.7	7.5	..	..
94-99 Other services; household-employers; extraterritorial bodies	28.3	36.8	36.7	37.3	35.2	38.0	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.Disclaimer: <http://oe.cd/disclaimer>

## FRANCE

## R&amp;D expenditure in industry by industry orientation, current prices

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>29 211.9</b>	<b>30 659.8</b>	<b>32 184.0</b>	<b>34 290.4</b>	<b>35 581.4</b>	<b>37 834.5</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>416.9</b>	<b>459.4</b>	<b>477.1</b>	<b>496.5</b>	<b>532.2</b>	<b>624.4</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>190.9</b>	<b>266.3</b>	<b>270.6</b>	<b>281.2</b>	<b>295.3</b>	<b>297.8</b>	..	..
<b>10-33 MANUFACTURING</b>	<b>23 887.7</b>	<b>24 301.9</b>	<b>24 663.6</b>	<b>26 216.5</b>	<b>26 762.7</b>	<b>27 918.4</b>	..	..
10-12 Food products, beverages and tobacco	629.1	666.2	726.4	721.6	734.8	811.9	..	..
13-15 Textiles, wearing apparel, leather and related products	200.3	162.8	194.4	166.2	149.4	172.9	..	..
13 Textiles	106.4	91.6	103.8	92.9	80.1	88.8	..	..
14 Wearing apparel	78.8	57.7	74.7	66.3	61.7	74.3	..	..
15 Leather and related products, footwear	15.1	13.5	15.9	7.0	7.6	9.7	..	..
16-18 Wood and paper products and printing	102.4	95.9	92.3	116.8	123.2	125.1	..	..
16 Wood and wood products, except furniture	25.7	34.9	32.6	34.3	35.4	34.4	..	..
17 Paper and paper products	67.7	53.2	53.7	73.7	75.3	78.5	..	..
18 Printing and reproduction of recorded media	9.0	7.9	6.0	8.8	12.3	12.2	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	6 955.8	7 013.1	6 958.7	7 076.0	7 239.4	7 710.4	..	..
19 Coke and refined petroleum products	233.0	249.7	261.0	255.9	238.4	277.1	..	..
20-21 Chemical and pharmaceutical products	5 596.6	5 618.3	5 530.7	5 565.1	5 649.9	6 020.3	..	..
20 Chemicals and chemical products	1 638.6	1 684.0	1 753.8	1 831.9	1 940.2	2 185.4	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	3 958.0	3 934.3	3 776.9	3 733.2	3 709.7	3 834.8	..	..
22 Rubber and plastic products	783.2	768.5	814.9	887.7	979.6	992.7	..	..
23 Other non-metallic mineral products	343.0	376.5	352.2	367.3	371.4	420.4	..	..
24-25 Basic metals, metal products, except machinery and equipment	1 051.4	1 090.7	1 216.3	1 295.3	1 295.2	1 347.9	..	..
24 Basic metals	450.1	413.4	468.2	503.5	462.0	484.2	..	..
25 Fabricated metal products, except machinery and equipment	601.3	677.3	748.1	791.9	833.1	863.7	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	14 600.0	14 843.9	15 031.0	16 321.0	16 722.7	17 239.0	..	..
26 Computer, electronic and optical products	4 335.2	4 582.5	4 558.4	4 586.2	4 781.8	5 062.8	..	..
27 Electrical equipment	853.2	1 008.1	1 036.0	1 141.1	1 179.1	1 256.3	..	..
28 Machinery and equipment n.e.c.	1 047.4	1 063.0	1 112.0	1 214.9	1 302.3	1 363.9	..	..
29 Motor vehicles, trailers and semi-trailers	4 945.0	4 964.7	4 944.9	5 592.0	5 324.8	4 877.1	..	..
30 Other transport equipment	3 419.2	3 225.6	3 379.7	3 786.8	4 134.8	4 678.9	..	..
31-33 Furniture; repair, installation of machinery and equipment	348.8	429.3	444.4	519.7	498.2	511.1	..	..
31 Furniture	..	..	19.8	28.2	23.1	27.5	..	..
32 Other manufacturing	335.4	361.8	424.6	491.5	475.1	483.6	..	..
33 Repair and installation of machinery and equipment	..	..	0.0	0.0	0.0	0.0	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>537.0</b>	<b>619.2</b>	<b>613.8</b>	<b>697.5</b>	<b>710.4</b>	<b>769.6</b>	..	..
35-36 Electricity, gas and water	479.3	555.0	575.3	652.6	664.2	716.8	..	..
37-39 Sewerage, waste management and remediation activities	57.7	64.2	38.6	44.9	46.2	52.7	..	..
<b>41-43 CONSTRUCTION</b>	<b>90.3</b>	<b>108.7</b>	<b>103.6</b>	<b>128.3</b>	<b>138.2</b>	<b>128.3</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>4 089.0</b>	<b>4 904.3</b>	<b>6 055.2</b>	<b>6 470.4</b>	<b>7 142.6</b>	<b>8 082.9</b>	..	..
<b>45-82 Business sector services</b>	<b>4 061.3</b>	<b>4 882.5</b>	<b>6 028.8</b>	<b>6 434.9</b>	<b>7 084.8</b>	<b>8 008.3</b>	..	..
45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs	0.0	0.0	0.0	0.0	0.0	0.0	..	..
49-53 Transportation and storage	35.4	49.5	52.6	72.4	63.8	62.2	..	..
55-56 Accommodation and food service activities	0.0	0.0	0.0	0.0	0.0	0.0	..	..
<b>58-63 Information and communication</b>	<b>3 038.3</b>	<b>3 479.7</b>	<b>4 085.6</b>	<b>4 233.4</b>	<b>4 523.6</b>	<b>5 015.1</b>	..	..
58-60 Publishing, audiovisual and broadcasting activities	702.3	862.7	1 057.0	1 063.4	1 132.3	1 302.1	..	..
58 Publishing activities	643.5	776.6	899.1	956.2	1 007.5	1 201.8	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	58.8	86.1	157.8	107.2	125.0	100.3	..	..
59 Motion picture, video and TV programme production; sound and music	36.7	35.4	94.7	53.9	67.6	51.5	..	..
60 Programming and broadcasting activities	22.1	50.8	63.2	53.3	57.3	48.7	..	..
61 Telecommunications	963.6	929.0	945.5	959.7	1 097.4	1 215.3	..	..
62-63 IT and other information services	1 372.4	1 688.0	2 083.1	2 210.3	2 294.0	2 497.8	..	..
62 Computer programming, consultancy and related activities	1 338.3	1 570.6	1 928.0	2 020.0	2 133.1	2 324.4	..	..
63 Information service activities	34.1	117.4	155.1	190.3	160.8	173.4	..	..
<b>64-66 Financial and insurance activities</b>	<b>156.2</b>	<b>195.5</b>	<b>202.2</b>	<b>231.9</b>	<b>235.8</b>	<b>246.3</b>	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>831.2</b>	<b>1 157.8</b>	<b>1 688.5</b>	<b>1 897.2</b>	<b>2 261.4</b>	<b>2 684.7</b>	..	..
68 Real estate activities	0.0	0.0	0.0	0.0	0.0	0.0	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	578.6	786.9	1 162.7	1 275.4	1 486.6	1 817.4	..	..
72 Scientific research and development	184.3	298.2	406.8	501.8	621.6	699.1	..	..
77-82 Administrative and support service activities	68.3	72.7	118.9	119.9	153.3	168.2	..	..
84-99 Community, social and personal services	27.7	21.8	26.4	35.5	57.8	74.5	..	..
84-85 Public administration and defence; compulsory social security and education	2.1	3.8	1.2	3.1	4.3 e	4.1	..	..
86-88 Human health and social work activities	21.8	15.4	20.7	23.1	30.1	37.0	..	..
90-93 Arts, entertainment and recreation	3.8	0.8	1.2	2.5	3.6	7.3	..	..
94-99 Other services; household-employers; extraterritorial bodies	0.1	1.9	3.2	6.8	19.8 e	26.2	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.Disclaimer: <http://oe.cd/disclaimer>

## FRANCE

## R&amp;D expenditure in industry by industry orientation, constant prices

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>30 554.5</b>	<b>31 312.7</b>	<b>32 184.0</b>	<b>33 504.3</b>	<b>34 488.0</b>	<b>34 981.6</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>436.0</b>	<b>469.2</b>	<b>477.1</b>	<b>485.1</b>	<b>515.8</b>	<b>577.3</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>199.7</b>	<b>271.9</b>	<b>270.6</b>	<b>274.7</b>	<b>286.2</b>	<b>275.3</b>	..	..
<b>10-33 MANUFACTURING</b>	<b>24 985.7</b>	<b>24 819.4</b>	<b>24 663.6</b>	<b>25 615.5</b>	<b>25 940.3</b>	<b>25 813.3</b>	..	..
10-12 Food products, beverages and tobacco	658.0	680.4	726.4	705.0	712.2	750.7	..	..
13-15 Textiles, wearing apparel, leather and related products	209.5	166.2	194.4	162.3	144.8	159.8	..	..
13 Textiles	111.3	93.5	103.8	90.8	77.6	82.1	..	..
14 Wearing apparel	82.4	58.9	74.7	64.8	59.8	68.7	..	..
15 Leather and related products, footwear	15.8	13.8	15.9	6.8	7.3	9.0	..	..
16-18 Wood and paper products and printing	107.1	97.9	92.3	114.1	119.4	115.6	..	..
16 Wood and wood products, except furniture	26.9	35.6	32.6	33.5	34.3	31.8	..	..
17 Paper and paper products	70.8	54.3	53.7	72.0	73.0	72.6	..	..
18 Printing and reproduction of recorded media	9.4	8.0	6.0	8.6	11.9	11.3	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	7 275.5	7 162.4	6 958.7	6 913.8	7 016.9	7 129.0	..	..
19 Coke and refined petroleum products	243.7	255.0	261.0	250.0	231.1	256.2	..	..
20-21 Chemical and pharmaceutical products	5 853.8	5 738.0	5 530.7	5 437.5	5 476.3	5 566.3	..	..
20 Chemicals and chemical products	1 713.9	1 719.8	1 753.8	1 789.9	1 880.6	2 020.7	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	4 139.9	4 018.1	3 776.9	3 647.6	3 595.7	3 545.7	..	..
22 Rubber and plastic products	819.2	784.9	814.9	867.4	949.5	917.8	..	..
23 Other non-metallic mineral products	358.8	384.6	352.2	358.9	360.0	388.7	..	..
24-25 Basic metals, metal products, except machinery and equipment	1 099.7	1 114.0	1 216.3	1 265.6	1 255.4	1 246.2	..	..
24 Basic metals	470.8	422.2	468.2	491.9	447.8	447.7	..	..
25 Fabricated metal products, except machinery and equipment	628.9	691.7	748.1	773.7	807.5	798.6	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	15 271.1	15 159.9	15 031.0	15 946.9	16 208.8	15 939.1	..	..
26 Computer, electronic and optical products	4 534.4	4 680.1	4 558.4	4 481.1	4 634.9	4 681.1	..	..
27 Electrical equipment	892.4	1 029.5	1 036.0	1 114.9	1 142.8	1 161.6	..	..
28 Machinery and equipment n.e.c.	1 095.6	1 085.6	1 112.0	1 187.1	1 262.2	1 261.1	..	..
29 Motor vehicles, trailers and semi-trailers	5 172.3	5 070.4	4 944.9	5 463.8	5 161.1	4 509.4	..	..
30 Other transport equipment	3 576.4	3 294.3	3 379.7	3 700.0	4 007.7	4 326.1	..	..
31-33 Furniture; repair, installation of machinery and equipment	364.8	438.5	444.4	507.8	482.9	472.5	..	..
31 Furniture	..	..	19.8	27.6	22.4	25.4	..	..
32 Other manufacturing	350.9	369.5	424.6	480.2	460.5	447.1	..	..
33 Repair and installation of machinery and equipment	..	..	0.0	0.0	0.0	0.0	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>561.7</b>	<b>632.4</b>	<b>613.8</b>	<b>681.5</b>	<b>688.6</b>	<b>711.5</b>	..	..
35-36 Electricity, gas and water	501.3	566.8	575.3	637.6	643.8	662.8	..	..
37-39 Sewerage, waste management and remediation activities	60.4	65.6	38.6	43.9	44.8	48.8	..	..
<b>41-43 CONSTRUCTION</b>	<b>94.4</b>	<b>111.0</b>	<b>103.6</b>	<b>125.3</b>	<b>134.0</b>	<b>118.6</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>4 277.0</b>	<b>5 008.7</b>	<b>6 055.2</b>	<b>6 322.1</b>	<b>6 923.1</b>	<b>7 473.4</b>	..	..
<b>45-82 Business sector services</b>	<b>4 248.0</b>	<b>4 986.4</b>	<b>6 028.8</b>	<b>6 287.4</b>	<b>6 867.1</b>	<b>7 404.5</b>	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	..	..
<b>49-53 Transportation and storage</b>	<b>37.1</b>	<b>50.6</b>	<b>52.6</b>	<b>70.7</b>	<b>61.9</b>	<b>57.5</b>	..	..
<b>55-56 Accommodation and food service activities</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	..	..
<b>58-63 Information and communication</b>	<b>3 177.9</b>	<b>3 553.8</b>	<b>4 085.6</b>	<b>4 136.4</b>	<b>4 384.6</b>	<b>4 637.0</b>	..	..
58-60 Publishing, audiovisual and broadcasting activities	734.6	881.1	1 057.0	1 039.0	1 097.5	1 203.9	..	..
58 Publishing activities	673.1	793.1	899.1	934.3	976.5	1 111.1	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	61.5	88.0	157.8	104.7	121.1	92.7	..	..
59 Motion picture, video and TV programme production; sound and music	38.4	36.1	94.7	52.6	65.6	47.6	..	..
60 Programming and broadcasting activities	23.1	51.9	63.2	52.1	55.6	45.0	..	..
61 Telecommunications	1 007.9	948.7	945.5	937.7	1 063.6	1 123.7	..	..
62-63 IT and other information services	1 435.5	1 724.0	2 083.1	2 159.6	2 223.5	2 309.4	..	..
62 Computer programming, consultancy and related activities	1 399.8	1 604.1	1 928.0	1 973.7	2 067.6	2 149.2	..	..
63 Information service activities	35.6	119.9	155.1	186.0	155.9	160.3	..	..
<b>64-66 Financial and insurance activities</b>	<b>163.4</b>	<b>199.6</b>	<b>202.2</b>	<b>226.6</b>	<b>228.6</b>	<b>227.7</b>	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>869.4</b>	<b>1 182.4</b>	<b>1 688.5</b>	<b>1 853.7</b>	<b>2 191.9</b>	<b>2 482.2</b>	..	..
68 Real estate activities	0.0	0.0	0.0	0.0	0.0	0.0	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	605.2	803.6	1 162.7	1 246.2	1 440.9	1 680.4	..	..
72 Scientific research and development	192.8	304.6	406.8	490.3	602.5	646.4	..	..
77-82 Administrative and support service activities	71.4	74.2	118.9	117.2	148.6	155.5	..	..
84-99 Community, social and personal services	29.0	22.3	26.4	34.7	56.0	68.9	..	..
84-85 Public administration and defence; compulsory social security and education	2.2	3.9	1.2	3.0	4.2 e	3.8	..	..
86-88 Human health and social work activities	22.8	15.7	20.7	22.5	29.2	34.2	..	..
90-93 Arts, entertainment and recreation	3.9	0.8	1.2	2.5	3.4	6.7	..	..
94-99 Other services; household-employers; extraterritorial bodies	0.1	1.9	3.2	6.7	19.2 e	24.3	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.Disclaimer: <http://oe.cd/disclaimer>

# GERMANY

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>56 159.1</b>	<b>55 887.4</b>	<b>58 402.0</b>	<b>64 758.0</b>	<b>68 327.0</b>	<b>69 136.9</b>	<b>74 286.0</b>	<b>78 799.4</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>120.7</b>	<b>162.0</b>	<b>177.1</b>	<b>159.9</b>	<b>175.7</b>	<b>185.6</b>	<b>178.4</b>	<b>193.5</b>
<b>05-09 MINING AND QUARRYING</b>	<b>34.3</b>	<b>16.7</b>	<b>15.3</b>	<b>12.7</b>	<b>13.6</b>	<b>19.9</b>	<b>16.2</b>	<b>27.5</b>
<b>10-33 MANUFACTURING</b>	<b>49 704.4</b>	<b>47 785.3</b>	<b>50 078.6</b>	<b>55 447.2</b>	<b>58 854.9</b>	<b>59 434.2</b>	<b>64 492.6</b>	<b>67 113.2</b>
10-12 Food products, beverages and tobacco	335.0	392.5	408.9	390.5	400.0	406.2	415.0	410.6
13-15 Textiles, wearing apparel, leather and related products	163.6	155.9	154.3	151.1	155.4	145.8	149.9	117.8
13 Textiles	116.4	87.3	84.6	78.7	81.8	72.5	72.2	..
14 Wearing apparel	40.5	61.7	62.7	65.4	66.3	66.1	70.3	..
15 Leather and related products, footwear	6.7	6.9	7.1	7.0	7.2	7.2	7.4	..
16-18 Wood and paper products and printing	221.2	217.4	258.9	231.6	218.4	293.0	291.7	277.7
16 Wood and wood products, except furniture	24.7	24.8	28.5	28.7	25.2	25.7	25.4	..
17 Paper and paper products	74.6	79.0	92.1	77.7	73.8	130.2	134.0	..
18 Printing and reproduction of recorded media	121.9	113.6	138.3	125.3	119.4	137.1	132.3	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	9 604.6	10 272.0	10 040.9	11 011.9	11 337.5	11 328.3	11 857.7	11 991.5
19 Coke and refined petroleum products	107.3	114.8	110.9	119.6	121.9	120.9	155.0	174.0
20-21 Chemicals and pharmaceutical products	8 093.8	8 756.6	8 538.1	9 339.5	9 638.4	9 578.8	9 987.9	10 009.2
20 Chemicals and chemical products	3 932.1	3 947.4	3 887.7	4 179.7	4 440.5	4 319.4	4 729.4	4 894.7
21 Pharmaceuticals, medicinal, chemical and botanical products	4 161.7	4 809.2	4 650.4	5 159.8	5 197.9	5 259.4	5 258.5	5 114.5
22 Rubber and plastic products	1 079.1	1 045.7	1 036.9	1 196.1	1 214.4	1 251.8	1 321.1	1 407.0
23 Other non-metallic mineral products	324.4	355.0	355.0	356.8	362.8	376.8	393.7	401.3
24-25 Basic metals, metal products, except machinery and equipment	1 389.4	1 489.3	1 500.2	1 574.8	1 644.5	1 643.4	1 674.3	1 751.6
24 Basic metals	485.3	610.9	613.5	654.5	688.1	683.9	696.9	686.0
25 Fabricated metal products, except machinery and equipment	904.2	878.4	886.7	920.3	956.4	959.5	977.4	1 065.7
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	36 882.0	33 976.1	36 416.5	40 548.1	43 633.5	43 967.2	48 322.1	50 062.0
26 Computer, electronic and optical products	7 892.1	7 178.5	7 460.4	8 321.4	9 389.4	9 476.1	9 783.8	9 749.6
27 Electrical equipment	1 822.9	1 645.9	1 673.4	2 030.7	2 200.5	2 749.3	2 830.5	2 907.7
28 Machinery and equipment n.e.c.	5 693.3	5 552.9	5 721.0	6 215.6	6 583.2	6 954.5	7 364.7	7 058.1
29 Motor vehicles, trailers and semi-trailers	18 629.7	17 060.2	18 432.8	20 681.6	22 052.6	22 183.0	25 633.9	27 751.5
30 Other transport equipment	2 844.2	2 538.4	3 128.9	3 298.8	3 408.0	2 604.5	2 696.0	2 595.3
31-33 Furniture; repair, installation of machinery and equipment	1 108.6	1 282.0	1 298.9	1 539.2	1 465.7	1 650.3	1 781.9	2 501.8
31 Furniture	119.1	63.1	65.2	52.9	50.7	48.3	50.8	44.6
32 Other manufacturing	466.0	539.8	548.6	697.3	667.3	786.0	842.7	809.2
33 Repair and installation of machinery and equipment	523.5	679.2	685.1	789.0	747.8	816.0	888.4	1 648.1
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>156.6</b>	<b>267.1</b>	<b>244.4</b>	<b>250.3</b>	<b>236.4</b>	<b>269.1</b>	<b>254.8</b>	<b>208.8</b>
35-36 Electricity, gas and water	149.3	258.0	235.8	235.4	224.3	251.6	237.9	..
37-39 Sewerage, waste management and remediation activities	7.3	9.1	8.6	14.8	12.1	17.6	16.9	..
<b>41-43 CONSTRUCTION</b>	<b>67.8</b>	<b>85.2</b>	<b>95.2</b>	<b>83.4</b>	<b>89.7</b>	<b>103.3</b>	<b>104.3</b>	<b>96.6</b>
<b>45-99 TOTAL SERVICES</b>	<b>6 075.4</b>	<b>7 571.2</b>	<b>7 791.4</b>	<b>8 804.6</b>	<b>8 956.7</b>	<b>9 124.9</b>	<b>9 239.8</b>	<b>11 159.8</b>
<b>45-82 Business sector services</b>	<b>6 074.8</b>	<b>7 549.7</b>	<b>7 771.4</b>	<b>8 773.6</b>	<b>8 925.3</b>	<b>9 087.6</b>	<b>9 203.2</b>	<b>11 118.8</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>201.1</b>	<b>251.6</b>	<b>278.9</b>	<b>331.7</b>	<b>360.2</b>	<b>333.6</b>	<b>334.6</b>	<b>341.8</b>
<b>49-53 Transportation and storage</b>	<b>75.1</b>	<b>71.3</b>	<b>79.0</b>	<b>137.7</b>	<b>156.0</b>	<b>118.2</b>	<b>123.9</b>	<b>172.8</b>
<b>55-56 Accommodation and food service activities</b>	<b>0.4</b>	<b>0.4</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>	<b>0.1</b>
<b>58-63 Information and communication</b>	<b>2 335.6</b>	<b>3 165.5</b>	<b>3 300.0</b>	<b>3 790.4</b>	<b>4 033.4</b>	<b>4 092.0</b>	<b>4 208.6</b>	<b>4 117.5</b>
58-60 Publishing, audiovisual and broadcasting activities	22.9	47.2	46.9	53.5	53.4	34.5	35.2	39.2
58 Publishing activities	..	..	..	..	..	..	..	37.1
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	..	..	..	..	2.2
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	233.4	703.2	750.0	723.8	789.0	482.7	496.7	258.6
62-63 IT and other information services	2 079.2	2 415.1	2 503.0	3 013.0	3 189.7	3 574.8	3 676.7	3 819.6
62 Computer programming, consultancy and related activities	1 996.0	2 347.0	2 436.1	2 893.6	3 065.2	3 449.0	3 548.1	3 689.6
63 Information service activities	83.3	68.1	67.0	119.4	124.5	125.8	128.6	130.1
<b>64-66 Financial and insurance activities</b>	<b>268.2</b>	<b>413.0</b>	<b>289.3</b>	<b>330.8</b>	<b>336.9</b>	<b>374.7</b>	<b>413.9</b>	<b>367.7</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>3 194.5</b>	<b>3 647.9</b>	<b>3 823.4</b>	<b>4 182.6</b>	<b>4 038.3</b>	<b>4 168.8</b>	<b>4 121.8</b>	<b>6 119.0</b>
68 Real estate activities	0.0	0.7	0.6	1.0	1.0	0.9	0.9	1.2
69-75x72 Professional, scientific and technical activities, except scientific R&D	1 142.7	1 635.3	1 702.1	1 967.2	1 837.5	1 956.5	1 811.9	3 251.3
72 Scientific research and development	1 795.6	1 970.0	2 074.8	2 168.8	2 150.7	2 174.7	2 272.4	2 805.9
77-82 Administrative and support service activities	256.2	41.8	45.9	45.6	49.0	36.7	36.6	60.6
84-99 Community, social and personal services	0.6	21.5	20.0	30.9	31.4	37.3	36.6	41.0
84-85 Public administration and defence; compulsory social security and education	..	..	..	2.8	2.8	3.5	3.3	1.8
86-88 Human health and social work activities	..	..	..	4.6	4.7	8.1	8.2	10.5
90-93 Arts, entertainment and recreation	..	..	..	1.6	1.7	4.5	4.4	2.8
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	21.9	22.2	21.2	20.7	25.9

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# GERMANY

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>58 786.2</b>	<b>56 770.6</b>	<b>58 402.0</b>	<b>62 891.1</b>	<b>65 226.8</b>	<b>63 703.3</b>	<b>66 563.3</b>	<b>69 807.9</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>126.3</b>	<b>164.5</b>	<b>177.1</b>	<b>155.3</b>	<b>167.7</b>	<b>171.0</b>	<b>159.9</b>	<b>171.5</b>
<b>05-09 MINING AND QUARRYING</b>	<b>35.9</b>	<b>16.9</b>	<b>15.3</b>	<b>12.3</b>	<b>13.0</b>	<b>18.3</b>	<b>14.5</b>	<b>24.4</b>
<b>10-33 MANUFACTURING</b>	<b>52 029.5</b>	<b>48 540.4</b>	<b>50 078.6</b>	<b>53 848.7</b>	<b>56 184.6</b>	<b>54 763.1</b>	<b>57 788.0</b>	<b>59 455.1</b>
10-12 Food products, beverages and tobacco	350.6	398.7	408.9	379.2	381.9	374.3	371.8	363.7
13-15 Textiles, wearing apparel, leather and related products	171.2	158.4	154.3	146.8	148.3	134.4	134.3	104.3
13 Textiles	121.9	88.7	84.6	76.5	78.1	66.8	64.7	..
14 Wearing apparel	42.4	62.7	62.7	63.5	63.3	60.9	62.9	..
15 Leather and related products, footwear	7.0	7.0	7.1	6.8	6.9	6.7	6.7	..
16-18 Wood and paper products and printing	231.6	220.8	258.9	225.0	208.4	270.0	261.4	246.0
16 Wood and wood products, except furniture	25.9	25.2	28.5	27.8	24.0	23.7	22.8	..
17 Paper and paper products	78.1	80.2	92.1	75.5	70.5	120.0	120.1	..
18 Printing and reproduction of recorded media	127.6	115.4	138.3	121.7	114.0	126.3	118.5	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	10 053.9	10 434.4	10 040.9	10 694.4	10 823.1	10 438.0	10 625.0	10 623.2
19 Coke and refined petroleum products	112.3	116.6	110.9	116.1	116.4	111.4	138.9	154.2
20-21 Chemicals and pharmaceutical products	8 472.5	8 895.0	8 538.1	9 070.2	9 201.1	8 826.0	8 949.6	8 867.1
20 Chemicals and chemical products	4 116.0	4 009.7	3 887.7	4 059.2	4 239.1	3 979.9	4 237.8	4 336.2
21 Pharmaceuticals, medicinal, chemical and botanical products	4 356.4	4 885.2	4 650.4	5 011.0	4 962.0	4 846.1	4 711.8	4 530.9
22 Rubber and plastic products	1 129.6	1 062.2	1 036.9	1 161.6	1 159.3	1 153.4	1 183.7	1 246.4
23 Other non-metallic mineral products	339.5	360.6	355.0	346.5	346.3	347.1	352.8	355.5
24-25 Basic metals, metal products, except machinery and equipment	1 454.4	1 512.8	1 500.2	1 529.4	1 569.9	1 514.3	1 500.2	1 551.8
24 Basic metals	508.0	620.6	613.5	635.6	656.9	630.2	624.4	607.7
25 Fabricated metal products, except machinery and equipment	946.5	892.3	886.7	893.8	913.0	884.1	875.8	944.1
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	38 607.3	34 513.0	36 416.5	39 379.2	41 653.8	40 511.7	43 298.6	44 349.6
26 Computer, electronic and optical products	8 261.3	7 292.0	7 460.4	8 081.5	8 963.4	8 731.3	8 766.7	8 637.1
27 Electrical equipment	1 908.2	1 672.0	1 673.4	1 972.2	2 100.6	2 533.2	2 536.2	2 575.9
28 Machinery and equipment n.e.c.	5 959.6	5 640.7	5 721.0	6 036.4	6 284.5	6 407.9	6 599.0	6 252.7
29 Motor vehicles, trailers and semi-trailers	19 501.2	17 329.8	18 432.8	20 085.4	21 052.0	20 439.5	22 969.0	24 584.9
30 Other transport equipment	2 977.3	2 578.5	3 128.9	3 203.7	3 253.3	2 399.8	2 415.7	2 299.2
31-33 Furniture; repair, installation of machinery and equipment	1 160.5	1 302.3	1 298.9	1 494.8	1 399.2	1 520.6	1 596.7	2 216.4
31 Furniture	124.7	64.1	65.2	51.3	48.4	44.5	45.5	39.5
32 Other manufacturing	487.8	548.3	548.6	677.2	637.0	724.2	755.1	716.8
33 Repair and installation of machinery and equipment	548.0	689.9	685.1	766.2	713.9	751.8	796.0	1 460.0
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>164.0</b>	<b>271.3</b>	<b>244.4</b>	<b>243.1</b>	<b>225.7</b>	<b>248.0</b>	<b>228.3</b>	<b>185.0</b>
35-36 Electricity, gas and water	156.3	262.1	235.8	228.7	214.1	231.8	213.1	..
37-39 Sewerage, waste management and remediation activities	7.7	9.3	8.6	14.4	11.5	16.2	15.2	..
<b>41-43 CONSTRUCTION</b>	<b>70.9</b>	<b>86.5</b>	<b>95.2</b>	<b>81.0</b>	<b>85.6</b>	<b>95.1</b>	<b>93.4</b>	<b>85.6</b>
<b>45-99 TOTAL SERVICES</b>	<b>6 359.6</b>	<b>7 690.8</b>	<b>7 791.4</b>	<b>8 550.7</b>	<b>8 550.3</b>	<b>8 407.7</b>	<b>8 279.2</b>	<b>9 886.4</b>
<b>45-82 Business sector services</b>	<b>6 359.0</b>	<b>7 669.0</b>	<b>7 771.4</b>	<b>8 520.7</b>	<b>8 520.3</b>	<b>8 373.3</b>	<b>8 246.4</b>	<b>9 850.1</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>210.5</b>	<b>255.5</b>	<b>278.9</b>	<b>322.1</b>	<b>343.9</b>	<b>307.4</b>	<b>299.8</b>	<b>302.8</b>
<b>49-53 Transportation and storage</b>	<b>78.6</b>	<b>72.5</b>	<b>79.0</b>	<b>133.7</b>	<b>148.9</b>	<b>108.9</b>	<b>111.1</b>	<b>153.1</b>
<b>55-56 Accommodation and food service activities</b>	<b>0.4</b>	<b>0.4</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>0.2</b>	<b>0.2</b>	<b>0.1</b>
<b>58-63 Information and communication</b>	<b>2 444.8</b>	<b>3 215.5</b>	<b>3 300.0</b>	<b>3 681.1</b>	<b>3 850.4</b>	<b>3 770.4</b>	<b>3 771.1</b>	<b>3 647.6</b>
58-60 Publishing, audiovisual and broadcasting activities	24.0	47.9	46.9	52.0	50.9	31.8	31.5	34.7
58 Publishing activities	..	..	..	..	..	..	..	32.9
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	..	..	..	..	1.9
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	244.3	714.3	750.0	702.9	753.2	444.8	445.1	229.1
62-63 IT and other information services	2 176.5	2 453.3	2 503.0	2 926.2	3 045.0	3 293.8	3 294.5	3 383.8
62 Computer programming, consultancy and related activities	2 089.3	2 384.1	2 436.1	2 810.2	2 926.2	3 177.9	3 179.2	3 268.6
63 Information service activities	87.1	69.2	67.0	116.0	118.8	116.0	115.3	115.2
<b>64-66 Financial and insurance activities</b>	<b>280.7</b>	<b>419.6</b>	<b>289.3</b>	<b>321.2</b>	<b>321.6</b>	<b>345.2</b>	<b>370.9</b>	<b>325.7</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>3 344.0</b>	<b>3 705.5</b>	<b>3 823.4</b>	<b>4 062.0</b>	<b>3 855.0</b>	<b>3 841.1</b>	<b>3 693.3</b>	<b>5 420.8</b>
68 Real estate activities	0.0	0.8	0.6	1.0	1.0	0.8	0.8	1.0
69-75x72 Professional, scientific and technical activities, except scientific R&D	1 196.2	1 661.2	1 702.1	1 910.5	1 754.2	1 802.8	1 623.5	2 880.3
72 Scientific research and development	1 879.6	2 001.1	2 074.8	2 106.3	2 053.1	2 003.8	2 036.1	2 485.7
77-82 Administrative and support service activities	268.2	42.5	45.9	44.3	46.8	33.8	32.8	53.7
84-99 Community, social and personal services	0.6	21.8	20.0	30.0	30.0	34.4	32.8	36.3
84-85 Public administration and defence; compulsory social security and education	..	..	..	2.7	2.7	3.2	2.9	1.6
86-88 Human health and social work activities	..	..	..	4.4	4.5	7.5	7.4	9.3
90-93 Arts, entertainment and recreation	..	..	..	1.6	1.6	4.2	4.0	2.5
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	21.3	21.2	19.5	18.6	22.9

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# HUNGARY

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>1 069.0</b>	<b>1 342.6</b>	<b>1 470.5</b>	<b>1 690.4</b>	<b>1 899.9</b>	<b>2 333.8</b>	<b>2 449.4</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>19.4</b>	<b>25.0</b>	<b>28.8</b>	<b>32.0</b>	<b>43.5</b>	<b>52.5</b>	<b>55.8</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>2.3</b>	<b>1.1</b>	<b>1.5</b>	..
<b>10-33 MANUFACTURING</b>	<b>781.6</b>	<b>913.7</b>	<b>956.0</b>	<b>1 049.8</b>	<b>1 191.6</b>	<b>1 323.8</b>	<b>1 260.9</b>	..
10-12 Food products, beverages and tobacco	12.9	23.1	29.6	36.2	36.5	42.7	25.4	..
13-15 Textiles, wearing apparel, leather and related products	0.4	0.5	0.3	0.2	0.6	7.4	4.6	..
13 Textiles	..	..	..	..	..	2.4	..	..
14 Wearing apparel	..	..	..	..	..	0.8	0.7	..
15 Leather and related products, footwear	..	..	..	..	..	4.2	..	..
16-18 Wood and paper products and printing	5.6	9.1	8.6	9.5	12.2	31.3	29.3	..
16 Wood and wood products, except furniture	0.7	1.4 e	1.0	2.0	0.5	4.6	2.0	..
17 Paper and paper products	0.5	0.6	2.7	4.6	5.5	22.1	3.5	..
18 Printing and reproduction of recorded media	4.4	7.1 e	4.9	2.9	6.1	4.7	23.8	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	440.3	490.5	497.3	498.2	561.2 e	552.0 e	566.8	..
19 Coke and refined petroleum products	24.6	26.1	12.1	13.7	14.5 e	11.2 e	10.9 e	..
20-21 Chemical and pharmaceutical products	403.4	443.0	466.9	460.3	511.6	512.9	523.7	..
20 Chemicals and chemical products	23.1	28.6	24.4	26.2	18.2	32.8	18.0	..
21 Pharmaceuticals, medicinal, chemical and botanical products	380.3	414.4	442.5	434.1	493.4	480.1	505.7	..
22 Rubber and plastic products	9.6	18.2	12.2	17.3	19.0	20.8	25.3	..
23 Other non-metallic mineral products	2.7	3.1	6.2	6.8	16.2	7.1	6.9 e	..
24-25 Basic metals, metal products, except machinery and equipment	10.9	16.8	16.1	20.3	51.0 e	47.3 e	57.3	..
24 Basic metals	5.5	7.3	8.0	4.9	6.2 e	9.2 e	14.1	..
25 Fabricated metal products, except machinery and equipment	5.3	9.6	8.1	15.4	44.8	38.2	43.2	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	293.3	345.8	367.5	445.4	478.1	569.5	515.3	..
26 Computer, electronic and optical products	78.1	123.8	116.1	149.2	129.4	129.7	51.2	..
27 Electrical equipment	42.0	46.7	41.9	48.8	45.7	66.0	65.5	..
28 Machinery and equipment n.e.c.	37.7	30.9	65.1	88.4	113.3	127.2	131.2	..
29 Motor vehicles, trailers and semi-trailers	134.1	133.7	142.5	157.2	187.6	244.6	254.9	..
30 Other transport equipment	1.4	10.7	1.9	1.7	2.1	2.0	12.6	..
31-33 Furniture; repair, installation of machinery and equipment	18.3	27.9	36.5	40.1	52.0	73.5	62.3	..
31 Furniture	0.2	0.6	1.1	3.3	3.4	13.5	5.3	..
32 Other manufacturing	10.1	11.8	18.9	24.2	28.0	28.7	40.9	..
33 Repair and installation of machinery and equipment	8.0	15.5	16.5	12.6	20.5	31.3	16.2	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>7.3</b>	<b>9.9</b>	<b>7.9</b>	<b>6.5</b>	<b>4.9</b>	<b>18.2</b>	<b>12.5</b>	..
35-36 Electricity, gas and water	1.7	2.2	3.5	2.9 e	2.7	3.8	6.2	..
37-39 Sewerage, waste management and remediation activities	5.6	7.7	4.4	3.6 e	2.2	14.4	6.3	..
<b>41-43 CONSTRUCTION</b>	<b>3.0</b>	<b>9.9</b>	<b>5.9</b>	<b>8.2</b>	<b>8.5</b>	<b>23.5</b>	<b>21.4</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>257.7</b>	<b>383.9</b>	<b>472.0</b>	<b>593.8</b>	<b>649.2</b>	<b>914.8</b>	<b>1 097.2</b>	..
<b>45-82 Business sector services</b>	<b>235.3</b>	<b>355.1</b>	<b>434.4</b>	<b>553.1</b>	<b>598.2</b>	<b>868.1</b>	<b>1 042.7</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>78.3</b>	<b>89.7</b>	<b>189.4</b>	<b>268.2</b>	<b>223.8</b>	<b>307.0</b>	<b>361.6</b>	..
<b>49-53 Transportation and storage</b>	<b>1.7</b>	<b>1.8</b>	<b>0.2</b>	<b>1.8</b>	<b>4.3</b>	<b>11.8</b>	<b>9.2</b>	..
<b>55-56 Accommodation and food service activities</b>	<b>0.3</b>	<b>0.2 e</b>	<b>0.0</b>	..	..	..	<b>2.0</b>	..
<b>58-63 Information and communication</b>	<b>76.2</b>	<b>148.8</b>	<b>109.8</b>	<b>134.6</b>	<b>255.7</b>	<b>368.4</b>	<b>501.9</b>	..
58-60 Publishing, audiovisual and broadcasting activities	3.9	8.9	11.9	13.8	20.6	30.2	30.2	..
58 Publishing activities	3.5	8.2	9.9	13.0 e	20.6	..	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	0.4	0.7	2.0	0.8 e	0.0	..	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	3.0	3.7	1.6	3.6	4.3	10.9	91.7	..
62-63 IT and other information services	69.4	136.2	96.3	117.2	230.8	327.3	380.0	..
62 Computer programming, consultancy and related activities	68.6	131.5	93.3	113.8	220.1	303.4	354.1	..
63 Information service activities	0.8	4.7	3.1	3.4	10.7	23.9	25.9	..
<b>64-66 Financial and insurance activities</b>	<b>2.4</b>	<b>0.9 e</b>	<b>2.7</b>	..	..	..	<b>2.2</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>76.5</b>	<b>113.7</b>	<b>132.3</b>	<b>143.9</b>	<b>109.5</b>	<b>178.2</b>	<b>165.8</b>	..
68 Real estate activities	3.1	6.6	2.9	5.4	3.8	10.0	15.1	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	66.7	101.1	106.4	129.4	99.1	139.8	122.6	..
72 Scientific research and development	3.7	2.0	18.3	3.1	1.7	18.7	8.1	..
77-82 Administrative and support service activities	3.0	4.0	4.6	6.1	4.9	9.7	19.9	..
84-99 Community, social and personal services	22.3	28.8	37.6	40.7	51.0	46.7	54.5	..
84-85 Public administration and defence; compulsory social security and education	0.9	1.2	1.2	0.7	7.2	4.9	7.8	..
86-88 Human health and social work activities	18.5	22.7	29.8	31.1	37.1	29.3	36.3	..
90-93 Arts, entertainment and recreation	0.8	0.6	0.6	1.2	1.6	2.2	2.4	..
94-99 Other services; household-employers; extraterritorial bodies	2.2	4.4	5.9	7.6	5.0	10.3	8.0	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# HUNGARY

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>1 180.5</b>	<b>1 388.3</b>	<b>1 470.5</b>	<b>1 628.9</b>	<b>1 789.6</b>	<b>2 124.6</b>	<b>2 223.4</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>21.4</b>	<b>25.9</b>	<b>28.8</b>	<b>30.9</b>	<b>40.9</b>	<b>47.8</b>	<b>50.7</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>2.2</b>	<b>1.0</b>	<b>1.4</b>	..
<b>10-33 MANUFACTURING</b>	<b>863.1</b>	<b>944.9</b>	<b>956.0</b>	<b>1 011.6</b>	<b>1 122.4</b>	<b>1 205.1</b>	<b>1 144.6</b>	..
10-12 Food products, beverages and tobacco	14.2	23.9	29.6	34.9	34.4	38.9	23.1	..
13-15 Textiles, wearing apparel, leather and related products	0.4	0.5	0.3	0.2	0.6	6.8	4.2	..
13 Textiles	..	..	..	..	..	2.2	..	..
14 Wearing apparel	..	..	..	..	..	0.7	0.6	..
15 Leather and related products, footwear	..	..	..	..	..	3.8	..	..
16-18 Wood and paper products and printing	6.2	9.4	8.6	9.2	11.5	28.5	26.6	..
16 Wood and wood products, except furniture	0.8	1.4 e	1.0	1.9	0.5	4.2	1.8	..
17 Paper and paper products	0.6	0.7	2.7	4.4	5.2	20.1	3.1	..
18 Printing and reproduction of recorded media	4.8	7.4 e	4.9	2.8	5.8	4.2	21.6	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	486.2	507.2	497.3	480.0	528.6 e	502.5 e	514.5	..
19 Coke and refined petroleum products	27.2	27.0	12.1	13.2	13.6 e	10.2 e	9.9 e	..
20-21 Chemical and pharmaceutical products	445.4	458.1	466.9	443.6	481.9	467.0	475.4	..
20 Chemicals and chemical products	25.5	29.6	24.4	25.3	17.1	29.9	16.3	..
21 Pharmaceuticals, medicinal, chemical and botanical products	419.9	428.6	442.5	418.3	464.8	437.1	459.1	..
22 Rubber and plastic products	10.6	18.8	12.2	16.7	17.9	18.9	22.9	..
23 Other non-metallic mineral products	3.0	3.2	6.2	6.6	15.2	6.5	6.3 e	..
24-25 Basic metals, metal products, except machinery and equipment	12.0	17.4	16.1	19.6	48.1 e	43.1 e	52.0	..
24 Basic metals	6.1	7.5	8.0	4.8	5.8 e	8.3 e	12.8	..
25 Fabricated metal products, except machinery and equipment	5.9	9.9	8.1	14.8	42.2	34.8	39.2	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	323.9	357.6	367.5	429.2	450.3	518.5	467.8	..
26 Computer, electronic and optical products	86.2	128.0	116.1	143.8	121.8	118.1	46.5	..
27 Electrical equipment	46.4	48.3	41.9	47.0	43.1	60.1	59.4	..
28 Machinery and equipment n.e.c.	41.7	32.0	65.1	85.2	106.7	115.8	119.1	..
29 Motor vehicles, trailers and semi-trailers	148.1	138.2	142.5	151.5	176.7	222.7	231.4	..
30 Other transport equipment	1.5	11.1	1.9	1.7	2.0	1.8	11.4	..
31-33 Furniture; repair, installation of machinery and equipment	20.2	28.9	36.5	38.6	49.0	66.9	56.5	..
31 Furniture	0.3	0.6	1.1	3.2	3.2	12.3	4.8	..
32 Other manufacturing	11.1	12.2	18.9	23.3	26.4	26.2	37.1	..
33 Repair and installation of machinery and equipment	8.8	16.0	16.5	12.1	19.3	28.5	14.7	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>8.0</b>	<b>10.2</b>	<b>7.9</b>	<b>6.3</b>	<b>4.6</b>	<b>16.6</b>	<b>11.3</b>	..
35-36 Electricity, gas and water	1.8	2.3	3.5	2.8 e	2.5	3.5	5.6	..
37-39 Sewerage, waste management and remediation activities	6.2	7.9	4.4	3.5 e	2.1	13.1	5.7	..
<b>41-43 CONSTRUCTION</b>	<b>3.3</b>	<b>10.2</b>	<b>5.9</b>	<b>7.9</b>	<b>8.0</b>	<b>21.4</b>	<b>19.4</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>284.5</b>	<b>397.0</b>	<b>472.0</b>	<b>572.2</b>	<b>611.5</b>	<b>832.8</b>	<b>996.0</b>	..
<b>45-82 Business sector services</b>	<b>259.9</b>	<b>367.2</b>	<b>434.4</b>	<b>533.0</b>	<b>563.5</b>	<b>790.3</b>	<b>946.5</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>86.5</b>	<b>92.8</b>	<b>189.4</b>	<b>258.5</b>	<b>210.8</b>	<b>279.5</b>	<b>328.2</b>	..
<b>49-53 Transportation and storage</b>	<b>1.8</b>	<b>1.9</b>	<b>0.2</b>	<b>1.7</b>	<b>4.0</b>	<b>10.8</b>	<b>8.3</b>	..
<b>55-56 Accommodation and food service activities</b>	<b>0.3</b>	<b>0.2 e</b>	<b>0.0</b>	..	..	..	<b>1.8</b>	..
<b>58-63 Information and communication</b>	<b>84.2</b>	<b>153.9</b>	<b>109.8</b>	<b>129.7</b>	<b>240.9</b>	<b>335.3</b>	<b>455.6</b>	..
58-60 Publishing, audiovisual and broadcasting activities	4.3	9.2	11.9	13.3	19.4	27.5	27.4	..
58 Publishing activities	3.8	8.5	9.9	12.5 e	19.4	..	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	0.5	0.7	2.0	0.8 e	0.0	..	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	3.3	3.8	1.6	3.5	4.1	10.0	83.2	..
62-63 IT and other information services	76.6	140.9	96.3	113.0	217.4	297.9	345.0	..
62 Computer programming, consultancy and related activities	75.8	136.0	93.3	109.7	207.4	276.2	321.5	..
63 Information service activities	0.9	4.9	3.1	3.3	10.1	21.7	23.5	..
<b>64-66 Financial and insurance activities</b>	<b>2.6</b>	<b>0.9 e</b>	<b>2.7</b>	..	..	..	<b>2.0</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>84.5</b>	<b>117.6</b>	<b>132.3</b>	<b>138.7</b>	<b>103.1</b>	<b>162.2</b>	<b>150.5</b>	..
68 Real estate activities	3.4	6.8	2.9	5.2	3.5	9.1	13.7	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	73.7	104.5	106.4	124.6	93.3	127.2	111.3	..
72 Scientific research and development	4.0	2.0	18.3	3.0	1.6	17.0	7.4	..
77-82 Administrative and support service activities	3.3	4.2	4.6	5.9	4.7	8.8	18.1	..
84-99 Community, social and personal services	24.6	29.8	37.6	39.2	48.0	42.5	49.5	..
84-85 Public administration and defence; compulsory social security and education	0.9	1.2	1.2	0.7	6.8	4.5	7.1	..
86-88 Human health and social work activities	20.4	23.4	29.8	30.0	34.9	26.6	33.0	..
90-93 Arts, entertainment and recreation	0.9	0.6	0.6	1.1	1.5	2.0	2.2	..
94-99 Other services; household-employers; extraterritorial bodies	2.4	4.5	5.9	7.4	4.7	9.4	7.3	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

Disclaimer: <http://oe.cd/disclaimer>

## ISRAEL

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>7 109.3</b>	<b>6 910.2</b>	<b>7 194.0</b>	<b>7 979.6</b>	<b>8 788.5</b>	<b>9 634.3</b>	<b>10 386.9</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	..	..	..	..	..	..	..	..
<b>05-09 MINING AND QUARRYING</b>	..	..	3.5	3.3	5.8	6.5	6.6	..
<b>10-33 MANUFACTURING</b>	<b>2 201.1 e</b>	<b>1 989.5 e</b>	<b>2 171.1</b>	<b>2 396.1</b>	<b>2 372.1</b>	<b>2 579.2</b>	<b>2 510.0</b>	..
10-12 Food products, beverages and tobacco	19.8 e	11.2 e	15.1	20.0	24.1	18.4	16.9	..
13-15 Textiles, wearing apparel, leather and related products	..	..	17.1 e	22.0 e	22.8 e	20.5	21.2	..
13 Textiles	..	..	..	..	..	..	..	..
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	..	..	5.0 e	3.4 e	3.5 e	3.2	1.3	..
16 Wood and wood products, except furniture	..	..	..	..	..	..	..	..
17 Paper and paper products	..	..	..	..	..	..	..	..
18 Printing and reproduction of recorded media	..	..	..	..	..	..	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	382.4 e	422.9 e	416.3	375.6	401.0	494.7	409.7	..
19 Coke and refined petroleum products	..	..	64.2	45.9	66.0	64.8	77.1	..
20-21 Chemical and pharmaceutical products	..	..	..	..	..	..	..	..
20 Chemicals and chemical products	..	..	..	..	..	..	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	..	..	313.9	283.2	286.2	382.0	285.5	..
22 Rubber and plastic products	..	..	..	..	..	..	..	..
23 Other non-metallic mineral products	..	..	..	..	..	..	..	..
24-25 Basic metals, metal products, except machinery and equipment	51.2 e	62.4 e	42.7	89.5	53.9	53.8	52.6	..
24 Basic metals	..	..	..	..	..	..	..	..
25 Fabricated metal products, except machinery and equipment	..	..	..	..	..	..	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	1 722.9 e	1 467.0 e	1 654.9 e	1 861.1 e	1 839.0 e	1 959.0	1 982.1	..
26 Computer, electronic and optical products	1 404.0 e	1 239.3 e	1 408.4	1 559.4	1 497.9	1 594.5	1 626.9	..
27 Electrical equipment	..	..	..	..	..	206.5 e	204.7	..
28 Machinery and equipment n.e.c.	..	..	..	..	..	0.6 e	0.6	..
29 Motor vehicles, trailers and semi-trailers	..	..	..	..	..	..	..	..
30 Other transport equipment	..	..	..	..	..	..	..	..
31-33 Furniture; repair, installation of machinery and equipment	..	..	..	..	..	..	..	..
31 Furniture	..	..	..	..	..	..	..	..
32 Other manufacturing	..	..	20.0 e	24.5 e	27.7 e	29.6	26.2	..
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	..	..	..	..	..	1.1	0.8	..
35-36 Electricity, gas and water	..	..	..	..	..	0.7	0.5	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	0.5	0.3	..
<b>41-43 CONSTRUCTION</b>	..	..	..	..	..	4.1	2.5	..
<b>45-99 TOTAL SERVICES</b>	<b>4 791.6 e</b>	<b>4 853.5 e</b>	<b>4 985.1</b>	<b>5 506.0</b>	<b>6 340.3</b>	<b>7 043.4</b>	<b>7 867.1</b>	..
<b>45-82 Business sector services</b>	..	..	4 823.8	5 331.7	6 151.5	6 837.4	7 651.3	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	..	..	..	..	..	5.7	3.4	..
<b>49-53 Transportation and storage</b>	..	..	0.0	0.0	0.0	0.0	0.0	..
<b>55-56 Accommodation and food service activities</b>	..	..	0.0	0.0	0.0	0.0	0.0	..
<b>58-63 Information and communication</b>	<b>2 073.3 e</b>	<b>2 203.9 e</b>	<b>2 051.9</b>	<b>2 415.9</b>	<b>2 983.6</b>	<b>3 442.3</b>	<b>3 898.1</b>	..
58-60 Publishing, audiovisual and broadcasting activities	..	..	21.3 e	25.1 e	31.0 e	35.8	44.8	..
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	..	..	..	..	..	..	..	..
62-63 IT and other information services	..	..	..	..	..	..	..	..
62 Computer programming, consultancy and related activities	..	..	..	..	..	..	..	..
63 Information service activities	..	..	6.8 e	8.1 e	10.0 e	11.5	12.3	..
<b>64-66 Financial and insurance activities</b>	..	..	3.0	6.4	5.1	23.5	17.7	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	..	2 768.9	2 909.4	3 162.7	3 366.0	3 732.1	..
68 Real estate activities	..	..	0.0	0.0	0.0	0.0	0.0	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	..	..	..	..	..	..
72 Scientific research and development	2 701.2 e	2 643.9 e	2 768.9	2 909.4	3 162.7	3 356.7	3 721.5	..
77-82 Administrative and support service activities	..	..	..	..	..	..	..	..
84-99 Community, social and personal services	..	..	161.3	174.3	188.9	206.0	215.8	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.Information on data for Israel: <http://oe.cd/israel-disclaimer>.Disclaimer: <http://oe.cd/disclaimer>

## ISRAEL

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>7 287.2</b>	<b>6 994.6</b>	<b>7 194.0</b>	<b>7 779.1</b>	<b>8 279.9</b>	<b>8 626.5</b>	<b>9 222.4</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	..	..	..	..	..	..	..	..
<b>05-09 MINING AND QUARRYING</b>	..	..	3.5	3.2	5.5	5.8	5.8	..
<b>10-33 MANUFACTURING</b>	<b>2 256.2 e</b>	<b>2 013.8 e</b>	<b>2 171.1</b>	<b>2 335.9</b>	<b>2 234.8</b>	<b>2 309.4</b>	<b>2 228.6</b>	..
10-12 Food products, beverages and tobacco	20.3 e	11.3 e	15.1	19.5	22.7	16.5	15.0	..
13-15 Textiles, wearing apparel, leather and related products	..	..	17.1 e	21.4 e	21.5 e	18.3	18.9	..
13 Textiles	..	..	..	..	..	..	..	..
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	..	..	5.0 e	3.3 e	3.3 e	2.8	1.1	..
16 Wood and wood products, except furniture	..	..	..	..	..	..	..	..
17 Paper and paper products	..	..	..	..	..	..	..	..
18 Printing and reproduction of recorded media	..	..	..	..	..	..	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	391.9 e	428.0 e	416.3	366.2	377.8	442.9	363.7	..
19 Coke and refined petroleum products	..	..	64.2	44.7	62.1	58.0	68.5	..
20-21 Chemical and pharmaceutical products	..	..	..	..	..	..	..	..
20 Chemicals and chemical products	..	..	..	..	..	..	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	..	..	313.9	276.1	269.7	342.1	253.5	..
22 Rubber and plastic products	..	..	..	..	..	..	..	..
23 Other non-metallic mineral products	..	..	..	..	..	..	..	..
24-25 Basic metals, metal products, except machinery and equipment	52.4 e	63.2 e	42.7	87.2	50.8	48.2	46.7	..
24 Basic metals	..	..	..	..	..	..	..	..
25 Fabricated metal products, except machinery and equipment	..	..	..	..	..	..	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	1 766.0 e	1 484.9 e	1 654.9 e	1 814.3 e	1 732.6 e	1 754.1	1 759.9	..
26 Computer, electronic and optical products	1 439.2 e	1 254.5 e	1 408.4	1 520.2	1 411.2	1 427.7	1 444.5	..
27 Electrical equipment	..	..	..	..	..	184.9 e	181.7	..
28 Machinery and equipment n.e.c.	..	..	..	..	..	0.6 e	0.6	..
29 Motor vehicles, trailers and semi-trailers	..	..	..	..	..	..	..	..
30 Other transport equipment	..	..	..	..	..	..	..	..
31-33 Furniture; repair, installation of machinery and equipment	..	..	..	..	..	..	..	..
31 Furniture	..	..	..	..	..	..	..	..
32 Other manufacturing	..	..	20.0 e	23.9 e	26.1 e	26.5	23.3	..
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	..	..	..	..	..	1.0	0.7	..
35-36 Electricity, gas and water	..	..	..	..	..	0.6	0.5	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	0.4	0.2	..
<b>41-43 CONSTRUCTION</b>	..	..	..	..	..	3.7	2.2	..
<b>45-99 TOTAL SERVICES</b>	<b>4 911.5 e</b>	<b>4 912.7 e</b>	<b>4 985.1</b>	<b>5 367.7</b>	<b>5 973.4</b>	<b>6 306.6</b>	<b>6 985.1</b>	..
<b>45-82 Business sector services</b>	..	..	4 823.8	5 197.8	5 795.5	6 122.2	6 793.5	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	..	..	..	..	..	5.1	3.0	..
<b>49-53 Transportation and storage</b>	..	..	0.0	0.0	0.0	0.0	0.0	..
<b>55-56 Accommodation and food service activities</b>	..	..	0.0	0.0	0.0	0.0	0.0	..
<b>58-63 Information and communication</b>	<b>2 125.2 e</b>	<b>2 230.8 e</b>	<b>2 051.9</b>	<b>2 355.2</b>	<b>2 811.0</b>	<b>3 082.2</b>	<b>3 461.1</b>	..
58-60 Publishing, audiovisual and broadcasting activities	..	..	21.3 e	24.5 e	29.2 e	32.0	39.8	..
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	..	..	..	..	..	..	..	..
62-63 IT and other information services	..	..	..	..	..	..	..	..
62 Computer programming, consultancy and related activities	..	..	..	..	..	..	..	..
63 Information service activities	..	..	6.8 e	7.9 e	9.4 e	10.3	10.9	..
<b>64-66 Financial and insurance activities</b>	..	..	3.0	6.3	4.8	21.0	15.7	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	..	2 768.9	2 836.3	2 979.7	3 013.9	3 313.7	..
68 Real estate activities	..	..	0.0	0.0	0.0	0.0	0.0	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	..	..	..	..	..	..
72 Scientific research and development	2 768.8 e	2 676.2 e	2 768.9	2 836.3	2 979.7	3 005.6	3 304.3	..
77-82 Administrative and support service activities	..	..	..	..	..	..	..	..
84-99 Community, social and personal services	..	..	161.3	169.9	178.0	184.5	191.6	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.Information on data for Israel: <http://oe.cd/israel-disclaimer>.Disclaimer: <http://oe.cd/disclaimer>

# ITALY

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>12 981.2</b>	<b>13 289.7</b>	<b>13 709.0</b>	<b>14 268.5</b>	<b>14 854.5</b>	<b>15 570.9</b>	<b>16 792.1</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>2.2</b>	<b>2.3</b>	<b>4.5</b>	<b>4.3</b>	<b>4.5</b>	<b>6.0</b>	<b>9.5</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>224.2</b>	<b>214.2</b>	<b>97.1</b>	<b>82.6</b>	<b>83.3</b>	<b>79.9</b>	<b>72.4</b>	..
<b>10-33 MANUFACTURING</b>	<b>9 236.1</b>	<b>9 256.8</b>	<b>9 820.0</b>	<b>10 501.7</b>	<b>11 035.4</b>	<b>11 229.0</b>	<b>11 884.0</b>	..
10-12 Food products, beverages and tobacco	200.5	202.8	212.8	198.1	229.5	255.4	271.8	..
13-15 Textiles, wearing apparel, leather and related products	428.0	474.4	549.3	572.6	611.2	651.8	697.0	..
13 Textiles	95.2	117.6	149.7	131.9	137.3	150.1	172.3	..
14 Wearing apparel	243.0	252.5	269.5	281.5	301.4	304.5	308.1	..
15 Leather and related products, footwear	89.8	104.4	130.1	159.1	172.4	197.2	216.7	..
16-18 Wood and paper products and printing	82.3	96.2	89.9	95.3	87.1	101.6	106.7	..
16 Wood and wood products, except furniture	18.1	21.2	18.1	17.9	18.3	18.4	18.4	..
17 Paper and paper products	48.0	57.8	57.5	63.7	56.7	69.4	70.1	..
18 Printing and reproduction of recorded media	16.2	17.3	14.3	13.7	12.0	13.7	18.1	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	1 510.5	1 531.8	1 635.2	1 640.7	1 765.1	1 751.9	1 838.5	..
19 Coke and refined petroleum products	16.3	6.9	11.9	16.6	16.4	18.3	23.6	..
20-21 Chemical and pharmaceutical products	1 066.6	1 131.3	1 192.8	1 208.9	1 244.3	1 232.5	1 220.6	..
20 Chemicals and chemical products	454.0	438.7	470.8	446.6	472.8	494.2	524.6	..
21 Pharmaceuticals, medicinal, chemical and botanical products	612.6	692.5	722.0	762.4	771.5	738.2	696.0	..
22 Rubber and plastic products	300.1	271.4	307.9	309.6	375.5	370.1	446.5	..
23 Other non-metallic mineral products	127.5	122.3	122.6	105.6	128.8	131.0	147.9	..
24-25 Basic metals, metal products, except machinery and equipment	523.5	453.5	471.6	494.1	507.3	568.0	538.2	..
24 Basic metals	139.2	124.2	124.9	138.9	134.4	125.6	110.2	..
25 Fabricated metal products, except machinery and equipment	384.3	329.3	346.6	355.2	372.9	442.4	428.0	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	6 241.7	6 233.3	6 592.0	7 244.2	7 533.5	7 601.7	8 099.4	..
26 Computer, electronic and optical products	1 528.5	1 651.5	1 787.0	1 902.8	1 828.9	1 757.4	1 782.2	..
27 Electrical equipment	484.1	494.6	562.8	607.1	631.0	655.1	635.3	..
28 Machinery and equipment n.e.c.	1 355.6	1 402.6	1 377.9	1 539.2	1 731.5	1 860.4	1 988.6	..
29 Motor vehicles, trailers and semi-trailers	1 478.8	1 289.2	1 393.7	1 710.5	1 844.0	1 971.2	2 376.5	..
30 Other transport equipment	1 394.7	1 395.4	1 470.7	1 484.8	1 498.0	1 357.8	1 316.7	..
31-33 Furniture; repair, installation of machinery and equipment	249.6	264.7	269.3	256.6	301.8	298.1	332.3	..
31 Furniture	75.4	73.9	65.3	69.2	75.4	77.0	91.2	..
32 Other manufacturing	95.6	98.9	116.8	118.9	146.3	129.1	147.6	..
33 Repair and installation of machinery and equipment	78.6	91.9	87.2	68.5	80.1	92.0	93.5	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>103.5</b>	<b>25.7</b>	<b>22.7</b>	<b>28.1</b>	<b>37.2</b>	<b>43.8</b>	<b>213.5</b>	..
35-36 Electricity, gas and water	96.0	15.4	15.2	20.6	28.0	36.3	195.5	..
37-39 Sewerage, waste management and remediation activities	7.5	10.3	7.5	7.5	9.2	7.5	18.0	..
<b>41-43 CONSTRUCTION</b>	<b>53.6</b>	<b>61.9</b>	<b>54.2</b>	<b>42.0</b>	<b>48.7</b>	<b>57.1</b>	<b>51.2</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>3 361.6</b>	<b>3 728.8</b>	<b>3 710.5</b>	<b>3 609.7</b>	<b>3 645.4</b>	<b>4 155.2</b>	<b>4 561.4</b>	..
<b>45-82 Business sector services</b>	<b>3 293.8</b>	<b>3 635.8</b>	<b>3 620.5</b>	<b>3 500.0</b>	<b>3 477.1</b>	<b>3 913.6</b>	<b>4 302.7</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>361.1</b>	<b>372.8</b>	<b>395.1</b>	<b>336.9</b>	<b>365.2</b>	<b>434.4</b>	<b>483.8</b>	..
<b>49-53 Transportation and storage</b>	<b>72.5</b>	<b>42.1</b>	<b>41.1</b>	<b>36.6</b>	<b>23.9</b>	<b>55.1</b>	<b>51.5</b>	..
<b>55-56 Accommodation and food service activities</b>	<b>2.2</b>	<b>2.9</b>	<b>4.4</b>	<b>3.8</b>	<b>3.2</b>	<b>2.4</b>	<b>3.0</b>	..
<b>58-63 Information and communication</b>	<b>1 408.5</b>	<b>1 673.1</b>	<b>1 612.0</b>	<b>1 489.9</b>	<b>1 515.3</b>	<b>1 764.7</b>	<b>1 674.5</b>	..
58-60 Publishing, audiovisual and broadcasting activities	17.4	18.2	17.0	16.3	23.7	21.3	26.6	..
58 Publishing activities	4.3	5.2	6.0	5.9	15.1	12.2	17.7	..
59-60 Motion picture, video and TV programme production; broadcasting activities	13.0	13.0	11.0	10.4	8.6	9.0	8.9	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	1 107.3	1 295.0	1 238.3	1 090.8	1 088.2	577.9	424.4	..
62-63 IT and other information services	283.8	360.0	356.7	382.8	403.4	1 165.3	1 223.5	..
62 Computer programming, consultancy and related activities	268.1	332.0	328.8	346.8	362.2	661.9	1 169.8	..
63 Information service activities	15.7	27.9	28.0	36.0	41.2	503.5	53.7	..
<b>64-66 Financial and insurance activities</b>	<b>204.0</b>	<b>240.3</b>	<b>253.1</b>	<b>188.4</b>	<b>229.4</b>	<b>253.2</b>	<b>305.4</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>1 245.5</b>	<b>1 304.7</b>	<b>1 314.8</b>	<b>1 444.3</b>	<b>1 340.1</b>	<b>1 403.8</b>	<b>1 784.4</b>	..
68 Real estate activities	3.7	30.2	13.3	7.0	10.3	3.0	4.0	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	257.1	402.5	423.2	495.2	431.8	460.6	490.7	..
72 Scientific research and development	965.7	858.4	866.1	930.2	879.3	929.3	1 250.0	..
77-82 Administrative and support service activities	19.0	13.5	12.1	12.0	18.6	10.9	39.7	..
84-99 Community, social and personal services	67.9	93.1	90.1	109.7	168.4	241.6	258.7	..
84-85 Public administration and defence; compulsory social security and education	1.9	1.8	3.1	2.9	1.9	2.3	2.2	..
86-88 Human health and social work activities	61.8	82.0	76.3	94.4	155.1	216.7	225.1	..
90-93 Arts, entertainment and recreation	1.0	1.2	2.2	2.0	1.3	10.4	19.6	..
94-99 Other services; household-employers; extraterritorial bodies	3.2	8.0	8.4	10.4	10.0	12.1	11.8	..

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# ITALY

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>13 484.0</b>	<b>13 309.4</b>	<b>13 709.0</b>	<b>13 824.9</b>	<b>13 991.8</b>	<b>14 288.7</b>	<b>15 217.4</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>2.3</b>	<b>2.3</b>	<b>4.5</b>	<b>4.2</b>	<b>4.3</b>	<b>5.5</b>	<b>8.6</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>232.9</b>	<b>214.5</b>	<b>97.1</b>	<b>80.1</b>	<b>78.5</b>	<b>73.3</b>	<b>65.6</b>	..
<b>10-33 MANUFACTURING</b>	<b>9 593.9</b>	<b>9 270.4</b>	<b>9 820.0</b>	<b>10 175.2</b>	<b>10 394.5</b>	<b>10 304.3</b>	<b>10 769.6</b>	..
10-12 Food products, beverages and tobacco	208.2	203.1	212.8	191.9	216.2	234.4	246.3	..
13-15 Textiles, wearing apparel, leather and related products	444.6	475.1	549.3	554.8	575.7	598.2	631.6	..
13 Textiles	98.9	117.8	149.7	127.8	129.4	137.8	156.1	..
14 Wearing apparel	252.4	252.8	269.5	272.8	283.9	279.4	279.2	..
15 Leather and related products, footwear	93.3	104.5	130.1	154.1	162.4	181.0	196.4	..
16-18 Wood and paper products and printing	85.5	96.3	89.9	92.3	82.0	93.2	96.7	..
16 Wood and wood products, except furniture	18.8	21.2	18.1	17.4	17.3	16.9	16.7	..
17 Paper and paper products	49.8	57.8	57.5	61.7	53.4	63.7	63.5	..
18 Printing and reproduction of recorded media	16.8	17.3	14.3	13.3	11.3	12.6	16.4	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	1 569.0	1 534.1	1 635.2	1 589.7	1 662.6	1 607.7	1 666.1	..
19 Coke and refined petroleum products	17.0	6.9	11.9	16.1	15.5	16.8	21.4	..
20-21 Chemical and pharmaceutical products	1 107.9	1 132.9	1 192.8	1 171.3	1 172.0	1 131.0	1 106.1	..
20 Chemicals and chemical products	471.6	439.4	470.8	432.7	445.3	453.5	475.4	..
21 Pharmaceuticals, medicinal, chemical and botanical products	636.3	693.5	722.0	738.7	726.7	677.4	630.7	..
22 Rubber and plastic products	311.7	271.8	307.9	300.0	353.7	339.7	404.6	..
23 Other non-metallic mineral products	132.4	122.5	122.6	102.3	121.3	120.2	134.0	..
24-25 Basic metals, metal products, except machinery and equipment	543.8	454.2	471.6	478.8	477.8	521.2	487.8	..
24 Basic metals	144.6	124.4	124.9	134.6	126.6	115.3	99.9	..
25 Fabricated metal products, except machinery and equipment	399.2	329.8	346.6	344.2	351.2	406.0	387.9	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	6 483.5	6 242.5	6 592.0	7 019.0	7 095.9	6 975.7	7 339.9	..
26 Computer, electronic and optical products	1 587.7	1 654.0	1 787.0	1 843.6	1 722.6	1 612.7	1 615.0	..
27 Electrical equipment	502.9	495.3	562.8	588.2	594.3	601.2	575.8	..
28 Machinery and equipment n.e.c.	1 408.1	1 404.6	1 377.9	1 491.4	1 630.9	1 707.2	1 802.2	..
29 Motor vehicles, trailers and semi-trailers	1 536.0	1 291.1	1 393.7	1 657.3	1 736.9	1 808.9	2 153.7	..
30 Other transport equipment	1 448.7	1 397.5	1 470.7	1 438.6	1 411.0	1 246.0	1 193.2	..
31-33 Furniture; repair, installation of machinery and equipment	259.3	265.1	269.3	248.6	284.3	273.6	301.2	..
31 Furniture	78.3	74.0	65.3	67.0	71.0	70.7	82.6	..
32 Other manufacturing	99.3	99.1	116.8	115.2	137.8	118.5	133.8	..
33 Repair and installation of machinery and equipment	81.6	92.0	87.2	66.4	75.5	84.4	84.8	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>107.5</b>	<b>25.7</b>	<b>22.7</b>	<b>27.2</b>	<b>35.0</b>	<b>40.2</b>	<b>193.5</b>	..
35-36 Electricity, gas and water	99.7	15.5	15.2	19.9	26.3	33.4	177.2	..
37-39 Sewerage, waste management and remediation activities	7.8	10.3	7.5	7.3	8.7	6.8	16.3	..
<b>41-43 CONSTRUCTION</b>	<b>55.7</b>	<b>62.0</b>	<b>54.2</b>	<b>40.7</b>	<b>45.9</b>	<b>52.4</b>	<b>46.4</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>3 491.9</b>	<b>3 734.3</b>	<b>3 710.5</b>	<b>3 497.4</b>	<b>3 433.7</b>	<b>3 813.0</b>	<b>4 133.7</b>	..
<b>45-82 Business sector services</b>	<b>3 421.3</b>	<b>3 641.1</b>	<b>3 620.5</b>	<b>3 391.2</b>	<b>3 275.1</b>	<b>3 591.4</b>	<b>3 899.2</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>375.1</b>	<b>373.4</b>	<b>395.1</b>	<b>326.4</b>	<b>344.0</b>	<b>398.7</b>	<b>438.4</b>	..
<b>49-53 Transportation and storage</b>	<b>75.3</b>	<b>42.1</b>	<b>41.1</b>	<b>35.5</b>	<b>22.5</b>	<b>50.5</b>	<b>46.7</b>	..
<b>55-56 Accommodation and food service activities</b>	<b>2.3</b>	<b>2.9</b>	<b>4.4</b>	<b>3.7</b>	<b>3.0</b>	<b>2.2</b>	<b>2.8</b>	..
<b>58-63 Information and communication</b>	<b>1 463.0</b>	<b>1 675.5</b>	<b>1 612.0</b>	<b>1 443.6</b>	<b>1 427.2</b>	<b>1 619.4</b>	<b>1 517.5</b>	..
58-60 Publishing, audiovisual and broadcasting activities	18.0	18.2	17.0	15.8	22.3	19.5	24.1	..
58 Publishing activities	4.5	5.2	6.0	5.7	14.2	11.2	16.0	..
59-60 Motion picture, video and TV programme production; broadcasting activities	13.5	13.0	11.0	10.1	8.1	8.2	8.1	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	1 150.2	1 296.9	1 238.3	1 056.9	1 025.0	530.3	384.6	..
62-63 IT and other information services	294.8	360.5	356.7	370.9	379.9	1 069.4	1 108.8	..
62 Computer programming, consultancy and related activities	278.5	332.5	328.8	336.0	341.1	607.4	1 060.1	..
63 Information service activities	16.3	27.9	28.0	34.9	38.8	462.0	48.7	..
<b>64-66 Financial and insurance activities</b>	<b>211.9</b>	<b>240.6</b>	<b>253.1</b>	<b>182.5</b>	<b>216.0</b>	<b>232.4</b>	<b>276.7</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>1 293.8</b>	<b>1 306.6</b>	<b>1 314.8</b>	<b>1 399.4</b>	<b>1 262.2</b>	<b>1 288.2</b>	<b>1 617.1</b>	..
68 Real estate activities	3.8	30.3	13.3	6.8	9.7	2.7	3.6	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	267.1	403.1	423.2	479.8	406.8	422.7	444.7	..
72 Scientific research and development	1 003.1	859.7	866.1	901.2	828.3	852.8	1 132.8	..
77-82 Administrative and support service activities	19.7	13.5	12.1	11.6	17.5	10.0	36.0	..
84-99 Community, social and personal services	70.5	93.2	90.1	106.3	158.6	221.7	234.5	..
84-85 Public administration and defence; compulsory social security and education	2.0	1.8	3.1	2.8	1.8	2.1	2.0	..
86-88 Human health and social work activities	64.2	82.2	76.3	91.4	146.1	198.9	204.0	..
90-93 Arts, entertainment and recreation	1.1	1.2	2.2	1.9	1.3	9.6	17.8	..
94-99 Other services; household-employers; extraterritorial bodies	3.3	8.1	8.4	10.1	9.4	11.1	10.7	..

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# ITALY

## R&D expenditure in industry by industry orientation, current prices

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>12 981.2</b>	<b>13 289.7</b>	<b>13 709.0</b>	<b>14 268.5</b>	<b>14 854.5</b>	<b>15 570.9</b>	<b>16 792.1</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>151.7</b>	<b>106.6</b>	<b>86.6</b>	<b>119.3</b>	<b>130.4</b>	<b>130.7</b>	<b>156.7</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>262.3</b>	<b>228.6</b>	<b>54.6</b>	<b>47.3</b>	<b>50.2</b>	<b>82.6</b>	<b>53.3</b>	..
<b>10-33 MANUFACTURING</b>	<b>10 285.5</b>	<b>10 188.4</b>	<b>10 907.0</b>	<b>11 511.1</b>	<b>11 772.1</b>	<b>12 181.1</b>	<b>12 677.6</b>	..
10-12 Food products, beverages and tobacco	462.2	295.8	328.1	278.6	324.6	385.5	407.9	..
13-15 Textiles, wearing apparel, leather and related products	585.0	591.5	701.6	736.0	785.0	939.1	1 406.3	..
13 Textiles	210.9	232.7	283.9	269.5	296.1	353.7	689.7	..
14 Wearing apparel	285.2	251.6	275.4	295.4	310.7	328.2	457.0	..
15 Leather and related products, footwear	88.9	107.2	142.3	171.1	178.3	257.2	259.6	..
16-18 Wood and paper products and printing	184.1	173.9	164.8	171.3	171.2	209.5	316.5	..
16 Wood and wood products, except furniture	67.5	59.8	47.6	46.0	53.6	64.6	75.5	..
17 Paper and paper products	84.6	87.2	89.0	95.8	94.3	99.0	194.9	..
18 Printing and reproduction of recorded media	32.0	26.9	28.2	29.5	23.3	46.0	46.1	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	1 926.4	2 049.3	2 235.5	2 291.9	2 281.3	2 227.7	2 335.1	..
19 Coke and refined petroleum products	19.8	94.1	126.1	130.2	115.5	128.4	56.8	..
20-21 Chemical and pharmaceutical products	1 385.6	1 492.3	1 601.0	1 609.5	1 551.2	1 504.1	1 516.3	..
20 Chemicals and chemical products	396.8	455.8	492.8	439.0	455.2	534.0	544.6	..
21 Pharmaceuticals, medicinal, chemical and botanical products	988.8	1 036.5	1 108.2	1 170.4	1 096.0	970.2	971.8	..
22 Rubber and plastic products	360.5	321.4	362.3	419.8	455.0	429.3	596.2	..
23 Other non-metallic mineral products	160.5	141.5	146.0	132.3	159.5	165.9	165.8	..
24-25 Basic metals, metal products, except machinery and equipment	720.2	697.7	602.8	622.0	682.1	821.0	715.1	..
24 Basic metals	247.7	251.2	265.6	280.5	321.9	424.4	323.5	..
25 Fabricated metal products, except machinery and equipment	472.5	446.5	337.2	341.5	360.2	396.6	391.6	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	6 237.0	6 236.7	6 723.0	7 262.2	7 371.9	7 432.5	7 292.5	..
26 Computer, electronic and optical products	1 797.5	1 870.8	1 969.4	2 031.3	1 983.3	1 964.5	1 999.5	..
27 Electrical equipment	289.4	352.3	415.8	486.8	504.7	535.2	424.1	..
28 Machinery and equipment n.e.c.	904.9	1 005.6	952.4	1 069.6	1 172.6	1 224.6	1 348.8	..
29 Motor vehicles, trailers and semi-trailers	1 699.1	1 674.1	1 929.4	2 140.7	2 246.7	2 233.4	2 563.9	..
30 Other transport equipment	1 546.0	1 333.9	1 455.9	1 534.0	1 464.3	1 474.8	956.1	..
31-33 Furniture; repair, installation of machinery and equipment	170.6	143.4	151.2	149.1	156.1	165.7	204.3	..
31 Furniture	45.7	40.6	43.5	46.8	43.7	45.6	55.1	..
32 Other manufacturing	74.8	82.2	88.8	91.1	93.5	93.9	121.3	..
33 Repair and installation of machinery and equipment	50.1	20.6	18.9	11.2	18.9	26.3	27.9	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>233.9</b>	<b>329.1</b>	<b>319.2</b>	<b>328.6</b>	<b>303.1</b>	<b>305.4</b>	<b>432.5</b>	..
35-36 Electricity, gas and water	196.1	289.9	268.1	277.7	258.6	264.6	382.4	..
37-39 Sewerage, waste management and remediation activities	37.8	39.2	51.1	50.9	44.4	40.8	50.1	..
<b>41-43 CONSTRUCTION</b>	<b>50.7</b>	<b>128.2</b>	<b>69.8</b>	<b>64.6</b>	<b>145.2</b>	<b>70.5</b>	<b>78.3</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>1 997.1</b>	<b>2 308.9</b>	<b>2 271.9</b>	<b>2 197.6</b>	<b>2 453.6</b>	<b>2 800.5</b>	<b>3 393.7</b>	..
<b>45-82 Business sector services</b>	<b>1 244.0</b>	<b>1 427.6</b>	<b>1 479.1</b>	<b>2 021.4</b>	<b>2 209.9</b>	<b>2 522.0</b>	<b>3 142.5</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>80.6</b>	<b>71.8</b>	<b>47.8</b>	<b>42.6</b>	<b>72.2</b>	<b>169.5</b>	<b>392.9</b>	..
<b>49-53 Transportation and storage</b>	<b>101.3</b>	<b>92.9</b>	<b>68.8</b>	<b>66.4</b>	<b>75.2</b>	<b>70.5</b>	<b>78.3</b>	..
<b>55-56 Accommodation and food service activities</b>	<b>6.1</b>	<b>9.2</b>	<b>10.9</b>	<b>10.4</b>	<b>16.7</b>	<b>8.3</b>	<b>15.3</b>	..
<b>58-63 Information and communication</b>	<b>711.1</b>	<b>835.8</b>	<b>931.6</b>	<b>1 494.0</b>	<b>1 539.6</b>	<b>1 624.7</b>	<b>1 845.8</b>	..
58-60 Publishing, audiovisual and broadcasting activities	15.4	13.6	9.2	12.0	14.0	17.1	24.0	..
58 Publishing activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	..
59-60 Motion picture, video and TV programme production; broadcasting activities	15.4	13.6	9.2	12.0	14.0	17.1	24.0	..
59 Motion picture, video and TV programme production; sound and music	15.4	13.6	9.2	12.0	14.0	17.1	24.0	..
60 Programming and broadcasting activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	..
61 Telecommunications	297.7	416.7	523.7	1 050.9	1 084.5	1 009.8	1 134.0	..
62-63 IT and other information services	398.0	405.5	398.7	431.0	441.1	597.9	687.8	..
62 Computer programming, consultancy and related activities	372.7	382.2	372.6	406.9	414.9	553.5	615.9	..
63 Information service activities	25.3	23.4	26.2	24.1	26.2	44.4	71.9	..
<b>64-66 Financial and insurance activities</b>	<b>213.5</b>	<b>253.8</b>	<b>273.7</b>	<b>216.4</b>	<b>271.2</b>	<b>315.5</b>	<b>364.0</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>131.3</b>	<b>164.1</b>	<b>146.3</b>	<b>191.5</b>	<b>235.0</b>	<b>333.5</b>	<b>446.3</b>	..
68 Real estate activities	0.4	2.9	0.8	0.1	0.1	0.9	1.0	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	125.7	158.8	142.3	188.6	231.5	328.9	441.5	..
72 Scientific research and development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	..
77-82 Administrative and support service activities	5.2	2.5	3.2	2.8	3.3	3.7	3.8	..
84-99 Community, social and personal services	753.1	881.3	792.8	176.2	243.7	278.4	251.2	..
84-85 Public administration and defence; compulsory social security and education	27.6	32.8	42.6	44.6	51.8	51.7	41.9	..
86-88 Human health and social work activities	59.6	80.2	82.9	114.4	176.3	216.6	187.5	..
90-93 Arts, entertainment and recreation	0.6	2.7	3.1	0.5	3.7	1.9	5.6	..
94-99 Other services; household-employers; extraterritorial bodies	665.3	765.5	664.1	16.7	11.9	8.3	16.2	..

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# ITALY

## R&D expenditure in industry by industry orientation, constant prices ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>13 484.0</b>	<b>13 309.4</b>	<b>13 709.0</b>	<b>13 824.9</b>	<b>13 991.8</b>	<b>14 288.7</b>	<b>15 217.4</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>157.6</b>	<b>106.7</b>	<b>86.6</b>	<b>115.6</b>	<b>122.8</b>	<b>120.0</b>	<b>142.0</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>272.5</b>	<b>228.9</b>	<b>54.6</b>	<b>45.8</b>	<b>47.2</b>	<b>75.8</b>	<b>48.3</b>	..
<b>10-33 MANUFACTURING</b>	<b>10 683.9</b>	<b>10 203.4</b>	<b>10 907.0</b>	<b>11 153.2</b>	<b>11 088.4</b>	<b>11 178.1</b>	<b>11 488.7</b>	..
10-12 Food products, beverages and tobacco	480.1	296.3	328.1	270.0	305.7	353.7	369.6	..
13-15 Textiles, wearing apparel, leather and related products	607.7	592.4	701.6	713.1	739.4	861.8	1 274.4	..
13 Textiles	219.1	233.1	283.9	261.2	278.9	324.6	625.0	..
14 Wearing apparel	296.2	251.9	275.4	286.2	292.6	301.2	414.1	..
15 Leather and related products, footwear	92.4	107.4	142.3	165.8	167.9	236.0	235.3	..
16-18 Wood and paper products and printing	191.3	174.2	164.8	166.0	161.2	192.3	286.8	..
16 Wood and wood products, except furniture	70.1	59.9	47.6	44.6	50.5	59.2	68.4	..
17 Paper and paper products	87.9	87.4	89.0	92.8	88.8	90.9	176.6	..
18 Printing and reproduction of recorded media	33.3	26.9	28.2	28.6	21.9	42.2	41.8	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	2 001.0	2 052.3	2 235.5	2 220.6	2 148.8	2 044.3	2 116.1	..
19 Coke and refined petroleum products	20.5	94.2	126.1	126.2	108.8	117.9	51.5	..
20-21 Chemical and pharmaceutical products	1 439.3	1 494.5	1 601.0	1 559.5	1 461.1	1 380.3	1 374.1	..
20 Chemicals and chemical products	412.2	456.4	492.8	425.4	428.8	490.0	493.5	..
21 Pharmaceuticals, medicinal, chemical and botanical products	1 027.1	1 038.0	1 108.2	1 134.1	1 032.3	890.3	880.6	..
22 Rubber and plastic products	374.4	321.9	362.3	406.8	428.6	393.9	540.3	..
23 Other non-metallic mineral products	166.7	141.7	146.0	128.2	150.3	152.2	150.2	..
24-25 Basic metals, metal products, except machinery and equipment	748.1	698.7	602.8	602.7	642.4	753.4	648.0	..
24 Basic metals	257.3	251.5	265.6	271.8	303.2	389.4	293.2	..
25 Fabricated metal products, except machinery and equipment	490.8	447.2	337.2	330.9	339.2	363.9	354.9	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	6 478.6	6 245.9	6 723.0	7 036.4	6 943.7	6 820.5	6 608.6	..
26 Computer, electronic and optical products	1 867.1	1 873.5	1 969.4	1 968.1	1 868.1	1 802.7	1 812.0	..
27 Electrical equipment	300.6	352.8	415.8	471.6	475.4	491.1	384.4	..
28 Machinery and equipment n.e.c.	940.0	1 007.1	952.4	1 036.4	1 104.5	1 123.8	1 222.3	..
29 Motor vehicles, trailers and semi-trailers	1 764.9	1 676.6	1 929.4	2 074.1	2 116.2	2 049.5	2 323.5	..
30 Other transport equipment	1 605.9	1 335.9	1 455.9	1 486.3	1 379.3	1 353.4	866.5	..
31-33 Furniture; repair, installation of machinery and equipment	177.2	143.6	151.2	144.4	147.0	152.1	185.1	..
31 Furniture	47.5	40.7	43.5	45.3	41.2	41.8	49.9	..
32 Other manufacturing	77.7	82.3	88.8	88.2	88.1	86.1	109.9	..
33 Repair and installation of machinery and equipment	52.1	20.7	18.9	10.9	17.8	24.1	25.3	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>243.0</b>	<b>329.5</b>	<b>319.2</b>	<b>318.4</b>	<b>285.4</b>	<b>280.3</b>	<b>391.9</b>	..
35-36 Electricity, gas and water	203.7	290.3	268.1	269.1	243.6	242.8	346.5	..
37-39 Sewerage, waste management and remediation activities	39.2	39.3	51.1	49.3	41.8	37.5	45.4	..
<b>41-43 CONSTRUCTION</b>	<b>52.6</b>	<b>128.4</b>	<b>69.8</b>	<b>62.6</b>	<b>136.8</b>	<b>64.7</b>	<b>71.0</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>2 074.4</b>	<b>2 312.3</b>	<b>2 271.9</b>	<b>2 129.3</b>	<b>2 311.1</b>	<b>2 569.9</b>	<b>3 075.4</b>	..
<b>45-82 Business sector services</b>	<b>1 292.2</b>	<b>1 429.7</b>	<b>1 479.1</b>	<b>1 958.5</b>	<b>2 081.5</b>	<b>2 314.4</b>	<b>2 847.8</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>83.8</b>	<b>71.9</b>	<b>47.8</b>	<b>41.3</b>	<b>68.0</b>	<b>155.6</b>	<b>356.0</b>	..
<b>49-53 Transportation and storage</b>	<b>105.2</b>	<b>93.1</b>	<b>68.8</b>	<b>64.4</b>	<b>70.8</b>	<b>64.7</b>	<b>70.9</b>	..
<b>55-56 Accommodation and food service activities</b>	<b>6.4</b>	<b>9.2</b>	<b>10.9</b>	<b>10.1</b>	<b>15.7</b>	<b>7.6</b>	<b>13.9</b>	..
<b>58-63 Information and communication</b>	<b>738.7</b>	<b>837.1</b>	<b>931.6</b>	<b>1 447.6</b>	<b>1 450.2</b>	<b>1 490.9</b>	<b>1 672.7</b>	..
58-60 Publishing, audiovisual and broadcasting activities	16.0	13.6	9.2	11.6	13.2	15.7	21.7	..
58 Publishing activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	..
59-60 Motion picture, video and TV programme production; broadcasting activities	16.0	13.6	9.2	11.6	13.2	15.7	21.7	..
59 Motion picture, video and TV programme production; sound and music	16.0	13.6	9.2	11.6	13.2	15.7	21.7	..
60 Programming and broadcasting activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	..
61 Telecommunications	309.2	417.3	523.7	1 018.2	1 021.5	926.6	1 027.7	..
62-63 IT and other information services	413.4	406.1	398.7	417.6	415.5	548.6	623.3	..
62 Computer programming, consultancy and related activities	387.2	382.7	372.6	394.2	390.8	507.9	558.1	..
63 Information service activities	26.2	23.4	26.2	23.4	24.7	40.7	65.2	..
<b>64-66 Financial and insurance activities</b>	<b>221.7</b>	<b>254.1</b>	<b>273.7</b>	<b>209.7</b>	<b>255.5</b>	<b>289.5</b>	<b>329.8</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>136.4</b>	<b>164.3</b>	<b>146.3</b>	<b>185.6</b>	<b>221.3</b>	<b>306.1</b>	<b>404.4</b>	..
68 Real estate activities	0.4	2.9	0.8	0.1	0.1	0.9	0.9	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	130.6	159.0	142.3	182.8	218.1	301.8	400.1	..
72 Scientific research and development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	..
77-82 Administrative and support service activities	5.4	2.5	3.2	2.7	3.1	3.4	3.4	..
84-99 Community, social and personal services	782.3	882.6	792.8	170.7	229.5	255.5	227.6	..
84-85 Public administration and defence; compulsory social security and education	28.6	32.9	42.6	43.2	48.8	47.4	38.0	..
86-88 Human health and social work activities	61.9	80.3	82.9	110.9	166.0	198.8	169.9	..
90-93 Arts, entertainment and recreation	0.7	2.7	3.1	0.5	3.5	1.7	5.0	..
94-99 Other services; household-employers; extraterritorial bodies	691.1	766.6	664.1	16.2	11.2	7.6	14.7	..

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# JAPAN

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>116 687.8</b>	<b>103 760.1</b>	<b>107 581.3</b>	<b>114 204.6</b>	<b>116 716.3</b>	<b>125 287.5</b>	<b>132 584.8</b>	<b>133 437.2</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>28.8</b>	<b>27.1</b>	<b>41.1</b>	<b>27.6</b>	<b>17.8</b>	<b>21.2</b>	<b>18.5</b>	<b>20.9</b>
<b>05-09 MINING AND QUARRYING</b>	<b>109.0</b>	<b>136.0</b>	<b>89.6</b>	<b>30.3</b>	<b>29.0</b>	<b>43.1</b>	<b>36.8</b>	<b>39.9</b>
<b>10-33 MANUFACTURING</b>	<b>101 699.3</b>	<b>90 381.0</b>	<b>93 748.1</b>	<b>100 352.8</b>	<b>102 653.6</b>	<b>111 166.7</b>	<b>114 714.1</b>	<b>115 676.0</b>
10-12 Food products, beverages and tobacco	2 285.0	2 095.7	2 127.5	2 085.7	2 113.7	2 306.8	2 046.0	2 140.4
13-15 Textiles, wearing apparel, leather and related products	1 233.9	1 043.6	1 125.4	1 266.2	1 305.1	1 366.3	1 327.5	1 344.2
13 Textiles	1 154.9	977.6	1 050.5	1 191.3	1 240.0	1 297.4	1 251.3	1 278.6
14 Wearing apparel	36.9	28.4	30.4	40.9	29.6	30.8	41.2	27.8
15 Leather and related products, footwear	42.0	37.6	44.4	34.0	35.4	38.0	35.0	37.8
16-18 Wood and paper products and printing	831.8	728.6	772.3	734.3	677.2	579.6	593.6	573.3
16 Wood and wood products, except furniture	85.5	67.0	81.8	86.0	101.3	91.6	83.7	82.7
17 Paper and paper products	374.3	335.7	377.6	319.8	240.5	203.3	283.6	271.0
18 Printing and reproduction of recorded media	372.0	325.9	312.9	328.5	335.4	284.8	226.3	219.6
19-23 Chemical, rubber, plastic, non-metallic mineral products	22 673.0	20 922.1	22 250.0	22 802.7	24 183.4	26 445.0	27 141.3	27 297.4
19 Coke and refined petroleum products	510.7	440.8	468.1	447.7	440.0	462.4	410.7	431.5
20-21 Chemicals and pharmaceutical products	18 156.8	16 873.9	18 093.4	18 371.2	19 688.5	21 608.5	21 944.7	22 174.6
20 Chemicals and chemical products	7 068.8	6 538.9	6 663.4	6 925.1	7 162.5	7 422.7	7 352.2	7 961.7
21 Pharmaceuticals, medicinal, chemical and botanical products	11 088.0	10 335.1	11 430.0	11 446.1	12 526.0	14 185.8	14 592.5	14 212.9
22 Rubber and plastic products	2 539.5	2 377.6	2 421.2	2 594.7	2 638.7	2 916.5	3 300.4	3 338.8
23 Other non-metallic mineral products	1 466.0	1 229.7	1 267.3	1 389.0	1 416.3	1 457.6	1 485.5	1 352.5
24-25 Basic metals, metal products, except machinery and equipment	2 679.0	2 473.5	2 649.2	2 865.7	2 658.2	2 747.4	2 991.8	2 859.8
24 Basic metals	2 238.6	2 027.2	2 155.4	2 360.2	2 166.9	2 256.9	2 473.4	2 393.2
25 Fabricated metal products, except machinery and equipment	440.4	446.3	493.8	505.5	491.4	490.5	518.4	466.6
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	70 117.9	61 365.8	62 846.2	68 596.4	69 587.1	75 291.2	78 381.6	79 636.5
26 Computer, electronic and optical products	32 229.4	27 327.2	26 265.9	29 244.8	28 387.1	28 750.8	28 176.1	28 125.0
27 Electrical equipment	3 428.5	2 967.4	3 410.2	3 221.7	3 267.6	3 467.5	3 447.7	3 448.1
28 Machinery and equipment n.e.c.	9 766.2	9 457.7	9 537.0	10 211.0	10 414.6	12 315.0	12 511.1	12 719.7
29 Motor vehicles, trailers and semi-trailers	24 255.9	21 261.7	23 156.3	25 408.9	26 930.1	29 995.1	33 372.0	34 271.0
30 Other transport equipment	438.0	351.9	476.9	510.1	587.7	762.7	874.8	1 072.7
31-33 Furniture; repair, installation of machinery and equipment	1 878.6	1 751.6	1 977.6	2 002.0	2 128.9	2 430.4	2 232.2	1 824.3
31 Furniture	180.6	115.6	93.4	106.8	98.0	97.4	109.5	107.3
32 Other manufacturing	1 698.0	1 636.1	1 884.2	1 895.2	2 030.9	2 333.0	2 122.8	1 717.0
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>617.5</b>	<b>550.0</b>	<b>595.6</b>	<b>505.6</b>	<b>503.7</b>	<b>512.4</b>	<b>467.0</b>	<b>472.3</b>
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>1 026.0</b>	<b>1 001.7</b>	<b>1 023.1</b>	<b>1 024.1</b>	<b>1 066.6</b>	<b>1 061.3</b>	<b>956.5</b>	<b>1 044.7</b>
<b>45-99 TOTAL SERVICES</b>	<b>13 207.1</b>	<b>11 664.4</b>	<b>12 083.8</b>	<b>12 264.2</b>	<b>12 445.6</b>	<b>12 482.7</b>	<b>16 391.9</b>	<b>16 183.5</b>
<b>45-82 Business sector services</b>	<b>13 207.1</b>	<b>11 664.4</b>	<b>12 083.8</b>	<b>12 264.2</b>	<b>12 445.6</b>	<b>12 482.7</b>	<b>16 391.9</b>	<b>16 183.5</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>361.3</b>	<b>385.1</b>	<b>360.6</b>	<b>313.1</b>	<b>463.2</b>	<b>489.0</b>	<b>644.8</b>	<b>729.4</b>
<b>49-53 Transportation and storage</b>	<b>337.4</b>	<b>326.9</b>	<b>306.4</b>	<b>326.9</b>	<b>425.8</b>	<b>519.2</b>	<b>564.6</b>	<b>442.9</b>
<b>55-56 Accommodation and food service activities</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>
<b>58-63 Information and communication</b>	<b>5 096.9</b>	<b>4 598.5</b>	<b>4 838.4</b>	<b>5 237.9</b>	<b>5 181.1</b>	<b>4 587.8</b>	<b>6 718.0</b>	<b>6 292.2</b>
58-60 Publishing, audiovisual and broadcasting activities	126.4	110.2	102.9	8.7	9.5	18.9	16.4	15.8
58 Publishing activities	22.2	8.5	6.7	4.6	6.3	8.6	9.4	5.7
59-60 Motion picture, video and TV programme production; broadcasting activities	104.1	101.7	96.2	4.1	3.2	10.3	6.9	10.1
59 Motion picture, video and TV programme production; sound and music	4.2	2.0	0.4	0.7	0.7	1.8	1.9	2.2
60 Programming and broadcasting activities	99.9	99.7	95.8	3.5	2.5	8.5	5.0	8.0
61 Telecommunications	2 800.8	2 283.3	2 277.2	2 779.8	2 832.9	2 764.9	3 706.9	3 701.5
62-63 IT and other information services	2 169.8	2 205.0	2 458.2	2 449.5	2 338.7	1 804.0	2 994.7	2 574.9
62 Computer programming, consultancy and related activities	1 893.5	1 921.5	2 179.3	2 142.3	2 093.0	1 592.3	2 700.5	2 268.9
63 Information service activities	276.2	283.6	278.9	307.1	245.7	211.8	294.2	306.0
<b>64-66 Financial and insurance activities</b>	<b>21.0</b>	<b>19.5</b>	<b>22.8</b>	<b>30.5</b>	<b>17.6</b>	<b>21.6</b>	<b>32.0</b>	<b>36.1</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>7 390.5</b>	<b>6 334.3</b>	<b>6 555.7</b>	<b>6 355.8</b>	<b>6 357.8</b>	<b>6 865.0</b>	<b>8 432.6</b>	<b>8 683.0</b>
68 Real estate activities	..	..	..	..	..	..	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	407.7	427.4	387.8	342.0	588.2	711.0	729.7	581.9
72 Scientific research and development	6 926.5	5 850.3	6 107.3	5 958.0	5 713.5	6 101.3	7 644.9	8 021.1
77-82 Administrative and support service activities	56.3	56.7	60.6	55.7	56.1	52.7	58.0	80.0
84-99 Community, social and personal services	..	..	..	..	..	..	..	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# JAPAN

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>119 085.7</b>	<b>105 311.7</b>	<b>107 581.3</b>	<b>111 797.7</b>	<b>111 725.6</b>	<b>116 902.6</b>	<b>122 988.8</b>	<b>121 417.3</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>29.4</b>	<b>27.5</b>	<b>41.1</b>	<b>27.0</b>	<b>17.1</b>	<b>19.8</b>	<b>17.1</b>	<b>19.0</b>
<b>05-09 MINING AND QUARRYING</b>	<b>111.3</b>	<b>138.0</b>	<b>89.6</b>	<b>29.7</b>	<b>27.8</b>	<b>40.2</b>	<b>34.1</b>	<b>36.3</b>
<b>10-33 MANUFACTURING</b>	<b>103 789.2</b>	<b>91 732.5</b>	<b>93 748.1</b>	<b>98 237.9</b>	<b>98 264.2</b>	<b>103 726.9</b>	<b>106 411.6</b>	<b>105 256.0</b>
10-12 Food products, beverages and tobacco	2 332.0	2 127.0	2 127.5	2 041.7	2 023.3	2 152.4	1 897.9	1 947.6
13-15 Textiles, wearing apparel, leather and related products	1 259.2	1 059.2	1 125.4	1 239.5	1 249.3	1 274.8	1 231.4	1 223.1
13 Textiles	1 178.7	992.2	1 050.5	1 166.2	1 187.0	1 210.6	1 160.7	1 163.4
14 Wearing apparel	37.6	28.8	30.4	40.1	28.4	28.7	38.2	25.3
15 Leather and related products, footwear	42.9	38.2	44.4	33.3	33.9	35.5	32.5	34.4
16-18 Wood and paper products and printing	848.9	739.5	772.3	718.8	648.3	540.9	550.7	521.7
16 Wood and wood products, except furniture	87.2	68.0	81.8	84.2	97.0	85.4	77.7	75.3
17 Paper and paper products	382.0	340.7	377.6	313.0	230.2	189.7	263.1	246.6
18 Printing and reproduction of recorded media	379.7	330.8	312.9	321.6	321.1	265.7	209.9	199.8
19-23 Chemical, rubber, plastic, non-metallic mineral products	23 138.9	21 235.0	22 250.0	22 322.1	23 149.4	24 675.2	25 177.0	24 838.5
19 Coke and refined petroleum products	521.2	447.4	468.1	438.3	421.1	431.5	381.0	392.7
20-21 Chemicals and pharmaceutical products	18 530.0	17 126.3	18 093.4	17 984.0	18 846.6	20 162.3	20 356.5	20 177.2
20 Chemicals and chemical products	7 214.1	6 636.6	6 663.4	6 779.2	6 856.2	6 925.9	6 820.1	7 244.5
21 Pharmaceuticals, medicinal, chemical and botanical products	11 315.9	10 489.6	11 430.0	11 204.9	11 990.4	13 236.4	13 536.3	12 932.6
22 Rubber and plastic products	2 591.7	2 413.2	2 421.2	2 540.0	2 525.9	2 721.4	3 061.5	3 038.0
23 Other non-metallic mineral products	1 496.1	1 248.1	1 267.3	1 359.8	1 355.7	1 360.0	1 378.0	1 230.6
24-25 Basic metals, metal products, except machinery and equipment	2 734.0	2 510.5	2 649.2	2 805.3	2 544.6	2 563.5	2 775.3	2 602.2
24 Basic metals	2 284.6	2 057.5	2 155.4	2 310.4	2 074.2	2 105.8	2 294.4	2 177.6
25 Fabricated metal products, except machinery and equipment	449.4	453.0	493.8	494.8	470.3	457.7	480.9	424.6
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	71 558.8	62 283.5	62 846.2	67 150.7	66 611.6	70 252.3	72 708.7	72 462.9
26 Computer, electronic and optical products	32 891.7	27 735.8	26 265.9	28 628.4	27 173.3	26 826.7	26 136.8	25 591.5
27 Electrical equipment	3 498.9	3 011.8	3 410.2	3 153.8	3 127.9	3 235.4	3 198.2	3 137.5
28 Machinery and equipment n.e.c.	9 966.9	9 599.2	9 537.0	9 995.8	9 969.3	11 490.9	11 605.6	11 573.9
29 Motor vehicles, trailers and semi-trailers	24 754.4	21 579.6	23 156.3	24 873.4	25 778.6	27 987.7	30 956.6	31 183.9
30 Other transport equipment	447.0	357.1	476.9	499.3	562.5	711.7	811.5	976.1
31-33 Furniture; repair, installation of machinery and equipment	1 917.2	1 777.8	1 977.6	1 959.8	2 037.8	2 267.7	2 070.7	1 659.9
31 Furniture	184.3	117.3	93.4	104.6	93.8	90.8	101.5	97.6
32 Other manufacturing	1 732.9	1 660.5	1 884.2	1 855.2	1 944.1	2 176.9	1 969.1	1 562.3
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>630.2</b>	<b>558.2</b>	<b>595.6</b>	<b>495.0</b>	<b>482.2</b>	<b>478.1</b>	<b>433.2</b>	<b>429.8</b>
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>1 047.1</b>	<b>1 016.7</b>	<b>1 023.1</b>	<b>1 002.5</b>	<b>1 021.0</b>	<b>990.3</b>	<b>887.3</b>	<b>950.6</b>
<b>45-99 TOTAL SERVICES</b>	<b>13 478.5</b>	<b>11 838.8</b>	<b>12 083.8</b>	<b>12 005.7</b>	<b>11 913.4</b>	<b>11 647.3</b>	<b>15 205.6</b>	<b>14 725.7</b>
<b>45-82 Business sector services</b>	<b>13 478.5</b>	<b>11 838.8</b>	<b>12 083.8</b>	<b>12 005.7</b>	<b>11 913.4</b>	<b>11 647.3</b>	<b>15 205.6</b>	<b>14 725.7</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>368.7</b>	<b>390.8</b>	<b>360.6</b>	<b>306.5</b>	<b>443.4</b>	<b>456.3</b>	<b>598.1</b>	<b>663.7</b>
<b>49-53 Transportation and storage</b>	<b>344.4</b>	<b>331.8</b>	<b>306.4</b>	<b>320.0</b>	<b>407.6</b>	<b>484.5</b>	<b>523.8</b>	<b>403.0</b>
<b>55-56 Accommodation and food service activities</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>
<b>58-63 Information and communication</b>	<b>5 201.7</b>	<b>4 667.3</b>	<b>4 838.4</b>	<b>5 127.5</b>	<b>4 959.6</b>	<b>4 280.8</b>	<b>6 231.7</b>	<b>5 725.4</b>
58-60 Publishing, audiovisual and broadcasting activities	129.0	111.8	102.9	8.5	9.1	17.7	15.2	14.4
58 Publishing activities	22.7	8.6	6.7	4.5	6.1	8.1	8.7	5.2
59-60 Motion picture, video and TV programme production; broadcasting activities	106.3	103.2	96.2	4.0	3.0	9.6	6.4	9.2
59 Motion picture, video and TV programme production; sound and music	4.3	2.1	0.4	0.6	0.6	1.6	1.8	2.0
60 Programming and broadcasting activities	101.9	101.2	95.8	3.4	2.4	8.0	4.6	7.2
61 Telecommunications	2 858.3	2 317.4	2 277.2	2 721.2	2 711.8	2 579.8	3 438.6	3 368.1
62-63 IT and other information services	2 214.3	2 238.0	2 458.2	2 397.8	2 238.7	1 683.3	2 778.0	2 342.9
62 Computer programming, consultancy and related activities	1 932.5	1 950.2	2 179.3	2 097.2	2 003.5	1 485.7	2 505.0	2 064.5
63 Information service activities	281.9	287.8	278.9	300.7	235.2	197.6	272.9	278.4
<b>64-66 Financial and insurance activities</b>	<b>21.5</b>	<b>19.8</b>	<b>22.8</b>	<b>29.9</b>	<b>16.8</b>	<b>20.2</b>	<b>29.7</b>	<b>32.8</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>7 542.3</b>	<b>6 429.1</b>	<b>6 555.7</b>	<b>6 221.8</b>	<b>6 086.0</b>	<b>6 405.6</b>	<b>7 822.3</b>	<b>7 900.8</b>
68 Real estate activities	..	..	..	..	..	..	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	416.1	433.8	387.8	334.8	563.1	663.4	676.8	529.5
72 Scientific research and development	7 068.8	5 937.7	6 107.3	5 832.4	5 469.2	5 693.0	7 091.6	7 298.6
77-82 Administrative and support service activities	57.4	57.5	60.6	54.5	53.7	49.2	53.8	72.8
84-99 Community, social and personal services	..	..	..	..	..	..	..	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# KOREA

## R&D expenditure in industry by main activity of the enterprise, current prices ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>33 090.8</b>	<b>34 150.3</b>	<b>39 025.0</b>	<b>44 680.5</b>	<b>50 559.8</b>	<b>53 573.7</b>	<b>57 255.4</b>	<b>57 410.0</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>26.1</b>	<b>24.8</b>	<b>31.0</b>	<b>42.3</b>	<b>31.2</b>	<b>30.2</b>	<b>33.0</b>	<b>35.1</b>
<b>05-09 MINING AND QUARRYING</b>	<b>7.8</b>	<b>17.5</b>	<b>22.4</b>	<b>25.7</b>	<b>41.1</b>	<b>29.1</b>	<b>23.3</b>	<b>26.3</b>
<b>10-33 MANUFACTURING</b>	<b>29 270.6</b>	<b>29 504.9</b>	<b>34 188.0</b>	<b>39 112.9</b>	<b>44 404.0</b>	<b>47 468.5</b>	<b>50 908.7</b>	<b>51 444.1</b>
10-12 Food products, beverages and tobacco	445.1	450.1	361.3	472.0	550.9	532.2	561.6	1 126.0
13-15 Textiles, wearing apparel, leather and related products	194.2	198.6	198.6	334.1	376.0	418.6	423.9	453.8
13 Textiles	94.6	90.1	97.1	142.2	135.5	142.5	148.5	173.7
14 Wearing apparel	83.2	96.7	84.5	164.3	203.9	231.8	227.2	225.2
15 Leather and related products, footwear	16.4	11.7	17.0	27.6	36.6	44.3	48.3	54.8
16-18 Wood and paper products and printing	56.2	74.8	81.0	106.4	141.0	119.4	125.0	154.3
16 Wood and wood products, except furniture	7.4	8.0	7.8	18.8	15.1	15.5	15.1	26.1
17 Paper and paper products	22.6	36.7	42.4	55.6	88.2	63.5	67.4	70.3
18 Printing and reproduction of recorded media	26.2	30.0	30.8	31.9	37.7	40.5	42.5	57.9
19-23 Chemical, rubber, plastic, non-metallic mineral products	3 349.6	3 490.3	4 065.1	5 042.5	5 225.5	5 837.0	5 448.8	5 992.7
19 Coke and refined petroleum products	147.5	166.5	274.4	395.4	317.7	335.3	273.8	283.7
20-21 Chemical and pharmaceutical products	2 465.2	2 600.2	2 940.3	3 739.1	3 893.4	4 303.0	4 017.2	4 535.7
20 Chemicals and chemical products	1 657.7	1 763.9	2 062.4	2 729.0	2 671.6	3 057.1	2 728.4	3 018.3
21 Pharmaceuticals, medicinal, chemical and botanical products	807.5	836.3	877.9	1 010.1	1 221.9	1 245.9	1 288.8	1 517.4
22 Rubber and plastic products	554.0	435.9	602.9	631.0	634.2	834.0	884.0	918.2
23 Other non-metallic mineral products	182.9	287.6	247.6	277.1	380.1	364.7	273.6	255.1
24-25 Basic metals, metal products, except machinery and equipment	948.8	1 022.0	972.0	1 346.8	1 442.1	1 344.0	1 327.2	1 418.8
24 Basic metals	651.2	669.2	664.6	721.8	858.4	712.9	745.0	731.7
25 Fabricated metal products, except machinery and equipment	297.5	352.8	307.4	625.0	583.7	631.1	582.3	687.1
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	24 053.9	24 040.6	28 258.3	31 402.7	36 303.2	38 848.2	42 586.3	41 766.1
26 Computer, electronic and optical products	16 114.4	16 252.0	19 631.5	21 873.9	25 237.8	27 676.6	30 441.9	28 773.2
27 Electrical equipment	867.8	932.7	992.7	1 076.2	1 265.4	1 188.4	1 279.4	1 561.0
28 Machinery and equipment n.e.c.	1 996.0	1 943.1	2 184.9	2 413.7	3 184.4	3 066.3	3 243.2	3 191.3
29 Motor vehicles, trailers and semi-trailers	4 381.6	4 283.1	4 758.4	5 309.3	5 724.1	6 071.2	6 748.6	7 267.1
30 Other transport equipment	694.1	629.8	690.8	729.5	891.5	845.7	873.2	973.5
31-33 Furniture; repair, installation of machinery and equipment	222.9	228.5	251.7	408.6	365.2	369.0	436.0	532.4
31 Furniture	21.7	52.1	52.5	62.7	66.3	74.7	99.4	96.7
32 Other manufacturing	201.2	176.4	199.2	345.9	298.9	294.3	336.5	435.7
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>358.2</b>	<b>355.8</b>	<b>373.9</b>	<b>481.1</b>	<b>509.2</b>	<b>409.8</b>	<b>422.9</b>	<b>439.3</b>
35-36 Electricity, gas and water	329.3	330.8	349.8	444.1	476.5	371.3	383.3	380.4
37-39 Sewerage, waste management and remediation activities	28.9	25.0	24.1	37.0	32.7	38.4	39.7	59.0
<b>41-43 CONSTRUCTION</b>	<b>820.8</b>	<b>1 029.8</b>	<b>886.9</b>	<b>1 063.2</b>	<b>1 156.1</b>	<b>1 104.8</b>	<b>1 139.1</b>	<b>842.7</b>
<b>45-99 TOTAL SERVICES</b>	<b>2 607.3</b>	<b>3 217.6</b>	<b>3 522.9</b>	<b>3 955.3</b>	<b>4 418.3</b>	<b>4 531.4</b>	<b>4 728.4</b>	<b>4 622.5</b>
<b>45-82 Business sector services</b>	<b>2 591.1</b>	<b>3 188.6</b>	<b>3 490.7</b>	<b>3 912.0</b>	<b>4 379.9</b>	<b>4 491.4</b>	<b>4 685.9</b>	<b>4 572.3</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>173.0</b>	<b>563.1</b>	<b>641.8</b>	<b>719.9</b>	<b>788.8</b>	<b>813.8</b>	<b>859.0</b>	<b>695.0</b>
<b>49-53 Transportation and storage</b>	<b>70.1</b>	<b>41.6</b>	<b>88.3</b>	<b>144.8</b>	<b>81.6</b>	<b>127.7</b>	<b>45.8</b>	<b>44.8</b>
<b>55-56 Accommodation and food service activities</b>	<b>3.0</b>	<b>9.8</b>	<b>1.0</b>	<b>7.7</b>	<b>1.4</b>	<b>10.0</b>	<b>8.8</b>	<b>15.6</b>
<b>58-63 Information and communication</b>	<b>1 644.6</b>	<b>1 592.5</b>	<b>1 827.2</b>	<b>1 978.6</b>	<b>2 378.6</b>	<b>2 247.3</b>	<b>2 460.6</b>	<b>2 377.7</b>
58-60 Publishing, audiovisual and broadcasting activities	972.0	1 018.3	1 131.6	1 111.1	1 559.1	1 436.0	1 629.2	1 592.6
58 Publishing activities	945.5	988.1	1 095.7	1 079.0	1 527.5	1 396.0	1 590.4	1 558.9
59-60 Motion picture, video and TV programme production; broadcasting activities	26.5	30.2	35.9	32.0	31.6	40.0	38.9	33.7
59 Motion picture, video and TV programme production; sound and music	6.3	12.9	13.2	15.4	12.7	9.5	13.7	18.0
60 Programming and broadcasting activities	20.2	17.4	22.7	16.7	18.9	30.6	25.1	15.6
61 Telecommunications	482.2	340.7	412.8	402.6	452.1	468.1	493.2	422.5
62-63 IT and other information services	190.4	233.4	282.8	465.0	367.4	343.2	338.2	362.6
62 Computer programming, consultancy and related activities	97.3	115.8	169.7	319.3	246.7	206.8	223.2	245.7
63 Information service activities	93.1	117.7	113.1	145.7	120.7	136.4	115.0	116.9
<b>64-66 Financial and insurance activities</b>	<b>0.1</b>	<b>2.0</b>	<b>1.6</b>	<b>1.2</b>	<b>2.1</b>	<b>2.0</b>	<b>5.2</b>	<b>6.3</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>700.3</b>	<b>979.5</b>	<b>930.9</b>	<b>1 059.8</b>	<b>1 127.4</b>	<b>1 290.6</b>	<b>1 306.5</b>	<b>1 433.0</b>
68 Real estate activities	0.7	30.7	21.0	3.5	1.9	1.6	3.7	6.6
69-75x72 Professional, scientific and technical activities, except scientific R&D	517.1	699.3	634.4	679.3	768.7	790.8	866.9	952.3
72 Scientific research and development	147.3	182.3	202.5	305.3	274.8	406.8	342.5	386.5
77-82 Administrative and support service activities	35.2	67.2	73.0	71.7	82.0	91.4	93.3	87.6
84-99 Community, social and personal services	16.2	29.0	32.3	43.3	38.4	40.0	42.4	50.2
84-85 Public administration and defence; compulsory social security and education	9.9	15.0	15.3	19.2	14.6	16.6	16.2	19.4
86-88 Human health and social work activities	0.0	0.2	0.2	0.3	1.1	5.0	5.6	13.3
90-93 Arts, entertainment and recreation	3.4	4.1	4.1	3.2	3.2	3.0	2.2	3.3
94-99 Other services; household-employers; extraterritorial bodies	2.8	9.7	12.6	20.6	19.5	15.4	18.4	14.3

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Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# KOREA

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>33 039.7</b>	<b>34 567.4</b>	<b>39 025.0</b>	<b>44 716.9</b>	<b>50 096.2</b>	<b>53 507.2</b>	<b>56 951.4</b>	<b>57 152.9</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>26.1</b>	<b>25.1</b>	<b>31.0</b>	<b>42.4</b>	<b>30.9</b>	<b>30.1</b>	<b>32.8</b>	<b>34.9</b>
<b>05-09 MINING AND QUARRYING</b>	<b>7.8</b>	<b>17.7</b>	<b>22.4</b>	<b>25.7</b>	<b>40.7</b>	<b>29.1</b>	<b>23.2</b>	<b>26.2</b>
<b>10-33 MANUFACTURING</b>	<b>29 225.3</b>	<b>29 865.3</b>	<b>34 188.0</b>	<b>39 144.9</b>	<b>43 996.8</b>	<b>47 409.6</b>	<b>50 638.4</b>	<b>51 213.7</b>
10-12 Food products, beverages and tobacco	444.4	455.6	361.3	472.4	545.8	531.6	558.6	1 120.9
13-15 Textiles, wearing apparel, leather and related products	193.9	201.0	198.6	334.3	372.6	418.1	421.7	451.8
13 Textiles	94.4	91.2	97.1	142.3	134.2	142.4	147.7	173.0
14 Wearing apparel	83.1	97.9	84.5	164.4	202.0	231.5	225.9	224.2
15 Leather and related products, footwear	16.4	11.9	17.0	27.6	36.3	44.3	48.0	54.6
16-18 Wood and paper products and printing	56.1	75.7	81.0	106.4	139.7	119.3	124.3	153.6
16 Wood and wood products, except furniture	7.3	8.1	7.8	18.8	15.0	15.4	15.0	25.9
17 Paper and paper products	22.6	37.2	42.4	55.7	87.3	63.4	67.1	70.0
18 Printing and reproduction of recorded media	26.2	30.4	30.8	32.0	37.4	40.4	42.2	57.7
19-23 Chemical, rubber, plastic, non-metallic mineral products	3 344.4	3 532.9	4 065.1	5 046.6	5 177.6	5 829.8	5 419.8	5 965.8
19 Coke and refined petroleum products	147.2	168.5	274.4	395.7	314.8	334.9	272.4	282.4
20-21 Chemical and pharmaceutical products	2 461.4	2 632.0	2 940.3	3 742.1	3 857.7	4 297.7	3 995.9	4 515.4
20 Chemicals and chemical products	1 655.1	1 785.5	2 062.4	2 731.2	2 647.1	3 053.3	2 714.0	3 004.8
21 Pharmaceuticals, medicinal, chemical and botanical products	806.3	846.5	877.9	1 010.9	1 210.7	1 244.3	1 282.0	1 510.6
22 Rubber and plastic products	553.2	441.3	602.9	631.5	628.4	833.0	879.4	914.1
23 Other non-metallic mineral products	182.6	291.1	247.6	277.3	376.6	364.2	272.2	254.0
24-25 Basic metals, metal products, except machinery and equipment	947.3	1 034.5	972.0	1 347.9	1 428.9	1 342.3	1 320.2	1 412.5
24 Basic metals	650.2	677.4	664.6	722.4	850.6	712.0	741.0	728.4
25 Fabricated metal products, except machinery and equipment	297.1	357.1	307.4	625.5	578.4	630.4	579.2	684.1
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	24 016.7	24 334.2	28 258.3	31 428.3	35 970.3	38 799.9	42 360.1	41 579.0
26 Computer, electronic and optical products	16 089.5	16 450.5	19 631.5	21 891.8	25 006.4	27 642.3	30 280.2	28 644.3
27 Electrical equipment	866.5	944.1	992.7	1 077.1	1 253.8	1 186.9	1 272.6	1 554.0
28 Machinery and equipment n.e.c.	1 992.9	1 966.8	2 184.9	2 415.7	3 155.2	3 062.5	3 226.0	3 177.0
29 Motor vehicles, trailers and semi-trailers	4 374.8	4 335.4	4 758.4	5 313.7	5 671.6	6 063.7	6 712.8	7 234.5
30 Other transport equipment	693.0	637.5	690.8	730.1	883.3	844.6	868.6	969.2
31-33 Furniture; repair, installation of machinery and equipment	222.6	231.3	251.7	408.9	361.9	368.5	433.7	530.0
31 Furniture	21.7	52.7	52.5	62.7	65.7	74.6	98.9	96.2
32 Other manufacturing	200.9	178.6	199.2	346.2	296.2	293.9	334.7	433.8
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>357.7</b>	<b>360.1</b>	<b>373.9</b>	<b>481.5</b>	<b>504.5</b>	<b>409.3</b>	<b>420.7</b>	<b>437.4</b>
35-36 Electricity, gas and water	328.8	334.9	349.8	444.4	472.1	370.9	381.2	378.7
37-39 Sewerage, waste management and remediation activities	28.8	25.3	24.1	37.0	32.4	38.4	39.5	58.7
<b>41-43 CONSTRUCTION</b>	<b>819.6</b>	<b>1 042.4</b>	<b>886.9</b>	<b>1 064.0</b>	<b>1 145.5</b>	<b>1 103.4</b>	<b>1 133.0</b>	<b>838.9</b>
<b>45-99 TOTAL SERVICES</b>	<b>2 603.3</b>	<b>3 256.9</b>	<b>3 522.9</b>	<b>3 958.5</b>	<b>4 377.8</b>	<b>4 525.8</b>	<b>4 703.2</b>	<b>4 601.8</b>
<b>45-82 Business sector services</b>	<b>2 587.1</b>	<b>3 227.5</b>	<b>3 490.7</b>	<b>3 915.2</b>	<b>4 339.8</b>	<b>4 485.8</b>	<b>4 661.0</b>	<b>4 551.8</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>172.7</b>	<b>570.0</b>	<b>641.8</b>	<b>720.5</b>	<b>781.5</b>	<b>812.8</b>	<b>854.5</b>	<b>691.9</b>
<b>49-53 Transportation and storage</b>	<b>70.0</b>	<b>42.1</b>	<b>88.3</b>	<b>144.9</b>	<b>80.9</b>	<b>127.5</b>	<b>45.6</b>	<b>44.6</b>
<b>55-56 Accommodation and food service activities</b>	<b>3.0</b>	<b>9.9</b>	<b>1.0</b>	<b>7.8</b>	<b>1.4</b>	<b>10.0</b>	<b>8.8</b>	<b>15.5</b>
<b>58-63 Information and communication</b>	<b>1 642.1</b>	<b>1 612.0</b>	<b>1 827.2</b>	<b>1 980.3</b>	<b>2 356.8</b>	<b>2 244.5</b>	<b>2 447.5</b>	<b>2 367.0</b>
58-60 Publishing, audiovisual and broadcasting activities	970.5	1 030.8	1 131.6	1 112.0	1 544.8	1 434.2	1 620.6	1 585.4
58 Publishing activities	944.0	1 000.2	1 095.7	1 079.9	1 513.5	1 394.2	1 581.9	1 551.9
59-60 Motion picture, video and TV programme production; broadcasting activities	26.5	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	6.3	13.0	13.2	15.4	12.5	9.5	13.7	17.9
60 Programming and broadcasting activities	20.2	17.6	22.7	16.7	18.8	30.5	25.0	15.6
61 Telecommunications	481.5	344.9	412.8	402.9	448.0	467.5	490.5	420.6
62-63 IT and other information services	190.1	236.3	282.8	465.4	364.0	342.8	336.4	361.0
62 Computer programming, consultancy and related activities	97.1	117.2	169.7	319.6	244.4	206.5	222.0	244.6
63 Information service activities	93.0	119.1	113.1	145.8	119.6	136.3	114.4	116.3
<b>64-66 Financial and insurance activities</b>	<b>0.1</b>	<b>2.0</b>	<b>1.6</b>	<b>1.2</b>	<b>2.1</b>	<b>2.0</b>	<b>5.1</b>	<b>6.2</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>699.2</b>	<b>991.5</b>	<b>930.9</b>	<b>1 060.6</b>	<b>1 117.1</b>	<b>1 289.0</b>	<b>1 299.6</b>	<b>1 426.6</b>
68 Real estate activities	0.7	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	516.3	707.8	634.4	679.9	761.7	789.9	862.3	948.0
72 Scientific research and development	147.1	184.5	202.5	305.6	272.3	406.3	340.7	384.8
77-82 Administrative and support service activities	35.1	68.0	73.0	71.7	81.3	91.3	92.8	87.2
84-99 Community, social and personal services	16.2	29.4	32.3	43.4	38.0	40.0	42.2	50.0
84-85 Public administration and defence; compulsory social security and education	9.9	15.2	15.3	19.2	14.5	16.6	16.2	19.3
86-88 Human health and social work activities	0.0	0.3	0.2	0.3	1.1	5.0	5.6	13.2
90-93 Arts, entertainment and recreation	3.4	4.1	4.1	3.2	3.1	3.0	2.2	3.3
94-99 Other services; household-employers; extraterritorial bodies	2.8	9.8	12.6	20.6	19.3	15.4	18.3	14.2

.. Not available

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# MEXICO

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>2 651.9</b>	<b>3 101.0</b>	<b>3 274.2</b>	<b>3 410.3</b>	<b>2 909.8</b>	<b>3 214.3</b>	<b>3 468.0</b>	<b>3 465.1</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>5.3 e</b>	<b>20.1 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>05-09 MINING AND QUARRYING</b>	<b>83.8 e</b>	<b>101.1 e</b>	<b>36.4 e</b>	<b>50.9 e</b>	<b>6.0</b>	<b>28.2</b>	<b>30.5</b>	<b>30.4</b>
<b>10-33 MANUFACTURING</b>	<b>2 045.0 e</b>	<b>2 294.8 e</b>	<b>1 751.2 e</b>	<b>2 000.3 e</b>	<b>1 322.7</b>	<b>1 736.8</b>	<b>1 873.9</b>	<b>1 872.3</b>
10-12 Food products, beverages and tobacco	182.5	256.5	149.7	173.1	150.6	203.6	219.6	219.4
13-15 Textiles, wearing apparel, leather and related products	32.5	110.3	41.4	41.6	24.7	28.0	30.2	30.2
13 Textiles	26.8 e	99.3 e	19.8 e	22.6 e	24.3	27.6	29.8	29.7
14 Wearing apparel	0.7 e	1.3 e	1.8 e	0.0 e	0.3	0.3	0.3	0.3
15 Leather and related products, footwear	5.0 e	9.6 e	19.8 e	19.1 e	0.1	0.1	0.1	0.1
16-18 Wood and paper products and printing	49.4	31.4	21.7	22.3	25.1	31.3	33.7	33.7
16 Wood and wood products, except furniture	3.5 e	2.7 e	4.9 e	4.8 e	3.1	6.6	7.1	7.1
17 Paper and paper products	45.7 e	27.1 e	16.2 e	17.2 e	16.4	21.5	23.2	23.2
18 Printing and reproduction of recorded media	0.3 e	1.5 e	0.6 e	0.2 e	5.6	3.2	3.4	3.4
19-23 Chemical, rubber, plastic, non-metallic mineral products	861.1 e	842.4 e	898.6 e	1 048.0 e	482.3	659.6	711.7	711.1
19 Coke and refined petroleum products	9.3	9.3	10.2	13.5	8.8	11.3	12.2	12.2
20-21 Chemical and pharmaceutical products	761.5 e	764.0 e	832.0 e	974.3 e	411.6	580.4	626.2	625.7
20 Chemicals and chemical products	579.7 e	567.0 e	330.9 e	390.1 e	243.7	334.4	360.8	360.4
21 Pharmaceuticals, medicinal, chemical and botanical products	181.8	197.0	501.1	584.2	167.9	246.1	265.5	265.3
22 Rubber and plastic products	16.6	37.9	30.6	39.1	12.8	19.6	21.2	21.1
23 Other non-metallic mineral products	73.7	31.2	25.9	21.1	49.1	48.2	52.0	52.0
24-25 Basic metals, metal products, except machinery and equipment	359.2	288.8	269.4	278.5	169.3	139.6	150.6	150.5
24 Basic metals	194.5 e	155.8 e	72.1 e	105.6 e	26.4	32.1	34.7	34.6
25 Fabricated metal products, except machinery and equipment	164.7 e	133.1 e	197.3 e	173.0 e	142.9	107.4	115.9	115.8
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	550.1 e	757.5 e	367.3 e	432.7 e	465.9 e	666.6 e	719.3 e	718.6 e
26 Computer, electronic and optical products	33.8 e	42.3 e	15.4 e	17.4 e	53.2 e	87.6 e	94.5 e	94.4 e
27 Electrical equipment	21.6 e	29.0 e	21.6 e	24.0 e	20.8	27.0	29.1	29.1
28 Machinery and equipment n.e.c.	87.5 e	171.1 e	69.6 e	60.1 e	40.6	58.7	63.3	63.3
29 Motor vehicles, trailers and semi-trailers	395.7 e	493.8 e	244.3 e	307.1 e	330.8	465.8	502.5	502.1
30 Other transport equipment	11.4 e	21.3 e	16.3 e	24.1 e	20.4	27.6	29.7	29.7
31-33 Furniture; repair, installation of machinery and equipment	10.3 e	7.9 e	3.0 e	4.0 e	4.7	8.2	8.9	8.9
31 Furniture	..	..	..	..	2.4	4.1	4.5	4.5
32 Other manufacturing	..	..	..	..	2.3	4.1	4.4	4.4
33 Repair and installation of machinery and equipment	..	..	..	..	0.0	0.0	0.0	0.0
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>13.5 e</b>	<b>14.6 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>10.4</b>	<b>17.2</b>	<b>18.5</b>	<b>18.5</b>
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>6.6 e</b>	<b>9.4 e</b>	<b>104.5 e</b>	<b>1.6 e</b>	<b>6.3</b>	<b>12.3</b>	<b>13.2</b>	<b>13.2</b>
<b>45-99 TOTAL SERVICES</b>	<b>497.7 e</b>	<b>661.0 e</b>	<b>1 382.0 e</b>	<b>1 357.6 e</b>	<b>1 564.4</b>	<b>1 419.8</b>	<b>1 531.9</b>	<b>1 530.6</b>
<b>45-82 Business sector services</b>	<b>155.0 e</b>	<b>215.3 e</b>	<b>1 026.0 e</b>	<b>967.0 e</b>	<b>1 035.1 e</b>	<b>830.4 e</b>	<b>896.0 e</b>	<b>895.2 e</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>49-53 Transportation and storage</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>21.5</b>	<b>185.5</b>	<b>200.1</b>	<b>199.9</b>
<b>55-56 Accommodation and food service activities</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>1.1 e</b>	<b>1.7 e</b>	<b>1.9 e</b>	<b>1.9 e</b>
<b>58-63 Information and communication</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>458.6 e</b>	<b>248.5 e</b>	<b>268.1 e</b>	<b>267.9 e</b>
58-60 Publishing, audiovisual and broadcasting activities	..	..	..	..	..	..	..	..
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	..	..	..	..	..	..	..	..
62-63 IT and other information services	..	..	..	..	..	..	..	..
62 Computer programming, consultancy and related activities	..	..	..	..	..	..	..	..
63 Information service activities	..	..	..	..	..	..	..	..
<b>64-66 Financial and insurance activities</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>427.7</b>	<b>245.6</b>	<b>265.0</b>	<b>264.8</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>126.3 e</b>	<b>149.1 e</b>	<b>160.8 e</b>	<b>160.7 e</b>
68 Real estate activities	..	..	..	..	10.7	12.9	13.9	13.9
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	..	..	..	..	..	..
72 Scientific research and development	63.1 e	63.5 e	419.7 e	362.6 e	90.5 e	115.3 e	127.3 e	132.1 e
77-82 Administrative and support service activities	..	..	..	..	..	..	..	..
84-99 Community, social and personal services	342.7 e	445.8 e	356.0 e	390.6 e	529.3 e	589.4 e	635.9 e	635.4 e
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	529.3	589.4	635.9	635.4

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# MEXICO

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>2 790.4</b>	<b>3 138.9</b>	<b>3 274.2</b>	<b>3 238.7</b>	<b>2 742.2</b>	<b>2 990.0</b>	<b>3 126.3</b>	<b>3 184.9</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>5.6 e</b>	<b>20.3 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>05-09 MINING AND QUARRYING</b>	<b>88.2 e</b>	<b>102.4 e</b>	<b>36.4 e</b>	<b>48.3 e</b>	<b>5.6</b>	<b>26.3</b>	<b>27.5</b>	<b>28.0</b>
<b>10-33 MANUFACTURING</b>	<b>2 151.8 e</b>	<b>2 322.9 e</b>	<b>1 751.2 e</b>	<b>1 899.6 e</b>	<b>1 246.5</b>	<b>1 615.6</b>	<b>1 689.3</b>	<b>1 721.0</b>
10-12 Food products, beverages and tobacco	192.0	259.7	149.7	164.4	141.9	189.4	198.0	201.7
13-15 Textiles, wearing apparel, leather and related products	34.2	111.6	41.4	39.5	23.3	26.0	27.2	27.7
13 Textiles	28.2 e	100.5 e	19.8 e	21.4 e	22.9	25.7	26.8	27.3
14 Wearing apparel	0.8 e	1.3 e	1.8 e	0.0 e	0.3	0.3	0.3	0.3
15 Leather and related products, footwear	5.3 e	9.7 e	19.8 e	18.1 e	0.1	0.1	0.1	0.1
16-18 Wood and paper products and printing	52.0	31.8	21.7	21.2	23.7	29.1	30.4	31.0
16 Wood and wood products, except furniture	3.6 e	2.7 e	4.9 e	4.6 e	2.9	6.1	6.4	6.5
17 Paper and paper products	48.1 e	27.5 e	16.2 e	16.3 e	15.5	20.0	20.9	21.3
18 Printing and reproduction of recorded media	0.3 e	1.5 e	0.6 e	0.2 e	5.3	3.0	3.1	3.1
19-23 Chemical, rubber, plastic, non-metallic mineral products	906.1 e	852.7 e	898.6 e	995.3 e	454.5	613.6	641.5	653.6
19 Coke and refined petroleum products	9.8	9.4	10.2	12.8	8.3	10.6	11.0	11.2
20-21 Chemical and pharmaceutical products	801.3 e	773.4 e	832.0 e	925.2 e	387.9	539.9	564.5	575.1
20 Chemicals and chemical products	610.0 e	574.0 e	330.9 e	370.4 e	229.6	311.0	325.2	331.3
21 Pharmaceuticals, medicinal, chemical and botanical products	191.3	199.4	501.1	554.8	158.3	228.9	239.3	243.8
22 Rubber and plastic products	17.5	38.4	30.6	37.1	12.1	18.2	19.1	19.4
23 Other non-metallic mineral products	77.5	31.6	25.9	20.0	46.3	44.9	46.9	47.8
24-25 Basic metals, metal products, except machinery and equipment	377.9	292.4	269.4	264.5	159.6	129.8	135.7	138.3
24 Basic metals	204.7 e	157.7 e	72.1 e	100.3 e	24.9	29.9	31.3	31.8
25 Fabricated metal products, except machinery and equipment	173.3 e	134.7 e	197.3 e	164.3 e	134.7	99.9	104.5	106.4
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	578.8 e	766.8 e	367.3 e	411.0 e	439.0 e	620.1 e	648.4 e	660.5 e
26 Computer, electronic and optical products	35.5 e	42.9 e	15.4 e	16.5 e	50.2 e	81.5 e	85.2 e	86.8 e
27 Electrical equipment	22.8 e	29.3 e	21.6 e	22.8 e	19.6	25.1	26.3	26.7
28 Machinery and equipment n.e.c.	92.1 e	173.2 e	69.6 e	57.1 e	38.3	54.6	57.1	58.2
29 Motor vehicles, trailers and semi-trailers	416.4 e	499.8 e	244.3 e	291.7 e	311.8	433.3	453.0	461.5
30 Other transport equipment	12.0 e	21.6 e	16.3 e	22.9 e	19.2	25.6	26.8	27.3
31-33 Furniture; repair, installation of machinery and equipment	10.8 e	8.0 e	3.0 e	3.8 e	4.5	7.6	8.0	8.1
31 Furniture	..	..	..	..	2.3	3.8	4.0	4.1
32 Other manufacturing	..	..	..	..	2.2	3.8	4.0	4.1
33 Repair and installation of machinery and equipment	..	..	..	..	0.0	0.0	0.0	0.0
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>14.2 e</b>	<b>14.7 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>9.8</b>	<b>16.0</b>	<b>16.7</b>	<b>17.0</b>
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>7.0 e</b>	<b>9.5 e</b>	<b>104.5 e</b>	<b>1.5 e</b>	<b>5.9</b>	<b>11.4</b>	<b>11.9</b>	<b>12.1</b>
<b>45-99 TOTAL SERVICES</b>	<b>523.6 e</b>	<b>669.1 e</b>	<b>1 382.0 e</b>	<b>1 289.3 e</b>	<b>1 474.3</b>	<b>1 320.7</b>	<b>1 380.9</b>	<b>1 406.8</b>
<b>45-82 Business sector services</b>	<b>163.1 e</b>	<b>217.9 e</b>	<b>1 026.0 e</b>	<b>918.3 e</b>	<b>975.5 e</b>	<b>772.5 e</b>	<b>807.7 e</b>	<b>822.8 e</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>49-53 Transportation and storage</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>20.3</b>	<b>172.5</b>	<b>180.4</b>	<b>183.8</b>
<b>55-56 Accommodation and food service activities</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>1.0 e</b>	<b>1.6 e</b>	<b>1.7 e</b>	<b>1.7 e</b>
<b>58-63 Information and communication</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>432.1 e</b>	<b>231.2 e</b>	<b>241.7 e</b>	<b>246.2 e</b>
58-60 Publishing, audiovisual and broadcasting activities	..	..	..	..	..	..	..	..
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	..	..	..	..	..	..	..	..
62-63 IT and other information services	..	..	..	..	..	..	..	..
62 Computer programming, consultancy and related activities	..	..	..	..	..	..	..	..
63 Information service activities	..	..	..	..	..	..	..	..
<b>64-66 Financial and insurance activities</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>403.1</b>	<b>228.5</b>	<b>238.9</b>	<b>243.4</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>119.0 e</b>	<b>138.7 e</b>	<b>145.0 e</b>	<b>147.7 e</b>
68 Real estate activities	..	..	..	..	10.1	12.0	12.6	12.8
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	..	..	..	..	..	..
72 Scientific research and development	66.4 e	64.2 e	419.7 e	344.3 e	85.3 e	107.3 e	114.8 e	121.4 e
77-82 Administrative and support service activities	..	..	..	..	..	..	..	..
84-99 Community, social and personal services	360.6 e	451.2 e	356.0 e	370.9 e	498.8 e	548.2 e	573.2 e	584.0 e
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	498.8	548.2	573.2	584.0

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# NETHERLANDS

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>6 208.0</b>	<b>5 783.1</b>	<b>6 121.1</b>	<b>8 278.9</b>	<b>8 585.1</b>	<b>8 888.9</b>	<b>9 267.4</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>75.5</b>	<b>77.9</b>	<b>96.2</b>	<b>210.7</b>	<b>173.7</b>	<b>175.7</b>	<b>214.4</b>	..
<b>05-09 MINING AND QUARRYING</b>	..	..	..	<b>34.9</b>	<b>70.7</b>	<b>72.5</b>	<b>85.8</b>	..
<b>10-33 MANUFACTURING</b>	<b>4 432.8</b>	<b>4 195.7</b>	<b>4 153.8</b>	<b>4 708.0</b>	<b>4 911.0</b>	<b>5 196.4</b>	<b>5 471.6</b>	..
10-12 Food products, beverages and tobacco	294.9	325.7	388.3	456.5	483.7	489.7	468.9	..
13-15 Textiles, wearing apparel, leather and related products	16.5	15.3	15.2	14.2	23.4	23.8	22.4	..
13 Textiles	14.2	13.0	12.9	13.0	19.3	16.9	16.8	..
14 Wearing apparel	0.0	0.0 e	0.0	0.6	0.5	1.0	1.2	..
15 Leather and related products, footwear	2.4	2.4 e	1.2	0.7	3.7	5.9	4.5	..
16-18 Wood and paper products and printing	34.2	35.4	24.6	25.6	29.8	29.0	39.2	..
16 Wood and wood products, except furniture	2.4	1.2	4.7	2.3	3.5	2.1	3.0	..
17 Paper and paper products	27.1	28.3	17.6	6.9	18.2	20.4	28.3	..
18 Printing and reproduction of recorded media	4.7	5.9	2.3	16.3	8.1	6.5	7.9	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	1 601.8	1 540.2	1 330.3	1 325.0	1 363.0	1 387.2	1 408.4	..
19 Coke and refined petroleum products	17.7	3.5	16.4	128.9	282.7	295.6	313.9	..
20-21 Chemical and pharmaceutical products	1 513.4	1 465.8	1 251.7	1 048.6	948.7	960.8	984.1	..
20 Chemicals and chemical products	986.1	984.3	803.6	664.1	630.7	655.6	664.7	..
21 Pharmaceuticals, medicinal, chemical and botanical products	527.3	481.5	448.1	384.5	318.0	305.2	319.4	..
22 Rubber and plastic products	47.2	48.4	43.4	117.4	102.5	106.9	89.7	..
23 Other non-metallic mineral products	23.6	22.4	18.8	30.0	29.1	23.9	20.8	..
24-25 Basic metals, metal products, except machinery and equipment	156.6 e	145.4 e	164.6 e	188.9	173.8	206.8	187.0	..
24 Basic metals	77.5 e	71.0 e	84.8 e	95.2	90.1	100.7	83.0	..
25 Fabricated metal products, except machinery and equipment	79.0	74.4	79.8	93.8	83.7	106.1	104.1	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	2 057.1	1 847.0	2 172.5	2 538.5	2 751.1	2 977.5	3 251.3	..
26 Computer, electronic and optical products	506.0	469.7	658.1	697.1	742.5	818.2	855.6	..
27 Electrical equipment	678.2	657.4	502.1	576.2	580.8	651.5	581.3	..
28 Machinery and equipment n.e.c.	745.5	607.8	855.2	979.1	1 136.3	1 196.3	1 500.0	..
29 Motor vehicles, trailers and semi-trailers	86.1	73.2	83.3	170.4	168.9	183.0	188.5	..
30 Other transport equipment	41.3	40.1	72.7	115.7	122.7	128.6	126.0	..
31-33 Furniture; repair, installation of machinery and equipment	271.6 e	286.6 e	58.3 e	159.2	86.2	82.5	94.3	..
31 Furniture	13.0	11.8	11.7	105.3	14.7	8.1	14.2	..
32 Other manufacturing	238.3	256.1	24.3 e	26.6	37.6	35.5	32.4	..
33 Repair and installation of machinery and equipment	20.4 e	18.7 e	22.3	27.3	33.9	38.8	47.7	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	..	..	..	<b>49.1</b>	<b>37.9</b>	<b>27.2</b>	<b>51.6</b>	..
35-36 Electricity, gas and water	..	..	..	25.7	18.9	14.4	27.3	..
37-39 Sewerage, waste management and remediation activities	..	..	..	23.4	18.9	12.8	24.3	..
<b>41-43 CONSTRUCTION</b>	<b>27.1</b>	<b>38.9</b>	<b>63.3</b>	<b>124.2</b>	<b>158.9</b>	<b>133.5</b>	<b>139.5</b>	..
<b>45-99 TOTAL SERVICES</b>	..	..	..	<b>3 152.1</b>	<b>3 232.9</b>	<b>3 283.5</b>	<b>3 304.5</b>	..
<b>45-82 Business sector services</b>	<b>1 539.3</b>	<b>1 341.9</b>	<b>1 739.7</b>	<b>3 138.2</b>	<b>3 196.8</b>	<b>3 247.0</b>	<b>3 274.7</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>222.9</b>	<b>218.3</b>	<b>393.0</b>	<b>465.5</b>	<b>513.6</b>	<b>495.3</b>	<b>522.8</b>	..
<b>49-53 Transportation and storage</b>	<b>23.6</b>	<b>46.0</b>	<b>19.9</b>	<b>140.7</b>	<b>142.1</b>	<b>122.0</b>	<b>130.9</b>	..
<b>55-56 Accommodation and food service activities</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>13.1</b>	<b>2.7</b>	<b>2.2</b>	<b>1.6</b>	..
<b>58-63 Information and communication</b>	<b>370.4</b>	<b>413.1</b>	<b>674.5</b>	<b>944.7</b>	<b>929.2</b>	<b>925.6</b>	<b>1 004.0</b>	..
58-60 Publishing, audiovisual and broadcasting activities	29.5	26.0	7.0	28.8	34.6	24.8	31.8	..
58 Publishing activities	..	..	..	17.6	20.2	16.5	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	11.3	14.4	8.2	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	9.3	14.1	7.9	..	..
60 Programming and broadcasting activities	..	..	..	2.0	0.3	0.3	..	..
61 Telecommunications	18.9	18.9	61.0	76.1	61.4	38.9	60.4	..
62-63 IT and other information services	322.0	368.2	607.6	839.7	833.1	861.9	911.8	..
62 Computer programming, consultancy and related activities	320.8	368.2	583.0	769.3	794.7	814.6	832.8	..
63 Information service activities	1.2	0.0	24.6	70.4	38.4	47.3	79.0	..
<b>64-66 Financial and insurance activities</b>	<b>299.6</b>	<b>23.6</b>	<b>29.3</b>	<b>240.7</b>	<b>329.0</b>	<b>321.9</b>	<b>244.6</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>622.8</b>	<b>640.9 e</b>	<b>621.7</b>	<b>1 333.5</b>	<b>1 280.2</b>	<b>1 380.1</b>	<b>1 370.9</b>	..
68 Real estate activities	22.4	0.0 e	0.0 e	8.1	5.1	5.9	7.4	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	227.7	174.7	272.2	756.2	633.4	621.8	587.3	..
72 Scientific research and development	362.1	440.2	330.8	453.3	537.5	603.5	629.0	..
77-82 Administrative and support service activities	10.6	26.0 e	18.8	115.8	104.2	148.9	147.2	..
84-99 Community, social and personal services	..	..	..	13.9	36.1	36.4	29.8	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

Disclaimer: <http://oe.cd/disclaimer>

# NETHERLANDS

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>6 251.1</b>	<b>5 796.8</b>	<b>6 121.1</b>	<b>8 108.2</b>	<b>8 174.7</b>	<b>8 083.9</b>	<b>8 457.1</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>76.0</b>	<b>78.1</b>	<b>96.2</b>	<b>206.4</b>	<b>165.4</b>	<b>159.8</b>	<b>195.7</b>	..
<b>05-09 MINING AND QUARRYING</b>	..	..	..	<b>34.2</b>	<b>67.3</b>	<b>66.0</b>	<b>78.3</b>	..
<b>10-33 MANUFACTURING</b>	<b>4 463.5</b>	<b>4 205.6</b>	<b>4 153.8</b>	<b>4 610.8</b>	<b>4 676.3</b>	<b>4 725.8</b>	<b>4 993.2</b>	..
10-12 Food products, beverages and tobacco	296.9	326.5	388.3	447.1	460.6	445.4	427.9	..
13-15 Textiles, wearing apparel, leather and related products	16.6	15.4	15.2	14.0	22.3	21.6	20.5	..
13 Textiles	14.3	13.0	12.9	12.7	18.4	15.3	15.4	..
14 Wearing apparel	0.0	0.0 e	0.0	0.5	0.4	0.9	1.1	..
15 Leather and related products, footwear	2.4	2.4 e	1.2	0.7	3.5	5.3	4.1	..
16-18 Wood and paper products and printing	34.4	35.5	24.6	25.0	28.4	26.3	35.8	..
16 Wood and wood products, except furniture	2.4	1.2	4.7	2.3	3.3	1.9	2.7	..
17 Paper and paper products	27.3	28.4	17.6	6.8	17.3	18.5	25.8	..
18 Printing and reproduction of recorded media	4.8	5.9	2.3	16.0	7.8	5.9	7.2	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	1 613.0	1 543.8	1 330.3	1 297.7	1 297.8	1 261.6	1 285.3	..
19 Coke and refined petroleum products	17.8	3.5	16.4	126.3	269.2	268.8	286.5	..
20-21 Chemical and pharmaceutical products	1 523.9	1 469.3	1 251.7	1 027.0	903.4	873.8	898.0	..
20 Chemicals and chemical products	993.0	986.6	803.6	650.4	600.6	596.2	606.6	..
21 Pharmaceuticals, medicinal, chemical and botanical products	530.9	482.7	448.1	376.6	302.8	277.6	291.4	..
22 Rubber and plastic products	47.5	48.5	43.4	115.0	97.6	97.2	81.8	..
23 Other non-metallic mineral products	23.8	22.5	18.8	29.4	27.7	21.7	19.0	..
24-25 Basic metals, metal products, except machinery and equipment	157.6 e	145.7 e	164.6 e	185.0	165.5	188.1	170.7	..
24 Basic metals	78.1 e	71.2 e	84.8 e	93.2	85.8	91.6	75.7	..
25 Fabricated metal products, except machinery and equipment	79.6	74.5	79.8	91.8	79.7	96.5	95.0	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	2 071.4	1 851.4	2 172.5	2 486.1	2 619.6	2 707.8	2 967.0	..
26 Computer, electronic and optical products	509.5	470.8	658.1	682.7	707.0	744.1	780.7	..
27 Electrical equipment	683.0	658.9	502.1	564.3	553.0	592.5	530.5	..
28 Machinery and equipment n.e.c.	750.7	609.3	855.2	958.9	1 081.9	1 087.9	1 368.8	..
29 Motor vehicles, trailers and semi-trailers	86.7	73.3	83.3	166.8	160.8	166.4	172.0	..
30 Other transport equipment	41.6	40.2	72.7	113.3	116.8	116.9	115.0	..
31-33 Furniture; repair, installation of machinery and equipment	273.5 e	287.3 e	58.3 e	155.9	82.1	75.0	86.1	..
31 Furniture	13.1	11.8	11.7	103.2	14.0	7.4	12.9	..
32 Other manufacturing	239.9	256.7	24.3 e	26.0	35.8	32.3	29.6	..
33 Repair and installation of machinery and equipment	20.5 e	18.7 e	22.3	26.7	32.3	35.3	43.6	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	..	..	..	<b>48.1</b>	<b>36.0</b>	<b>24.8</b>	<b>47.0</b>	..
35-36 Electricity, gas and water	..	..	..	25.2	18.0	13.1	24.9	..
37-39 Sewerage, waste management and remediation activities	..	..	..	22.9	18.0	11.7	22.2	..
<b>41-43 CONSTRUCTION</b>	<b>27.3</b>	<b>39.0</b>	<b>63.3</b>	<b>121.6</b>	<b>151.3</b>	<b>121.4</b>	<b>127.3</b>	..
<b>45-99 TOTAL SERVICES</b>	..	..	..	<b>3 087.1</b>	<b>3 078.4</b>	<b>2 986.1</b>	<b>3 015.5</b>	..
<b>45-82 Business sector services</b>	<b>1 550.0</b>	<b>1 345.1</b>	<b>1 739.7</b>	<b>3 073.5</b>	<b>3 044.0</b>	<b>2 953.0</b>	<b>2 988.3</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>224.5</b>	<b>218.9</b>	<b>393.0</b>	<b>455.9</b>	<b>489.0</b>	<b>450.4</b>	<b>477.1</b>	..
<b>49-53 Transportation and storage</b>	<b>23.8</b>	<b>46.1</b>	<b>19.9</b>	<b>137.8</b>	<b>135.3</b>	<b>111.0</b>	<b>119.4</b>	..
<b>55-56 Accommodation and food service activities</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>12.8</b>	<b>2.6</b>	<b>2.0</b>	<b>1.4</b>	..
<b>58-63 Information and communication</b>	<b>373.0</b>	<b>414.1</b>	<b>674.5</b>	<b>925.2</b>	<b>884.7</b>	<b>841.7</b>	<b>916.2</b>	..
58-60 Publishing, audiovisual and broadcasting activities	29.7	26.0	7.0	28.2	33.0	22.5	29.0	..
58 Publishing activities	..	..	..	17.2	19.2	15.0	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	11.0	13.7	7.5	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	9.1	13.4	7.2	..	..
60 Programming and broadcasting activities	..	..	..	2.0	0.3	0.3	..	..
61 Telecommunications	19.0	18.9	61.0	74.6	58.5	35.4	55.1	..
62-63 IT and other information services	324.3	369.1	607.6	822.4	793.3	783.9	832.1	..
62 Computer programming, consultancy and related activities	323.1	369.1	583.0	753.4	756.7	740.9	760.0	..
63 Information service activities	1.2	0.0	24.6	68.9	36.6	43.0	72.0	..
<b>64-66 Financial and insurance activities</b>	<b>301.7</b>	<b>23.7</b>	<b>29.3</b>	<b>235.8</b>	<b>313.3</b>	<b>292.7</b>	<b>223.3</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>627.1</b>	<b>642.4 e</b>	<b>621.7</b>	<b>1 306.0</b>	<b>1 219.0</b>	<b>1 255.1</b>	<b>1 251.0</b>	..
68 Real estate activities	22.6	0.0 e	0.0 e	8.0	4.8	5.4	6.7	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	229.2	175.1	272.2	740.6	603.1	565.5	536.0	..
72 Scientific research and development	364.6	441.3	330.8	444.0	511.8	548.9	574.0	..
77-82 Administrative and support service activities	10.7	26.0 e	18.8	113.4	99.3	135.4	134.4	..
84-99 Community, social and personal services	..	..	..	13.6	34.4	33.1	27.2	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# NEW ZEALAND

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>646.8 e</b>	<b>690.9</b>	<b>736.2 e</b>	<b>802.9</b>	<b>796.7 e</b>	<b>861.7</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>46.8 e</b>	<b>49.6</b>	<b>66.8 e</b>	<b>84.1</b>	<b>76.6 e</b>	<b>63.6</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	..	..	..	..	..	..	..	..
<b>10-33 MANUFACTURING</b>	<b>298.3 e</b>	<b>312.1</b>	<b>332.3 e</b>	<b>360.7</b>	<b>348.4 e</b>	<b>361.0</b>	..	..
10-12 Food products, beverages and tobacco	59.2 e	55.1	64.5 e	76.7	70.1 e	60.9	..	..
13-15 Textiles, wearing apparel, leather and related products	3.5 e	5.4	5.3 e	4.7	5.3 e	7.6	..	..
13 Textiles	..	..	..	..	..	..	..	..
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	..	..	..	..	..	..	..	..
16 Wood and wood products, except furniture	..	..	..	..	..	..	..	..
17 Paper and paper products	..	..	..	..	..	..	..	..
18 Printing and reproduction of recorded media	..	..	..	..	..	..	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	60.8 e	51.0	47.2 e	51.1	54.7 e	65.7	..	..
19 Coke and refined petroleum products	..	..	..	..	..	..	..	..
20-21 Chemical and pharmaceutical products	..	..	..	..	..	..	..	..
20 Chemicals and chemical products	..	..	..	..	..	..	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	..	..	..	..	..	..	..	..
22 Rubber and plastic products	..	..	..	..	..	..	..	..
23 Other non-metallic mineral products	2.3 e	2.0	2.3 e	2.7	2.2 e	1.4	..	..
24-25 Basic metals, metal products, except machinery and equipment	18.0 e	22.4	22.3 e	20.9	18.8 e	19.4	..	..
24 Basic metals	..	..	..	..	..	..	..	..
25 Fabricated metal products, except machinery and equipment	..	..	..	..	..	..	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	129.5 e	147.6	162.7 e	177.7	172.1 e	179.1	..	..
26 Computer, electronic and optical products	..	..	..	..	..	..	..	..
27 Electrical equipment	..	..	..	..	..	..	..	..
28 Machinery and equipment n.e.c.	..	..	..	..	..	..	..	..
29 Motor vehicles, trailers and semi-trailers	..	..	..	..	..	..	..	..
30 Other transport equipment	..	..	..	..	..	..	..	..
31-33 Furniture; repair, installation of machinery and equipment	..	..	..	..	..	..	..	..
31 Furniture	..	..	..	..	..	..	..	..
32 Other manufacturing	..	..	..	..	..	..	..	..
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	..	..	..	..	..	..	..	..
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	..	..	..	..	..	..	..	..
<b>45-99 TOTAL SERVICES</b>	<b>301.8 e</b>	<b>329.1</b>	<b>337.1 e</b>	<b>358.0</b>	<b>371.7 e</b>	<b>437.1</b>	..	..
<b>45-82 Business sector services</b>	..	..	..	..	..	..	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>37.5 e</b>	<b>38.1</b>	<b>47.3 e</b>	<b>59.9</b>	<b>62.1 e</b>	<b>66.4</b>	..	..
<b>49-53 Transportation and storage</b>	..	..	..	..	..	..	..	..
<b>55-56 Accommodation and food service activities</b>	..	..	..	..	..	..	..	..
<b>58-63 Information and communication</b>	..	..	..	..	..	..	..	..
58-60 Publishing, audiovisual and broadcasting activities	..	..	..	..	..	..	..	..
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	..	..	..	..	..	..	..	..
62-63 IT and other information services	124.8 e	136.0	137.3 e	148.7	167.0 e	215.1	..	..
62 Computer programming, consultancy and related activities	..	..	..	..	..	..	..	..
63 Information service activities	..	..	..	..	..	..	..	..
<b>64-66 Financial and insurance activities</b>	..	..	..	..	..	..	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	..	..	..	..	..	..	..
68 Real estate activities	..	..	..	..	..	..	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	..	..	..	..	..	..
72 Scientific research and development	35.8 e	34.7	33.4 e	34.3	34.5 e	39.4	..	..
77-82 Administrative and support service activities	..	..	..	..	..	..	..	..
84-99 Community, social and personal services	..	..	..	..	..	..	..	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

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# NEW ZEALAND

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>672.2 e</b>	<b>704.7</b>	<b>736.2 e</b>	<b>781.5</b>	<b>784.5 e</b>	<b>782.4</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>48.6 e</b>	<b>50.6</b>	<b>66.8 e</b>	<b>81.9</b>	<b>75.4 e</b>	<b>57.8</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	..	..	..	..	..	..	..	..
<b>10-33 MANUFACTURING</b>	<b>310.0 e</b>	<b>318.4</b>	<b>332.3 e</b>	<b>351.1</b>	<b>343.0 e</b>	<b>327.8</b>	..	..
10-12 Food products, beverages and tobacco	61.5 e	56.2	64.5 e	74.7	69.0 e	55.3	..	..
13-15 Textiles, wearing apparel, leather and related products	3.7 e	5.5	5.3 e	4.6	5.2 e	6.9	..	..
13 Textiles	..	..	..	..	..	..	..	..
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	..	..	..	..	..	..	..	..
16 Wood and wood products, except furniture	..	..	..	..	..	..	..	..
17 Paper and paper products	..	..	..	..	..	..	..	..
18 Printing and reproduction of recorded media	..	..	..	..	..	..	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	63.2 e	52.0	47.2 e	49.8	53.9 e	59.7	..	..
19 Coke and refined petroleum products	..	..	..	..	..	..	..	..
20-21 Chemical and pharmaceutical products	..	..	..	..	..	..	..	..
20 Chemicals and chemical products	..	..	..	..	..	..	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	..	..	..	..	..	..	..	..
22 Rubber and plastic products	..	..	..	..	..	..	..	..
23 Other non-metallic mineral products	2.4 e	2.1	2.3 e	2.6	2.1 e	1.3	..	..
24-25 Basic metals, metal products, except machinery and equipment	18.7 e	22.9	22.3 e	20.3	18.5 e	17.6	..	..
24 Basic metals	..	..	..	..	..	..	..	..
25 Fabricated metal products, except machinery and equipment	..	..	..	..	..	..	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	134.6 e	150.5	162.7 e	172.9	169.5 e	162.6	..	..
26 Computer, electronic and optical products	..	..	..	..	..	..	..	..
27 Electrical equipment	..	..	..	..	..	..	..	..
28 Machinery and equipment n.e.c.	..	..	..	..	..	..	..	..
29 Motor vehicles, trailers and semi-trailers	..	..	..	..	..	..	..	..
30 Other transport equipment	..	..	..	..	..	..	..	..
31-33 Furniture; repair, installation of machinery and equipment	..	..	..	..	..	..	..	..
31 Furniture	..	..	..	..	..	..	..	..
32 Other manufacturing	..	..	..	..	..	..	..	..
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	..	..	..	..	..	..	..	..
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	..	..	..	..	..	..	..	..
<b>45-99 TOTAL SERVICES</b>	<b>313.6 e</b>	<b>335.7</b>	<b>337.1 e</b>	<b>348.5</b>	<b>366.0 e</b>	<b>396.8</b>	..	..
<b>45-82 Business sector services</b>	..	..	..	..	..	..	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>39.0 e</b>	<b>38.8</b>	<b>47.3 e</b>	<b>58.3</b>	<b>61.1 e</b>	<b>60.3</b>	..	..
<b>49-53 Transportation and storage</b>	..	..	..	..	..	..	..	..
<b>55-56 Accommodation and food service activities</b>	..	..	..	..	..	..	..	..
<b>58-63 Information and communication</b>	..	..	..	..	..	..	..	..
58-60 Publishing, audiovisual and broadcasting activities	..	..	..	..	..	..	..	..
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	..	..	..	..	..	..	..	..
62-63 IT and other information services	129.7 e	138.7	137.3 e	144.8	164.4 e	195.3	..	..
62 Computer programming, consultancy and related activities	..	..	..	..	..	..	..	..
63 Information service activities	..	..	..	..	..	..	..	..
<b>64-66 Financial and insurance activities</b>	..	..	..	..	..	..	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	..	..	..	..	..	..	..
68 Real estate activities	..	..	..	..	..	..	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	..	..	..	..	..	..
72 Scientific research and development	37.2 e	35.4	33.4 e	33.4	34.0 e	35.8	..	..
77-82 Administrative and support service activities	..	..	..	..	..	..	..	..
84-99 Community, social and personal services	..	..	..	..	..	..	..	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# NORWAY

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>2 432.3</b>	<b>2 380.9</b>	<b>2 398.7</b>	<b>2 610.4</b>	<b>2 779.1</b>	<b>2 949.9</b>	<b>3 108.1</b>	<b>3 351.0</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>35.7</b>	<b>32.9</b>	<b>38.2</b>	<b>32.3</b>	<b>32.9</b>	<b>35.3</b>	<b>56.2</b>	<b>75.9</b>
<b>05-09 MINING AND QUARRYING</b>	<b>141.7</b>	<b>133.7</b>	<b>142.1</b>	<b>135.0</b>	<b>177.7</b>	<b>229.6</b>	<b>209.3</b>	<b>181.6</b>
<b>10-33 MANUFACTURING</b>	<b>897.5</b>	<b>868.5</b>	<b>766.1</b>	<b>853.6</b>	<b>892.6</b>	<b>921.4</b>	<b>984.1</b>	<b>1 043.9</b>
10-12 Food products, beverages and tobacco	69.6	76.5	61.8	63.9	72.2	69.6	78.9	109.2
13-15 Textiles, wearing apparel, leather and related products	8.2	7.0	7.4	8.7	7.9	6.8	7.5	8.1
13 Textiles	4.6	4.0	4.2	5.5	5.6	5.4	5.9	6.5
14 Wearing apparel	..	..	3.0	3.1 e	2.3 e	1.4 e	1.6 e	1.6
15 Leather and related products, footwear	..	..	0.1	0.1 e	0.1 e	0.0 e	0.0 e	0.0
16-18 Wood and paper products and printing	25.7	26.1	23.6	30.3	24.4	23.4	23.7	26.3
16 Wood and wood products, except furniture	4.5	4.4	5.8	6.8	7.2	7.3	6.1	8.9
17 Paper and paper products	16.1	16.8	14.1	20.7	13.7	12.4	13.6	12.8
18 Printing and reproduction of recorded media	5.0	4.9	3.7	2.8	3.4	3.7	4.0	4.6
19-23 Chemical, rubber, plastic, non-metallic mineral products	195.7	191.3	173.1	194.5	167.1	168.1	164.8	158.0
19 Coke and refined petroleum products	..	..	..	..	..	..	..	0.0
20-21 Chemical and pharmaceutical products	..	..	..	..	..	..	..	132.0
20 Chemicals and chemical products	..	..	..	..	..	..	..	97.9
21 Pharmaceuticals, medicinal, chemical and botanical products	56.1	50.3	53.9	79.3	43.4	42.5	36.7	34.1
22 Rubber and plastic products	9.4	7.6	11.4	9.7	13.8	14.4	15.3	15.8
23 Other non-metallic mineral products	9.3	9.1	10.0	12.9	12.2	12.6	11.4	10.3
24-25 Basic metals, metal products, except machinery and equipment	104.1	109.2	116.0	126.1	150.0	150.6	161.1	193.4
24 Basic metals	45.3	38.5	35.3	24.7	33.2	34.0	32.9	53.1
25 Fabricated metal products, except machinery and equipment	58.7	70.7	80.8	101.4	116.8	116.6	128.2	140.3
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	447.9	416.9	343.2	388.6	421.4	452.4	497.5	487.9
26 Computer, electronic and optical products	211.3	206.7	166.8	183.6	182.5	180.9	194.9	201.8
27 Electrical equipment	42.4	44.6	39.2	41.4	46.1	51.8	60.4	54.9
28 Machinery and equipment n.e.c.	119.0	86.9	82.6	100.0	112.1	138.2	150.4	140.1
29 Motor vehicles, trailers and semi-trailers	30.4	28.6	13.3	22.8	23.8	25.8	30.1	17.5
30 Other transport equipment	44.8	50.0	41.4	40.9	56.8	55.7	61.7	73.7
31-33 Furniture; repair, installation of machinery and equipment	46.3	41.5	41.0	41.5	49.5	50.4	50.5	61.0
31 Furniture	10.1	10.2	13.2	12.8	14.6	16.5	16.9	14.8
32 Other manufacturing	15.5	12.6	12.3	11.9	14.2	12.5	13.9	16.9
33 Repair and installation of machinery and equipment	20.6	18.7	15.5	16.8	20.7	21.4	19.8	29.2
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>15.7</b>	<b>19.5</b>	<b>23.9</b>	<b>22.3</b>	<b>25.5</b>	<b>24.5</b>	<b>24.4</b>	<b>31.2</b>
35-36 Electricity, gas and water	12.1	16.7 e	15.9 e	16.3 e	16.3 e	15.9 e	15.2	17.9
37-39 Sewerage, waste management and remediation activities	3.6	2.8	8.1	5.9	9.2	8.7	9.2	13.3
<b>41-43 CONSTRUCTION</b>	<b>20.2</b>	<b>15.5</b>	<b>15.0</b>	<b>12.4</b>	<b>12.6</b>	<b>19.0</b>	<b>22.2</b>	<b>25.0</b>
<b>45-99 TOTAL SERVICES</b>	<b>1 321.4</b>	<b>1 310.8</b>	<b>1 413.2</b>	<b>1 554.7</b>	<b>1 637.9</b>	<b>1 720.1</b>	<b>1 812.0</b>	<b>1 993.4</b>
<b>45-82 Business sector services</b>	<b>1 321.4 e</b>	<b>1 310.8 e</b>	<b>1 413.2 e</b>	<b>1 554.7 e</b>	<b>1 637.9 e</b>	<b>1 720.1 e</b>	<b>1 812.0 e</b>	<b>1 993.4 e</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>59.8</b>	<b>66.9</b>	<b>48.9</b>	<b>62.6</b>	<b>58.1</b>	<b>75.8</b>	<b>81.6</b>	<b>81.2</b>
<b>49-53 Transportation and storage</b>	<b>13.1</b>	<b>12.5</b>	<b>17.2</b>	<b>16.2</b>	<b>21.2</b>	<b>20.0</b>	<b>21.8</b>	<b>39.7</b>
<b>55-56 Accommodation and food service activities</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>
<b>58-63 Information and communication</b>	<b>470.7</b>	<b>463.5</b>	<b>513.2</b>	<b>556.7</b>	<b>616.0</b>	<b>672.1</b>	<b>714.5</b>	<b>823.5</b>
58-60 Publishing, audiovisual and broadcasting activities	146.8	150.5	158.8	165.6	160.9	158.5	207.1	257.0
58 Publishing activities	146.5	148.3	157.7	164.4	159.3	155.3	203.7	254.4
59-60 Motion picture, video and TV programme production; broadcasting activities	0.3	2.2	1.1	1.2	1.6	3.2	3.4	2.7
59 Motion picture, video and TV programme production; sound and music	..	..	1.0	1.2 e	1.6 e	3.2 e	3.3 e	2.7
60 Programming and broadcasting activities	..	..	0.1	0.0 e	0.0 e	0.0 e	0.0 e	0.0
61 Telecommunications	73.5	83.7	88.4	78.1	79.2	79.3	88.1	101.8
62-63 IT and other information services	250.3	229.3	266.1	313.0	375.9	434.3	419.4	464.7
62 Computer programming, consultancy and related activities	238.3	217.9	253.0	298.3	344.3	407.2	387.6	434.2
63 Information service activities	12.1	11.5	13.1	14.6	31.6	27.0	31.8	30.4
<b>64-66 Financial and insurance activities</b>	<b>114.5</b>	<b>111.0</b>	<b>111.7</b>	<b>145.9</b>	<b>138.5</b>	<b>151.1</b>	<b>149.1</b>	<b>145.2</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>663.3</b>	<b>656.9</b>	<b>722.2</b>	<b>773.4</b>	<b>804.2</b>	<b>801.1</b>	<b>845.0</b>	<b>903.8</b>
68 Real estate activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69-75x72 Professional, scientific and technical activities, except scientific R&D	240.4	236.3	286.2	306.6	287.1	280.1	330.1	349.1
72 Scientific research and development	408.5	410.9	421.7	448.3	502.1	506.8	508.6	545.6
77-82 Administrative and support service activities	14.4	9.7	14.3	18.5	15.0	14.2	6.3	9.1
84-99 Community, social and personal services	..	..	..	..	..	..	..	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# NORWAY

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>2 513.4</b>	<b>2 449.5</b>	<b>2 398.7</b>	<b>2 519.0</b>	<b>2 602.9</b>	<b>2 689.0</b>	<b>2 845.1</b>	<b>3 117.1</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>36.9</b>	<b>33.9</b>	<b>38.2</b>	<b>31.2</b>	<b>30.8</b>	<b>32.2</b>	<b>51.4</b>	<b>70.6</b>
<b>05-09 MINING AND QUARRYING</b>	<b>146.4</b>	<b>137.6</b>	<b>142.1</b>	<b>130.3</b>	<b>166.4</b>	<b>209.3</b>	<b>191.6</b>	<b>168.9</b>
<b>10-33 MANUFACTURING</b>	<b>927.4</b>	<b>893.5</b>	<b>766.1</b>	<b>823.8</b>	<b>836.0</b>	<b>839.9</b>	<b>900.9</b>	<b>971.1</b>
10-12 Food products, beverages and tobacco	71.9	78.7	61.8	61.7	67.6	63.5	72.2	101.6
13-15 Textiles, wearing apparel, leather and related products	8.5	7.2	7.4	8.4	7.4	6.2	6.9	7.6
13 Textiles	4.8	4.1	4.2	5.3	5.2	4.9	5.4	6.1
14 Wearing apparel	..	..	3.0	2.9 e	2.2 e	1.3 e	1.4 e	1.5
15 Leather and related products, footwear	..	..	0.1	0.1 e	0.1 e	0.0 e	0.0 e	0.0
16-18 Wood and paper products and printing	26.5	26.9	23.6	29.2	22.8	21.3	21.7	24.4
16 Wood and wood products, except furniture	4.7	4.5	5.8	6.6	6.8	6.7	5.6	8.3
17 Paper and paper products	16.6	17.3	14.1	20.0	12.9	11.3	12.5	11.9
18 Printing and reproduction of recorded media	5.2	5.0	3.7	2.7	3.2	3.3	3.7	4.3
19-23 Chemical, rubber, plastic, non-metallic mineral products	202.2	196.8	173.1	187.7	156.5	153.2	150.9	147.0
19 Coke and refined petroleum products	..	..	..	..	..	..	..	0.0
20-21 Chemical and pharmaceutical products	..	..	..	..	..	..	..	122.8
20 Chemicals and chemical products	..	..	..	..	..	..	..	91.1
21 Pharmaceuticals, medicinal, chemical and botanical products	58.0	51.8	53.9	76.6	40.6	38.7	33.6	31.7
22 Rubber and plastic products	9.7	7.8	11.4	9.4	12.9	13.1	14.0	14.7
23 Other non-metallic mineral products	9.6	9.3	10.0	12.4	11.5	11.4	10.5	9.6
24-25 Basic metals, metal products, except machinery and equipment	107.5	112.3	116.0	121.7	140.5	137.3	147.5	179.9
24 Basic metals	46.9	39.6	35.3	23.8	31.1	31.0	30.1	49.4
25 Fabricated metal products, except machinery and equipment	60.7	72.7	80.8	97.9	109.4	106.3	117.4	130.5
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	462.9	428.9	343.2	375.0	394.6	412.4	455.4	453.9
26 Computer, electronic and optical products	218.3	212.7	166.8	177.2	170.9	164.9	178.4	187.7
27 Electrical equipment	43.9	45.9	39.2	40.0	43.2	47.2	55.3	51.1
28 Machinery and equipment n.e.c.	123.0	89.4	82.6	96.5	105.0	126.0	137.7	130.3
29 Motor vehicles, trailers and semi-trailers	31.4	29.4	13.3	22.0	22.3	23.5	27.5	16.3
30 Other transport equipment	46.3	51.5	41.4	39.4	53.2	50.7	56.5	68.6
31-33 Furniture; repair, installation of machinery and equipment	47.8	42.7	41.0	40.1	46.4	46.0	46.3	56.7
31 Furniture	10.5	10.5	13.2	12.4	13.6	15.0	15.4	13.8
32 Other manufacturing	16.1	13.0	12.3	11.5	13.3	11.4	12.7	15.7
33 Repair and installation of machinery and equipment	21.3	19.3	15.5	16.2	19.4	19.5	18.1	27.2
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>16.3</b>	<b>20.1</b>	<b>23.9</b>	<b>21.5</b>	<b>23.9</b>	<b>22.4</b>	<b>22.3</b>	<b>29.0</b>
35-36 Electricity, gas and water	12.5	17.2 e	15.9 e	15.8 e	15.3 e	14.5 e	13.9	16.6
37-39 Sewerage, waste management and remediation activities	3.8	2.8	8.1	5.7	8.6	7.9	8.4	12.4
<b>41-43 CONSTRUCTION</b>	<b>20.9</b>	<b>15.9</b>	<b>15.0</b>	<b>12.0</b>	<b>11.8</b>	<b>17.3</b>	<b>20.3</b>	<b>23.2</b>
<b>45-99 TOTAL SERVICES</b>	<b>1 365.4</b>	<b>1 348.6</b>	<b>1 413.2</b>	<b>1 500.3</b>	<b>1 534.1</b>	<b>1 568.0</b>	<b>1 658.6</b>	<b>1 854.3</b>
<b>45-82 Business sector services</b>	<b>1 365.4 e</b>	<b>1 348.6 e</b>	<b>1 413.2 e</b>	<b>1 500.3 e</b>	<b>1 534.1 e</b>	<b>1 568.0 e</b>	<b>1 658.6 e</b>	<b>1 854.3 e</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>61.8</b>	<b>68.8</b>	<b>48.9</b>	<b>60.4</b>	<b>54.4</b>	<b>69.1</b>	<b>74.7</b>	<b>75.6</b>
<b>49-53 Transportation and storage</b>	<b>13.5</b>	<b>12.9</b>	<b>17.2</b>	<b>15.6</b>	<b>19.8</b>	<b>18.2</b>	<b>19.9</b>	<b>36.9</b>
<b>55-56 Accommodation and food service activities</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>
<b>58-63 Information and communication</b>	<b>486.4</b>	<b>476.9</b>	<b>513.2</b>	<b>537.2</b>	<b>577.0</b>	<b>612.6</b>	<b>654.0</b>	<b>766.0</b>
58-60 Publishing, audiovisual and broadcasting activities	151.7	154.9	158.8	159.8	150.7	144.5	189.5	239.1
58 Publishing activities	151.4	152.6	157.7	158.6	149.2	141.6	186.5	236.6
59-60 Motion picture, video and TV programme production; broadcasting activities	0.3	2.3	1.1	1.2	1.5	2.9	3.1	2.5
59 Motion picture, video and TV programme production; sound and music	..	..	1.0	1.1 e	1.5 e	2.9 e	3.1 e	2.5
60 Programming and broadcasting activities	..	..	0.1	0.0 e	0.0 e	0.0 e	0.0 e	0.0
61 Telecommunications	76.0	86.1	88.4	75.3	74.2	72.3	80.6	94.7
62-63 IT and other information services	258.7	235.9	266.1	302.0	352.1	395.8	383.9	432.2
62 Computer programming, consultancy and related activities	246.2	224.1	253.0	287.9	322.4	371.2	354.8	403.9
63 Information service activities	12.5	11.8	13.1	14.1	29.6	24.6	29.1	28.3
<b>64-66 Financial and insurance activities</b>	<b>118.3</b>	<b>114.2</b>	<b>111.7</b>	<b>140.8</b>	<b>129.7</b>	<b>137.8</b>	<b>136.5</b>	<b>135.0</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>685.4</b>	<b>675.8</b>	<b>722.2</b>	<b>746.3</b>	<b>753.2</b>	<b>730.3</b>	<b>773.5</b>	<b>840.8</b>
68 Real estate activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69-75x72 Professional, scientific and technical activities, except scientific R&D	248.4	243.1	286.2	295.9	268.9	255.3	302.1	324.8
72 Scientific research and development	422.1	422.7	421.7	432.6	470.2	462.0	465.5	507.5
77-82 Administrative and support service activities	14.8	9.9	14.3	17.8	14.1	13.0	5.8	8.5
84-99 Community, social and personal services	..	..	..	..	..	..	..	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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POLAND

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>1 293.9</b>	<b>1 384.5</b>	<b>1 539.6</b>	<b>1 954.9</b>	<b>2 973.6</b>	<b>3 570.4</b>	<b>4 280.0</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>9.6</b>	<b>11.0</b>	<b>12.2</b>	<b>15.0</b>	<b>18.5</b>	<b>17.7</b>	<b>19.3</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>0.4 e</b>	<b>0.5 e</b>	<b>0.6</b>	<b>10.5 e</b>	<b>122.3 e</b>	<b>149.6 e</b>	<b>64.8 e</b>	..
<b>10-33 MANUFACTURING</b>	<b>617.8</b>	<b>803.8</b>	<b>783.7</b>	<b>960.9</b>	<b>1 429.5</b>	<b>1 572.9</b>	<b>1 952.5</b>	..
10-12 Food products, beverages and tobacco	49.3	94.5	58.6	35.4	33.3	79.3	232.8	..
13-15 Textiles, wearing apparel, leather and related products	12.9	6.4	8.1	9.1	12.6	14.8	21.4	..
13 Textiles	12.1	5.4	6.3 e	7.5	7.6	12.3	18.0	..
14 Wearing apparel	0.6 e	0.6 e	1.0	1.1 e	3.7	2.0	2.7 e	..
15 Leather and related products, footwear	0.2 e	0.4 e	0.8 e	0.5 e	1.3	0.5	0.7 e	..
16-18 Wood and paper products and printing	7.4	11.4	17.5	19.5	24.7	40.2	29.9	..
16 Wood and wood products, except furniture	3.4	3.7	4.3	6.3 e	8.7	13.0	7.3	..
17 Paper and paper products	..	..	..	8.3	3.2	3.6	10.5	..
18 Printing and reproduction of recorded media	..	..	..	4.9 e	12.7	23.6	12.2	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	173.8	153.3	203.6 e	240.9	322.0	322.4	362.0	..
19 Coke and refined petroleum products	3.0	3.1	2.8 e	2.4	5.0	10.4 e	6.2 e	..
20-21 Chemical and pharmaceutical products	145.9	121.6	142.0	162.9	222.9	227.6	233.4	..
20 Chemicals and chemical products	44.7	36.4	55.8	70.1	78.7	104.8 e	82.1	..
21 Pharmaceuticals, medicinal, chemical and botanical products	101.2	85.3	86.2	92.9	144.1	122.8	151.3	..
22 Rubber and plastic products	16.7	10.3	33.9 e	57.1	62.2	57.8	88.4	..
23 Other non-metallic mineral products	8.1	18.3	24.9	18.4	31.9	26.7	34.0 e	..
24-25 Basic metals, metal products, except machinery and equipment	44.6	50.0	72.8	119.1	174.3	212.9	248.5	..
24 Basic metals	11.2	16.9	26.7	16.3	19.5	16.9	85.6	..
25 Fabricated metal products, except machinery and equipment	33.4	33.2	46.1	102.8	154.7	196.0	162.9	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	274.4	416.5	373.7	480.0	751.2	830.6	962.7	..
26 Computer, electronic and optical products	41.6	48.4	84.4	74.0	89.0	84.5	95.1	..
27 Electrical equipment	62.5	73.5	108.2	118.7	264.3	186.8	166.7	..
28 Machinery and equipment n.e.c.	61.4	67.8	68.3	95.5	160.7	123.5	174.3	..
29 Motor vehicles, trailers and semi-trailers	77.8	185.8	50.3	101.2	125.8	310.3	390.3	..
30 Other transport equipment	30.9	41.0	62.4	90.4	111.3	125.5	136.4	..
31-33 Furniture; repair, installation of machinery and equipment	55.3	71.7	49.3 e	57.1	111.3	72.8	95.1	..
31 Furniture	14.1	17.7	3.9 e	11.8	31.6	26.8	29.2	..
32 Other manufacturing	13.5	19.1	13.9 e	17.3	36.8	24.6	31.1	..
33 Repair and installation of machinery and equipment	27.6	34.9	31.5	28.0	43.0	21.3	34.9	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>1.8</b>	<b>19.9</b>	<b>4.6</b>	<b>12.2 e</b>	<b>40.0 e</b>	<b>110.6 e</b>	<b>72.5 e</b>	..
35-36 Electricity, gas and water	..	..	..	..	..	69.4	23.1	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	41.2 e	49.4 e	..
<b>41-43 CONSTRUCTION</b>	<b>3.8</b>	<b>7.4</b>	<b>10.4</b>	<b>31.3</b>	<b>30.4</b>	<b>71.9</b>	<b>31.9</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>660.5</b>	<b>541.8</b>	<b>728.1</b>	<b>925.0</b>	<b>1 332.8</b>	<b>1 647.7</b>	<b>2 139.0</b>	..
<b>45-82 Business sector services</b>	<b>642.6</b>	<b>539.2</b>	<b>709.4</b>	<b>895.2</b>	<b>1 320.1</b>	<b>1 631.6</b>	<b>2 119.7</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>60.8</b>	<b>70.9</b>	<b>74.0</b>	<b>127.7</b>	<b>209.8</b>	<b>288.8</b>	<b>326.7</b>	..
<b>49-53 Transportation and storage</b>	..	..	..	..	..	..	..	..
<b>55-56 Accommodation and food service activities</b>	..	..	..	..	..	..	..	..
<b>58-63 Information and communication</b>	<b>121.0</b>	<b>179.6</b>	<b>380.9</b>	<b>514.4</b>	<b>604.9</b>	<b>681.8</b>	<b>810.9</b>	..
58-60 Publishing, audiovisual and broadcasting activities	..	..	..	100.5	27.8	28.6	39.9	..
58 Publishing activities	..	..	..	..	..	27.4	38.6	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	..	..	1.2	1.3	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	..	..	..	..	..	..	..	..
62-63 IT and other information services	..	..	..	..	..	..	..	..
62 Computer programming, consultancy and related activities	..	72.2	179.1	231.8	369.6	408.6	447.3	..
63 Information service activities	..	..	..	..	..	..	..	..
<b>64-66 Financial and insurance activities</b>	<b>20.1</b>	<b>20.6</b>	<b>8.4</b>	<b>5.9</b>	<b>18.3</b>	<b>46.3</b>	<b>129.0</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>434.5</b>	<b>266.2</b>	<b>245.2</b>	<b>233.2</b>	<b>483.2</b>	<b>596.4</b>	<b>837.3</b>	..
68 Real estate activities	0.0	0.0	0.0	0.0	28.9	42.3	35.7	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	4.1	13.0	18.7	30.3	122.3	107.5	234.3	..
72 Scientific research and development	430.4	253.2	226.5	202.7	327.7	439.7	557.5	..
77-82 Administrative and support service activities	0.0	0.0	0.0	0.3	4.3	6.8	9.7	..
84-99 Community, social and personal services	17.9 e	2.6 e	18.7	29.9	12.7	16.1	19.4	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	0.7 e	0.7	0.9	1.4	..
86-88 Human health and social work activities	12.1	..	..	21.1 e	10.5	8.8	10.6	..
90-93 Arts, entertainment and recreation	..	..	..	6.9	0.3	0.3	0.7	..
94-99 Other services; household-employers; extraterritorial bodies	4.6	..	0.9	1.2	1.2	6.1	6.7	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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## POLAND

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>1 395.9</b>	<b>1 458.6</b>	<b>1 539.6</b>	<b>1 893.7</b>	<b>2 806.2</b>	<b>3 295.8</b>	<b>3 926.4</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>10.4</b>	<b>11.6</b>	<b>12.2</b>	<b>14.6</b>	<b>17.5</b>	<b>16.3</b>	<b>17.7</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>0.5 e</b>	<b>0.5 e</b>	<b>0.6</b>	<b>10.1 e</b>	<b>115.4 e</b>	<b>138.1 e</b>	<b>59.4 e</b>	..
<b>10-33 MANUFACTURING</b>	<b>666.5</b>	<b>846.8</b>	<b>783.7</b>	<b>930.8</b>	<b>1 349.0</b>	<b>1 452.0</b>	<b>1 791.2</b>	..
10-12 Food products, beverages and tobacco	53.2	99.6	58.6	34.3	31.5	73.2	213.6	..
13-15 Textiles, wearing apparel, leather and related products	13.9	6.7	8.1	8.8	11.9	13.6	19.7	..
13 Textiles	13.0	5.7	6.3 e	7.3	7.1	11.3	16.5	..
14 Wearing apparel	0.7 e	0.6 e	1.0	1.0 e	3.5	1.8	2.5 e	..
15 Leather and related products, footwear	0.3 e	0.4 e	0.8 e	0.5 e	1.3	0.5	0.6 e	..
16-18 Wood and paper products and printing	8.0	12.0	17.5	18.9	23.3	37.1	27.5	..
16 Wood and wood products, except furniture	3.6	3.9	4.3	6.1 e	8.2	12.0	6.7	..
17 Paper and paper products	..	..	..	8.0	3.0	3.3	9.6	..
18 Printing and reproduction of recorded media	..	..	..	4.7 e	12.0	21.8	11.2	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	187.4	161.5	203.6 e	233.3	303.8	297.6	332.1	..
19 Coke and refined petroleum products	3.2	3.3	2.8 e	2.3	4.7	9.6 e	5.7 e	..
20-21 Chemical and pharmaceutical products	157.4	128.2	142.0	157.8	210.3	210.1	214.1	..
20 Chemicals and chemical products	48.3	38.3	55.8	67.9	74.3	96.7 e	75.3	..
21 Pharmaceuticals, medicinal, chemical and botanical products	109.2	89.8	86.2	90.0	136.0	113.4	138.8	..
22 Rubber and plastic products	18.0	10.8	33.9 e	55.3	58.7	53.3	81.1	..
23 Other non-metallic mineral products	8.8	19.2	24.9	17.9	30.1	24.6	31.2 e	..
24-25 Basic metals, metal products, except machinery and equipment	48.1	52.7	72.8	115.4	164.4	196.6	228.0	..
24 Basic metals	12.1	17.8	26.7	15.8	18.4	15.6	78.6	..
25 Fabricated metal products, except machinery and equipment	36.0	34.9	46.1	99.6	146.0	180.9	149.4	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	296.0	438.8	373.7	464.9	708.9	766.7	883.2	..
26 Computer, electronic and optical products	44.9	51.0	84.4	71.7	84.0	78.0	87.2	..
27 Electrical equipment	67.5	77.5	108.2	115.0	249.5	172.4	152.9	..
28 Machinery and equipment n.e.c.	66.2	71.4	68.3	92.5	151.6	114.0	159.9	..
29 Motor vehicles, trailers and semi-trailers	84.0	195.7	50.3	98.0	118.7	286.5	358.0	..
30 Other transport equipment	33.4	43.2	62.4	87.6	105.0	115.8	125.1	..
31-33 Furniture; repair, installation of machinery and equipment	59.6	75.6	49.3 e	55.3	105.1	67.2	87.3	..
31 Furniture	15.2	18.6	3.9 e	11.5	29.8	24.8	26.7	..
32 Other manufacturing	14.6	20.1	13.9 e	16.7	34.7	22.7	28.5	..
33 Repair and installation of machinery and equipment	29.8	36.8	31.5	27.2	40.6	19.6	32.0	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>1.9</b>	<b>20.9</b>	<b>4.6</b>	<b>11.8 e</b>	<b>37.8 e</b>	<b>102.1 e</b>	<b>66.5 e</b>	..
35-36 Electricity, gas and water	..	..	..	..	..	64.0	21.2	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	38.1 e	45.4 e	..
<b>41-43 CONSTRUCTION</b>	<b>4.1</b>	<b>7.8</b>	<b>10.4</b>	<b>30.3</b>	<b>28.7</b>	<b>66.4</b>	<b>29.2</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>712.6</b>	<b>570.8</b>	<b>728.1</b>	<b>896.1</b>	<b>1 257.8</b>	<b>1 521.0</b>	<b>1 962.3</b>	..
<b>45-82 Business sector services</b>	<b>693.3</b>	<b>568.1</b>	<b>709.4</b>	<b>867.2</b>	<b>1 245.8</b>	<b>1 506.1</b>	<b>1 944.6</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>65.6</b>	<b>74.7</b>	<b>74.0</b>	<b>123.7</b>	<b>198.0</b>	<b>266.5</b>	<b>299.7</b>	..
<b>49-53 Transportation and storage</b>	..	..	..	..	..	..	..	..
<b>55-56 Accommodation and food service activities</b>	..	..	..	..	..	..	..	..
<b>58-63 Information and communication</b>	<b>130.6</b>	<b>189.2</b>	<b>380.9</b>	<b>498.3</b>	<b>570.8</b>	<b>629.3</b>	<b>743.9</b>	..
58-60 Publishing, audiovisual and broadcasting activities	..	..	..	97.4	26.3	26.4	36.6	..
58 Publishing activities	..	..	..	..	..	25.3	35.4	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	..	..	1.2	1.1	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	..	..	..	..	..	..	..	..
62-63 IT and other information services	..	..	..	..	..	..	..	..
62 Computer programming, consultancy and related activities	..	76.0	179.1	224.6	348.8	377.2	410.4	..
63 Information service activities	..	..	..	..	..	..	..	..
<b>64-66 Financial and insurance activities</b>	<b>21.7</b>	<b>21.7</b>	<b>8.4</b>	<b>5.8</b>	<b>17.3</b>	<b>42.7</b>	<b>118.3</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>468.7</b>	<b>280.5</b>	<b>245.2</b>	<b>225.9</b>	<b>456.0</b>	<b>550.5</b>	<b>768.2</b>	..
68 Real estate activities	0.0	0.0	0.0	0.0	27.3	39.1	32.8	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	4.4	13.7	18.7	29.3	115.4	99.3	214.9	..
72 Scientific research and development	464.3	266.7	226.5	196.3	309.2	405.9	511.5	..
77-82 Administrative and support service activities	0.0	0.0	0.0	0.3	4.0	6.2	8.9	..
84-99 Community, social and personal services	19.3 e	2.7 e	18.7	28.9	12.0	14.8	17.8	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	0.7 e	0.6	0.8	1.3	..
86-88 Human health and social work activities	13.1	..	..	20.4 e	9.9	8.1	9.7	..
90-93 Arts, entertainment and recreation	..	..	..	6.7	0.3	0.3	0.7	..
94-99 Other services; household-employers; extraterritorial bodies	4.9	..	0.9	1.1	1.2	5.7	6.2	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.Disclaimer: <http://oe.cd/disclaimer>

# PORTUGAL

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>2 035.8</b>	<b>2 092.5</b>	<b>2 035.9</b>	<b>1 952.1</b>	<b>1 905.1</b>	<b>1 838.4</b>	<b>1 793.4</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>2.8</b>	<b>2.9</b>	<b>2.4</b>	<b>4.6</b>	<b>7.9</b>	<b>11.6</b>	<b>7.9</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>7.9</b>	<b>4.9</b>	<b>4.9</b>	<b>6.4</b>	<b>4.4</b>	<b>6.5</b>	<b>5.9</b>	..
<b>10-33 MANUFACTURING</b>	<b>717.5</b>	<b>677.9</b>	<b>663.1</b>	<b>692.7</b>	<b>781.3</b>	<b>727.3</b>	<b>744.0</b>	..
10-12 Food products, beverages and tobacco	85.1	74.0	75.5	66.4	117.3	101.0	97.1	..
13-15 Textiles, wearing apparel, leather and related products	28.8	31.3	33.2	33.2	38.4	38.9	44.0	..
13 Textiles	20.8	19.4	22.3	20.0	23.0	19.0	23.3	..
14 Wearing apparel	4.5	5.5	4.8	5.0	5.8	4.4	5.7	..
15 Leather and related products, footwear	3.5	6.4	6.1	8.3	9.6	15.5	15.0	..
16-18 Wood and paper products and printing	46.1	34.8	40.7	54.8	58.9	61.6	56.6	..
16 Wood and wood products, except furniture	16.5	13.7	11.0	15.3	16.0	14.5	15.1	..
17 Paper and paper products	11.8	4.8	12.8	21.1	25.7	26.3	19.4	..
18 Printing and reproduction of recorded media	17.8	16.3	16.9	18.4	17.1	20.7	22.0	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	231.8 e	234.0 e	253.6	259.7	297.8 e	269.5	259.5 e	..
19 Coke and refined petroleum products	10.5 e	16.1 e	11.8	8.7	7.1 e	5.8	3.7 e	..
20-21 Chemical and pharmaceutical products	161.2	139.2	173.7	169.4	188.6	186.8	172.0	..
20 Chemicals and chemical products	26.0	30.7	48.4	29.1	40.8	41.9	42.0	..
21 Pharmaceuticals, medicinal, chemical and botanical products	135.2	108.5	125.3	140.4	147.8	144.9	130.0	..
22 Rubber and plastic products	22.1	38.5	32.1	34.8	38.9	35.6	36.7	..
23 Other non-metallic mineral products	38.1	40.3	36.0	46.8	63.1	41.3	47.1	..
24-25 Basic metals, metal products, except machinery and equipment	72.4	65.1	63.0	61.3	57.7	59.4	77.8	..
24 Basic metals	22.3	18.9	19.6	19.2	19.2	22.0	33.1	..
25 Fabricated metal products, except machinery and equipment	50.2	46.2	43.3	42.1	38.5	37.5	44.8	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	226.2	206.7	177.9	200.9	195.4	177.3	189.8	..
26 Computer, electronic and optical products	46.9	33.4	31.1	42.5	43.0	41.0	49.9	..
27 Electrical equipment	39.1	43.1	54.8	70.8	62.9	59.9	52.7	..
28 Machinery and equipment n.e.c.	24.7	23.3	22.1	25.8	34.6	31.7	32.6	..
29 Motor vehicles, trailers and semi-trailers	108.3	100.2	64.9	55.4	47.3	40.9	50.1	..
30 Other transport equipment	7.2	6.6	4.9	6.5	7.6	3.8	4.5	..
31-33 Furniture; repair, installation of machinery and equipment	26.9 e	32.0 e	19.3	16.4	15.8 e	19.5	19.1 e	..
31 Furniture	7.8	7.4	8.2	6.4	7.3	7.8	8.0	..
32 Other manufacturing	4.1 e	6.3 e	4.6	4.9	4.1 e	4.7	3.0 e	..
33 Repair and installation of machinery and equipment	15.0	18.3	6.4	5.0	4.4	7.0	8.1	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>130.8</b>	<b>116.4</b>	<b>90.2</b>	<b>24.3</b>	<b>33.9</b>	<b>17.0</b>	<b>16.2</b>	..
35-36 Electricity, gas and water	121.7	109.5	84.7	17.8	15.2	9.1	8.8	..
37-39 Sewerage, waste management and remediation activities	9.0	6.9	5.5	6.5	18.7	7.8	7.3	..
<b>41-43 CONSTRUCTION</b>	<b>12.2</b>	<b>23.8</b>	<b>15.6</b>	<b>16.6</b>	<b>8.5</b>	<b>13.1</b>	<b>14.1</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>1 164.7</b>	<b>1 266.6</b>	<b>1 259.8</b>	<b>1 207.6</b>	<b>1 069.1</b>	<b>1 062.8</b>	<b>1 005.3</b>	..
<b>45-82 Business sector services</b>	<b>1 151.2</b>	<b>1 245.2</b>	<b>1 227.4</b>	<b>1 183.6</b>	<b>1 046.5</b>	<b>1 039.2</b>	<b>974.7</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>49.1</b>	<b>49.6</b>	<b>141.5</b>	<b>138.1</b>	<b>129.0</b>	<b>81.4</b>	<b>96.2</b>	..
<b>49-53 Transportation and storage</b>	<b>79.8</b>	<b>58.8</b>	<b>46.4</b>	<b>41.7</b>	<b>19.4</b>	<b>23.1</b>	<b>23.2</b>	..
<b>55-56 Accommodation and food service activities</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.3</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	..
<b>58-63 Information and communication</b>	<b>460.8</b>	<b>594.8</b>	<b>531.6</b>	<b>532.4</b>	<b>449.1</b>	<b>412.3</b>	<b>337.2</b>	..
58-60 Publishing, audiovisual and broadcasting activities	30.1	37.1	37.9	29.4	25.7	23.6	26.7	..
58 Publishing activities	26.9	30.2	32.0	22.6	19.6	22.3	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	3.2	6.9	5.9	6.9	6.0	1.3	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	0.5	0.2	0.5	0.1 e	..	..
60 Programming and broadcasting activities	..	..	5.4	6.7	5.6	1.2 e	..	..
61 Telecommunications	234.8	347.4	294.0	339.1	225.2	184.0	86.0	..
62-63 IT and other information services	195.9	210.3	199.7	163.9	198.2	204.8	224.5	..
62 Computer programming, consultancy and related activities	189.0	204.5	194.5	158.6	188.9	197.2	215.9	..
63 Information service activities	6.9	5.8	5.2	5.2	9.3	7.6	8.6	..
<b>64-66 Financial and insurance activities</b>	<b>334.0</b>	<b>258.5</b>	<b>274.5</b>	<b>244.1</b>	<b>246.6</b>	<b>271.9</b>	<b>258.9</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>227.4</b>	<b>283.3</b>	<b>233.3</b>	<b>227.0</b>	<b>202.1</b>	<b>250.2</b>	<b>259.0</b>	..
68 Real estate activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	180.0	220.6	168.5	138.1	95.2	97.4	89.7	..
72 Scientific research and development	36.7	43.8	50.1	73.4	89.0	136.9	149.0	..
77-82 Administrative and support service activities	10.7	18.9	14.7	15.5	17.9	15.9	20.3	..
84-99 Community, social and personal services	13.4	21.4	32.4	24.0	22.6	23.7	30.6	..
84-85 Public administration and defence; compulsory social security and education	0.8	2.3	2.2	2.2	1.5	4.0	3.9	..
86-88 Human health and social work activities	2.7	3.9	5.0	7.3	6.9	7.7	8.2	..
90-93 Arts, entertainment and recreation	0.8	1.1	0.5	1.1	0.6	3.8	1.4	..
94-99 Other services; household-employers; extraterritorial bodies	9.1	14.1	24.8	13.3	13.6	8.1	17.2	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# PORTUGAL

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>2 118.6</b>	<b>2 121.5</b>	<b>2 035.9</b>	<b>1 960.9</b>	<b>1 866.8</b>	<b>1 698.1</b>	<b>1 627.4</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>2.9</b>	<b>2.9</b>	<b>2.4</b>	<b>4.6</b>	<b>7.7</b>	<b>10.8</b>	<b>7.1</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>8.3</b>	<b>4.9</b>	<b>4.9</b>	<b>6.4</b>	<b>4.3</b>	<b>6.0</b>	<b>5.4</b>	..
<b>10-33 MANUFACTURING</b>	<b>746.6</b>	<b>687.3</b>	<b>663.1</b>	<b>695.8</b>	<b>765.6</b>	<b>671.8</b>	<b>675.1</b>	..
10-12 Food products, beverages and tobacco	88.6	75.1	75.5	66.7	115.0	93.3	88.1	..
13-15 Textiles, wearing apparel, leather and related products	30.0	31.7	33.2	33.4	37.6	36.0	40.0	..
13 Textiles	21.7	19.7	22.3	20.1	22.5	17.5	21.2	..
14 Wearing apparel	4.6	5.5	4.8	5.0	5.7	4.1	5.2	..
15 Leather and related products, footwear	3.7	6.5	6.1	8.3	9.4	14.4	13.6	..
16-18 Wood and paper products and printing	48.0	35.2	40.7	55.1	57.7	56.9	51.3	..
16 Wood and wood products, except furniture	17.1	13.9	11.0	15.4	15.7	13.4	13.7	..
17 Paper and paper products	12.3	4.8	12.8	21.2	25.2	24.3	17.6	..
18 Printing and reproduction of recorded media	18.5	16.5	16.9	18.5	16.8	19.2	20.0	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	241.3 e	237.3 e	253.6	260.8	291.8 e	248.9	235.5 e	..
19 Coke and refined petroleum products	10.9 e	16.3 e	11.8	8.7	7.0 e	5.3	3.4 e	..
20-21 Chemical and pharmaceutical products	167.8	141.1	173.7	170.2	184.8	172.6	156.1	..
20 Chemicals and chemical products	27.1	31.1	48.4	29.2	40.0	38.7	38.1	..
21 Pharmaceuticals, medicinal, chemical and botanical products	140.7	110.0	125.3	141.0	144.9	133.8	118.0	..
22 Rubber and plastic products	23.0	39.0	32.1	35.0	38.2	32.9	33.3	..
23 Other non-metallic mineral products	39.6	40.8	36.0	47.0	61.8	38.2	42.7	..
24-25 Basic metals, metal products, except machinery and equipment	75.4	66.0	63.0	61.6	56.6	54.9	70.6	..
24 Basic metals	23.2	19.2	19.6	19.3	18.8	20.3	30.0	..
25 Fabricated metal products, except machinery and equipment	52.2	46.8	43.3	42.3	37.7	34.6	40.6	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	235.4	209.6	177.9	201.9	191.5	163.8	172.3	..
26 Computer, electronic and optical products	48.8	33.9	31.1	42.7	42.2	37.8	45.2	..
27 Electrical equipment	40.7	43.7	54.8	71.1	61.6	55.4	47.8	..
28 Machinery and equipment n.e.c.	25.7	23.6	22.1	25.9	33.9	29.3	29.6	..
29 Motor vehicles, trailers and semi-trailers	112.7	101.6	64.9	55.6	46.4	37.8	45.5	..
30 Other transport equipment	7.5	6.7	4.9	6.5	7.4	3.5	4.1	..
31-33 Furniture; repair, installation of machinery and equipment	28.0 e	32.5 e	19.3	16.4	15.5 e	18.0	17.3 e	..
31 Furniture	8.1	7.5	8.2	6.4	7.2	7.2	7.2	..
32 Other manufacturing	4.3 e	6.4 e	4.6	5.0	4.0 e	4.3	2.7 e	..
33 Repair and installation of machinery and equipment	15.6	18.5	6.4	5.0	4.3	6.5	7.3	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>136.1</b>	<b>118.0</b>	<b>90.2</b>	<b>24.4</b>	<b>33.2</b>	<b>15.7</b>	<b>14.7</b>	..
35-36 Electricity, gas and water	126.7	111.0	84.7	17.9	14.9	8.4	8.0	..
37-39 Sewerage, waste management and remediation activities	9.4	7.0	5.5	6.5	18.3	7.2	6.7	..
<b>41-43 CONSTRUCTION</b>	<b>12.7</b>	<b>24.2</b>	<b>15.6</b>	<b>16.7</b>	<b>8.3</b>	<b>12.1</b>	<b>12.8</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>1 212.0</b>	<b>1 284.2</b>	<b>1 259.8</b>	<b>1 213.0</b>	<b>1 047.5</b>	<b>981.7</b>	<b>912.3</b>	..
<b>45-82 Business sector services</b>	<b>1 198.0</b>	<b>1 262.5</b>	<b>1 227.4</b>	<b>1 188.9</b>	<b>1 025.4</b>	<b>959.9</b>	<b>884.5</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>51.1</b>	<b>50.3</b>	<b>141.5</b>	<b>138.7</b>	<b>126.4</b>	<b>75.2</b>	<b>87.3</b>	..
<b>49-53 Transportation and storage</b>	<b>83.0</b>	<b>59.6</b>	<b>46.4</b>	<b>41.9</b>	<b>19.0</b>	<b>21.3</b>	<b>21.0</b>	..
<b>55-56 Accommodation and food service activities</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.3</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	..
<b>58-63 Information and communication</b>	<b>479.5</b>	<b>603.0</b>	<b>531.6</b>	<b>534.8</b>	<b>440.0</b>	<b>380.9</b>	<b>306.0</b>	..
58-60 Publishing, audiovisual and broadcasting activities	31.3	37.6	37.9	29.6	25.1	21.8	24.2	..
58 Publishing activities	28.0	30.7	32.0	22.7	19.2	20.6	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	3.3	7.0	5.9	6.9	5.9	1.2	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	0.5	0.2	0.5	0.1 e	..	..
60 Programming and broadcasting activities	..	..	5.4	6.7	5.5	1.1 e	..	..
61 Telecommunications	244.3	352.2	294.0	340.7	220.6	169.9	78.0	..
62-63 IT and other information services	203.9	213.2	199.7	164.6	194.3	189.1	203.7	..
62 Computer programming, consultancy and related activities	196.7	207.3	194.5	159.4	185.1	182.1	195.9	..
63 Information service activities	7.2	5.9	5.2	5.3	9.1	7.0	7.8	..
<b>64-66 Financial and insurance activities</b>	<b>347.5</b>	<b>262.1</b>	<b>274.5</b>	<b>245.2</b>	<b>241.7</b>	<b>251.2</b>	<b>235.0</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>236.7</b>	<b>287.3</b>	<b>233.3</b>	<b>228.0</b>	<b>198.0</b>	<b>231.1</b>	<b>235.1</b>	..
68 Real estate activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	187.3	223.7	168.5	138.7	93.3	90.0	81.4	..
72 Scientific research and development	38.2	44.4	50.1	73.7	87.2	126.5	135.2	..
77-82 Administrative and support service activities	11.2	19.2	14.7	15.6	17.6	14.7	18.5	..
84-99 Community, social and personal services	14.0	21.7	32.4	24.1	22.1	21.8	27.8	..
84-85 Public administration and defence; compulsory social security and education	0.8	2.3	2.2	2.2	1.5	3.7	3.5	..
86-88 Human health and social work activities	2.8	3.9	5.0	7.3	6.8	7.1	7.4	..
90-93 Arts, entertainment and recreation	0.8	1.1	0.5	1.1	0.5	3.5	1.2	..
94-99 Other services; household-employers; extraterritorial bodies	9.5	14.3	24.8	13.4	13.3	7.5	15.6	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# PORTUGAL

## R&D expenditure in industry by industry orientation, current prices

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>2 035.8</b>	<b>2 092.5</b>	<b>2 035.9</b>	<b>1 952.1</b>	<b>1 905.1</b>	<b>1 838.4</b>	<b>1 793.4</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>11.4</b>	<b>12.4</b>	<b>10.3</b>	<b>18.5</b>	<b>27.3</b>	<b>26.2</b>	<b>23.2</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>21.9</b>	<b>32.2</b>	<b>19.1</b>	<b>23.8</b>	<b>13.0</b>	<b>12.9</b>	<b>13.4</b>	..
<b>10-33 MANUFACTURING</b>	<b>787.9</b>	<b>723.3</b>	<b>741.7</b>	<b>752.5</b>	<b>844.8</b>	<b>804.2</b>	<b>841.8</b>	..
10-12 Food products, beverages and tobacco	81.5	71.5	75.8	63.8	109.0	89.7	90.9	..
13-15 Textiles, wearing apparel, leather and related products	32.7	35.4	35.5	35.9	40.9	40.8	45.6	..
13 Textiles	22.9	20.3	23.0	20.4	24.3	23.1	28.5	..
14 Wearing apparel	4.8	8.0	6.4	6.9	5.1	3.7	3.7	..
15 Leather and related products, footwear	5.0	7.1	6.1	8.6	11.5	14.1	13.3	..
16-18 Wood and paper products and printing	28.3	23.0	28.5	37.3	44.6	46.7	40.6	..
16 Wood and wood products, except furniture	13.7	13.1	9.8	11.9	15.6	14.1	13.8	..
17 Paper and paper products	12.6	9.6	18.3	25.3	28.2	31.9	25.8	..
18 Printing and reproduction of recorded media	2.0	0.3	0.5	0.1	0.9	0.7	1.0	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	262.9 e	234.8 e	269.3	267.7	313.3	283.5 e	277.0	..
19 Coke and refined petroleum products	5.0 e	8.5 e	10.9	0.3	5.9	3.2 e	2.9	..
20-21 Chemical and pharmaceutical products	193.6	162.2	199.9	195.4	215.4	208.3	199.5	..
20 Chemicals and chemical products	35.1	40.4	54.4	36.7	46.9	44.9	46.8	..
21 Pharmaceuticals, medicinal, chemical and botanical products	158.6	121.9	145.5	158.7	168.5	163.4	152.7	..
22 Rubber and plastic products	24.6	31.3	21.7	26.2	26.5	27.8	28.3	..
23 Other non-metallic mineral products	39.6	32.8	36.8	45.7	65.5	44.2	46.3	..
24-25 Basic metals, metal products, except machinery and equipment	59.7	58.4	55.1	54.8	49.8	53.9	69.1	..
24 Basic metals	23.5	19.4	20.3	21.5	19.8	22.6	34.1	..
25 Fabricated metal products, except machinery and equipment	36.2	39.1	34.8	33.3	30.0	31.3	35.0	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	290.3	281.8	253.3	265.5	258.8	262.6	289.9	..
26 Computer, electronic and optical products	67.9	55.2	54.5	62.5	43.5	65.3	81.7	..
27 Electrical equipment	60.5	46.2	68.6	61.3	53.9	56.8	55.0	..
28 Machinery and equipment n.e.c.	31.2	45.4	33.7	44.9	45.6	40.8	44.3	..
29 Motor vehicles, trailers and semi-trailers	111.9	122.5	83.6	77.2	90.1	75.1	83.4	..
30 Other transport equipment	18.8	12.6	12.9	19.6	25.8	24.5	25.5	..
31-33 Furniture; repair, installation of machinery and equipment	32.6 e	18.4 e	24.1	27.4	28.4	27.0 e	28.7	..
31 Furniture	3.9	6.7	8.0	5.8	7.1	8.2	8.0	..
32 Other manufacturing	10.4 e	9.7 e	12.3	16.6	14.7	12.2	14.2	..
33 Repair and installation of machinery and equipment	18.2	2.0	3.8	5.0	6.5	6.6 e	6.6	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>131.9</b>	<b>134.7</b>	<b>98.3</b>	<b>31.9</b>	<b>38.4</b>	<b>21.3</b>	<b>23.8</b>	..
35-36 Electricity, gas and water	125.0	121.9	90.4	18.8	15.0	8.1	10.7	..
37-39 Sewerage, waste management and remediation activities	6.9	12.7	7.9	13.1	23.3	13.2	13.0	..
<b>41-43 CONSTRUCTION</b>	<b>18.4</b>	<b>40.3</b>	<b>15.9</b>	<b>13.7</b>	<b>7.5</b>	<b>12.7</b>	<b>13.3</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>1 064.3</b>	<b>1 149.7</b>	<b>1 150.6</b>	<b>1 111.7</b>	<b>974.0</b>	<b>961.1</b>	<b>877.9</b>	..
<b>45-82 Business sector services</b>	<b>1 055.9</b>	<b>1 130.2</b>	<b>1 134.5</b>	<b>1 098.6</b>	<b>963.9</b>	<b>941.8</b>	<b>843.9</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>37.9</b>	<b>53.1</b>	<b>62.4</b>	<b>57.5</b>	<b>71.7</b>	<b>69.8</b>	<b>77.9</b>	..
<b>49-53 Transportation and storage</b>	<b>36.7</b>	<b>29.1</b>	<b>45.4</b>	<b>34.2</b>	<b>12.3</b>	<b>17.6</b>	<b>16.6</b>	..
<b>55-56 Accommodation and food service activities</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0 e</b>	<b>0.9</b>	<b>6.2</b>	<b>6.2</b>	<b>1.4</b>	..
<b>58-63 Information and communication</b>	<b>627.3</b>	<b>705.4</b>	<b>678.8</b>	<b>702.2</b>	<b>605.0</b>	<b>543.2</b>	<b>461.9</b>	..
58-60 Publishing, audiovisual and broadcasting activities	85.6	67.6	96.5	75.7	90.0	112.0	104.4	..
58 Publishing activities	..	63.9	94.0	70.6	87.1	109.9	104.0	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	3.7	2.5	5.1	2.9	2.0	0.4	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	2.1	0.8	0.8	0.4	..
60 Programming and broadcasting activities	..	..	..	3.0	2.1	1.3	0.0	..
61 Telecommunications	317.0	428.5	390.1	447.6	328.3	248.4	147.0	..
62-63 IT and other information services	224.7	209.3	192.2	178.9	186.7	182.8	210.4	..
62 Computer programming, consultancy and related activities	196.0	187.8	172.1	131.6	157.5	156.9	182.7	..
63 Information service activities	28.7	21.5	20.1	47.4	29.3	25.8	27.7	..
<b>64-66 Financial and insurance activities</b>	<b>254.1</b>	<b>207.6</b>	<b>180.4</b>	<b>146.7</b>	<b>148.9</b>	<b>151.6</b>	<b>135.3</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>100.0</b>	<b>135.1</b>	<b>167.5</b>	<b>157.1</b>	<b>119.7</b>	<b>153.3</b>	<b>150.9</b>	..
68 Real estate activities	0.0	2.0	1.5 e	1.3	0.9	1.6	1.9	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	63.9	94.8	126.1	118.2	73.2	83.1	72.7	..
72 Scientific research and development	32.2	36.3	36.9	33.2	38.6	60.9	69.7	..
77-82 Administrative and support service activities	3.8	2.0	3.0	4.4	7.0	7.7	6.6	..
84-99 Community, social and personal services	8.3	19.4	16.1	13.1	10.2	19.3	34.0	..
84-85 Public administration and defence; compulsory social security and education	2.8	0.1	0.3	0.6	1.2	1.4	1.9	..
86-88 Human health and social work activities	3.4	12.1	5.6	10.2	7.9	14.2	27.5	..
90-93 Arts, entertainment and recreation	0.5	0.4	0.5	0.6	0.5	0.6	1.4	..
94-99 Other services; household-employers; extraterritorial bodies	1.5	6.8	9.7	1.7	0.6	3.1	3.2	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# PORTUGAL

## R&D expenditure in industry by industry orientation, constant prices

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>2 118.6</b>	<b>2 121.5</b>	<b>2 035.9</b>	<b>1 960.9</b>	<b>1 866.8</b>	<b>1 698.1</b>	<b>1 627.4</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>11.8</b>	<b>12.6</b>	<b>10.3</b>	<b>18.6</b>	<b>26.8</b>	<b>24.2</b>	<b>21.1</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>22.8</b>	<b>32.7</b>	<b>19.1</b>	<b>23.9</b>	<b>12.8</b>	<b>12.0</b>	<b>12.1</b>	..
<b>10-33 MANUFACTURING</b>	<b>820.0</b>	<b>733.3</b>	<b>741.7</b>	<b>755.9</b>	<b>827.8</b>	<b>742.8</b>	<b>763.9</b>	..
10-12 Food products, beverages and tobacco	84.8	72.5	75.8	64.1	106.8	82.8	82.5	..
13-15 Textiles, wearing apparel, leather and related products	34.0	35.9	35.5	36.0	40.1	37.7	41.3	..
13 Textiles	23.8	20.6	23.0	20.5	23.8	21.3	25.9	..
14 Wearing apparel	5.0	8.1	6.4	6.9	5.0	3.4	3.4	..
15 Leather and related products, footwear	5.2	7.2	6.1	8.6	11.2	13.0	12.1	..
16-18 Wood and paper products and printing	29.5	23.3	28.5	37.5	43.7	43.1	36.8	..
16 Wood and wood products, except furniture	14.3	13.3	9.8	12.0	15.3	13.0	12.5	..
17 Paper and paper products	13.2	9.7	18.3	25.4	27.6	29.4	23.4	..
18 Printing and reproduction of recorded media	2.1	0.3	0.5	0.1	0.9	0.6	0.9	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	273.6 e	238.1 e	269.3	268.9	307.0	261.8 e	251.4	..
19 Coke and refined petroleum products	5.2 e	8.7 e	10.9	0.3	5.8	2.9 e	2.7	..
20-21 Chemical and pharmaceutical products	201.5	164.5	199.9	196.3	211.1	192.4	181.0	..
20 Chemicals and chemical products	36.5	40.9	54.4	36.9	46.0	41.5	42.5	..
21 Pharmaceuticals, medicinal, chemical and botanical products	165.0	123.5	145.5	159.5	165.1	150.9	138.6	..
22 Rubber and plastic products	25.6	31.7	21.7	26.3	26.0	25.7	25.7	..
23 Other non-metallic mineral products	41.2	33.2	36.8	46.0	64.1	40.8	42.0	..
24-25 Basic metals, metal products, except machinery and equipment	62.1	59.2	55.1	55.1	48.8	49.8	62.7	..
24 Basic metals	24.5	19.6	20.3	21.6	19.4	20.9	31.0	..
25 Fabricated metal products, except machinery and equipment	37.7	39.6	34.8	33.4	29.4	28.9	31.8	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	302.1	285.7	253.3	266.7	253.6	242.5	263.0	..
26 Computer, electronic and optical products	70.6	55.9	54.5	62.8	42.6	60.4	74.2	..
27 Electrical equipment	63.0	46.8	68.6	61.6	52.8	52.5	49.9	..
28 Machinery and equipment n.e.c.	32.4	46.0	33.7	45.1	44.7	37.7	40.2	..
29 Motor vehicles, trailers and semi-trailers	116.4	124.2	83.6	77.6	88.2	69.4	75.7	..
30 Other transport equipment	19.6	12.8	12.9	19.7	25.2	22.6	23.1	..
31-33 Furniture; repair, installation of machinery and equipment	33.9 e	18.6 e	24.1	27.5	27.9	25.0 e	26.1	..
31 Furniture	4.1	6.8	8.0	5.8	7.0	7.6	7.2	..
32 Other manufacturing	10.8 e	9.8 e	12.3	16.7	14.4	11.3	12.9	..
33 Repair and installation of machinery and equipment	19.0	2.0	3.8	5.0	6.4	6.1 e	6.0	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>137.3</b>	<b>136.5</b>	<b>98.3</b>	<b>32.1</b>	<b>37.6</b>	<b>19.7</b>	<b>21.6</b>	..
35-36 Electricity, gas and water	130.1	123.6	90.4	18.9	14.7	7.5	9.7	..
37-39 Sewerage, waste management and remediation activities	7.2	12.9	7.9	13.1	22.9	12.2	11.8	..
<b>41-43 CONSTRUCTION</b>	<b>19.2</b>	<b>40.8</b>	<b>15.9</b>	<b>13.8</b>	<b>7.4</b>	<b>11.7</b>	<b>12.0</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>1 107.5</b>	<b>1 165.6</b>	<b>1 150.6</b>	<b>1 116.7</b>	<b>954.4</b>	<b>887.7</b>	<b>796.7</b>	..
<b>45-82 Business sector services</b>	<b>1 098.9</b>	<b>1 145.9</b>	<b>1 134.5</b>	<b>1 103.6</b>	<b>944.5</b>	<b>869.9</b>	<b>765.8</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>39.4</b>	<b>53.8</b>	<b>62.4</b>	<b>57.8</b>	<b>70.3</b>	<b>64.4</b>	<b>70.7</b>	..
<b>49-53 Transportation and storage</b>	<b>38.2</b>	<b>29.5</b>	<b>45.4</b>	<b>34.3</b>	<b>12.1</b>	<b>16.3</b>	<b>15.0</b>	..
<b>55-56 Accommodation and food service activities</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0 e</b>	<b>0.9</b>	<b>6.0</b>	<b>5.7</b>	<b>1.2</b>	..
<b>58-63 Information and communication</b>	<b>652.8</b>	<b>715.2</b>	<b>678.8</b>	<b>705.4</b>	<b>592.8</b>	<b>501.8</b>	<b>419.1</b>	..
58-60 Publishing, audiovisual and broadcasting activities	89.1	68.5	96.5	76.0	88.2	103.4	94.7	..
58 Publishing activities	..	64.7	94.0	70.9	85.3	101.6	94.4	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	3.8	2.5	5.2	2.9	1.9	0.3	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	2.2	0.8	0.7	0.3	..
60 Programming and broadcasting activities	..	..	..	3.0	2.1	1.2	0.0	..
61 Telecommunications	329.9	434.5	390.1	449.6	321.7	229.5	133.4	..
62-63 IT and other information services	233.8	212.2	192.2	179.7	183.0	168.8	190.9	..
62 Computer programming, consultancy and related activities	204.0	190.4	172.1	132.2	154.3	145.0	165.8	..
63 Information service activities	29.8	21.8	20.1	47.6	28.7	23.9	25.1	..
<b>64-66 Financial and insurance activities</b>	<b>264.4</b>	<b>210.5</b>	<b>180.4</b>	<b>147.4</b>	<b>145.9</b>	<b>140.1</b>	<b>122.7</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>104.1</b>	<b>137.0</b>	<b>167.5</b>	<b>157.8</b>	<b>117.3</b>	<b>141.6</b>	<b>137.0</b>	..
68 Real estate activities	0.0	2.1	1.5 e	1.3	0.9	1.5	1.7	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	66.5	96.1	126.1	118.7	71.7	76.7	66.0	..
72 Scientific research and development	33.5	36.8	36.9	33.4	37.8	56.3	63.3	..
77-82 Administrative and support service activities	4.0	2.0	3.0	4.4	6.9	7.1	6.0	..
84-99 Community, social and personal services	8.7	19.7	16.1	13.1	10.0	17.8	30.9	..
84-85 Public administration and defence; compulsory social security and education	3.0	0.1	0.3	0.6	1.2	1.3	1.7	..
86-88 Human health and social work activities	3.6	12.3	5.6	10.3	7.8	13.1	25.0	..
90-93 Arts, entertainment and recreation	0.6	0.4	0.5	0.6	0.4	0.6	1.3	..
94-99 Other services; household-employers; extraterritorial bodies	1.6	6.9	9.7	1.7	0.6	2.8	2.9	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# SLOVAK REPUBLIC

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>252.5</b>	<b>241.5</b>	<b>349.7</b>	<b>343.9</b>	<b>479.6</b>	<b>575.4</b>	<b>510.8</b>	<b>534.3</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>2.8</b>	<b>2.5</b>	<b>2.4</b>	<b>2.9</b>	<b>1.9</b>	<b>1.5</b>	<b>1.3</b>	<b>1.6</b>
<b>05-09 MINING AND QUARRYING</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>
<b>10-33 MANUFACTURING</b>	<b>158.0</b>	<b>162.6</b>	<b>241.9</b>	<b>210.0</b>	<b>257.7</b>	<b>330.5</b>	<b>344.0</b>	<b>351.8</b>
10-12 Food products, beverages and tobacco	1.8	1.8	3.4	2.3	2.3	1.4	1.9	2.2
13-15 Textiles, wearing apparel, leather and related products	..	..	..	..	2.5	0.9	0.5	..
13 Textiles	..	..	..	..	..	..	..	..
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	..	..	..	..	..	..	..	..
16 Wood and wood products, except furniture	..	..	..	..	..	..	..	..
17 Paper and paper products	..	..	..	..	..	..	..	..
18 Printing and reproduction of recorded media	..	..	..	..	..	..	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	..	..	..	..	52.6	50.0	57.4	..
19 Coke and refined petroleum products	..	..	..	..	5.5	6.8	6.3	..
20-21 Chemical and pharmaceutical products	..	..	29.6	32.4	24.4	14.1	14.8	12.4
20 Chemicals and chemical products	6.1	6.2	7.2	7.1	5.8	9.9	6.1	6.0
21 Pharmaceuticals, medicinal, chemical and botanical products	..	..	22.3	25.3	18.6	4.2	8.7	6.4
22 Rubber and plastic products	15.4	17.9	16.2	11.4	20.3	28.3	33.0	40.6
23 Other non-metallic mineral products	3.2	1.5	1.7	2.1	2.4	0.8	3.3	4.2
24-25 Basic metals, metal products, except machinery and equipment	20.1	18.3	26.0	13.9	17.4	10.7	10.3	33.9
24 Basic metals	9.6	8.6 e	7.5	7.2	7.3	6.2	6.0	5.8
25 Fabricated metal products, except machinery and equipment	10.5	9.7	18.5	6.7	10.2	4.5	4.2	28.0
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	67.3	74.8	140.0	123.7	163.4	252.0	258.8	236.6
26 Computer, electronic and optical products	3.4	2.2	4.6	5.5	7.2	7.8	7.2	9.2
27 Electrical equipment	36.7	11.6	34.3	35.3	34.5	23.7	35.9	45.6
28 Machinery and equipment n.e.c.	14.9	11.1	20.8	25.6	30.1	29.4	31.4	52.6
29 Motor vehicles, trailers and semi-trailers	9.3 e	38.1	65.8	47.6	79.4	173.5	153.6	109.4
30 Other transport equipment	2.9 e	11.9	14.5	9.6	12.3	17.6	30.7	19.9
31-33 Furniture; repair, installation of machinery and equipment	..	25.0	..	..	..	..	..	..
31 Furniture	..	0.0	..	..	..	..	..	..
32 Other manufacturing	3.7	3.2	3.1	..	..	..	..	2.1
33 Repair and installation of machinery and equipment	21.2	21.7	17.2	16.5	16.4	..	..	12.1
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>0.0 e</b>	<b>0.4</b>	<b>1.2</b>	<b>1.1</b>	<b>2.4</b>	<b>2.5</b>	<b>..</b>	<b>..</b>
<b>45-99 TOTAL SERVICES</b>	<b>89.7 e</b>	<b>76.0</b>	<b>104.2 e</b>	<b>129.9 e</b>	<b>217.6</b>	<b>240.2</b>	<b>163.5</b>	<b>172.0</b>
<b>45-82 Business sector services</b>	<b>89.9</b>	<b>75.1</b>	<b>101.4</b>	<b>124.9</b>	<b>212.4</b>	<b>237.4</b>	<b>163.1</b>	<b>170.6</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>0.0</b>	<b>0.0</b>	<b>2.2</b>	<b>2.5</b>	<b>0.6</b>	<b>10.3</b>	<b>7.1</b>	<b>4.7</b>
<b>49-53 Transportation and storage</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>
<b>55-56 Accommodation and food service activities</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>
<b>58-63 Information and communication</b>	<b>3.9</b>	<b>3.7</b>	<b>10.7</b>	<b>11.7</b>	<b>61.2</b>	<b>64.8</b>	<b>65.7</b>	<b>82.1</b>
58-60 Publishing, audiovisual and broadcasting activities	..	..	..	..	..	..	..	..
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	..	..	..	..	..	..	..	..
62-63 IT and other information services	3.0	3.0	9.9	..	..	..	..	..
62 Computer programming, consultancy and related activities	3.0 e	3.0 e	9.1	9.6	59.2	62.0	64.5	82.0
63 Information service activities	0.0	0.0	0.7	..	..	..	..	..
<b>64-66 Financial and insurance activities</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>63.5</b>	<b>..</b>	<b>..</b>	<b>..</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>
68 Real estate activities	..	..	..	..	..	..	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	7.6	4.1	12.9	17.4	23.8	31.5	29.8	17.8
72 Scientific research and development	72.9	61.4	70.4	51.1	53.4	52.2	52.4	59.6
77-82 Administrative and support service activities	1.7	2.5	3.3	4.2	3.3	..	..	..
84-99 Community, social and personal services	1.8 e	0.9	2.8 e	5.0 e	5.2	2.8	0.4	1.3
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	1.6	0.9	0.4	1.3
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# SLOVAK REPUBLIC

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>268.9</b>	<b>249.4</b>	<b>349.7</b>	<b>341.9</b>	<b>469.1</b>	<b>545.0</b>	<b>476.6</b>	<b>501.8</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>3.0</b>	<b>2.6</b>	<b>2.4</b>	<b>2.9</b>	<b>1.9</b>	<b>1.5</b>	<b>1.2</b>	<b>1.5</b>
<b>05-09 MINING AND QUARRYING</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>
<b>10-33 MANUFACTURING</b>	<b>168.2</b>	<b>167.9</b>	<b>241.9</b>	<b>208.7</b>	<b>252.0</b>	<b>313.0</b>	<b>321.0</b>	<b>330.4</b>
10-12 Food products, beverages and tobacco	1.9	1.9	3.4	2.3	2.3	1.3	1.8	2.1
13-15 Textiles, wearing apparel, leather and related products	..	..	..	..	2.4	0.9	0.5	..
13 Textiles	..	..	..	..	..	..	..	..
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	..	..	..	..	..	..	..	..
16 Wood and wood products, except furniture	..	..	..	..	..	..	..	..
17 Paper and paper products	..	..	..	..	..	..	..	..
18 Printing and reproduction of recorded media	..	..	..	..	..	..	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	..	..	..	..	51.5	47.4	53.6	..
19 Coke and refined petroleum products	..	..	..	..	5.4	6.4	5.8	..
20-21 Chemical and pharmaceutical products	..	..	29.6	32.2	23.8	13.3	13.8	11.6
20 Chemicals and chemical products	6.5	6.4	7.2	7.0	5.6	9.3	5.7	5.6
21 Pharmaceuticals, medicinal, chemical and botanical products	..	..	22.3	25.1	18.2	4.0	8.1	6.0
22 Rubber and plastic products	16.4	18.5	16.2	11.4	19.8	26.8	30.8	38.2
23 Other non-metallic mineral products	3.4	1.5	1.7	2.1	2.4	0.8	3.0	4.0
24-25 Basic metals, metal products, except machinery and equipment	21.4	18.9	26.0	13.8	17.0	10.1	9.6	31.8
24 Basic metals	10.2	8.9 e	7.5	7.1	7.1	5.8	5.6	5.5
25 Fabricated metal products, except machinery and equipment	11.2	10.0	18.5	6.7	9.9	4.3	4.0	26.3
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	71.7	77.3	140.0	123.0	159.8	238.6	241.5	222.2
26 Computer, electronic and optical products	3.7	2.3	4.6	5.5	7.0	7.4	6.8	8.6
27 Electrical equipment	39.1	12.0	34.3	35.1	33.7	22.5	33.5	42.8
28 Machinery and equipment n.e.c.	15.9	11.4	20.8	25.5	29.4	27.8	29.3	49.4
29 Motor vehicles, trailers and semi-trailers	9.9 e	39.3	65.8	47.3	77.7	164.3	143.3	102.8
30 Other transport equipment	3.1 e	12.3	14.5	9.6	12.0	16.6	28.7	18.7
31-33 Furniture; repair, installation of machinery and equipment	..	25.8	..	..	..	..	..	..
31 Furniture	..	0.0	..	..	..	..	..	..
32 Other manufacturing	3.9	3.3	3.1	..	..	..	..	2.0
33 Repair and installation of machinery and equipment	22.6	22.4	17.2	16.4	16.0	..	..	11.4
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0 e</b>	<b>0.0 e</b>	..	..	..	..
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>0.0 e</b>	<b>0.4</b>	<b>1.2</b>	<b>1.1</b>	<b>2.3</b>	<b>2.3</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>97.7 e</b>	<b>78.5</b>	<b>104.2 e</b>	<b>129.2 e</b>	<b>212.8</b>	<b>227.5</b>	<b>152.5</b>	<b>161.5</b>
<b>45-82 Business sector services</b>	<b>95.8</b>	<b>77.6</b>	<b>101.4</b>	<b>124.2</b>	<b>207.7</b>	<b>224.8</b>	<b>152.2</b>	<b>160.3</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>0.0</b>	<b>0.0</b>	<b>2.2</b>	<b>2.5</b>	<b>0.6</b>	<b>9.7</b>	<b>6.6</b>	<b>4.4</b>
<b>49-53 Transportation and storage</b>	..	..	..	..	..	..	..	..
<b>55-56 Accommodation and food service activities</b>	..	..	..	..	..	..	..	..
<b>58-63 Information and communication</b>	<b>4.1</b>	<b>3.8</b>	<b>10.7</b>	<b>11.7</b>	<b>59.9</b>	<b>61.4</b>	<b>61.3</b>	<b>77.1</b>
58-60 Publishing, audiovisual and broadcasting activities	..	..	..	..	..	..	..	..
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	..	..	..	..	..	..	..	..
62-63 IT and other information services	3.2	3.1	9.9	..	..	..	..	..
62 Computer programming, consultancy and related activities	3.2 e	3.1 e	9.1	9.6	57.9	58.7	60.1	77.0
63 Information service activities	0.0	0.0	0.7	..	..	..	..	..
<b>64-66 Financial and insurance activities</b>	..	..	..	..	<b>62.1</b>	..	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	..	..	..	..	..	..	..
68 Real estate activities	..	..	..	..	..	..	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	8.1	4.3	12.9	17.2	23.3	29.8	27.8	16.8
72 Scientific research and development	77.7	63.4	70.4	50.8	52.2	49.4	48.9	56.0
77-82 Administrative and support service activities	1.9	2.6	3.3	4.1	3.2	..	..	..
84-99 Community, social and personal services	1.9 e	0.9	2.8 e	5.0 e	5.1	2.7	0.4	1.2
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	1.6	0.8	0.4	1.2
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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## SLOVENIA

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>628.4</b>	<b>658.3</b>	<b>794.4</b>	<b>1 058.5</b>	<b>1 158.7</b>	<b>1 211.9</b>	<b>1 178.7</b>	<b>1 112.6</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>0.0</b>	<b>0.4</b>	<b>0.4</b>	<b>0.7</b>	<b>0.9</b>	<b>0.0</b>	<b>0.0</b>	<b>1.0</b>
<b>05-09 MINING AND QUARRYING</b>	<b>5.4</b>	<b>8.5</b>	<b>8.3</b>	<b>9.2</b>	<b>7.4</b>	<b>7.8</b>	<b>5.8</b>	<b>5.2</b>
<b>10-33 MANUFACTURING</b>	<b>519.7</b>	<b>518.8</b>	<b>620.1</b>	<b>722.9</b>	<b>712.0</b>	<b>788.5</b>	<b>778.9</b>	<b>782.8</b>
10-12 Food products, beverages and tobacco	2.2	2.2	2.4	5.8	6.0	10.8	10.9	13.2
13-15 Textiles, wearing apparel, leather and related products	7.0	9.0	9.7	10.5	12.5	13.6	10.9	10.0
13 Textiles	5.2	5.5	7.4	8.5	8.7	9.7	6.0	5.8
14 Wearing apparel	0.7	0.7	0.3	0.4	2.3	2.4	2.2	2.2
15 Leather and related products, footwear	1.1	2.8	1.9	1.6	1.4	1.5	2.8	2.0
16-18 Wood and paper products and printing	5.6	8.9	9.6	7.0	5.3	4.9	5.9	7.5
16 Wood and wood products, except furniture	1.3	1.9	2.4	2.9	2.0	1.2	1.6	2.0
17 Paper and paper products	3.0	4.4	5.4	3.0	2.2	2.5	2.6	4.3
18 Printing and reproduction of recorded media	1.4	2.7	1.8	1.2	1.2	1.3	1.7	1.2
19-23 Chemical, rubber, plastic, non-metallic mineral products	257.4	248.3	302.8	316.3	329.9	345.7	344.7	376.0
19 Coke and refined petroleum products	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-21 Chemical and pharmaceutical products	240.2	231.4	282.6	295.4	304.1	305.2	310.4	344.9
20 Chemicals and chemical products	22.2	21.9	31.0	32.1	33.1	32.3	31.7	31.3
21 Pharmaceuticals, medicinal, chemical and botanical products	218.0	209.5	251.6	263.4	271.0	272.9	278.7	313.5
22 Rubber and plastic products	10.6	12.7	15.3	16.4	16.2	16.2	23.6	20.0
23 Other non-metallic mineral products	6.6	4.2	4.9	4.5	9.6	24.3	10.7	11.1
24-25 Basic metals, metal products, except machinery and equipment	31.5	34.5	46.6	54.2	72.7	69.4	67.5	45.6
24 Basic metals	11.4	10.8	12.6	13.6	9.1	15.2	17.1	13.0
25 Fabricated metal products, except machinery and equipment	20.1	23.7	34.0	40.5	63.6	54.2	50.4	32.5
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	200.8	204.5	233.9	307.0	268.8	325.5	320.9	318.6
26 Computer, electronic and optical products	70.0	60.0	61.9	61.1	62.8	67.8	69.9	67.7
27 Electrical equipment	49.1	64.6	76.0	107.0	77.5	147.6	131.2	154.5
28 Machinery and equipment n.e.c.	21.7	22.7	32.3	51.6	23.5	33.1	33.9	38.1
29 Motor vehicles, trailers and semi-trailers	55.5	51.0	53.3	77.8	102.1	68.1	82.8	54.6
30 Other transport equipment	4.5	6.2	10.4	9.6	3.0	9.0	3.2	3.7
31-33 Furniture; repair, installation of machinery and equipment	15.2	11.5	15.2	22.2	16.8	18.6	18.0	11.9
31 Furniture	1.1	1.9	4.1	4.5	1.9	3.1	2.8	1.4
32 Other manufacturing	4.3	5.1	5.7	10.7	11.6	6.2	6.3	7.9
33 Repair and installation of machinery and equipment	9.8	4.5	5.3	7.0	3.3	9.3	8.9	2.6
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>0.1</b>	<b>1.5</b>	<b>1.6</b>	<b>4.2</b>	<b>6.9</b>	<b>4.7</b>	<b>4.6</b>	<b>3.7</b>
35-36 Electricity, gas and water	0.1	1.5	1.6	4.0	6.7	3.0	2.9	2.5
37-39 Sewerage, waste management and remediation activities	0.0	0.0	0.0	0.3	0.2	1.7	1.7	1.2
<b>41-43 CONSTRUCTION</b>	<b>0.1</b>	<b>0.1</b>	<b>0.6</b>	<b>2.1</b>	<b>2.5</b>	<b>2.9</b>	<b>3.8</b>	<b>3.9</b>
<b>45-99 TOTAL SERVICES</b>	<b>103.1</b>	<b>129.1</b>	<b>163.3</b>	<b>319.4</b>	<b>429.0</b>	<b>408.1</b>	<b>385.6</b>	<b>316.1</b>
<b>45-82 Business sector services</b>	<b>102.4</b>	<b>128.4</b>	<b>162.3</b>	<b>314.5</b>	<b>423.6</b>	<b>404.9</b>	<b>382.7</b>	<b>313.6</b>
45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs	2.9	10.5	9.2	9.9	9.5	12.5	15.6	10.6
49-53 Transportation and storage	0.0	1.9	2.2	3.3	1.3	0.3	0.3	0.4
55-56 Accommodation and food service activities	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
<b>58-63 Information and communication</b>	<b>26.8</b>	<b>34.8</b>	<b>40.2</b>	<b>69.2</b>	<b>73.7</b>	<b>55.8</b>	<b>80.5</b>	<b>86.8</b>
58-60 Publishing, audiovisual and broadcasting activities	4.0	2.7	1.6	6.2	21.7	6.6	5.9	7.4
58 Publishing activities	4.0	2.7	1.6	6.1	6.5	6.6	5.9	7.3
59-60 Motion picture, video and TV programme production; broadcasting activities	0.0	0.0	0.0	0.1	15.1	0.0	0.0	0.1
59 Motion picture, video and TV programme production; sound and music	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
60 Programming and broadcasting activities	0.0	0.0	0.0	0.0	15.1	0.0	0.0	0.0
61 Telecommunications	1.5	3.1	7.4	4.5	2.8	2.7	11.9	13.0
62-63 IT and other information services	21.2	29.0	31.2	58.5	49.3	46.5	62.6	66.5
62 Computer programming, consultancy and related activities	20.3	28.3	28.3	54.5	44.6	42.8	57.4	59.6
63 Information service activities	0.9	0.7	2.9	4.0	4.7	3.7	5.2	6.9
<b>64-66 Financial and insurance activities</b>	<b>0.7</b>	<b>1.0</b>	<b>2.3</b>	<b>19.8</b>	<b>10.5</b>	<b>16.7</b>	<b>6.6</b>	<b>1.7</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>72.0</b>	<b>80.3</b>	<b>108.5</b>	<b>212.3</b>	<b>328.6</b>	<b>319.7</b>	<b>279.7</b>	<b>214.1</b>
68 Real estate activities	0.0	0.0	0.0	0.0	0.0	1.0	1.5	0.9
69-75x72 Professional, scientific and technical activities, except scientific R&D	34.0	39.5	40.1	68.8	57.7	52.8	59.6	57.3
72 Scientific research and development	35.9	38.8	67.6	143.4	270.8	264.7	217.6	154.6
77-82 Administrative and support service activities	2.0	2.1	0.7	0.1	0.1	1.2	1.0	1.3
84-99 Community, social and personal services	0.7	0.8	1.0	5.0	5.4	3.1	2.8	2.4
84-85 Public administration and defence; compulsory social security and education	0.1	0.1	0.2	0.5	0.6	0.4	1.0	1.3
86-88 Human health and social work activities	0.6	0.6	0.8	2.7	2.2	0.5	0.2	0.2
90-93 Arts, entertainment and recreation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94-99 Other services; household-employers; extraterritorial bodies	0.0	0.0	0.0	1.8	2.6	2.2	1.6	1.0

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.Disclaimer: <http://oe.cd/disclaimer>

## SLOVENIA

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>640.1</b>	<b>660.0</b>	<b>794.4</b>	<b>1 025.8</b>	<b>1 089.0</b>	<b>1 098.9</b>	<b>1 048.9</b>	<b>981.5</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>0.0</b>	<b>0.4</b>	<b>0.4</b>	<b>0.7</b>	<b>0.9</b>	<b>0.0</b>	<b>0.0</b>	<b>0.8</b>
<b>05-09 MINING AND QUARRYING</b>	<b>5.5</b>	<b>8.5</b>	<b>8.3</b>	<b>8.9</b>	<b>6.9</b>	<b>7.1</b>	<b>5.2</b>	<b>4.6</b>
<b>10-33 MANUFACTURING</b>	<b>529.4</b>	<b>520.1</b>	<b>620.1</b>	<b>700.6</b>	<b>669.2</b>	<b>714.9</b>	<b>693.1</b>	<b>690.6</b>
10-12 Food products, beverages and tobacco	2.2	2.2	2.4	5.6	5.7	9.8	9.7	11.6
13-15 Textiles, wearing apparel, leather and related products	7.2	9.0	9.7	10.1	11.7	12.3	9.7	8.9
13 Textiles	5.3	5.5	7.4	8.3	8.2	8.8	5.4	5.2
14 Wearing apparel	0.7	0.7	0.3	0.3	2.2	2.1	1.9	1.9
15 Leather and related products, footwear	1.2	2.8	1.9	1.5	1.4	1.4	2.5	1.8
16-18 Wood and paper products and printing	5.7	8.9	9.6	6.8	5.0	4.5	5.2	6.6
16 Wood and wood products, except furniture	1.3	1.9	2.4	2.8	1.9	1.1	1.4	1.8
17 Paper and paper products	3.0	4.4	5.4	2.9	2.0	2.2	2.3	3.8
18 Printing and reproduction of recorded media	1.4	2.7	1.8	1.1	1.1	1.1	1.5	1.0
19-23 Chemical, rubber, plastic, non-metallic mineral products	262.2	249.0	302.8	306.5	310.1	313.4	306.7	331.7
19 Coke and refined petroleum products	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-21 Chemical and pharmaceutical products	244.7	232.0	282.6	286.3	285.8	276.7	276.2	304.2
20 Chemicals and chemical products	22.6	22.0	31.0	31.1	31.1	29.2	28.2	27.7
21 Pharmaceuticals, medicinal, chemical and botanical products	222.1	210.0	251.6	255.2	254.7	247.4	248.0	276.6
22 Rubber and plastic products	10.8	12.7	15.3	15.8	15.3	14.7	21.0	17.6
23 Other non-metallic mineral products	6.7	4.2	4.9	4.4	9.0	22.1	9.5	9.8
24-25 Basic metals, metal products, except machinery and equipment	32.0	34.6	46.6	52.5	68.3	62.9	60.1	40.2
24 Basic metals	11.6	10.8	12.6	13.2	8.5	13.8	15.2	11.5
25 Fabricated metal products, except machinery and equipment	20.4	23.7	34.0	39.3	59.8	49.1	44.8	28.7
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	204.5	205.0	233.9	297.5	252.6	295.1	285.6	281.0
26 Computer, electronic and optical products	71.3	60.2	61.9	59.2	59.0	61.4	62.2	59.7
27 Electrical equipment	50.0	64.8	76.0	103.7	72.8	133.8	116.7	136.3
28 Machinery and equipment n.e.c.	22.1	22.7	32.3	50.0	22.1	30.0	30.1	33.6
29 Motor vehicles, trailers and semi-trailers	56.5	51.1	53.3	75.4	95.9	61.7	73.7	48.2
30 Other transport equipment	4.6	6.2	10.4	9.3	2.9	8.1	2.8	3.3
31-33 Furniture; repair, installation of machinery and equipment	15.5	11.5	15.2	21.5	15.8	16.8	16.0	10.5
31 Furniture	1.1	1.9	4.1	4.3	1.8	2.8	2.5	1.2
32 Other manufacturing	4.4	5.2	5.7	10.4	10.9	5.6	5.6	6.9
33 Repair and installation of machinery and equipment	10.0	4.5	5.3	6.8	3.1	8.4	7.9	2.3
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>0.1</b>	<b>1.5</b>	<b>1.6</b>	<b>4.1</b>	<b>6.5</b>	<b>4.3</b>	<b>4.1</b>	<b>3.2</b>
35-36 Electricity, gas and water	0.1	1.5	1.6	3.8	6.3	2.7	2.6	2.2
37-39 Sewerage, waste management and remediation activities	0.0	0.0	0.0	0.2	0.2	1.6	1.5	1.0
<b>41-43 CONSTRUCTION</b>	<b>0.1</b>	<b>0.1</b>	<b>0.6</b>	<b>2.0</b>	<b>2.3</b>	<b>2.6</b>	<b>3.4</b>	<b>3.5</b>
<b>45-99 TOTAL SERVICES</b>	<b>105.0</b>	<b>129.5</b>	<b>163.3</b>	<b>309.6</b>	<b>403.2</b>	<b>370.0</b>	<b>343.1</b>	<b>278.8</b>
<b>45-82 Business sector services</b>	<b>104.3</b>	<b>128.7</b>	<b>162.3</b>	<b>304.7</b>	<b>398.2</b>	<b>367.2</b>	<b>340.6</b>	<b>276.7</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>3.0</b>	<b>10.5</b>	<b>9.2</b>	<b>9.6</b>	<b>8.9</b>	<b>11.3</b>	<b>13.9</b>	<b>9.3</b>
<b>49-53 Transportation and storage</b>	<b>0.0</b>	<b>1.9</b>	<b>2.2</b>	<b>3.2</b>	<b>1.2</b>	<b>0.3</b>	<b>0.2</b>	<b>0.4</b>
<b>55-56 Accommodation and food service activities</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.0</b>
<b>58-63 Information and communication</b>	<b>27.3</b>	<b>34.9</b>	<b>40.2</b>	<b>67.1</b>	<b>69.3</b>	<b>50.6</b>	<b>71.6</b>	<b>76.6</b>
58-60 Publishing, audiovisual and broadcasting activities	4.1	2.7	1.6	6.0	20.4	6.0	5.3	6.5
58 Publishing activities	4.1	2.7	1.6	5.9	6.1	6.0	5.3	6.4
59-60 Motion picture, video and TV programme production; broadcasting activities	0.0	0.0	0.0	0.1	14.2	0.0	0.0	0.1
59 Motion picture, video and TV programme production; sound and music	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
60 Programming and broadcasting activities	0.0	0.0	0.0	0.0	14.2	0.0	0.0	0.0
61 Telecommunications	1.6	3.1	7.4	4.4	2.6	2.4	10.6	11.4
62-63 IT and other information services	21.6	29.1	31.2	56.7	46.3	42.2	55.7	58.7
62 Computer programming, consultancy and related activities	20.7	28.4	28.3	52.8	41.9	38.8	51.1	52.6
63 Information service activities	0.9	0.7	2.9	3.9	4.4	3.4	4.6	6.1
<b>64-66 Financial and insurance activities</b>	<b>0.7</b>	<b>1.0</b>	<b>2.3</b>	<b>19.2</b>	<b>9.9</b>	<b>15.2</b>	<b>5.9</b>	<b>1.5</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>73.3</b>	<b>80.5</b>	<b>108.5</b>	<b>205.7</b>	<b>308.9</b>	<b>289.8</b>	<b>248.9</b>	<b>188.9</b>
68 Real estate activities	0.0	0.0	0.0	0.0	0.0	0.9	1.3	0.8
69-75x72 Professional, scientific and technical activities, except scientific R&D	34.7	39.6	40.1	66.7	54.3	47.8	53.1	50.6
72 Scientific research and development	36.6	38.8	67.6	138.9	254.5	240.0	193.6	136.4
77-82 Administrative and support service activities	2.0	2.1	0.7	0.1	0.0	1.1	0.9	1.1
84-99 Community, social and personal services	0.7	0.8	1.0	4.8	5.1	2.8	2.5	2.2
84-85 Public administration and defence; compulsory social security and education	0.1	0.1	0.2	0.5	0.6	0.4	0.9	1.1
86-88 Human health and social work activities	0.6	0.6	0.8	2.6	2.1	0.4	0.2	0.1
90-93 Arts, entertainment and recreation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94-99 Other services; household-employers; extraterritorial bodies	0.0	0.0	0.0	1.7	2.4	2.0	1.4	0.9

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.Disclaimer: <http://oe.cd/disclaimer>

# SPAIN

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>11 122.7</b>	<b>10 542.8</b>	<b>10 345.4</b>	<b>10 357.2</b>	<b>10 208.0</b>	<b>10 234.7</b>	<b>10 234.8</b>	<b>10 367.8</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>100.7</b>	<b>77.6</b>	<b>76.9</b>	<b>74.6</b>	<b>76.8</b>	<b>78.7</b>	<b>88.1</b>	<b>90.1</b>
<b>05-09 MINING AND QUARRYING</b>	<b>28.1</b>	<b>23.4</b>	<b>25.7</b>	<b>27.4</b>	<b>24.1</b>	<b>20.5</b>	<b>18.4</b>	<b>19.7</b>
<b>10-33 MANUFACTURING</b>	<b>4 730.5</b>	<b>4 636.2</b>	<b>4 611.7</b>	<b>4 789.7</b>	<b>4 611.5</b>	<b>4 595.7</b>	<b>4 670.4</b>	<b>4 711.5</b>
10-12 Food products, beverages and tobacco	315.2	290.0	273.5	272.0	269.4	275.7	278.9	271.7
13-15 Textiles, wearing apparel, leather and related products	157.6	127.2	115.4	113.9	134.7	149.5	208.2	207.9
13 Textiles	63.1	46.8	42.7	45.4	42.7	41.8	42.9	34.2
14 Wearing apparel	71.8	61.6	53.5	51.9	75.7	88.3	145.0	151.3
15 Leather and related products, footwear	22.7	18.8	19.2	16.5	16.2	19.3	20.3	22.4
16-18 Wood and paper products and printing	81.6	65.4	61.8	65.7	53.7	48.2	52.2	50.8
16 Wood and wood products, except furniture	18.0	14.9	20.5	17.7	13.5	12.5	13.5	11.6
17 Paper and paper products	31.5	27.4	24.5	34.9	23.5	20.7	19.5	21.4
18 Printing and reproduction of recorded media	32.1	23.0	16.8	13.1	16.7	14.9	19.2	17.8
19-23 Chemical, rubber, plastic, non-metallic mineral products	1 663.5	1 596.3	1 534.9	1 567.0	1 518.2	1 543.3	1 555.1	1 555.5
19 Coke and refined petroleum products	86.5	72.5	82.5	96.1	99.3	101.8	104.7	102.4
20-21 Chemical and pharmaceutical products	1 284.5	1 257.4	1 210.3	1 229.2	1 182.1	1 196.5	1 224.5	1 234.0
20 Chemicals and chemical products	392.7	331.8	343.5	339.2	337.6	354.7	352.2	345.1
21 Pharmaceuticals, medicinal, chemical and botanical products	891.7	925.5	866.8	890.0	844.5	841.8	872.3	889.0
22 Rubber and plastic products	165.7	156.3	143.8	143.0	154.1	153.8	143.7	145.1
23 Other non-metallic mineral products	126.9	110.0	98.3	98.7	82.7	91.1	82.2	74.0
24-25 Basic metals, metal products, except machinery and equipment	342.6	299.6	290.3	323.3	280.0	261.6	256.9	242.8
24 Basic metals	108.0	96.7	101.0	128.3	92.9	81.3	78.0	67.6
25 Fabricated metal products, except machinery and equipment	234.6	202.9	189.4	195.0	187.0	180.4	178.9	175.1
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	2 006.2	2 107.2	2 216.5	2 322.8	2 237.2	2 192.3	2 196.3	2 267.2
26 Computer, electronic and optical products	375.8	335.1	320.0	291.4	258.5	260.4	256.8	245.1
27 Electrical equipment	320.8	294.6	283.2	273.5	301.1	281.3	289.0	318.0
28 Machinery and equipment n.e.c.	324.0	339.9	297.3	314.3	327.2	323.2	318.7	333.1
29 Motor vehicles, trailers and semi-trailers	406.4	485.1	526.7	500.5	490.4	486.3	565.9	549.3
30 Other transport equipment	579.3	652.6	789.2	943.1	859.9	841.1	765.9	821.8
31-33 Furniture; repair, installation of machinery and equipment	163.8	150.5	119.2	124.9	118.4	125.1	122.8	115.7
31 Furniture	35.6	34.1	27.3	26.5	22.9	22.7	27.1	22.1
32 Other manufacturing	89.9	89.5	72.5	80.0	77.2	83.7	76.0	78.0
33 Repair and installation of machinery and equipment	38.2	26.9	19.4	18.4	18.3	18.8	19.8	15.6
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>173.9</b>	<b>216.6</b>	<b>234.2</b>	<b>260.8</b>	<b>291.3</b>	<b>250.3</b>	<b>226.0</b>	<b>233.8</b>
35-36 Electricity, gas and water	131.6	168.1	193.2	219.7	262.8	221.1	193.6	202.8
37-39 Sewerage, waste management and remediation activities	42.3	48.6	40.9	41.1	28.5	29.2	32.4	31.0
<b>41-43 CONSTRUCTION</b>	<b>333.3</b>	<b>264.6</b>	<b>219.0</b>	<b>218.0</b>	<b>197.6</b>	<b>182.5</b>	<b>196.1</b>	<b>154.5</b>
<b>45-99 TOTAL SERVICES</b>	<b>5 756.3</b>	<b>5 324.3</b>	<b>5 177.9</b>	<b>4 986.7</b>	<b>5 006.6</b>	<b>5 107.1</b>	<b>5 035.9</b>	<b>5 158.2</b>
<b>45-82 Business sector services</b>	<b>5 506.0</b>	<b>5 135.3</b>	<b>5 013.1</b>	<b>4 823.8</b>	<b>4 835.0</b>	<b>4 925.7</b>	<b>4 846.2</b>	<b>4 979.4</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>555.7</b>	<b>376.7</b>	<b>312.2</b>	<b>309.1</b>	<b>308.5</b>	<b>301.4</b>	<b>264.5</b>	<b>305.6</b>
<b>49-53 Transportation and storage</b>	<b>130.9</b>	<b>99.8</b>	<b>129.0</b>	<b>85.0</b>	<b>85.9</b>	<b>67.3</b>	<b>71.1</b>	<b>54.2</b>
<b>55-56 Accommodation and food service activities</b>	<b>17.9</b>	<b>13.4</b>	<b>8.3</b>	<b>2.9</b>	<b>11.5</b>	<b>6.9</b>	<b>5.9</b>	<b>5.5</b>
<b>58-63 Information and communication</b>	<b>1 383.1</b>	<b>1 289.8</b>	<b>1 217.2</b>	<b>1 229.5</b>	<b>1 223.5</b>	<b>1 253.3</b>	<b>1 290.2</b>	<b>1 190.5</b>
58-60 Publishing, audiovisual and broadcasting activities	152.5	87.2	92.8	78.7	74.7	61.2	66.3	57.6
58 Publishing activities	105.9	62.1	66.0	55.2	48.1	42.6	52.5	36.7
59-60 Motion picture, video and TV programme production; broadcasting activities	46.6	25.1	26.8	23.5	26.6	18.6	13.8	20.9
59 Motion picture, video and TV programme production; sound and music	40.8	20.2	22.9	18.1	19.9	12.7	10.8	15.5
60 Programming and broadcasting activities	5.8	4.9	3.9	5.4	6.7	5.9	3.0	5.3
61 Telecommunications	311.6	286.4	235.2	240.1	221.4	221.7	224.8	204.9
62-63 IT and other information services	919.0	916.2	889.2	910.7	927.5	970.4	999.2	928.1
62 Computer programming, consultancy and related activities	877.0	866.3	835.7	836.4	858.1	915.8	943.1	866.8
63 Information service activities	42.0	49.9	53.5	74.3	69.4	54.6	56.1	61.3
<b>64-66 Financial and insurance activities</b>	<b>172.1</b>	<b>254.7</b>	<b>266.6</b>	<b>213.3</b>	<b>134.8</b>	<b>131.8</b>	<b>126.2</b>	<b>203.6</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>3 246.3</b>	<b>3 100.8</b>	<b>3 079.8</b>	<b>2 984.0</b>	<b>3 070.8</b>	<b>3 165.0</b>	<b>3 088.2</b>	<b>3 220.0</b>
68 Real estate activities	10.0	12.7	11.1	8.9	8.7	3.2	8.0	7.4
69-75x72 Professional, scientific and technical activities, except scientific R&D	919.8	851.3	852.4	894.8	869.2	915.6	849.5	847.6
72 Scientific research and development	2 250.8	2 174.2	2 162.1	2 031.8	2 123.4	2 175.4	2 170.9	2 307.2
77-82 Administrative and support service activities	65.7	62.7	54.2	48.5	69.5	70.8	59.8	57.8
84-99 Community, social and personal services	250.3	188.9	164.8	162.9	171.6	181.5	189.8	178.8
84-85 Public administration and defence; compulsory social security and education	29.8	29.8	19.2	20.1	19.6	15.1	16.8	10.4
86-88 Human health and social work activities	166.2	119.9	114.7	104.3	120.7	134.9	141.3	134.8
90-93 Arts, entertainment and recreation	11.1	5.6	4.8	5.3	5.1	7.1	7.6	9.3
94-99 Other services; household-employers; extraterritorial bodies	43.2	33.6	26.1	33.1	26.3	24.3	24.0	24.3

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# SPAIN

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>11 173.0</b>	<b>10 446.4</b>	<b>10 345.4</b>	<b>10 190.8</b>	<b>9 767.9</b>	<b>9 475.7</b>	<b>9 332.9</b>	<b>9 472.0</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>101.1</b>	<b>76.9</b>	<b>76.9</b>	<b>73.4</b>	<b>73.5</b>	<b>72.8</b>	<b>80.3</b>	<b>82.3</b>
<b>05-09 MINING AND QUARRYING</b>	<b>28.2</b>	<b>23.2</b>	<b>25.7</b>	<b>26.9</b>	<b>23.1</b>	<b>18.9</b>	<b>16.8</b>	<b>18.0</b>
<b>10-33 MANUFACTURING</b>	<b>4 751.9</b>	<b>4 593.9</b>	<b>4 611.7</b>	<b>4 712.7</b>	<b>4 412.7</b>	<b>4 254.9</b>	<b>4 258.9</b>	<b>4 304.4</b>
10-12 Food products, beverages and tobacco	316.6	287.4	273.5	267.7	257.8	255.2	254.3	248.2
13-15 Textiles, wearing apparel, leather and related products	158.3	126.0	115.4	112.1	128.9	138.4	189.8	189.9
13 Textiles	63.4	46.4	42.7	44.7	40.9	38.7	39.1	31.2
14 Wearing apparel	72.1	61.1	53.5	51.1	72.4	81.7	132.2	138.3
15 Leather and related products, footwear	22.8	18.6	19.2	16.2	15.5	17.9	18.5	20.4
16-18 Wood and paper products and printing	82.0	64.8	61.8	64.7	51.4	44.6	47.6	46.4
16 Wood and wood products, except furniture	18.1	14.8	20.5	17.4	12.9	11.6	12.3	10.6
17 Paper and paper products	31.6	27.2	24.5	34.3	22.5	19.2	17.8	19.6
18 Printing and reproduction of recorded media	32.2	22.8	16.8	12.9	16.0	13.8	17.5	16.2
19-23 Chemical, rubber, plastic, non-metallic mineral products	1 671.0	1 581.7	1 534.9	1 541.8	1 452.7	1 428.8	1 418.1	1 421.1
19 Coke and refined petroleum products	86.9	71.9	82.5	94.5	95.0	94.3	95.5	93.5
20-21 Chemical and pharmaceutical products	1 290.3	1 245.9	1 210.3	1 209.4	1 131.1	1 107.8	1 116.6	1 127.4
20 Chemicals and chemical products	394.5	328.8	343.5	333.7	323.1	328.4	321.2	315.3
21 Pharmaceuticals, medicinal, chemical and botanical products	895.8	917.1	866.8	875.7	808.1	779.4	795.5	812.1
22 Rubber and plastic products	166.4	154.9	143.8	140.7	147.5	142.4	131.1	132.5
23 Other non-metallic mineral products	127.5	109.0	98.3	97.1	79.1	84.4	74.9	67.6
24-25 Basic metals, metal products, except machinery and equipment	344.1	296.8	290.3	318.1	267.9	242.2	234.2	221.8
24 Basic metals	108.5	95.8	101.0	126.3	88.9	75.2	71.1	61.8
25 Fabricated metal products, except machinery and equipment	235.6	201.0	189.4	191.8	179.0	167.0	163.1	160.0
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	2 015.3	2 087.9	2 216.5	2 285.5	2 140.7	2 029.8	2 002.8	2 071.3
26 Computer, electronic and optical products	377.5	332.0	320.0	286.7	247.4	241.1	234.2	223.9
27 Electrical equipment	322.2	291.9	283.2	269.1	288.2	260.4	263.5	290.5
28 Machinery and equipment n.e.c.	325.5	336.8	297.3	309.3	313.1	299.2	290.6	304.3
29 Motor vehicles, trailers and semi-trailers	408.2	480.6	526.7	492.5	469.3	450.3	516.0	501.8
30 Other transport equipment	581.9	646.6	789.2	927.9	822.9	778.7	698.4	750.8
31-33 Furniture; repair, installation of machinery and equipment	164.5	149.2	119.2	122.9	113.3	115.9	112.0	105.7
31 Furniture	35.8	33.8	27.3	26.1	21.9	21.0	24.7	20.2
32 Other manufacturing	90.3	88.7	72.5	78.7	73.8	77.5	69.3	71.2
33 Repair and installation of machinery and equipment	38.4	26.7	19.4	18.1	17.6	17.4	18.0	14.2
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>174.6</b>	<b>214.7</b>	<b>234.2</b>	<b>256.6</b>	<b>278.8</b>	<b>231.7</b>	<b>206.0</b>	<b>213.6</b>
35-36 Electricity, gas and water	132.2	166.5	193.2	216.2	251.5	204.7	176.5	185.3
37-39 Sewerage, waste management and remediation activities	42.5	48.1	40.9	40.4	27.3	27.0	29.5	28.4
<b>41-43 CONSTRUCTION</b>	<b>334.8</b>	<b>262.2</b>	<b>219.0</b>	<b>214.5</b>	<b>189.1</b>	<b>169.0</b>	<b>178.8</b>	<b>141.1</b>
<b>45-99 TOTAL SERVICES</b>	<b>5 782.3</b>	<b>5 275.6</b>	<b>5 177.9</b>	<b>4 906.6</b>	<b>4 790.8</b>	<b>4 728.4</b>	<b>4 592.2</b>	<b>4 712.5</b>
<b>45-82 Business sector services</b>	<b>5 530.9</b>	<b>5 088.4</b>	<b>5 013.1</b>	<b>4 746.3</b>	<b>4 626.6</b>	<b>4 560.4</b>	<b>4 419.1</b>	<b>4 549.2</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>558.3</b>	<b>373.3</b>	<b>312.2</b>	<b>304.1</b>	<b>295.2</b>	<b>279.0</b>	<b>241.2</b>	<b>279.2</b>
<b>49-53 Transportation and storage</b>	<b>131.5</b>	<b>98.9</b>	<b>129.0</b>	<b>83.7</b>	<b>82.2</b>	<b>62.3</b>	<b>64.8</b>	<b>49.5</b>
<b>55-56 Accommodation and food service activities</b>	<b>17.9</b>	<b>13.3</b>	<b>8.3</b>	<b>2.8</b>	<b>11.0</b>	<b>6.4</b>	<b>5.4</b>	<b>5.1</b>
<b>58-63 Information and communication</b>	<b>1 389.4</b>	<b>1 278.0</b>	<b>1 217.2</b>	<b>1 209.7</b>	<b>1 170.8</b>	<b>1 160.4</b>	<b>1 176.5</b>	<b>1 087.7</b>
58-60 Publishing, audiovisual and broadcasting activities	153.2	86.4	92.8	77.4	71.4	56.7	60.4	52.6
58 Publishing activities	106.4	61.5	66.0	54.3	46.0	39.5	47.9	33.5
59-60 Motion picture, video and TV programme production; broadcasting activities	46.8	24.9	26.8	23.1	25.4	17.2	12.6	19.1
59 Motion picture, video and TV programme production; sound and music	41.0	20.0	22.9	17.9	19.0	11.8	9.9	14.2
60 Programming and broadcasting activities	5.8	4.9	3.9	5.3	6.4	5.5	2.7	4.9
61 Telecommunications	313.0	283.7	235.2	236.2	211.9	205.2	205.0	187.2
62-63 IT and other information services	923.2	907.8	889.2	896.1	887.5	898.4	911.1	847.9
62 Computer programming, consultancy and related activities	880.9	858.3	835.7	822.9	821.1	847.9	860.0	791.9
63 Information service activities	42.2	49.5	53.5	73.2	66.4	50.6	51.2	56.0
<b>64-66 Financial and insurance activities</b>	<b>172.9</b>	<b>252.4</b>	<b>266.6</b>	<b>209.9</b>	<b>129.0</b>	<b>122.0</b>	<b>115.1</b>	<b>186.0</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>3 261.0</b>	<b>3 072.5</b>	<b>3 079.8</b>	<b>2 936.1</b>	<b>2 938.4</b>	<b>2 930.3</b>	<b>2 816.1</b>	<b>2 941.8</b>
68 Real estate activities	10.0	12.6	11.1	8.8	8.3	3.0	7.3	6.8
69-75x72 Professional, scientific and technical activities, except scientific R&D	924.0	843.5	852.4	880.4	831.7	847.7	774.6	774.4
72 Scientific research and development	2 261.0	2 154.3	2 162.1	1 999.2	2 031.9	2 014.1	1 979.6	2 107.8
77-82 Administrative and support service activities	66.0	62.1	54.2	47.7	66.5	65.6	54.5	52.8
84-99 Community, social and personal services	251.4	187.2	164.8	160.3	164.2	168.0	173.0	163.3
84-85 Public administration and defence; compulsory social security and education	29.9	29.5	19.2	19.8	18.8	14.0	15.4	9.5
86-88 Human health and social work activities	167.0	118.8	114.7	102.6	115.5	124.9	128.9	123.1
90-93 Arts, entertainment and recreation	11.1	5.6	4.8	5.2	4.9	6.6	6.9	8.5
94-99 Other services; household-employers; extraterritorial bodies	43.4	33.3	26.1	32.6	25.1	22.5	21.9	22.2

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# SWEDEN

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>9 987.6</b>	<b>8 905.5</b>	<b>8 639.7</b>	<b>9 175.1</b>	<b>9 470.3</b>	<b>9 995.0</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>22.0 e</b>	<b>20.0 e</b>	<b>20.4 e</b>	<b>22.7</b>	<b>22.9 e</b>	<b>23.7 e</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>18.3 e</b>	<b>16.7 e</b>	<b>17.0 e</b>	<b>18.9 e</b>	<b>19.1 e</b>	<b>19.7 e</b>	..	..
<b>10-33 MANUFACTURING</b>	<b>7 226.4 e</b>	<b>6 695.7</b>	<b>6 350.4 e</b>	<b>6 592.8</b>	<b>6 737.3 e</b>	<b>7 043.3</b>	..	..
10-12 Food products, beverages and tobacco	49.7 e	42.3	42.6 e	46.8	47.4 e	49.2	..	..
13-15 Textiles, wearing apparel, leather and related products	9.9 e	9.2	6.9 e	5.2	5.5 e	5.9	..	..
13 Textiles	..	..	..	..	..	..	..	..
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	352.3 e	369.7	228.3 e	107.1	124.7 e	145.7	..	..
16 Wood and wood products, except furniture	..	..	..	..	..	..	..	..
17 Paper and paper products	..	365.7	..	102.8	..	136.8	..	..
18 Printing and reproduction of recorded media	..	..	..	..	..	..	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	1 212.2 e	959.7	987.4 e	1 107.0	1 086.2 e	1 089.9	..	..
19 Coke and refined petroleum products	..	..	..	..	..	..	..	..
20-21 Chemical and pharmaceutical products	..	..	..	..	..	..	..	..
20 Chemicals and chemical products	..	..	..	..	..	..	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	939.6 e	709.2	757.5 e	876.5	834.0 e	809.6	..	..
22 Rubber and plastic products	26.2 e	26.8	24.3 e	24.0	26.6 e	30.0	..	..
23 Other non-metallic mineral products	11.8 e	12.0	12.7 e	14.6	15.3 e	16.4	..	..
24-25 Basic metals, metal products, except machinery and equipment	391.6 e	386.2	309.5 e	261.0	308.5 e	364.5	..	..
24 Basic metals	187.5 e	175.4	164.3 e	168.4	206.5 e	250.4	..	..
25 Fabricated metal products, except machinery and equipment	204.1 e	210.8	145.2 e	92.6	102.0 e	114.1	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	4 977.5 e	4 709.2	4 589.0 e	4 894.0	4 998.2 e	5 221.2	..	..
26 Computer, electronic and optical products	2 185.9 e	2 087.1	2 024.4 e	2 149.1	2 071.2 e	2 039.0	..	..
27 Electrical equipment	271.4 e	255.2	252.7 e	273.5	298.5 e	331.0	..	..
28 Machinery and equipment n.e.c.	668.5 e	636.2	630.0 e	682.3	704.4 e	743.5	..	..
29 Motor vehicles, trailers and semi-trailers	1 188.7 e	1 040.0 e	1 010.7 e	1 075.1	1 156.2 e	1 266.5 e	..	..
30 Other transport equipment	663.0 e	690.7 e	671.3 e	714.0	767.9 e	841.2 e	..	..
31-33 Furniture; repair, installation of machinery and equipment	233.1 e	219.2	186.6 e	171.2	166.8 e	166.2	..	..
31 Furniture	14.8 e	15.7	12.2 e	9.7	13.4 e	17.6	..	..
32 Other manufacturing	126.2 e	105.3	107.6 e	120.0	127.5 e	138.2	..	..
33 Repair and installation of machinery and equipment	92.2 e	98.2	66.9 e	41.5	25.9 e	10.5	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>13.4 e</b>	<b>13.2</b>	<b>11.4 e</b>	<b>10.6</b>	<b>24.0 e</b>	<b>38.4</b>	..	..
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>36.1 e</b>	<b>19.1</b>	<b>17.5 e</b>	<b>17.6</b>	<b>22.7 e</b>	<b>28.5</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>2 671.5 e</b>	<b>2 140.8 e</b>	<b>2 223.0 e</b>	<b>2 512.4 e</b>	<b>2 644.2 e</b>	<b>2 841.5 e</b>	..	..
<b>45-82 Business sector services</b>	<b>2 638.4 e</b>	<b>2 114.6</b>	<b>2 204.7 e</b>	<b>2 500.3</b>	<b>2 606.9 e</b>	<b>2 777.5 e</b>	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>292.6 e</b>	<b>254.3 e</b>	<b>380.4 e</b>	<b>542.5</b>	<b>571.0 e</b>	<b>613.7</b>	..	..
<b>49-53 Transportation and storage</b>	<b>17.7 e</b>	<b>14.6</b>	<b>15.0 e</b>	<b>16.7</b>	<b>26.7 e</b>	<b>37.6</b>	..	..
<b>55-56 Accommodation and food service activities</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	..	..
<b>58-63 Information and communication</b>	<b>660.9 e</b>	<b>512.4</b>	<b>427.0 e</b>	<b>380.4</b>	<b>447.0 e</b>	<b>526.0</b>	..	..
58-60 Publishing, audiovisual and broadcasting activities	..	85.0	..	80.2	..	130.4	..	..
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	..	..	..	..	..	..	..	..
62-63 IT and other information services	..	..	..	..	..	..	..	..
62 Computer programming, consultancy and related activities	..	..	..	..	..	..	..	..
63 Information service activities	..	..	..	..	..	..	..	..
<b>64-66 Financial and insurance activities</b>	<b>90.3 e</b>	<b>70.3</b>	<b>77.4 e</b>	<b>91.8</b>	<b>95.7 e</b>	<b>102.0</b>	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>1 576.9 e</b>	<b>1 261.8</b>	<b>1 304.9 e</b>	<b>1 468.7</b>	<b>1 466.5 e</b>	<b>1 498.3</b>	..	..
68 Real estate activities	0.0 e	0.0 e	0.0 e	0.0 e	0.0 e	0.0 e	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	160.2 e	111.7	149.3 e	201.6	323.0 e	455.5	..	..
72 Scientific research and development	1 409.6 e	1 149.9	1 147.5 e	1 255.1	1 132.9 e	1 033.5	..	..
77-82 Administrative and support service activities	7.1 e	4.8 e	8.0 e	12.0	10.5 e	9.3	..	..
84-99 Community, social and personal services	33.1 e	26.2 e	18.3 e	12.1 e	37.2 e	64.0 e	..	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

Disclaimer: <http://oe.cd/disclaimer>



# SWEDEN

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>10 064.5</b>	<b>8 895.7</b>	<b>8 639.7</b>	<b>8 902.7</b>	<b>8 898.1</b>	<b>9 231.7</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>22.1 e</b>	<b>20.0 e</b>	<b>20.4 e</b>	<b>22.1</b>	<b>21.6 e</b>	<b>21.9 e</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>18.4 e</b>	<b>16.6 e</b>	<b>17.0 e</b>	<b>18.3 e</b>	<b>17.9 e</b>	<b>18.2 e</b>	..	..
<b>10-33 MANUFACTURING</b>	<b>7 282.0 e</b>	<b>6 688.3</b>	<b>6 350.4 e</b>	<b>6 397.1</b>	<b>6 330.2 e</b>	<b>6 505.4</b>	..	..
10-12 Food products, beverages and tobacco	50.1 e	42.3	42.6 e	45.4	44.6 e	45.4	..	..
13-15 Textiles, wearing apparel, leather and related products	10.0 e	9.2	6.9 e	5.0	5.2 e	5.5	..	..
13 Textiles	..	..	..	..	..	..	..	..
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	355.0 e	369.3	228.3 e	103.9	117.2 e	134.6	..	..
16 Wood and wood products, except furniture	..	..	..	..	..	..	..	..
17 Paper and paper products	..	365.3	..	99.7	..	126.3	..	..
18 Printing and reproduction of recorded media	..	..	..	..	..	..	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	1 221.6 e	958.7	987.4 e	1 074.1	1 020.5 e	1 006.7	..	..
19 Coke and refined petroleum products	..	..	..	..	..	..	..	..
20-21 Chemical and pharmaceutical products	..	..	..	..	..	..	..	..
20 Chemicals and chemical products	..	..	..	..	..	..	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	946.9 e	708.4	757.5 e	850.5	783.6 e	747.8	..	..
22 Rubber and plastic products	26.4 e	26.8	24.3 e	23.3	25.0 e	27.7	..	..
23 Other non-metallic mineral products	11.9 e	12.0	12.7 e	14.2	14.4 e	15.1	..	..
24-25 Basic metals, metal products, except machinery and equipment	394.6 e	385.8	309.5 e	253.2	289.8 e	336.7	..	..
24 Basic metals	189.0 e	175.2	164.3 e	163.4	194.0 e	231.3	..	..
25 Fabricated metal products, except machinery and equipment	205.6 e	210.5	145.2 e	89.9	95.9 e	105.4	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	5 015.9 e	4 704.1	4 589.0 e	4 748.8	4 696.2 e	4 822.4	..	..
26 Computer, electronic and optical products	2 202.8 e	2 084.9	2 024.4 e	2 085.3	1 946.1 e	1 883.3	..	..
27 Electrical equipment	273.5 e	254.9	252.7 e	265.4	280.4 e	305.7	..	..
28 Machinery and equipment n.e.c.	673.6 e	635.5	630.0 e	662.0	661.8 e	686.7	..	..
29 Motor vehicles, trailers and semi-trailers	1 197.9 e	1 038.8 e	1 010.7 e	1 043.2	1 086.4 e	1 169.8 e	..	..
30 Other transport equipment	668.1 e	690.0 e	671.3 e	692.8	721.5 e	776.9 e	..	..
31-33 Furniture; repair, installation of machinery and equipment	234.9 e	219.0	186.6 e	166.1	156.7 e	153.5	..	..
31 Furniture	14.9 e	15.7	12.2 e	9.4	12.6 e	16.2	..	..
32 Other manufacturing	127.1 e	105.2	107.6 e	116.4	119.8 e	127.6	..	..
33 Repair and installation of machinery and equipment	92.9 e	98.1	66.9 e	40.3	24.3 e	9.7	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>13.5 e</b>	<b>13.2</b>	<b>11.4 e</b>	<b>10.3</b>	<b>22.6 e</b>	<b>35.5</b>	..	..
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>36.4 e</b>	<b>19.1</b>	<b>17.5 e</b>	<b>17.1</b>	<b>21.4 e</b>	<b>26.3</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>2 692.0 e</b>	<b>2 138.5 e</b>	<b>2 223.0 e</b>	<b>2 437.8 e</b>	<b>2 484.4 e</b>	<b>2 624.5 e</b>	..	..
<b>45-82 Business sector services</b>	<b>2 658.7 e</b>	<b>2 112.3</b>	<b>2 204.7 e</b>	<b>2 426.1</b>	<b>2 449.4 e</b>	<b>2 565.4 e</b>	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>294.9 e</b>	<b>254.0 e</b>	<b>380.4 e</b>	<b>526.4</b>	<b>536.5 e</b>	<b>566.8</b>	..	..
<b>49-53 Transportation and storage</b>	<b>17.9 e</b>	<b>14.6</b>	<b>15.0 e</b>	<b>16.2</b>	<b>25.1 e</b>	<b>34.7</b>	..	..
<b>55-56 Accommodation and food service activities</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0 e</b>	..	..
<b>58-63 Information and communication</b>	<b>665.9 e</b>	<b>511.8</b>	<b>427.0 e</b>	<b>369.1</b>	<b>420.0 e</b>	<b>485.8</b>	..	..
58-60 Publishing, audiovisual and broadcasting activities	..	84.9	..	77.8	..	120.4	..	..
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	..	..	..	..	..	..	..	..
62-63 IT and other information services	..	..	..	..	..	..	..	..
62 Computer programming, consultancy and related activities	..	..	..	..	..	..	..	..
63 Information service activities	..	..	..	..	..	..	..	..
<b>64-66 Financial and insurance activities</b>	<b>90.9 e</b>	<b>70.2</b>	<b>77.4 e</b>	<b>89.1</b>	<b>90.0 e</b>	<b>94.2</b>	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>1 589.1 e</b>	<b>1 260.4</b>	<b>1 304.9 e</b>	<b>1 425.1</b>	<b>1 377.9 e</b>	<b>1 383.9</b>	..	..
68 Real estate activities	0.0 e	0.0 e	0.0 e	0.0 e	0.0 e	0.0 e	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	161.4 e	111.6	149.3 e	195.6	303.5 e	420.7	..	..
72 Scientific research and development	1 420.5 e	1 148.6	1 147.5 e	1 217.8	1 064.4 e	954.6	..	..
77-82 Administrative and support service activities	7.2 e	4.8 e	8.0 e	11.6	9.9 e	8.6	..	..
84-99 Community, social and personal services	33.3 e	26.1 e	18.3 e	11.7 e	35.0 e	59.1 e	..	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# SWITZERLAND

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>8 023.8</b>	<b>8 302.0 e</b>	<b>8 894.5 e</b>	<b>9 814.7 e</b>	<b>10 542.8</b>	<b>11 291.9 e</b>	<b>11 934.2 e</b>	<b>12 557.3</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	..	..	..	..	..	..	..	..
<b>05-09 MINING AND QUARRYING</b>	..	..	..	..	..	..	..	..
<b>10-33 MANUFACTURING</b>	<b>5 991.8</b>	<b>6 080.3 e</b>	<b>6 402.9 e</b>	<b>6 959.4 e</b>	<b>7 378.7</b>	<b>7 815.2 e</b>	<b>8 178.9 e</b>	<b>8 529.0</b>
10-12 Food products, beverages and tobacco	83.1	46.7 e	34.6 e	37.4 e	45.3	51.7 e	55.3 e	57.5
13-15 Textiles, wearing apparel, leather and related products	..	..	..	..	..	..	..	..
13 Textiles	..	..	..	..	..	..	..	..
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	..	..	..	..	..	..	..	..
16 Wood and wood products, except furniture	..	..	..	..	..	..	..	..
17 Paper and paper products	..	..	..	..	..	..	..	..
18 Printing and reproduction of recorded media	..	..	..	..	..	..	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	3 481.5	3 477.6 e	3 595.4 e	3 851.8 e	4 066.2	4 347.3 e	4 636.1 e	4 944.5
19 Coke and refined petroleum products	..	..	..	..	..	..	..	..
20-21 Chemical and pharmaceutical products	..	..	..	..	..	..	..	..
20 Chemicals and chemical products	..	..	..	..	..	..	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	3 099.7	3 127.9 e	3 254.6 e	3 497.3 e	3 692.0	3 937.4 e	4 182.0 e	4 440.1
22 Rubber and plastic products	..	..	..	..	..	..	..	..
23 Other non-metallic mineral products	..	..	..	..	..	..	..	..
24-25 Basic metals, metal products, except machinery and equipment	173.5	217.6 e	266.1 e	314.4 e	336.9	332.0 e	300.9 e	256.1
24 Basic metals	..	..	..	..	..	..	..	..
25 Fabricated metal products, except machinery and equipment	..	..	..	..	..	..	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	2 034.8	2 107.3 e	2 265.3 e	2 503.1 e	2 677.4	2 833.2 e	2 942.3 e	3 035.0
26 Computer, electronic and optical products	1 156.7	1 208.6 e	1 298.7 e	1 429.7 e	1 526.1	1 619.5 e	1 692.8 e	1 760.6
27 Electrical equipment	..	..	..	..	..	..	..	..
28 Machinery and equipment n.e.c.	..	..	..	..	..	..	..	..
29 Motor vehicles, trailers and semi-trailers	..	..	..	..	..	..	..	..
30 Other transport equipment	..	..	..	..	..	..	..	..
31-33 Furniture; repair, installation of machinery and equipment	..	..	..	..	..	..	..	..
31 Furniture	..	..	..	..	..	..	..	..
32 Other manufacturing	..	..	..	..	..	..	..	..
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	..	..	..	..	..	..	..	..
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	..	..	..	..	..	..	..	..
<b>45-99 TOTAL SERVICES</b>	<b>2 032.1</b>	<b>2 221.8 e</b>	<b>2 491.6 e</b>	<b>2 855.3 e</b>	<b>3 164.1</b>	<b>3 476.7 e</b>	<b>3 755.2 e</b>	<b>4 028.3</b>
<b>45-82 Business sector services</b>	..	..	..	..	..	..	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	..	..	..	..	..	..	..	..
<b>49-53 Transportation and storage</b>	..	..	..	..	..	..	..	..
<b>55-56 Accommodation and food service activities</b>	..	..	..	..	..	..	..	..
<b>58-63 Information and communication</b>	..	..	..	..	..	..	..	..
58-60 Publishing, audiovisual and broadcasting activities	..	..	..	..	..	..	..	..
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	..	..	..	..	..	..	..	..
62-63 IT and other information services	..	..	..	..	..	..	..	..
62 Computer programming, consultancy and related activities	..	..	..	..	..	..	..	..
63 Information service activities	..	..	..	..	..	..	..	..
<b>64-66 Financial and insurance activities</b>	..	..	..	..	..	..	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	..	..	..	..	..	..	..
68 Real estate activities	..	..	..	..	..	..	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	..	..	..	..	..	..
72 Scientific research and development	722.0	784.6 e	945.2 e	1 184.4 e	1 412.1	1 621.9 e	1 796.6 e	1 958.8
77-82 Administrative and support service activities	..	..	..	..	..	..	..	..
84-99 Community, social and personal services	..	..	..	..	..	..	..	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# SWITZERLAND

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>8 244.1</b>	<b>8 353.9 e</b>	<b>8 894.5 e</b>	<b>9 354.2 e</b>	<b>9 754.6</b>	<b>10 125.8 e</b>	<b>10 529.5 e</b>	<b>10 821.3</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	..	..	..	..	..	..	..	..
<b>05-09 MINING AND QUARRYING</b>	..	..	..	..	..	..	..	..
<b>10-33 MANUFACTURING</b>	<b>6 156.2</b>	<b>6 118.3 e</b>	<b>6 402.9 e</b>	<b>6 632.9 e</b>	<b>6 827.1</b>	<b>7 008.1 e</b>	<b>7 216.2 e</b>	<b>7 349.9</b>
10-12 Food products, beverages and tobacco	85.3	47.0 e	34.6 e	35.6 e	41.9	46.3 e	48.8 e	49.5
13-15 Textiles, wearing apparel, leather and related products	..	..	..	..	..	..	..	..
13 Textiles	..	..	..	..	..	..	..	..
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	..	..	..	..	..	..	..	..
16 Wood and wood products, except furniture	..	..	..	..	..	..	..	..
17 Paper and paper products	..	..	..	..	..	..	..	..
18 Printing and reproduction of recorded media	..	..	..	..	..	..	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	3 577.0	3 499.3 e	3 595.4 e	3 671.1 e	3 762.2	3 898.4 e	4 090.4 e	4 261.0
19 Coke and refined petroleum products	..	..	..	..	..	..	..	..
20-21 Chemical and pharmaceutical products	..	..	..	..	..	..	..	..
20 Chemicals and chemical products	..	..	..	..	..	..	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	3 184.8	3 147.5 e	3 254.6 e	3 333.2 e	3 416.0	3 530.7 e	3 689.8 e	3 826.3
22 Rubber and plastic products	..	..	..	..	..	..	..	..
23 Other non-metallic mineral products	..	..	..	..	..	..	..	..
24-25 Basic metals, metal products, except machinery and equipment	178.2	218.9 e	266.1 e	299.7 e	311.7	297.7 e	265.5 e	220.7
24 Basic metals	..	..	..	..	..	..	..	..
25 Fabricated metal products, except machinery and equipment	..	..	..	..	..	..	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	2 090.6	2 120.5 e	2 265.3 e	2 385.6 e	2 477.2	2 540.6 e	2 596.0 e	2 615.4
26 Computer, electronic and optical products	1 188.4	1 216.2 e	1 298.7 e	1 362.7 e	1 412.0	1 452.2 e	1 493.6 e	1 517.2
27 Electrical equipment	..	..	..	..	..	..	..	..
28 Machinery and equipment n.e.c.	..	..	..	..	..	..	..	..
29 Motor vehicles, trailers and semi-trailers	..	..	..	..	..	..	..	..
30 Other transport equipment	..	..	..	..	..	..	..	..
31-33 Furniture; repair, installation of machinery and equipment	..	..	..	..	..	..	..	..
31 Furniture	..	..	..	..	..	..	..	..
32 Other manufacturing	..	..	..	..	..	..	..	..
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	..	..	..	..	..	..	..	..
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	..	..	..	..	..	..	..	..
<b>45-99 TOTAL SERVICES</b>	<b>2 087.9</b>	<b>2 235.6 e</b>	<b>2 491.6 e</b>	<b>2 721.3 e</b>	<b>2 927.5</b>	<b>3 117.7 e</b>	<b>3 313.2 e</b>	<b>3 471.4</b>
<b>45-82 Business sector services</b>	..	..	..	..	..	..	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	..	..	..	..	..	..	..	..
<b>49-53 Transportation and storage</b>	..	..	..	..	..	..	..	..
<b>55-56 Accommodation and food service activities</b>	..	..	..	..	..	..	..	..
<b>58-63 Information and communication</b>	..	..	..	..	..	..	..	..
58-60 Publishing, audiovisual and broadcasting activities	..	..	..	..	..	..	..	..
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	..	..	..	..	..	..	..	..
62-63 IT and other information services	..	..	..	..	..	..	..	..
62 Computer programming, consultancy and related activities	..	..	..	..	..	..	..	..
63 Information service activities	..	..	..	..	..	..	..	..
<b>64-66 Financial and insurance activities</b>	..	..	..	..	..	..	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	..	..	..	..	..	..	..
68 Real estate activities	..	..	..	..	..	..	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	..	..	..	..	..	..
72 Scientific research and development	741.8	789.5 e	945.2 e	1 128.8 e	1 306.6	1 454.4 e	1 585.1 e	1 688.0
77-82 Administrative and support service activities	..	..	..	..	..	..	..	..
84-99 Community, social and personal services	..	..	..	..	..	..	..	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# TURKEY

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>3 464.4</b>	<b>3 580.7</b>	<b>4 292.3</b>	<b>4 985.9</b>	<b>5 776.5</b>	<b>6 569.7</b>	<b>7 628.1</b>	<b>8 303.1</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>7.0 e</b>	<b>8.5</b>	<b>9.9</b>	<b>13.3</b>	<b>12.4</b>	<b>16.9</b>	<b>17.9</b>	<b>20.1</b>
<b>05-09 MINING AND QUARRYING</b>	<b>10.2 e</b>	<b>13.0</b>	<b>14.5</b>	<b>19.8</b>	<b>17.1</b>	<b>30.6</b>	<b>17.5</b>	<b>23.5</b>
<b>10-33 MANUFACTURING</b>	<b>2 347.1 e</b>	<b>2 229.8</b>	<b>2 215.7</b>	<b>2 659.4</b>	<b>3 063.3</b>	<b>3 373.5</b>	<b>3 954.4</b>	<b>4 171.1</b>
10-12 Food products, beverages and tobacco	76.6 e	83.3	66.3	78.4	80.8	115.6	114.3	96.4
13-15 Textiles, wearing apparel, leather and related products	63.1 e	70.2	70.2	99.3	106.8	92.9	114.1	121.4
13 Textiles	51.3 e	54.9	55.7	83.0	88.6	73.2	91.2	102.2
14 Wearing apparel	7.8 e	13.8	12.7	13.7	15.3	16.3	17.7	15.6
15 Leather and related products, footwear	4.0 e	1.5	1.8	2.6	2.9	3.4	5.3	3.6
16-18 Wood and paper products and printing	7.4 e	11.8	9.5	11.3	12.5	11.9	16.9	13.9
16 Wood and wood products, except furniture	1.7 e	3.3	1.6	3.5	3.2	1.8	3.4	2.8
17 Paper and paper products	0.6 e	4.7	4.7	4.5	5.7	4.7	4.8	5.5
18 Printing and reproduction of recorded media	5.1 e	3.8	3.2	3.3	3.6	5.4	8.6	5.6
19-23 Chemical, rubber, plastic, non-metallic mineral products	292.0 e	334.4	383.4	550.3	601.2	722.8	656.8	603.3
19 Coke and refined petroleum products	0.6 e	9.2	12.6	16.4	19.2	29.5	25.3	22.2 e
20-21 Chemical and pharmaceutical products	187.3 e	205.8	243.6	387.6	406.1	531.2	477.6	440.9 e
20 Chemicals and chemical products	..	104.2	143.3	186.6	218.3	334.7	286.8	252.2 e
21 Pharmaceuticals, medicinal, chemical and botanical products	..	101.6	100.3	201.0	187.8	196.5	190.8	188.7
22 Rubber and plastic products	54.9 e	63.0	69.8	80.1	98.2	80.5	83.0	66.2
23 Other non-metallic mineral products	49.1 e	56.5	57.4	66.1	77.7	81.6	70.9	74.1
24-25 Basic metals, metal products, except machinery and equipment	49.3 e	82.9	209.3	206.7	246.3	252.7	367.8	294.9
24 Basic metals	16.1 e	22.2	30.2	55.0	59.4	55.7	93.2	69.2
25 Fabricated metal products, except machinery and equipment	33.1 e	60.7	179.1	151.6	187.0	197.0	274.5	225.7
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	1 803.3 e	1 581.6	1 431.3	1 654.4	1 945.1	2 108.4	2 608.0	2 975.8
26 Computer, electronic and optical products	480.8 e	496.6	133.3	153.7	196.5	263.9	228.1	274.1
27 Electrical equipment	168.5 e	225.4	236.4	322.7	328.8	344.0	404.8	410.2
28 Machinery and equipment n.e.c.	153.7 e	161.0	186.7	242.4	295.6	313.6	298.1	312.1
29 Motor vehicles, trailers and semi-trailers	816.9 e	495.3	637.4	676.7	773.4	908.9	1 337.5	1 443.3
30 Other transport equipment	183.5 e	203.4	237.6	258.9	350.8	277.9	339.6	536.0
31-33 Furniture; repair, installation of machinery and equipment	55.5 e	65.6	45.7	59.1	70.6	69.2	76.4	65.3
31 Furniture	..	14.1	14.5	15.9	13.6	14.7	12.4	14.3
32 Other manufacturing	..	18.5	18.4	26.8	36.9	28.8	39.6	32.5
33 Repair and installation of machinery and equipment	..	33.1	12.8	16.4	20.2	25.8	24.4	18.5
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>12.4 e</b>	<b>18.0</b>	<b>11.7</b>	<b>17.5</b>	<b>30.1</b>	<b>34.3</b>	<b>37.2</b>	<b>55.4</b>
35-36 Electricity, gas and water	..	..	..	12.8	25.0	30.6	33.0	51.8
37-39 Sewerage, waste management and remediation activities	..	..	..	4.7	5.1	3.8	4.2	3.6
<b>41-43 CONSTRUCTION</b>	<b>8.6 e</b>	<b>14.2</b>	<b>22.4</b>	<b>30.3</b>	<b>41.6</b>	<b>25.3</b>	<b>26.1</b>	<b>28.9</b>
<b>45-99 TOTAL SERVICES</b>	<b>1 079.0 e</b>	<b>1 297.2</b>	<b>2 018.0</b>	<b>2 245.6</b>	<b>2 612.1</b>	<b>3 089.0</b>	<b>3 575.1</b>	<b>4 004.2</b>
<b>45-82 Business sector services</b>	<b>1 054.7 e</b>	<b>1 268.4</b>	<b>2 005.9</b>	<b>2 230.6</b>	<b>2 590.2</b>	<b>3 073.0</b>	<b>3 554.2</b>	<b>3 985.9</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>59.8 e</b>	<b>153.0</b>	<b>117.4</b>	<b>183.4</b>	<b>153.6</b>	<b>180.7</b>	<b>190.0</b>	<b>228.2</b>
<b>49-53 Transportation and storage</b>	<b>4.3 e</b>	<b>4.8</b>	<b>10.6</b>	<b>10.3</b>	<b>17.6</b>	<b>25.8</b>	<b>29.0</b>	<b>29.4</b>
<b>55-56 Accommodation and food service activities</b>	<b>0.0 e</b>	<b>0.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.5</b>	<b>0.4</b>	<b>0.6</b>	<b>0.6</b>
<b>58-63 Information and communication</b>	<b>634.9 e</b>	<b>741.3</b>	<b>1 207.3</b>	<b>1 176.8</b>	<b>1 449.5</b>	<b>1 653.9</b>	<b>2 016.4</b>	<b>2 320.6</b>
58-60 Publishing, audiovisual and broadcasting activities	..	102.0	189.7 e	68.1 e	22.7	30.0	53.4	50.4
58 Publishing activities	..	..	..	..	21.1	28.3	50.6	48.9
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	..	1.7	1.7	2.8	1.5
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	74.3 e	79.7	279.9 e	215.9 e	310.1	332.8	445.7	479.8
62-63 IT and other information services	..	559.6	737.6	892.8	1 116.6	1 291.1	1 517.3	1 790.5
62 Computer programming, consultancy and related activities	..	550.3	728.0	881.8	1 100.2	1 282.6	1 508.6	1 777.3
63 Information service activities	..	9.3	9.6	11.0	16.4	8.5	8.7	13.2
<b>64-66 Financial and insurance activities</b>	<b>208.3 e</b>	<b>152.8</b>	<b>66.5</b>	<b>96.9</b>	<b>93.9</b>	<b>130.6</b>	<b>116.5</b>	<b>66.7</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>147.4 e</b>	<b>215.8</b>	<b>604.1</b>	<b>763.1</b>	<b>875.1</b>	<b>1 081.5</b>	<b>1 201.7</b>	<b>1 340.5</b>
68 Real estate activities	..	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	60.8	17.3	28.4	31.7	37.2	39.4	43.6
72 Scientific research and development	112.4 e	151.9	584.2	732.5	840.8	1 039.5	1 154.2	1 287.8
77-82 Administrative and support service activities	..	3.1	2.6	2.2	2.6	4.8	8.1	9.1
84-99 Community, social and personal services	24.3 e	28.8	12.1	15.0	21.9	16.1	20.9	18.2
84-85 Public administration and defence; compulsory social security and education	..	24.1	5.5	8.5	15.0	12.0	13.2	10.8
86-88 Human health and social work activities	..	2.1	3.9	3.4	3.8	2.2	6.2	5.3
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# TURKEY

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>3 743.2</b>	<b>3 768.9</b>	<b>4 292.3</b>	<b>4 847.2</b>	<b>5 518.4</b>	<b>6 198.0</b>	<b>7 188.2</b>	<b>7 846.6</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>7.6 e</b>	<b>8.9</b>	<b>9.9</b>	<b>12.9</b>	<b>11.8</b>	<b>16.0</b>	<b>16.8</b>	<b>19.0</b>
<b>05-09 MINING AND QUARRYING</b>	<b>11.1 e</b>	<b>13.7</b>	<b>14.5</b>	<b>19.3</b>	<b>16.3</b>	<b>28.9</b>	<b>16.5</b>	<b>22.2</b>
<b>10-33 MANUFACTURING</b>	<b>2 536.0 e</b>	<b>2 346.9</b>	<b>2 215.7</b>	<b>2 585.4</b>	<b>2 926.5</b>	<b>3 182.7</b>	<b>3 726.3</b>	<b>3 941.8</b>
10-12 Food products, beverages and tobacco	82.8 e	87.7	66.3	76.2	77.2	109.0	107.7	91.1
13-15 Textiles, wearing apparel, leather and related products	68.1 e	73.9	70.2	96.5	102.0	87.7	107.6	114.7
13 Textiles	55.5 e	57.8	55.7	80.7	84.6	69.1	85.9	96.6
14 Wearing apparel	8.4 e	14.6	12.7	13.4	14.6	15.4	16.7	14.7
15 Leather and related products, footwear	4.3 e	1.6	1.8	2.5	2.7	3.2	5.0	3.4
16-18 Wood and paper products and printing	8.0 e	12.4	9.5	11.0	11.9	11.3	15.9	13.1
16 Wood and wood products, except furniture	1.9 e	3.4	1.6	3.4	3.1	1.7	3.3	2.7
17 Paper and paper products	0.7 e	4.9	4.7	4.4	5.4	4.5	4.6	5.2
18 Printing and reproduction of recorded media	5.5 e	4.0	3.2	3.2	3.4	5.1	8.1	5.3
19-23 Chemical, rubber, plastic, non-metallic mineral products	315.5 e	351.9	383.4	535.0	574.3	681.9	618.9	570.2
19 Coke and refined petroleum products	0.7 e	9.7	12.6	16.0	18.4	27.8	23.8	21.0 e
20-21 Chemical and pharmaceutical products	202.4 e	216.6	243.6	376.8	387.9	501.1	450.1	416.6 e
20 Chemicals and chemical products	..	109.7	143.3	181.4	208.5	315.7	270.2	238.3 e
21 Pharmaceuticals, medicinal, chemical and botanical products	..	106.9	100.3	195.4	179.4	185.4	179.8	178.3
22 Rubber and plastic products	59.3 e	66.3	69.8	77.9	93.8	76.0	78.2	62.5
23 Other non-metallic mineral products	53.0 e	59.4	57.4	64.3	74.2	77.0	66.8	70.0
24-25 Basic metals, metal products, except machinery and equipment	53.2 e	87.2	209.3	200.9	235.3	238.4	346.6	278.7
24 Basic metals	17.4 e	23.4	30.2	53.5	56.7	52.5	87.9	65.4
25 Fabricated metal products, except machinery and equipment	35.8 e	63.8	179.1	147.4	178.6	185.9	258.7	213.3
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	1 948.4 e	1 664.7	1 431.3	1 608.4	1 858.2	1 989.1	2 457.6	2 812.2
26 Computer, electronic and optical products	519.4 e	522.7	133.3	149.4	187.8	249.0	214.9	259.0
27 Electrical equipment	182.0 e	237.2	236.4	313.7	314.1	324.6	381.5	387.7
28 Machinery and equipment n.e.c.	166.0 e	169.5	186.7	235.7	282.4	295.9	280.9	295.0
29 Motor vehicles, trailers and semi-trailers	882.6 e	521.3	637.4	657.9	738.8	857.5	1 260.4	1 364.0
30 Other transport equipment	198.3 e	214.1	237.6	251.7	335.1	262.2	320.0	506.6
31-33 Furniture; repair, installation of machinery and equipment	60.0 e	69.1	45.7	57.4	67.5	65.3	72.0	61.7
31 Furniture	..	14.8	14.5	15.5	13.0	13.8	11.7	13.6
32 Other manufacturing	..	19.5	18.4	26.0	35.2	27.2	37.3	30.8
33 Repair and installation of machinery and equipment	..	34.8	12.8	15.9	19.3	24.3	23.0	17.4
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>13.4 e</b>	<b>19.0</b>	<b>11.7</b>	<b>17.0</b>	<b>28.7</b>	<b>32.4</b>	<b>35.0</b>	<b>52.3</b>
35-36 Electricity, gas and water	..	..	..	12.5	23.8	28.9	31.1	49.0
37-39 Sewerage, waste management and remediation activities	..	..	..	4.6	4.9	3.5	3.9	3.4
<b>41-43 CONSTRUCTION</b>	<b>9.3 e</b>	<b>15.0</b>	<b>22.4</b>	<b>29.4</b>	<b>39.7</b>	<b>23.8</b>	<b>24.6</b>	<b>27.3</b>
<b>45-99 TOTAL SERVICES</b>	<b>1 165.9 e</b>	<b>1 365.4</b>	<b>2 018.0</b>	<b>2 183.1</b>	<b>2 495.4</b>	<b>2 914.3</b>	<b>3 368.9</b>	<b>3 784.0</b>
<b>45-82 Business sector services</b>	<b>1 139.6 e</b>	<b>1 335.1</b>	<b>2 005.9</b>	<b>2 168.5</b>	<b>2 474.5</b>	<b>2 899.1</b>	<b>3 349.2</b>	<b>3 766.8</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>64.7 e</b>	<b>161.1</b>	<b>117.4</b>	<b>178.3</b>	<b>146.8</b>	<b>170.5</b>	<b>179.1</b>	<b>215.7</b>
<b>49-53 Transportation and storage</b>	<b>4.6 e</b>	<b>5.1</b>	<b>10.6</b>	<b>10.1</b>	<b>16.8</b>	<b>24.4</b>	<b>27.3</b>	<b>27.7</b>
<b>55-56 Accommodation and food service activities</b>	<b>0.0 e</b>	<b>0.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.5</b>	<b>0.4</b>	<b>0.5</b>	<b>0.6</b>
<b>58-63 Information and communication</b>	<b>686.0 e</b>	<b>780.2</b>	<b>1 207.3</b>	<b>1 144.1</b>	<b>1 384.7</b>	<b>1 560.4</b>	<b>1 900.1</b>	<b>2 193.0</b>
58-60 Publishing, audiovisual and broadcasting activities	..	107.3	189.7 e	66.2 e	21.7	28.3	50.3	47.6
58 Publishing activities	..	..	..	..	20.1	26.7	47.7	46.2
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	..	1.6	1.6	2.7	1.4
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	80.3 e	83.9	279.9 e	209.9 e	296.3	314.0	420.0	453.4
62-63 IT and other information services	..	589.0	737.6	868.0	1 066.7	1 218.1	1 429.8	1 692.0
62 Computer programming, consultancy and related activities	..	579.2	728.0	857.2	1 051.0	1 210.1	1 421.6	1 679.6
63 Information service activities	..	9.7	9.6	10.7	15.7	8.0	8.2	12.4
<b>64-66 Financial and insurance activities</b>	<b>225.0 e</b>	<b>160.8</b>	<b>66.5</b>	<b>94.2</b>	<b>89.7</b>	<b>123.3</b>	<b>109.8</b>	<b>63.1</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>159.3 e</b>	<b>227.1</b>	<b>604.1</b>	<b>741.9</b>	<b>836.0</b>	<b>1 020.3</b>	<b>1 132.4</b>	<b>1 266.8</b>
68 Real estate activities	..	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	64.0	17.3	27.6	30.2	35.1	37.1	41.2
72 Scientific research and development	121.5 e	159.8	584.2	712.1	803.3	980.7	1 087.7	1 217.0
77-82 Administrative and support service activities	..	3.3	2.6	2.1	2.5	4.5	7.6	8.6
84-99 Community, social and personal services	26.3 e	30.3	12.1	14.6	20.9	15.1	19.7	17.2
84-85 Public administration and defence; compulsory social security and education	..	25.3	5.5	8.3	14.3	11.3	12.5	10.2
86-88 Human health and social work activities	..	2.2	3.9	3.3	3.6	2.1	5.8	5.1
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# UNITED KINGDOM

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>22 653.9</b>	<b>22 030.4</b>	<b>22 922.5</b>	<b>24 655.7</b>	<b>24 381.2</b>	<b>26 534.1</b>	<b>28 771.7</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>29.2</b>	<b>11.1</b>	<b>19.4</b>	<b>17.6</b>	<b>20.0</b>	<b>14.8</b>	<b>19.3</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>103.9</b>	<b>126.1</b>	<b>194.7</b>	<b>245.0</b>	<b>243.7</b>	<b>273.9</b>	<b>263.4</b>	..
<b>10-33 MANUFACTURING</b>	<b>8 833.2</b>	<b>8 480.9</b>	<b>8 515.8</b>	<b>9 097.9</b>	<b>9 745.8</b>	<b>10 529.0</b>	<b>11 234.5</b>	..
10-12 Food products, beverages and tobacco	..	366.7	330.7	393.2	391.7	471.1	476.3	..
13-15 Textiles, wearing apparel, leather and related products	..	14.7	15.4	36.0	45.5	31.6	32.3	..
13 Textiles	..	11.1	13.3	32.4	38.9	23.7	24.0	..
14 Wearing apparel	..	2.0	1.1	1.7	3.8	4.2	4.9	..
15 Leather and related products, footwear	..	1.6	1.0	1.8	2.7	3.7	3.5	..
16-18 Wood and paper products and printing	..	23.8	25.8	21.4	31.2	51.3	58.0	..
16 Wood and wood products, except furniture	..	3.9	5.1	2.0	4.0 e	9.5	8.9	..
17 Paper and paper products	..	10.4	12.8	12.5	11.4 e	15.1	17.8	..
18 Printing and reproduction of recorded media	..	9.4	7.8	6.9	15.8	26.8	31.3	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	..	1 250.7	1 283.0	1 350.5	1 310.1	1 390.4	1 381.9	..
19 Coke and refined petroleum products	..	123.2	18.5	26.8	31.6	27.5	48.2	..
20-21 Chemical and pharmaceutical products	..	963.9	1 110.4	1 151.0	1 093.2	1 177.6	1 105.3	..
20 Chemicals and chemical products	..	384.5	457.5	402.4	374.6	519.1	528.1	..
21 Pharmaceuticals, medicinal, chemical and botanical products	..	579.4	652.8	748.7	718.6	658.5	577.2	..
22 Rubber and plastic products	..	104.8	95.2	115.1	140.4	136.8	159.6	..
23 Other non-metallic mineral products	..	58.8	58.9	57.5	44.9	48.6	68.8	..
24-25 Basic metals, metal products, except machinery and equipment	..	948.0	918.3	903.9	796.1	802.4	868.0	..
24 Basic metals	..	65.6	70.5	123.5	90.2	63.9	102.2	..
25 Fabricated metal products, except machinery and equipment	..	882.4	847.9	780.4	705.9	738.6	765.8	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	..	5 444.4	5 458.4	6 048.1	6 853.0	7 377.4	7 998.1	..
26 Computer, electronic and optical products	..	1 372.7	1 179.6	1 384.5	1 391.9	1 468.3	1 452.5	..
27 Electrical equipment	..	193.5	233.0	215.7	242.1	230.7	261.7	..
28 Machinery and equipment n.e.c.	..	887.1	886.8	897.4	1 106.3	1 078.9	1 078.1	..
29 Motor vehicles, trailers and semi-trailers	..	1 360.5	1 507.5	1 834.9	2 106.7	2 508.0	2 910.7	..
30 Other transport equipment	..	1 629.2	1 651.6	1 715.6	2 006.0	2 091.5	2 295.2	..
31-33 Furniture; repair, installation of machinery and equipment	..	432.6	484.2	344.9	318.3	404.7	419.9	..
31 Furniture	..	38.5	46.7	70.8	51.6	73.1	56.3	..
32 Other manufacturing	..	121.3	204.7	166.0	147.7	181.5	178.5	..
33 Repair and installation of machinery and equipment	..	272.8	232.8	108.1	119.0	150.2	185.0	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>35.5</b>	<b>43.9</b>	<b>42.7</b>	<b>46.6</b>	<b>118.6</b>	<b>162.8</b>	<b>157.0</b>	..
35-36 Electricity, gas and water	..	32.3	32.2	37.1	102.8	141.0	140.3	..
37-39 Sewerage, waste management and remediation activities	..	11.6	10.4	9.5	15.8	21.9	16.7	..
<b>41-43 CONSTRUCTION</b>	<b>39.8</b>	<b>76.6</b>	<b>54.2</b>	<b>53.1</b>	<b>85.8</b>	<b>100.3</b>	<b>151.5</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>13 612.4</b>	<b>13 291.8</b>	<b>14 095.8</b>	<b>15 195.6</b>	<b>14 167.4</b>	<b>15 453.3</b>	<b>16 945.8</b>	..
<b>45-82 Business sector services</b>	..	<b>13 069.6</b>	<b>13 791.7</b>	<b>14 852.7</b>	<b>13 816.3</b>	<b>15 010.0</b>	<b>16 632.1</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	..	<b>827.7</b>	<b>1 074.8</b>	<b>1 084.8</b>	<b>996.8</b>	<b>993.5</b>	<b>1 012.2</b>	..
<b>49-53 Transportation and storage</b>	..	<b>40.9</b>	<b>40.9</b>	<b>41.9</b>	<b>14.0</b>	<b>43.9</b>	<b>66.5</b>	..
<b>55-56 Accommodation and food service activities</b>	..	<b>12.0</b>	<b>26.7</b>	<b>36.0</b>	<b>41.6</b>	<b>23.2</b>	<b>42.1</b>	..
<b>58-63 Information and communication</b>	..	<b>3 208.1</b>	<b>2 981.0</b>	<b>3 317.3</b>	<b>3 450.7</b>	<b>3 784.4</b>	<b>4 236.2</b>	..
58-60 Publishing, audiovisual and broadcasting activities	..	111.8	102.0	120.4	98.1	174.2	284.2	..
58 Publishing activities	..	71.3	63.5	87.0	73.5	126.7	119.4	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	40.5	38.4	33.4	24.5	47.5	164.8	..
59 Motion picture, video and TV programme production; sound and music	..	29.2	33.8	24.8	15.0	31.9	110.9 e	..
60 Programming and broadcasting activities	..	11.3	4.6	8.6	9.5	15.5	53.9 e	..
61 Telecommunications	..	1 427.9	1 177.7	1 018.1	999.8	1 053.0	1 148.9	..
62-63 IT and other information services	..	1 668.4	1 701.3	2 178.9	2 352.9	2 557.2	2 803.1	..
62 Computer programming, consultancy and related activities	..	1 553.4	1 637.4	2 116.3	2 228.9	2 319.2	2 359.5	..
63 Information service activities	..	114.9	63.9	62.6	124.0	238.0	443.7	..
<b>64-66 Financial and insurance activities</b>	..	<b>534.7</b>	<b>497.0</b>	<b>430.0</b>	<b>380.3</b>	<b>475.8</b>	<b>540.8</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	<b>8 446.2</b>	<b>9 171.1</b>	<b>9 942.8</b>	<b>8 933.0</b>	<b>9 689.3</b>	<b>10 734.3</b>	..
68 Real estate activities	..	15.1	14.3	14.0	16.0	23.7	31.3	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	1 105.6	1 212.2	1 377.1	1 821.9	2 275.4	2 873.1	..
72 Scientific research and development	7 085.6	7 207.5	7 750.1	8 276.0	6 681.7	6 992.5	7 180.3	..
77-82 Administrative and support service activities	..	118.0	194.5	275.6	413.5	397.7	649.5	..
84-99 Community, social and personal services	..	222.2	304.2	342.9	351.0	443.3	313.8	..
84-85 Public administration and defence; compulsory social security and education	..	22.8	12.4	11.0	27.2	47.6	22.4	..
86-88 Human health and social work activities	..	4.2	36.0	24.8	23.9	45.3	57.4	..
90-93 Arts, entertainment and recreation	..	173.9	216.4	272.1	264.5	304.1	196.3	..
94-99 Other services; household-employers; extraterritorial bodies	..	21.3	39.4	35.0	35.3	46.3	37.7	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# UNITED KINGDOM

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>23 380.2</b>	<b>22 633.7</b>	<b>22 922.5</b>	<b>24 345.7</b>	<b>23 561.4</b>	<b>24 933.7</b>	<b>26 507.4</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>30.2</b>	<b>11.4</b>	<b>19.4</b>	<b>17.3</b>	<b>19.3</b>	<b>13.9</b>	<b>17.8</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>107.2</b>	<b>129.5</b>	<b>194.7</b>	<b>241.9</b>	<b>235.5</b>	<b>257.3</b>	<b>242.7</b>	..
<b>10-33 MANUFACTURING</b>	<b>9 116.4</b>	<b>8 713.2</b>	<b>8 515.8</b>	<b>8 983.5</b>	<b>9 418.1</b>	<b>9 894.0</b>	<b>10 350.4</b>	..
10-12 Food products, beverages and tobacco	..	376.8	330.7	388.2	378.5	442.6	438.8	..
13-15 Textiles, wearing apparel, leather and related products	..	15.1	15.4	35.5	43.9	29.7	29.8	..
13 Textiles	..	11.4	13.3	32.0	37.6	22.3	22.1	..
14 Wearing apparel	..	2.0	1.1	1.7	3.7	3.9	4.5	..
15 Leather and related products, footwear	..	1.6	1.0	1.8	2.6	3.5	3.2	..
16-18 Wood and paper products and printing	..	24.5	25.8	21.1	30.2	48.3	53.5	..
16 Wood and wood products, except furniture	..	4.1	5.1	2.0	3.9 e	8.9	8.2	..
17 Paper and paper products	..	10.7	12.8	12.3	11.0 e	14.2	16.4	..
18 Printing and reproduction of recorded media	..	9.7	7.8	6.9	15.3	25.1	28.9	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	..	1 285.0	1 283.0	1 333.5	1 266.0	1 306.6	1 273.2	..
19 Coke and refined petroleum products	..	126.6	18.5	26.4	30.6	25.8	44.4	..
20-21 Chemical and pharmaceutical products	..	990.3	1 110.4	1 136.6	1 056.4	1 106.5	1 018.3	..
20 Chemicals and chemical products	..	395.0	457.5	397.3	362.0	487.8	486.5	..
21 Pharmaceuticals, medicinal, chemical and botanical products	..	595.2	652.8	739.3	694.4	618.8	531.7	..
22 Rubber and plastic products	..	107.6	95.2	113.7	135.7	128.5	147.1	..
23 Other non-metallic mineral products	..	60.4	58.9	56.8	43.4	45.7	63.4	..
24-25 Basic metals, metal products, except machinery and equipment	..	973.9	918.3	892.5	769.4	754.0	799.7	..
24 Basic metals	..	67.4	70.5	122.0	87.2	60.0	94.1	..
25 Fabricated metal products, except machinery and equipment	..	906.6	847.9	770.6	682.2	694.0	705.5	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	..	5 593.5	5 458.4	5 972.1	6 622.6	6 932.4	7 368.7	..
26 Computer, electronic and optical products	..	1 410.3	1 179.6	1 367.1	1 345.1	1 379.7	1 338.2	..
27 Electrical equipment	..	198.8	233.0	213.0	234.0	216.8	241.1	..
28 Machinery and equipment n.e.c.	..	911.3	886.8	886.1	1 069.1	1 013.8	993.3	..
29 Motor vehicles, trailers and semi-trailers	..	1 397.8	1 507.5	1 811.8	2 035.8	2 356.7	2 681.6	..
30 Other transport equipment	..	1 673.8	1 651.6	1 694.0	1 938.6	1 965.3	2 114.6	..
31-33 Furniture; repair, installation of machinery and equipment	..	444.4	484.2	340.5	307.6	380.3	386.8	..
31 Furniture	..	39.5	46.7	69.9	49.9	68.7	51.9	..
32 Other manufacturing	..	124.6	204.7	163.9	142.7	170.6	164.5	..
33 Repair and installation of machinery and equipment	..	280.3	232.8	106.7	115.0	141.1	170.5	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>36.6</b>	<b>45.1</b>	<b>42.7</b>	<b>46.0</b>	<b>114.6</b>	<b>153.0</b>	<b>144.7</b>	..
35-36 Electricity, gas and water	..	33.2	32.2	36.6	99.3	132.5	129.2	..
37-39 Sewerage, waste management and remediation activities	..	11.9	10.4	9.4	15.3	20.5	15.4	..
<b>41-43 CONSTRUCTION</b>	<b>41.0</b>	<b>78.7</b>	<b>54.2</b>	<b>52.4</b>	<b>82.9</b>	<b>94.2</b>	<b>139.6</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>14 048.8</b>	<b>13 655.8</b>	<b>14 095.8</b>	<b>15 004.5</b>	<b>13 691.0</b>	<b>14 521.2</b>	<b>15 612.3</b>	..
<b>45-82 Business sector services</b>	..	<b>13 427.5</b>	<b>13 791.7</b>	<b>14 666.0</b>	<b>13 351.7</b>	<b>14 104.7</b>	<b>15 323.2</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	..	<b>850.4</b>	<b>1 074.8</b>	<b>1 071.1</b>	<b>963.3</b>	<b>933.5</b>	<b>932.5</b>	..
<b>49-53 Transportation and storage</b>	..	<b>42.0</b>	<b>40.9</b>	<b>41.4</b>	<b>13.5</b>	<b>41.2</b>	<b>61.3</b>	..
<b>55-56 Accommodation and food service activities</b>	..	<b>12.3</b>	<b>26.7</b>	<b>35.5</b>	<b>40.2</b>	<b>21.8</b>	<b>38.8</b>	..
<b>58-63 Information and communication</b>	..	<b>3 296.0</b>	<b>2 981.0</b>	<b>3 275.6</b>	<b>3 334.6</b>	<b>3 556.1</b>	<b>3 902.8</b>	..
58-60 Publishing, audiovisual and broadcasting activities	..	114.9	102.0	118.9	94.8	163.7	261.8	..
58 Publishing activities	..	73.3	63.5	85.9	71.1	119.1	110.0	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	41.6	38.4	33.0	23.7	44.6	151.9	..
59 Motion picture, video and TV programme production; sound and music	..	30.0	33.8	24.5	14.5	30.0	102.2 e	..
60 Programming and broadcasting activities	..	11.6	4.6	8.5	9.2	14.6	49.7 e	..
61 Telecommunications	..	1 467.0	1 177.7	1 005.3	966.2	989.5	1 058.4	..
62-63 IT and other information services	..	1 714.0	1 701.3	2 151.5	2 273.8	2 403.0	2 582.5	..
62 Computer programming, consultancy and related activities	..	1 596.0	1 637.4	2 089.7	2 154.0	2 179.3	2 173.8	..
63 Information service activities	..	118.1	63.9	61.8	119.8	223.7	408.7	..
<b>64-66 Financial and insurance activities</b>	..	<b>549.3</b>	<b>497.0</b>	<b>424.6</b>	<b>367.5</b>	<b>447.1</b>	<b>498.2</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	<b>8 677.5</b>	<b>9 171.1</b>	<b>9 817.7</b>	<b>8 632.6</b>	<b>9 104.9</b>	<b>9 889.5</b>	..
68 Real estate activities	..	15.5	14.3	13.8	15.4	22.3	28.9	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	1 135.9	1 212.2	1 359.8	1 760.6	2 138.2	2 647.0	..
72 Scientific research and development	7 312.8	7 404.9	7 750.1	8 172.0	6 457.0	6 570.7	6 615.3	..
77-82 Administrative and support service activities	..	121.3	194.5	272.2	399.6	373.7	598.4	..
84-99 Community, social and personal services	..	228.3	304.2	338.6	339.2	416.6	289.1	..
84-85 Public administration and defence; compulsory social security and education	..	23.5	12.4	10.9	26.3	44.7	20.6	..
86-88 Human health and social work activities	..	4.3	36.0	24.5	23.1	42.6	52.9	..
90-93 Arts, entertainment and recreation	..	178.6	216.4	268.7	255.6	285.7	180.8	..
94-99 Other services; household-employers; extraterritorial bodies	..	21.9	39.4	34.5	34.2	43.5	34.7	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# UNITED KINGDOM

## R&D expenditure in industry by industry orientation, current prices ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>22 653.9</b>	<b>22 030.4</b>	<b>22 922.5</b>	<b>24 655.7</b>	<b>24 381.2</b>	<b>26 534.1</b>	<b>28 771.7</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>135.5 e</b>	<b>157.5</b>	<b>145.7</b>	<b>188.2</b>	<b>188.7</b>	<b>177.8</b>	<b>172.2</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>128.0 e</b>	<b>157.0</b>	<b>162.2</b>	<b>275.3</b>	<b>306.0</b>	<b>323.9</b>	<b>455.1</b>	..
<b>10-33 MANUFACTURING</b>	<b>16 720.5 e</b>	<b>16 277.8</b>	<b>16 603.0</b>	<b>17 778.0</b>	<b>17 438.2</b>	<b>18 439.3</b>	<b>19 235.3</b>	..
10-12 Food products, beverages and tobacco	435.2 e	414.6	435.8	495.9	509.2	610.6	620.5	..
13-15 Textiles, wearing apparel, leather and related products	21.8 e	14.7	15.4	18.6	28.8	31.8	32.3	..
13 Textiles	..	..	..	..	..	..	..	..
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	70.1 e	36.7	39.5	30.3	39.6	70.3	69.3	..
16 Wood and wood products, except furniture	..	6.1 e	7.9 e	2.8 e	5.1 e	13.0 e	10.7 e	..
17 Paper and paper products	..	16.1 e	19.6 e	17.7 e	14.4 e	20.7 e	21.2 e	..
18 Printing and reproduction of recorded media	..	14.5 e	12.0 e	9.8 e	20.1 e	36.6 e	37.4 e	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	7 547.8 e	7 669.9	7 848.0	8 168.2	7 168.6	7 070.6	7 047.7	..
19 Coke and refined petroleum products	..	..	104.7	102.3	108.5	100.0	124.8	..
20-21 Chemical and pharmaceutical products	7 052.2 e	7 119.6	7 550.5	7 844.7	6 836.0	6 757.6	6 648.5	..
20 Chemicals and chemical products	894.7 e	869.6	939.3	975.7	841.6	888.2	984.8	..
21 Pharmaceuticals, medicinal, chemical and botanical products	6 157.5 e	6 250.0	6 611.2	6 869.0	5 994.4	5 869.4	5 663.7	..
22 Rubber and plastic products	108.9 e	81.9	112.7	136.8	159.8	144.8	185.9	..
23 Other non-metallic mineral products	..	..	80.0	84.4	64.3	68.2	88.5	..
24-25 Basic metals, metal products, except machinery and equipment	186.4 e	196.9	295.3	338.8	275.6	292.8	341.5	..
24 Basic metals	..	..	162.8	171.0	138.0	125.6	182.9	..
25 Fabricated metal products, except machinery and equipment	..	..	132.5	167.8	137.7	167.3	158.6	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	8 411.0 e	7 807.2	7 778.4	8 518.2	9 218.6	10 119.3	10 835.4	..
26 Computer, electronic and optical products	1 907.3 e	1 764.6	1 732.4	1 820.0	2 105.4	2 296.2	2 476.5	..
27 Electrical equipment	811.0 e	830.2	730.2	720.5	663.9	562.4	664.3	..
28 Machinery and equipment n.e.c.	1 188.7 e	1 256.0	1 191.1	1 374.0	1 423.0	1 494.3	1 432.0	..
29 Motor vehicles, trailers and semi-trailers	1 793.2 e	1 605.0	1 790.7	2 160.0	2 468.8	2 963.0	3 324.5	..
30 Other transport equipment	2 710.7 e	2 351.3	2 334.0	2 443.7	2 557.6	2 803.5	2 938.1	..
31-33 Furniture; repair, installation of machinery and equipment	48.3 e	137.8	190.6	208.1	197.7	243.9	288.7	..
31 Furniture	..	..	..	..	..	..	..	..
32 Other manufacturing	..	..	..	..	..	..	..	..
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>50.1 e</b>	<b>113.7</b>	<b>102.4</b>	<b>95.2</b>	<b>168.6</b>	<b>199.4</b>	<b>208.1</b>	..
35-36 Electricity, gas and water	..	106.1	90.9	80.3	151.5	175.2	191.5	..
37-39 Sewerage, waste management and remediation activities	..	7.6	11.6	14.9	17.1	24.2	16.6	..
<b>41-43 CONSTRUCTION</b>	<b>20.5 e</b>	<b>24.8</b>	<b>10.4</b>	<b>31.3</b>	<b>83.2</b>	<b>103.4</b>	<b>190.8</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>5 599.3 e</b>	<b>5 299.6</b>	<b>5 898.8</b>	<b>6 287.6</b>	<b>6 196.5</b>	<b>7 290.3</b>	<b>8 510.2</b>	..
<b>45-82 Business sector services</b>	<b>5 555.4 e</b>	<b>5 191.2</b>	<b>5 781.2</b>	<b>6 193.5</b>	<b>6 099.6</b>	<b>7 138.5</b>	<b>8 369.2</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>106.8 e</b>	<b>107.5</b>	<b>249.7</b>	<b>334.5</b>	<b>261.7</b>	<b>240.5</b>	<b>353.2</b>	..
<b>49-53 Transportation and storage</b>	<b>17.2 e</b>	<b>34.5</b>	<b>24.8</b>	<b>25.9</b>	<b>30.1</b>	<b>50.2</b>	<b>55.1</b>	..
<b>55-56 Accommodation and food service activities</b>	..	..	..	..	..	..	..	..
<b>58-63 Information and communication</b>	..	..	<b>3 883.9</b>	<b>4 103.7</b>	<b>4 060.1</b>	<b>4 206.7</b>	<b>4 865.0</b>	..
58-60 Publishing, audiovisual and broadcasting activities	..	..	49.6	37.7	42.5	92.1	90.1	..
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	2 011.3 e	1 537.0	1 480.7	1 489.1	1 267.6	1 208.9	1 381.7	..
62-63 IT and other information services	2 132.4 e	2 050.5	2 353.5	2 576.9	2 750.0	2 905.7	3 393.3	..
62 Computer programming, consultancy and related activities	..	..	..	..	..	..	..	..
63 Information service activities	..	..	..	..	..	..	..	..
<b>64-66 Financial and insurance activities</b>	..	..	<b>214.9</b>	<b>191.2</b>	<b>59.7</b>	<b>181.8</b>	<b>251.1</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	..	<b>1 408.0</b>	<b>1 538.1</b>	<b>1 688.1</b>	<b>2 459.3</b>	<b>2 844.7</b>	..
68 Real estate activities	..	..	14.3	14.0	0.0	0.0	31.3	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	..	..	..	..	..	..
72 Scientific research and development	573.9 e	619.3	805.5	965.8	872.1	1 335.8	1 188.3	..
77-82 Administrative and support service activities	..	..	..	..	..	..	..	..
84-99 Community, social and personal services	43.9 e	108.4	117.6	94.2	96.9	151.9	141.0	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# UNITED KINGDOM

## R&D expenditure in industry by industry orientation, constant prices

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>23 380.2</b>	<b>22 633.7</b>	<b>22 922.5</b>	<b>24 345.7</b>	<b>23 561.4</b>	<b>24 933.7</b>	<b>26 507.4</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>139.9 e</b>	<b>161.8</b>	<b>145.7</b>	<b>185.9</b>	<b>182.4</b>	<b>167.1</b>	<b>158.6</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>132.1 e</b>	<b>161.3</b>	<b>162.2</b>	<b>271.9</b>	<b>295.7</b>	<b>304.4</b>	<b>419.3</b>	..
<b>10-33 MANUFACTURING</b>	<b>17 256.6 e</b>	<b>16 723.6</b>	<b>16 603.0</b>	<b>17 554.5</b>	<b>16 851.8</b>	<b>17 327.1</b>	<b>17 721.6</b>	..
10-12 Food products, beverages and tobacco	449.2 e	425.9	435.8	489.6	492.1	573.7	571.6	..
13-15 Textiles, wearing apparel, leather and related products	22.5 e	15.1	15.4	18.3	27.8	29.9	29.8	..
13 Textiles	..	..	..	..	..	..	..	..
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	72.3 e	37.7	39.5	29.9	38.3	66.1	63.8	..
16 Wood and wood products, except furniture	..	6.2 e	7.9 e	2.8 e	4.9 e	12.2 e	9.8 e	..
17 Paper and paper products	..	16.5 e	19.6 e	17.4 e	13.9 e	19.4 e	19.5 e	..
18 Printing and reproduction of recorded media	..	14.9 e	12.0 e	9.7 e	19.4 e	34.4 e	34.5 e	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	7 789.8 e	7 879.9	7 848.0	8 065.5	6 927.5	6 644.1	6 493.1	..
19 Coke and refined petroleum products	..	..	104.7	101.0	104.8	93.9	115.0	..
20-21 Chemicals and pharmaceutical products	7 278.3 e	7 314.6	7 550.5	7 746.1	6 606.2	6 350.0	6 125.3	..
20 Chemicals and chemical products	923.3 e	893.4	939.3	963.4	813.3	834.6	907.3	..
21 Pharmaceuticals, medicinal, chemical and botanical products	6 354.9 e	6 421.2	6 611.2	6 782.7	5 792.9	5 515.4	5 218.0	..
22 Rubber and plastic products	112.3 e	84.2	112.7	135.1	154.4	136.1	171.3	..
23 Other non-metallic mineral products	..	..	80.0	83.4	62.1	64.1	81.5	..
24-25 Basic metals, metal products, except machinery and equipment	192.3 e	202.3	295.3	334.5	266.4	275.2	314.6	..
24 Basic metals	..	..	162.8	168.8	133.3	118.0	168.5	..
25 Fabricated metal products, except machinery and equipment	..	..	132.5	165.7	133.0	157.2	146.1	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	8 680.6 e	8 021.0	7 778.4	8 411.1	8 908.6	9 508.9	9 982.7	..
26 Computer, electronic and optical products	1 968.5 e	1 812.9	1 732.4	1 797.1	2 034.6	2 157.7	2 281.6	..
27 Electrical equipment	837.0 e	852.9	730.2	711.4	641.6	528.5	612.1	..
28 Machinery and equipment n.e.c.	1 226.8 e	1 290.4	1 191.1	1 356.7	1 375.1	1 404.2	1 319.3	..
29 Motor vehicles, trailers and semi-trailers	1 850.7 e	1 649.0	1 790.7	2 132.9	2 385.8	2 784.3	3 062.8	..
30 Other transport equipment	2 797.6 e	2 415.7	2 334.0	2 413.0	2 471.6	2 634.4	2 706.9	..
31-33 Furniture; repair, installation of machinery and equipment	49.8 e	141.6	190.6	205.4	191.0	229.2	265.9	..
31 Furniture	..	..	..	..	..	..	..	..
32 Other manufacturing	..	..	..	..	..	..	..	..
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>51.7 e</b>	<b>116.8</b>	<b>102.4</b>	<b>94.0</b>	<b>162.9</b>	<b>187.3</b>	<b>191.7</b>	..
35-36 Electricity, gas and water	..	109.0	90.9	79.3	146.4	164.6	176.5	..
37-39 Sewerage, waste management and remediation activities	..	7.8	11.6	14.7	16.5	22.7	15.3	..
<b>41-43 CONSTRUCTION</b>	<b>21.2 e</b>	<b>25.5</b>	<b>10.4</b>	<b>30.9</b>	<b>80.4</b>	<b>97.2</b>	<b>175.8</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>5 778.8 e</b>	<b>5 444.7</b>	<b>5 898.8</b>	<b>6 208.6</b>	<b>5 988.2</b>	<b>6 850.6</b>	<b>7 840.4</b>	..
<b>45-82 Business sector services</b>	<b>5 733.5 e</b>	<b>5 333.3</b>	<b>5 781.2</b>	<b>6 115.6</b>	<b>5 894.5</b>	<b>6 707.9</b>	<b>7 710.5</b>	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>110.2 e</b>	<b>110.5</b>	<b>249.7</b>	<b>330.3</b>	<b>252.9</b>	<b>226.0</b>	<b>325.4</b>	..
<b>49-53 Transportation and storage</b>	<b>17.7 e</b>	<b>35.4</b>	<b>24.8</b>	<b>25.6</b>	<b>29.1</b>	<b>47.2</b>	<b>50.8</b>	..
<b>55-56 Accommodation and food service activities</b>	..	..	..	..	..	..	..	..
<b>58-63 Information and communication</b>	..	..	<b>3 883.9</b>	<b>4 052.1</b>	<b>3 923.6</b>	<b>3 953.0</b>	<b>4 482.2</b>	..
58-60 Publishing, audiovisual and broadcasting activities	..	..	49.6	37.2	41.0	86.5	83.0	..
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	2 075.8 e	1 579.1	1 480.7	1 470.4	1 225.0	1 136.0	1 272.9	..
62-63 IT and other information services	2 200.8 e	2 106.6	2 353.5	2 544.5	2 657.5	2 730.5	3 126.3	..
62 Computer programming, consultancy and related activities	..	..	..	..	..	..	..	..
63 Information service activities	..	..	..	..	..	..	..	..
<b>64-66 Financial and insurance activities</b>	..	..	<b>214.9</b>	<b>188.8</b>	<b>57.7</b>	<b>170.8</b>	<b>231.4</b>	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	..	<b>1 408.0</b>	<b>1 518.8</b>	<b>1 631.3</b>	<b>2 310.9</b>	<b>2 620.8</b>	..
68 Real estate activities	..	..	14.3	13.8	0.0	0.0	28.9	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	..	..	..	..	..	..
72 Scientific research and development	592.3 e	636.3	805.5	953.6	842.8	1 255.2	1 094.7	..
77-82 Administrative and support service activities	..	..	..	..	..	..	..	..
84-99 Community, social and personal services	45.3 e	111.4	117.6	93.0	93.7	142.7	129.9	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# UNITED STATES

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>290 680.0</b>	<b>282 393.0</b>	<b>278 977.0</b>	<b>294 093.0</b>	<b>302 250.0</b>	<b>322 528.0</b>	<b>340 728.0</b>	<b>355 821.0</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	..	..	..	..	..	..	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>1 502.0</b>	<b>2 706.7 e</b>	<b>2 542.0</b>	<b>2 733.0</b>	<b>2 815.0</b>	<b>3 997.0</b>	<b>4 703.0</b>	<b>4 012.0</b>
<b>10-33 MANUFACTURING</b>	<b>203 755.0</b>	<b>195 144.0</b>	<b>196 711.0</b>	<b>201 361.0</b>	<b>208 415.0</b>	<b>221 476.0</b>	<b>232 815.0</b>	<b>236 132.0</b>
10-12 Food products, beverages and tobacco	2 880.0	4 669.0	4 544.7 e	5 085.9 e	4 860.0 e	5 855.0	6 212.0	5 840.0
13-15 Textiles, wearing apparel, leather and related products	815.0	428.0	489.0	634.0	560.0	662.0	631.0	748.0
13 Textiles	..	..	..	..	..	..	..	..
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	1 789.0	1 956.0	1 752.0	1 732.0	1 469.0	1 392.0	1 319.0	1 157.0
16 Wood and wood products, except furniture	273.0	512.0	247.0	211.0	461.0	220.0	362.0	195.0
17 Paper and paper products	1 167.0	1 249.0	1 274.0	1 346.0	752.0	920.0	723.0	766.0
18 Printing and reproduction of recorded media	349.0	195.0	231.0	175.0	256.0	252.0	234.0	196.0
19-23 Chemical, rubber, plastic, non-metallic mineral products	62 981.0	57 502.0	62 589.0 e	60 267.2 e	62 956.0	66 885.0	71 553.0	72 210.0
19 Coke and refined petroleum products	1 358.0	606.0	1 154.0 e	1 484.2 e	894.0	242.0	234.0	214.0
20-21 Chemical and pharmaceutical products	58 250.0	53 328.0	58 038.0	55 324.0	57 226.0	61 664.0	66 300.0	68 196.0
20 Chemicals and chemical products	10 119.0	8 392.0	8 623.0	9 375.0	9 080.0	9 238.0	9 688.0	9 521.0
21 Pharmaceuticals, medicinal, chemical and botanical products	48 131.0	44 936.0	49 415.0	45 949.0	48 146.0	52 426.0	56 612.0	58 675.0
22 Rubber and plastic products	1 817.0	2 468.0	2 121.0	2 280.0	3 509.0	3 650.0	3 574.0	2 541.0
23 Other non-metallic mineral products	1 556.0	1 100.0	1 276.0	1 179.0	1 327.0	1 329.0	1 445.0	1 259.0
24-25 Basic metals, metal products, except machinery and equipment	3 114.0	2 877.0	2 356.0	2 508.0	2 574.0	2 836.0	2 808.0	2 889.0
24 Basic metals	695.0	837.0	653.0	655.0	741.0	624.0	677.0	628.0
25 Fabricated metal products, except machinery and equipment	2 419.0	2 040.0	1 703.0	1 853.0	1 833.0	2 212.0	2 131.0	2 261.0
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	124 264.0	117 244.0	116 063.0	121 888.0	124 715.0	129 963.0	137 129.0	139 145.0
26 Computer, electronic and optical products	60 464.0	56 435.0	59 875.0	62 704.0	65 068.0	67 205.0	73 891.0	72 110.0
27 Electrical equipment	3 143.0	3 334.0	3 320.0	3 595.0	3 087.0	4 136.0	4 365.0	4 335.0
28 Machinery and equipment n.e.c.	10 104.0	9 138.0	9 955.0	14 709.0	14 254.0	12 650.0	12 128.0	13 426.0
29 Motor vehicles, trailers and semi-trailers	13 140.0	11 364.0 e	10 109.1 e	11 694.8 e	14 587.6 e	16 729.0	18 404.0	19 078.0
30 Other transport equipment	37 413.0	36 973.0 e	32 803.9 e	29 185.2 e	27 717.4 e	29 244.0	28 342.0	30 196.0
31-33 Furniture; repair, installation of machinery and equipment	7 914.0	10 466.0	8 917.3 e	9 245.9 e	11 281.0 e	13 883.0	13 162.0	14 142.0
31 Furniture	477.0	396.0	373.0	319.0	348.0	374.0	373.0	452.0
32 Other manufacturing	7 437.0	10 070.0	8 544.3 e	8 926.9 e	10 933.0 e	13 509.0	12 789.0	13 690.0
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>226.0</b>	<b>246.0</b>	<b>425.0</b>	<b>386.0</b>	<b>348.0</b>	<b>294.0</b>	<b>310.0</b>	<b>480.0</b>
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>1 346.7 e</b>	<b>115.0</b>	<b>1 079.0</b>	<b>775.0 e</b>	<b>760.0 e</b>	<b>248.0 e</b>	<b>204.0 e</b>	<b>520.0 e</b>
<b>45-99 TOTAL SERVICES</b>	<b>83 850.3 e</b>	<b>84 181.3 e</b>	<b>78 220.0 e</b>	<b>88 838.0 e</b>	<b>89 912.0 e</b>	<b>96 513.0 e</b>	<b>102 696.0 e</b>	<b>114 677.0 e</b>
<b>45-82 Business sector services</b>	<b>80 243.0 e</b>	<b>82 998.3 e</b>	<b>75 089.9</b>	<b>86 633.0</b>	<b>88 352.0</b>	<b>94 979.0 e</b>	<b>101 538.0</b>	<b>113 510.0</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>3 115.0 e</b>	<b>1 893.3 e</b>	<b>2 013.9 e</b>	<b>2 617.0</b>	<b>3 177.0</b>	<b>1 886.0</b>	<b>1 727.0</b>	<b>3 301.0</b>
<b>49-53 Transportation and storage</b>	<b>135.0</b>	<b>178.0</b>	<b>96.0</b>	<b>81.0</b>	<b>178.0</b>	<b>411.0 e</b>	<b>679.0</b>	<b>403.0</b>
<b>55-56 Accommodation and food service activities</b>	..	..	..	..	..	..	..	..
<b>58-63 Information and communication</b>	<b>49 841.0 e</b>	<b>46 366.0 e</b>	<b>47 902.0 e</b>	<b>55 124.0</b>	<b>58 056.0</b>	<b>66 475.0</b>	<b>74 792.0</b>	<b>79 846.0</b>
58-60 Publishing, audiovisual and broadcasting activities	..	..	..	..	..	..	..	..
58 Publishing activities	28 426.0	27 077.0	26 982.0	28 435.0	28 987.0	35 675.0	36 140.0	33 346.0
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	1 684.0	1 496.0	1 868.0	2 157.0	2 824.0	3 041.0	3 755.0	3 607.0
62-63 IT and other information services	18 713.0	15 295.0	13 588.0	17 544.0	16 164.0	15 714.0	20 048.0	23 749.0
62 Computer programming, consultancy and related activities	12 146.0	12 560.0	11 050.0	13 259.0	11 251.0	9 268.0	11 019.0	14 333.0
63 Information service activities	6 567.0	2 735.0	2 538.0	4 285.0	4 913.0	6 446.0	9 029.0	9 416.0
<b>64-66 Financial and insurance activities</b>	<b>1 091.0</b>	<b>1 911.0</b>	<b>2 109.0</b>	<b>3 457.0</b>	<b>3 519.0</b>	<b>4 308.0</b>	<b>4 122.0</b>	<b>5 366.0</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>26 061.0 e</b>	<b>32 650.0 e</b>	<b>22 969.0 e</b>	<b>25 355.0</b>	<b>23 421.0</b>	<b>21 899.0</b>	<b>20 218.0</b>	<b>24 594.0</b>
68 Real estate activities	45.5 e	47.5 e	59.1 e	71.0	21.0	92.0	207.0	233.0
69-75x72 Professional, scientific and technical activities, except scientific R&D	7 895.0	15 116.0	7 822.0	9 659.0	6 514.0	7 548.0	7 149.0	7 964.0
72 Scientific research and development	17 913.0	17 270.0	14 818.0	15 301.0	16 544.0	14 201.0	12 807.0	16 329.0
77-82 Administrative and support service activities	207.5 e	216.5 e	269.9 e	324.0	342.0	58.0	55.0	68.0
84-99 Community, social and personal services	..	..	..	..	..	..	..	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	1 313.0	537.0	1 232.0	741.0	675.0	526.0	501.0	758.0
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# UNITED STATES

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>296 464.7</b>	<b>285 842.0</b>	<b>278 977.0</b>	<b>288 143.9</b>	<b>290 779.6</b>	<b>305 356.5</b>	<b>316 913.7</b>	<b>327 428.9</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	..	..	..	..	..	..	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>1 531.9</b>	<b>2 739.8 e</b>	<b>2 542.0</b>	<b>2 677.7</b>	<b>2 708.2</b>	<b>3 784.2</b>	<b>4 374.3</b>	<b>3 691.9</b>
<b>10-33 MANUFACTURING</b>	<b>207 809.8</b>	<b>197 527.4</b>	<b>196 711.0</b>	<b>197 287.7</b>	<b>200 505.6</b>	<b>209 684.5</b>	<b>216 543.0</b>	<b>217 290.3</b>
10-12 Food products, beverages and tobacco	2 937.3	4 726.0	4 544.7 e	4 983.0 e	4 675.6 e	5 543.3	5 777.8	5 374.0
13-15 Textiles, wearing apparel, leather and related products	831.2	433.2	489.0	621.2	538.7	626.8	586.9	688.3
13 Textiles	..	..	..	..	..	..	..	..
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	1 824.6	1 979.9	1 752.0	1 697.0	1 413.3	1 317.9	1 226.8	1 064.7
16 Wood and wood products, except furniture	278.4	518.3	247.0	206.7	443.5	208.3	336.7	179.4
17 Paper and paper products	1 190.2	1 264.3	1 274.0	1 318.8	723.5	871.0	672.5	704.9
18 Printing and reproduction of recorded media	355.9	197.4	231.0	171.5	246.3	238.6	217.6	180.4
19-23 Chemical, rubber, plastic, non-metallic mineral products	64 234.4	58 204.3	62 589.0 e	59 048.1 e	60 566.8	63 324.0	66 552.0	66 448.1
19 Coke and refined petroleum products	1 385.0	613.4	1 154.0 e	1 454.2 e	860.1	229.1	217.6	196.9
20-21 Chemical and pharmaceutical products	59 409.2	53 979.3	58 038.0	54 204.9	55 054.3	58 381.0	61 666.1	62 754.4
20 Chemicals and chemical products	10 320.4	8 494.5	8 623.0	9 185.4	8 735.4	8 746.2	9 010.9	8 761.3
21 Pharmaceuticals, medicinal, chemical and botanical products	49 088.8	45 484.8	49 415.0	45 019.5	46 318.9	49 634.8	52 655.2	53 993.1
22 Rubber and plastic products	1 853.2	2 498.1	2 121.0	2 233.9	3 375.8	3 455.7	3 324.2	2 338.2
23 Other non-metallic mineral products	1 587.0	1 113.4	1 276.0	1 155.2	1 276.6	1 258.2	1 344.0	1 158.5
24-25 Basic metals, metal products, except machinery and equipment	3 176.0	2 912.1	2 356.0	2 457.3	2 476.3	2 685.0	2 611.7	2 658.5
24 Basic metals	708.8	847.2	653.0	641.8	712.9	590.8	629.7	577.9
25 Fabricated metal products, except machinery and equipment	2 467.1	2 064.9	1 703.0	1 815.5	1 763.4	2 094.2	1 982.1	2 080.6
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	126 736.9	118 676.0	116 063.0	119 422.4	119 982.1	123 043.7	127 544.7	128 042.2
26 Computer, electronic and optical products	61 667.3	57 124.3	59 875.0	61 435.6	62 598.7	63 627.0	68 726.6	66 356.1
27 Electrical equipment	3 205.5	3 374.7	3 320.0	3 522.3	2 969.8	3 915.8	4 059.9	3 989.1
28 Machinery and equipment n.e.c.	10 305.1	9 249.6	9 955.0	14 411.5	13 713.1	11 976.5	11 280.3	12 354.7
29 Motor vehicles, trailers and semi-trailers	13 401.5	11 502.8 e	10 109.1 e	11 458.2 e	14 034.0 e	15 838.3	17 117.7	17 555.7
30 Other transport equipment	38 157.5	37 424.6 e	32 803.9 e	28 594.9 e	26 665.5 e	27 687.0	26 361.1	27 786.6
31-33 Furniture; repair, installation of machinery and equipment	8 071.5	10 593.8	8 917.3 e	9 058.9 e	10 852.9 e	13 143.9	12 242.1	13 013.6
31 Furniture	486.5	400.8	373.0	312.5	334.8	354.1	346.9	415.9
32 Other manufacturing	7 585.0	10 193.0	8 544.3 e	8 746.3 e	10 518.1 e	12 789.8	11 895.1	12 597.6
33 Repair and installation of machinery and equipment	..	..	..	..	..	..	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>230.5</b>	<b>249.0</b>	<b>425.0</b>	<b>378.2</b>	<b>334.8</b>	<b>278.3</b>	<b>288.3</b>	<b>441.7</b>
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>1 373.5 e</b>	<b>116.4</b>	<b>1 079.0</b>	<b>759.3 e</b>	<b>731.2 e</b>	<b>234.8 e</b>	<b>189.7 e</b>	<b>478.5 e</b>
<b>45-99 TOTAL SERVICES</b>	<b>85 519.0 e</b>	<b>85 209.4 e</b>	<b>78 220.0 e</b>	<b>87 040.9 e</b>	<b>86 499.8 e</b>	<b>91 374.6 e</b>	<b>95 518.3 e</b>	<b>105 526.6 e</b>
<b>45-82 Business sector services</b>	<b>81 839.9 e</b>	<b>84 012.0 e</b>	<b>75 089.9</b>	<b>84 880.5</b>	<b>84 999.0</b>	<b>89 922.3 e</b>	<b>94 441.3</b>	<b>104 452.7</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>3 177.0 e</b>	<b>1 916.4 e</b>	<b>2 013.9 e</b>	<b>2 564.1</b>	<b>3 056.4</b>	<b>1 785.6</b>	<b>1 606.3</b>	<b>3 037.6</b>
<b>49-53 Transportation and storage</b>	<b>137.7</b>	<b>180.2</b>	<b>96.0</b>	<b>79.4</b>	<b>171.2</b>	<b>389.1 e</b>	<b>631.5</b>	<b>370.8</b>
<b>55-56 Accommodation and food service activities</b>	..	..	..	..	..	..	..	..
<b>58-63 Information and communication</b>	<b>50 832.9 e</b>	<b>46 932.3 e</b>	<b>47 902.0 e</b>	<b>54 008.9</b>	<b>55 852.8</b>	<b>62 935.8</b>	<b>69 564.6</b>	<b>73 474.8</b>
58-60 Publishing, audiovisual and broadcasting activities	..	..	..	..	..	..	..	..
58 Publishing activities	28 991.7	27 407.7	26 982.0	27 859.8	27 886.9	33 775.7	33 614.1	30 685.2
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	1 717.5	1 514.3	1 868.0	2 113.4	2 716.8	2 879.1	3 492.6	3 319.2
62-63 IT and other information services	19 085.4	15 481.8	13 588.0	17 189.1	15 550.6	14 877.4	18 646.8	21 854.0
62 Computer programming, consultancy and related activities	12 387.7	12 713.4	11 050.0	12 990.8	10 824.0	8 774.6	10 248.9	13 189.3
63 Information service activities	6 697.7	2 768.4	2 538.0	4 198.3	4 726.6	6 102.8	8 397.9	8 664.7
<b>64-66 Financial and insurance activities</b>	<b>1 112.7</b>	<b>1 934.3</b>	<b>2 109.0</b>	<b>3 387.1</b>	<b>3 385.5</b>	<b>4 078.6</b>	<b>3 833.9</b>	<b>4 937.8</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>26 579.6 e</b>	<b>33 048.8 e</b>	<b>22 969.0 e</b>	<b>24 842.1</b>	<b>22 532.2</b>	<b>20 733.1</b>	<b>18 804.9</b>	<b>22 631.6</b>
68 Real estate activities	46.4 e	48.0 e	59.1 e	69.6	20.2	87.1	192.5	214.4
69-75x72 Professional, scientific and technical activities, except scientific R&D	8 052.1	15 300.6	7 822.0	9 463.6	6 266.8	7 146.1	6 649.3	7 328.5
72 Scientific research and development	18 269.5	17 480.9	14 818.0	14 991.5	15 916.2	13 444.9	11 911.9	15 026.1
77-82 Administrative and support service activities	211.7 e	219.2 e	269.9 e	317.4	329.0	54.9	51.2	62.6
84-99 Community, social and personal services	..	..	..	..	..	..	..	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	1 339.1	543.6	1 232.0	726.0	649.4	498.0	466.0	697.5
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# CHINA

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>107 052.0</b>	<b>135 661.9</b>	<b>156 726.1</b>	<b>187 684.1</b>	<b>222 508.3</b>	<b>255 985.9</b>	<b>286 086.9</b>	<b>313 948.3</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>235.8 e</b>	<b>363.8</b>	<b>425.2</b>	<b>483.3</b>	<b>461.2</b>	..	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>3 485.6</b>	<b>5 437.1</b>	<b>6 539.2</b>	<b>7 206.5</b>	<b>7 946.0</b>	<b>7 725.0</b>	<b>7 820.9</b>	<b>7 137.7</b>
<b>10-33 MANUFACTURING</b>	<b>92 731.9</b>	<b>114 034.3</b>	<b>134 532.3</b>	<b>162 466.1</b>	<b>194 233.3</b>	<b>224 237.6</b>	<b>252 534.8</b>	<b>278 138.5</b>
10-12 Food products, beverages and tobacco	3 518.4	4 816.8	5 713.9	6 846.1	9 148.3	10 615.3	12 179.6	13 336.0
13-15 Textiles, wearing apparel, leather and related products	2 564.5	3 445.9	3 949.9	5 146.7	6 272.1	7 380.4	8 302.0	10 063.5
13 Textiles	1 931.4	2 592.0	3 016.1	3 880.2	3 916.3	4 470.2	5 053.1	5 991.5
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	1 380.0	1 856.2	2 012.7	2 549.4	3 379.5	4 099.3	4 645.8	5 404.5
16 Wood and wood products, except furniture	256.7	330.5	334.5	412.8	531.3	766.0	930.3	1 235.3
17 Paper and paper products	895.2	1 175.4	1 234.9	1 594.3	2 150.8	2 476.2	2 742.0	3 104.6
18 Printing and reproduction of recorded media	228.1	350.4	443.3	542.4	697.5	857.1	973.6	1 064.6
19-23 Chemical, rubber, plastic, non-metallic mineral products	16 568.1	20 463.8	24 897.8	30 750.1	37 407.5	44 525.5	50 980.5	55 842.2
19 Coke and refined petroleum products	954.1	1 184.3	1 397.2	1 784.2	2 316.3	2 519.3	3 030.6	2 909.5
20-21 Chemical and pharmaceutical products	11 457.3	13 941.1	16 615.9	21 107.3	25 545.5	30 315.4	34 460.8	37 923.3
20 Chemicals and chemical products	8 201.4	9 645.1	11 581.2	15 081.2	17 507.2	20 509.8	23 361.6	25 186.4
21 Pharmaceuticals, medicinal, chemical and botanical products	3 255.8	4 295.9	5 034.7	6 026.1	8 038.2	9 805.7	11 099.1	12 736.9
22 Rubber and plastic products	2 236.3	2 734.6	3 567.1	3 872.9	4 904.8	5 625.7	6 480.7	6 999.5
23 Other non-metallic mineral products	1 920.5	2 603.8	3 317.6	3 985.7	4 641.0	6 065.0	7 008.5	8 009.9
24-25 Basic metals, metal products, except machinery and equipment	14 566.6	15 733.0	19 226.6	23 224.2	30 825.7	32 835.4	34 801.2	35 067.7
24 Basic metals	12 801.7	13 630.1	16 564.8	20 049.5	25 507.4	26 347.7	27 657.0	26 912.4
25 Fabricated metal products, except machinery and equipment	1 764.9	2 102.9	2 661.9	3 174.7	5 318.3	6 487.7	7 144.2	8 155.3
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	53 472.5	66 687.1	77 706.0	92 525.3	105 135.8	122 120.1	138 177.2	154 218.6
26 Computer, electronic and optical products	18 242.9	21 575.1	25 186.3	30 292.6	33 719.1	39 537.7	44 404.6	51 720.1
27 Electrical equipment	10 124.6	12 782.8	15 236.7	17 800.7	19 979.0	22 998.2	26 242.5	29 219.2
28 Machinery and equipment n.e.c.	12 690.7	16 676.1	18 425.5	22 031.7	25 522.7	29 903.4	33 028.0	34 616.1
29 Motor vehicles, trailers and semi-trailers	..	..	..	..	16 190.0	19 185.8	22 384.2	26 086.7
30 Other transport equipment	..	..	..	..	9 724.9	10 495.0	12 118.0	12 576.5
31-33 Furniture; repair, installation of machinery and equipment	661.9	1 031.4	1 025.3	1 424.2	2 064.3	2 661.6	3 448.4	4 205.9
31 Furniture	144.7	221.2	160.7	257.7	412.2	633.6	769.8	952.5
32 Other manufacturing	517.2	792.4	815.1	1 083.0	1 514.2	1 808.4	2 393.2	2 914.5
33 Repair and installation of machinery and equipment	0.0	17.8	49.4	83.5	137.9	219.6	285.5	339.0
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>1 052.8</b>	<b>1 100.3</b>	<b>1 174.7</b>	<b>1 333.9</b>	<b>1 479.1</b>	..	..	..
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>2 794.2 e</b>	<b>4 310.7</b>	<b>4 226.7</b>	<b>4 144.7</b>	<b>4 274.1</b>	..	..	..
<b>45-99 TOTAL SERVICES</b>	<b>6 751.6 e</b>	<b>10 415.7</b>	<b>9 828.0</b>	<b>12 049.6</b>	<b>14 114.5</b>	..	..	..
<b>45-82 Business sector services</b>	..	<b>10 398.2</b>	..	..	..	..	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	..	<b>0.0</b>	..	..	..	..	..	..
<b>49-53 Transportation and storage</b>	..	<b>338.7</b>	..	..	..	..	..	..
<b>55-56 Accommodation and food service activities</b>	..	<b>0.0</b>	..	..	..	..	..	..
<b>58-63 Information and communication</b>	..	<b>5 005.2</b>	..	..	..	..	..	..
58-60 Publishing, audiovisual and broadcasting activities	..	2.8	..	..	..	..	..	..
58 Publishing activities	..	2.2	..	..	..	..	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	0.6	..	..	..	..	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	..	1 238.1	..	..	..	..	..	..
62-63 IT and other information services	..	3 764.4	..	..	..	..	..	..
62 Computer programming, consultancy and related activities	..	2 485.2	..	..	..	..	..	..
63 Information service activities	..	1 279.2	..	..	..	..	..	..
<b>64-66 Financial and insurance activities</b>	..	<b>34.0</b>	..	..	..	..	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	<b>5 020.3</b>	..	..	..	..	..	..
68 Real estate activities	..	0.0	..	..	..	..	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	..	..	..	..	..	..
72 Scientific research and development	..	2 337.7	..	..	..	..	..	..
77-82 Administrative and support service activities	..	..	..	..	..	..	..	..
84-99 Community, social and personal services	..	17.6	..	..	..	..	..	..
84-85 Public administration and defence; compulsory social security and education	..	0.0	..	..	..	..	..	..
86-88 Human health and social work activities	..	17.3	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	0.2	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	0.0	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# CHINA

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>109 161.3</b>	<b>137 328.0</b>	<b>156 726.1</b>	<b>183 870.0</b>	<b>214 044.1</b>	<b>242 323.3</b>	<b>266 403.2</b>	<b>289 397.8</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>240.5 e</b>	<b>368.3</b>	<b>425.2</b>	<b>473.5</b>	<b>443.7</b>	..	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>3 554.3</b>	<b>5 503.9</b>	<b>6 539.2</b>	<b>7 060.0</b>	<b>7 643.8</b>	<b>7 312.7</b>	<b>7 282.8</b>	<b>6 579.5</b>
<b>10-33 MANUFACTURING</b>	<b>94 559.1</b>	<b>115 434.8</b>	<b>134 532.3</b>	<b>159 164.5</b>	<b>186 844.7</b>	<b>212 269.5</b>	<b>235 159.6</b>	<b>256 388.3</b>
10-12 Food products, beverages and tobacco	3 587.7	4 876.0	5 713.9	6 707.0	8 800.3	10 048.8	11 341.6	12 293.1
13-15 Textiles, wearing apparel, leather and related products	2 615.0	3 488.2	3 949.9	5 042.1	6 033.5	6 986.5	7 730.8	9 276.5
13 Textiles	1 969.5	2 623.8	3 016.1	3 801.4	3 767.3	4 231.6	4 705.4	5 523.0
14 Wearing apparel	..	..	..	..	..	..	..	..
15 Leather and related products, footwear	..	..	..	..	..	..	..	..
16-18 Wood and paper products and printing	1 407.2	1 879.0	2 012.7	2 497.6	3 251.0	3 880.5	4 326.2	4 981.9
16 Wood and wood products, except furniture	261.7	334.6	334.5	404.4	511.1	725.1	866.3	1 138.7
17 Paper and paper products	912.8	1 189.8	1 234.9	1 561.9	2 069.0	2 344.0	2 553.3	2 861.8
18 Printing and reproduction of recorded media	232.6	354.7	443.3	531.3	670.9	811.4	906.6	981.3
19-23 Chemical, rubber, plastic, non-metallic mineral products	16 894.6	20 715.1	24 897.8	30 125.2	35 984.5	42 149.1	47 472.9	51 475.4
19 Coke and refined petroleum products	972.9	1 198.9	1 397.2	1 747.9	2 228.2	2 384.8	2 822.1	2 682.0
20-21 Chemical and pharmaceutical products	11 683.0	14 112.3	16 615.9	20 678.4	24 573.7	28 697.4	32 089.7	34 957.7
20 Chemicals and chemical products	8 363.0	9 763.6	11 581.2	14 774.7	16 841.2	19 415.1	21 754.3	23 216.8
21 Pharmaceuticals, medicinal, chemical and botanical products	3 320.0	4 348.7	5 034.7	5 903.6	7 732.5	9 282.3	10 335.5	11 740.9
22 Rubber and plastic products	2 280.4	2 768.2	3 567.1	3 794.2	4 718.2	5 325.5	6 034.8	6 452.2
23 Other non-metallic mineral products	1 958.3	2 635.8	3 317.6	3 904.7	4 464.5	5 741.3	6 526.3	7 383.5
24-25 Basic metals, metal products, except machinery and equipment	14 853.6	15 926.2	19 226.6	22 752.3	29 653.1	31 082.9	32 406.8	32 325.4
24 Basic metals	13 054.0	13 797.5	16 564.8	19 642.1	24 537.1	24 941.5	25 754.1	24 807.9
25 Fabricated metal products, except machinery and equipment	1 799.7	2 128.7	2 661.9	3 110.2	5 116.0	6 141.4	6 652.6	7 517.5
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	54 526.1	67 506.1	77 706.0	90 645.1	101 136.4	115 602.3	128 670.2	142 158.9
26 Computer, electronic and optical products	18 602.4	21 840.0	25 186.3	29 677.0	32 436.4	37 427.5	41 349.4	47 675.6
27 Electrical equipment	10 324.1	12 939.8	15 236.7	17 438.9	19 219.0	21 770.7	24 436.9	26 934.3
28 Machinery and equipment n.e.c.	12 940.7	16 880.9	18 425.5	21 584.0	24 551.8	28 307.4	30 755.6	31 909.1
29 Motor vehicles, trailers and semi-trailers	..	..	..	..	15 574.2	18 161.8	20 844.1	24 046.7
30 Other transport equipment	..	..	..	..	9 355.0	9 934.8	11 284.3	11 593.0
31-33 Furniture; repair, installation of machinery and equipment	674.9	1 044.1	1 025.3	1 395.3	1 985.8	2 519.5	3 211.1	3 877.0
31 Furniture	147.5	223.9	160.7	252.5	396.5	599.8	716.8	878.0
32 Other manufacturing	527.4	802.2	815.1	1 061.0	1 456.6	1 711.8	2 228.5	2 686.6
33 Repair and installation of machinery and equipment	0.0	18.0	49.4	81.8	132.7	207.9	265.8	312.5
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>1 073.6</b>	<b>1 113.8</b>	<b>1 174.7</b>	<b>1 306.8</b>	<b>1 422.8</b>	..	..	..
35-36 Electricity, gas and water	..	..	..	..	..	..	..	..
37-39 Sewerage, waste management and remediation activities	..	..	..	..	..	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>2 849.3 e</b>	<b>4 363.6</b>	<b>4 226.7</b>	<b>4 060.5</b>	<b>4 111.5</b>	..	..	..
<b>45-99 TOTAL SERVICES</b>	<b>6 884.6 e</b>	<b>10 543.7</b>	<b>9 828.0</b>	<b>11 804.7</b>	<b>13 577.6</b>	..	..	..
<b>45-82 Business sector services</b>	..	<b>10 525.9</b>	..	..	..	..	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	..	<b>0.0</b>	..	..	..	..	..	..
<b>49-53 Transportation and storage</b>	..	<b>342.8</b>	..	..	..	..	..	..
<b>55-56 Accommodation and food service activities</b>	..	<b>0.0</b>	..	..	..	..	..	..
<b>58-63 Information and communication</b>	..	<b>5 066.7</b>	..	..	..	..	..	..
58-60 Publishing, audiovisual and broadcasting activities	..	2.8	..	..	..	..	..	..
58 Publishing activities	..	2.2	..	..	..	..	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	0.6	..	..	..	..	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	..	1 253.3	..	..	..	..	..	..
62-63 IT and other information services	..	3 810.6	..	..	..	..	..	..
62 Computer programming, consultancy and related activities	..	2 515.7	..	..	..	..	..	..
63 Information service activities	..	1 294.9	..	..	..	..	..	..
<b>64-66 Financial and insurance activities</b>	..	<b>34.4</b>	..	..	..	..	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	..	<b>5 081.9</b>	..	..	..	..	..	..
68 Real estate activities	..	0.0	..	..	..	..	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	..	..	..	..	..	..
72 Scientific research and development	..	2 366.4	..	..	..	..	..	..
77-82 Administrative and support service activities	..	..	..	..	..	..	..	..
84-99 Community, social and personal services	..	17.8	..	..	..	..	..	..
84-85 Public administration and defence; compulsory social security and education	..	0.0	..	..	..	..	..	..
86-88 Human health and social work activities	..	17.5	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	0.2	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	0.0	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# ROMANIA

## R&D expenditure in industry by main activity of the enterprise, current prices ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>570.2</b>	<b>605.0</b>	<b>602.5</b>	<b>648.1</b>	<b>715.9</b>	<b>470.5</b>	<b>655.9</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>79.9</b>	<b>57.1</b>	<b>88.5</b>	<b>3.4</b>	<b>6.0</b>	<b>6.8</b>	<b>8.0</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>13.1</b>	<b>12.1</b>	<b>0.8</b>	<b>0.0 e</b>	<b>0.1</b>	<b>0.5 e</b>	<b>18.0</b>	..
<b>10-33 MANUFACTURING</b>	<b>249.1</b>	<b>273.9</b>	<b>244.1</b>	<b>336.5</b>	<b>299.9</b>	<b>247.5</b>	<b>339.0</b>	..
10-12 Food products, beverages and tobacco	5.9	3.7	1.5	4.2	10.8	11.4	32.0	..
13-15 Textiles, wearing apparel, leather and related products	4.4 e	1.2	2.2	0.9 e	5.7	2.6	2.6	..
13 Textiles	3.5	0.3 e	0.6	0.1 e	0.7 e	0.1	0.3	..
14 Wearing apparel	0.4 e	0.5 e	0.1	0.2 e	0.7 e	0.4	1.3	..
15 Leather and related products, footwear	0.6 e	0.4 e	1.5	0.6 e	4.3	2.2	0.4	..
16-18 Wood and paper products and printing	0.5 e	0.1 e	0.1 e	0.0 e	0.0 e	0.1 e	0.8	..
16 Wood and wood products, except furniture	..	..	..	..	..	..	..	..
17 Paper and paper products	..	..	..	..	..	..	..	..
18 Printing and reproduction of recorded media	..	..	..	..	..	..	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	51.9	50.8	51.9	98.5 e	35.3 e	32.9 e	46.3	..
19 Coke and refined petroleum products	3.2	1.2	0.8	0.0	0.0 e	0.0 e	0.0	..
20-21 Chemical and pharmaceutical products	45.8	46.1	47.8	86.2	30.3	28.4	45.5	..
20 Chemicals and chemical products	39.9	40.0	39.7	61.3	3.5	3.3	6.4	..
21 Pharmaceuticals, medicinal, chemical and botanical products	5.9	6.1	8.1	24.9	26.8	25.1	39.1	..
22 Rubber and plastic products	1.3	2.4	1.8	12.2	3.2	4.1	0.2	..
23 Other non-metallic mineral products	1.6	1.2	1.5	0.2 e	1.8	0.3	0.6	..
24-25 Basic metals, metal products, except machinery and equipment	17.6	13.1	10.9	16.0	8.5	9.6	10.7	..
24 Basic metals	10.6	6.3	5.7	11.4	4.0	4.9	5.0	..
25 Fabricated metal products, except machinery and equipment	7.0	6.8	5.2	4.6	4.5	4.7	5.8	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	155.8	188.5	163.4	215.5	232.1	188.5	240.8	..
26 Computer, electronic and optical products	20.0	14.2	13.8	13.8	60.8	40.2	16.3	..
27 Electrical equipment	19.0	16.1	17.1	46.1	18.7	14.6	13.7	..
28 Machinery and equipment n.e.c.	24.5	17.6	17.4	6.8	20.6	13.1	13.3	..
29 Motor vehicles, trailers and semi-trailers	65.7	116.4	95.8	141.9	124.3	114.7	188.6	..
30 Other transport equipment	26.6	24.2	19.3	6.9	7.8	5.9	8.9	..
31-33 Furniture; repair, installation of machinery and equipment	13.0 e	16.5 e	14.0 e	1.4	7.5 e	2.3 e	6.3	..
31 Furniture	0.6 e	0.2 e	0.2 e	0.1 e	0.1 e	0.1 e	0.5	..
32 Other manufacturing	6.0	10.0	10.6	0.0 e	2.3	0.8	1.3	..
33 Repair and installation of machinery and equipment	6.4	6.4	3.2	1.2 e	5.1	1.4	4.5	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>55.5</b>	<b>44.3</b>	<b>68.7</b>	<b>0.6 e</b>	<b>3.4</b>	<b>1.6</b>	<b>1.4</b>	..
35-36 Electricity, gas and water	55.4	44.1	68.4	0.2 e	2.7	..	..	..
37-39 Sewerage, waste management and remediation activities	0.1	0.1	0.3	0.4 e	0.6	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>16.1</b>	<b>12.7</b>	<b>8.0</b>	<b>6.6</b>	<b>0.5</b>	<b>0.5 e</b>	<b>1.2</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>156.4</b>	<b>205.0</b>	<b>192.5</b>	<b>300.9</b>	<b>406.0</b>	<b>213.7</b>	<b>288.3</b>	..
<b>45-82 Business sector services</b>	<b>155.2</b>	<b>204.4</b>	<b>191.1</b>	<b>300.8</b>	<b>403.1</b>	<b>213.7</b>	<b>285.4</b>	..
45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs	..	6.3	..	14.7	29.6	17.8	33.5	..
49-53 Transportation and storage	..	..	..	4.1	..	..	12.3	..
55-56 Accommodation and food service activities	..	..	..	..	1.8	1.3	0.7	..
58-63 Information and communication	17.5	87.0	73.4	114.3	127.4	46.0	70.2	..
58-60 Publishing, audiovisual and broadcasting activities	8.9	44.6	49.0	55.8	2.2	0.0	9.8	..
58 Publishing activities	..	..	..	..	2.1	..	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	..	0.1	..	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	..	..	..	..	13.1	1.2	2.5	..
62-63 IT and other information services	..	..	..	..	112.1	44.8	57.9	..
62 Computer programming, consultancy and related activities	..	41.0	24.3	56.8	76.6	32.0	57.9	..
63 Information service activities	..	..	..	..	35.6	12.7	0.1	..
<b>64-66 Financial and insurance activities</b>	..	..	..	..	..	..	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>137.1</b>	<b>111.1</b>	<b>117.0</b>	<b>166.3</b>	<b>244.3</b>	..	..	..
68 Real estate activities	0.0	0.0	0.0	0.0 e	2.7	..	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	15.3	8.2	18.6	29.6	47.2	15.8	15.1	..
72 Scientific research and development	107.8	101.6	90.2	136.3	191.8	131.6	151.6	..
77-82 Administrative and support service activities	13.9	1.3	8.2	0.3 e	2.7	..	2.0	..
84-99 Community, social and personal services	1.2	0.6	1.4	0.1	2.9	0.0	2.9	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

Disclaimer: <http://oe.cd/disclaimer>

# ROMANIA

## R&D expenditure in industry by main activity of the enterprise, constant prices ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>642.5</b>	<b>650.5</b>	<b>602.5</b>	<b>624.9</b>	<b>665.2</b>	<b>434.2</b>	<b>598.6</b>	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>90.0</b>	<b>61.4</b>	<b>88.5</b>	<b>3.3</b>	<b>5.6</b>	<b>6.3</b>	<b>7.3</b>	..
<b>05-09 MINING AND QUARRYING</b>	<b>14.8</b>	<b>13.1</b>	<b>0.8</b>	<b>0.0 e</b>	<b>0.1</b>	<b>0.4 e</b>	<b>16.5</b>	..
<b>10-33 MANUFACTURING</b>	<b>280.8</b>	<b>294.5</b>	<b>244.1</b>	<b>324.5</b>	<b>278.7</b>	<b>228.4</b>	<b>309.4</b>	..
10-12 Food products, beverages and tobacco	6.6	4.0	1.5	4.1	10.0	10.5	29.2	..
13-15 Textiles, wearing apparel, leather and related products	5.0 e	1.3	2.2	0.9 e	5.3	2.4	2.4	..
13 Textiles	3.9	0.4 e	0.6	0.1 e	0.6 e	0.1	0.3	..
14 Wearing apparel	0.4 e	0.5 e	0.1	0.2 e	0.6 e	0.3	1.2	..
15 Leather and related products, footwear	0.6 e	0.4 e	1.5	0.6 e	4.0	2.0	0.3	..
16-18 Wood and paper products and printing	0.6 e	0.1 e	0.1 e	0.0 e	0.0 e	0.1 e	0.8	..
16 Wood and wood products, except furniture	..	..	..	..	..	..	..	..
17 Paper and paper products	..	..	..	..	..	..	..	..
18 Printing and reproduction of recorded media	..	..	..	..	..	..	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	58.5	54.6	51.9	95.0 e	32.8 e	30.3 e	42.3	..
19 Coke and refined petroleum products	3.6	1.3	0.8	0.0	0.0 e	0.0 e	0.0	..
20-21 Chemical and pharmaceutical products	51.6	49.6	47.8	83.1	28.2	26.3	41.5	..
20 Chemicals and chemical products	45.0	43.0	39.7	59.1	3.2	3.1	5.8	..
21 Pharmaceuticals, medicinal, chemical and botanical products	6.6	6.5	8.1	24.0	24.9	23.2	35.7	..
22 Rubber and plastic products	1.5	2.5	1.8	11.7	3.0	3.8	0.2	..
23 Other non-metallic mineral products	1.8	1.2	1.5	0.2 e	1.7	0.3	0.5	..
24-25 Basic metals, metal products, except machinery and equipment	19.9	14.1	10.9	15.4	7.9	8.9	9.8	..
24 Basic metals	12.0	6.8	5.7	11.0	3.7	4.5	4.5	..
25 Fabricated metal products, except machinery and equipment	7.9	7.3	5.2	4.4	4.2	4.4	5.3	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	175.6	202.7	163.4	207.8	215.6	174.0	219.8	..
26 Computer, electronic and optical products	22.5	15.3	13.8	13.3	56.5	37.1	14.9	..
27 Electrical equipment	21.4	17.3	17.1	44.4	17.4	13.4	12.5	..
28 Machinery and equipment n.e.c.	27.6	18.9	17.4	6.6	19.1	12.1	12.1	..
29 Motor vehicles, trailers and semi-trailers	74.1	125.2	95.8	136.8	115.5	105.9	172.1	..
30 Other transport equipment	30.0	26.0	19.3	6.7	7.2	5.5	8.1	..
31-33 Furniture; repair, installation of machinery and equipment	14.6 e	17.8 e	14.0 e	1.3	7.0 e	2.1 e	5.8	..
31 Furniture	0.7 e	0.2 e	0.2 e	0.1 e	0.1 e	0.1 e	0.5	..
32 Other manufacturing	6.7	10.7	10.6	0.0 e	2.2	0.7	1.2	..
33 Repair and installation of machinery and equipment	7.2	6.8	3.2	1.2 e	4.7	1.3	4.1	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>62.5</b>	<b>47.6</b>	<b>68.7</b>	<b>0.6 e</b>	<b>3.1</b>	<b>1.5</b>	<b>1.3</b>	..
35-36 Electricity, gas and water	62.4	47.4	68.4	0.2 e	2.5	..	..	..
37-39 Sewerage, waste management and remediation activities	0.1	0.2	0.3	0.4 e	0.6	..	..	..
<b>41-43 CONSTRUCTION</b>	<b>18.2</b>	<b>13.6</b>	<b>8.0</b>	<b>6.3</b>	<b>0.4</b>	<b>0.4 e</b>	<b>1.1</b>	..
<b>45-99 TOTAL SERVICES</b>	<b>176.3</b>	<b>220.4</b>	<b>192.5</b>	<b>290.1</b>	<b>377.2</b>	<b>197.2</b>	<b>263.1</b>	..
<b>45-82 Business sector services</b>	<b>174.9</b>	<b>219.8</b>	<b>191.1</b>	<b>290.1</b>	<b>374.5</b>	<b>197.2</b>	<b>260.5</b>	..
45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs	..	6.8	..	14.2	27.5	16.5	30.5	..
49-53 Transportation and storage	..	..	..	4.0	..	..	11.3	..
55-56 Accommodation and food service activities	..	..	..	..	1.6	1.2	0.6	..
58-63 Information and communication	19.8	93.5	73.4	110.2	118.4	42.4	64.1	..
58-60 Publishing, audiovisual and broadcasting activities	10.0	48.0	49.0	53.8	2.0	0.0	8.9	..
58 Publishing activities	..	..	..	..	1.9	..	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	..	0.1	..	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	..	..
60 Programming and broadcasting activities	..	..	..	..	..	..	..	..
61 Telecommunications	..	..	..	..	12.2	1.1	2.2	..
62-63 IT and other information services	..	..	..	..	104.2	41.3	52.9	..
62 Computer programming, consultancy and related activities	..	44.1	24.3	54.8	71.1	29.6	52.8	..
63 Information service activities	..	..	..	..	33.0	11.7	0.1	..
<b>64-66 Financial and insurance activities</b>	..	..	..	..	..	..	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>154.5</b>	<b>119.5</b>	<b>117.0</b>	<b>160.3</b>	<b>227.0</b>	..	..	..
68 Real estate activities	0.0	0.0	0.0	0.0 e	2.5	..	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	17.3	8.8	18.6	28.6	43.8	14.6	13.8	..
72 Scientific research and development	121.4	109.3	90.2	131.4	178.2	121.4	138.4	..
77-82 Administrative and support service activities	15.7	1.3	8.2	0.3 e	2.5	..	1.8	..
84-99 Community, social and personal services	1.4	0.6	1.4	0.1	2.7	0.0	2.6	..
84-85 Public administration and defence; compulsory social security and education	..	..	..	..	..	..	..	..
86-88 Human health and social work activities	..	..	..	..	..	..	..	..
90-93 Arts, entertainment and recreation	..	..	..	..	..	..	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	..	..	..	..	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

Disclaimer: <http://oe.cd/disclaimer>

# SINGAPORE

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>5 778.8</b>	<b>4 092.8</b>	<b>4 391.1</b>	<b>5 194.4</b>	<b>5 023.0</b>	<b>5 215.9</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	..	..
<b>10-33 MANUFACTURING</b>	<b>4 232.0 e</b>	<b>2 530.7 e</b>	<b>2 677.1</b>	<b>2 467.5</b>	<b>3 024.7</b>	<b>3 003.1</b>	..	..
10-12 Food products, beverages and tobacco	26.5 e	22.5 e	20.8	19.5	25.0	24.1	..	..
13-15 Textiles, wearing apparel, leather and related products	0.3 e	1.0 e	1.1	1.0	0.9	0.6 e	..	..
13 Textiles	0.0 e	0.0 e	0.0	0.0	..	..	..	..
14 Wearing apparel	0.0 e	0.8 e	0.8	0.7	..	..	..	..
15 Leather and related products, footwear	0.3 e	0.2 e	0.3	0.3	..	..	..	..
16-18 Wood and paper products and printing	2.7 e	5.3 e	4.3	3.5	3.6 e	3.2	..	..
16 Wood and wood products, except furniture	0.0 e	0.0 e	0.1	0.0	0.0 e	0.0	..	..
17 Paper and paper products	1.2 e	3.3 e	3.3	2.7	3.0 e	2.8	..	..
18 Printing and reproduction of recorded media	1.5 e	2.1 e	0.9	0.8	0.6 e	0.4	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	147.3 e	177.5 e	229.2	248.7	273.4	351.0 e	..	..
19 Coke and refined petroleum products	1.4 e	1.6 e	0.8	1.2	1.4	1.0 e	..	..
20-21 Chemical and pharmaceutical products	115.5 e	153.3 e	210.2	229.4	265.6	344.3	..	..
20 Chemicals and chemical products	79.8 e	67.2 e	89.3	97.6	112.3	201.8	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	35.7 e	86.0 e	120.9	131.8	153.4	142.5	..	..
22 Rubber and plastic products	24.7 e	7.7 e	4.2	14.3	2.7	3.0	..	..
23 Other non-metallic mineral products	5.6 e	14.9 e	14.0	3.8	3.6	2.7	..	..
24-25 Basic metals, metal products, except machinery and equipment	184.4 e	145.3 e	195.3	23.1	30.1 e	43.7	..	..
24 Basic metals	13.0 e	3.6 e	4.6	1.6	1.6 e	3.1	..	..
25 Fabricated metal products, except machinery and equipment	171.4 e	141.7 e	190.7	21.5	28.5	40.6	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	3 856.9 e	2 151.1 e	2 188.0	2 094.1	2 556.3	2 446.7	..	..
26 Computer, electronic and optical products	3 535.6 e	1 799.3 e	1 806.8	1 644.2	2 059.1	1 801.4	..	..
27 Electrical equipment	22.1 e	73.6 e	29.9	24.7	15.7	31.8	..	..
28 Machinery and equipment n.e.c.	138.5 e	117.8 e	182.2	209.4	220.6	308.1	..	..
29 Motor vehicles, trailers and semi-trailers	94.9 e	98.2 e	44.2	49.6	55.0	61.5	..	..
30 Other transport equipment	65.8 e	62.3 e	125.0	166.1	205.9	243.8	..	..
31-33 Furniture; repair, installation of machinery and equipment	14.0 e	27.8 e	38.4	77.5	135.4	133.9	..	..
31 Furniture	..	..	12.7	17.1	16.9	16.3	..	..
32 Other manufacturing	..	..	25.7	60.5	118.5	117.6	..	..
33 Repair and installation of machinery and equipment	..	..	0.0	0.0	0.0	0.0	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>1.0 e</b>	<b>0.0 e</b>	<b>15.8</b>	<b>13.9</b>	<b>10.9</b>	<b>15.1</b>	..	..
35-36 Electricity, gas and water	..	..	0.3	0.1	0.0	0.0	..	..
37-39 Sewerage, waste management and remediation activities	..	..	15.5	13.8	10.9	15.1	..	..
<b>41-43 CONSTRUCTION</b>	<b>4.0 e</b>	<b>2.2 e</b>	<b>1.2</b>	<b>2.5</b>	<b>1.5</b>	<b>1.8</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>1 541.8 e</b>	<b>1 559.9 e</b>	<b>1 697.1</b>	<b>2 710.4</b>	<b>1 986.0</b>	<b>2 195.8</b>	..	..
<b>45-82 Business sector services</b>	<b>1 466.1 e</b>	<b>1 467.5 e</b>	<b>1 686.7</b>	<b>2 700.6</b>	<b>1 976.4</b>	<b>2 160.0</b>	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>389.9 e</b>	<b>375.0 e</b>	<b>440.2</b>	<b>575.1</b>	<b>613.3</b>	<b>822.3</b>	..	..
<b>49-53 Transportation and storage</b>	<b>25.0 e</b>	<b>27.5 e</b>	<b>56.2</b>	<b>46.6</b>	<b>31.1</b>	<b>46.2</b>	..	..
<b>55-56 Accommodation and food service activities</b>	<b>1.1 e</b>	<b>0.0 e</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	..	..
<b>58-63 Information and communication</b>	<b>144.2 e</b>	<b>141.6 e</b>	<b>156.3</b>	<b>160.7</b>	<b>169.8</b>	<b>173.7</b>	..	..
58-60 Publishing, audiovisual and broadcasting activities	..	..	26.3	39.4	54.5	45.3	..	..
58 Publishing activities	..	..	24.7	37.6	54.2	45.2	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	1.6	1.8	0.3	0.2	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	1.6	1.8	0.3	0.2	..	..
60 Programming and broadcasting activities	..	..	0.0	0.0	0.0	0.0	..	..
61 Telecommunications	15.9 e	8.5 e	3.9	5.7	3.5	6.7	..	..
62-63 IT and other information services	..	..	126.1	115.6	111.8	121.7	..	..
62 Computer programming, consultancy and related activities	..	..	123.8	112.9	108.9	115.8	..	..
63 Information service activities	..	..	2.3	2.7	2.9	5.9	..	..
<b>64-66 Financial and insurance activities</b>	<b>122.2 e</b>	<b>102.5 e</b>	<b>100.2</b>	<b>105.3</b>	<b>102.6</b>	<b>107.4</b>	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>783.8 e</b>	<b>820.8 e</b>	<b>933.8</b>	<b>1 812.9</b>	<b>1 059.6</b>	<b>1 010.4</b>	..	..
68 Real estate activities	..	..	0.0	0.0	0.0	0.0	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	157.1	319.6	266.7	191.1	..	..
72 Scientific research and development	547.0 e	599.1 e	765.8	810.2	787.7	812.7	..	..
77-82 Administrative and support service activities	..	..	10.9	683.1	5.2	6.6	..	..
84-99 Community, social and personal services	75.7 e	92.5 e	10.5	9.9	9.6	35.8	..	..
84-85 Public administration and defence; compulsory social security and education	..	..	3.3	4.3	3.2	2.3 e	..	..
86-88 Human health and social work activities	..	..	6.1	4.5	6.1	33.3	..	..
90-93 Arts, entertainment and recreation	..	..	0.0	0.0	0.0	0.0	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	1.1	1.1	0.3	0.2 e	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# SINGAPORE

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>5 893.1</b>	<b>4 141.0</b>	<b>4 391.1</b>	<b>5 085.5</b>	<b>4 834.0</b>	<b>4 934.4</b>	..	..
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	..	..
<b>05-09 MINING AND QUARRYING</b>	<b>0.0 e</b>	<b>0.0 e</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	..	..
<b>10-33 MANUFACTURING</b>	<b>4 315.7 e</b>	<b>2 560.5 e</b>	<b>2 677.1</b>	<b>2 415.7</b>	<b>2 910.9</b>	<b>2 841.1</b>	..	..
10-12 Food products, beverages and tobacco	27.0 e	22.7 e	20.8	19.1	24.1	22.8	..	..
13-15 Textiles, wearing apparel, leather and related products	0.3 e	1.0 e	1.1	1.0	0.8	0.6 e	..	..
13 Textiles	0.0 e	0.0 e	0.0	0.0	..	..	..	..
14 Wearing apparel	0.0 e	0.8 e	0.8	0.7	..	..	..	..
15 Leather and related products, footwear	0.3 e	0.2 e	0.3	0.3	..	..	..	..
16-18 Wood and paper products and printing	2.7 e	5.4 e	4.3	3.4	3.4 e	3.0	..	..
16 Wood and wood products, except furniture	0.0 e	0.0 e	0.1	0.0	0.0 e	0.0	..	..
17 Paper and paper products	1.3 e	3.3 e	3.3	2.6	2.8 e	2.6	..	..
18 Printing and reproduction of recorded media	1.5 e	2.1 e	0.9	0.8	0.6 e	0.4	..	..
19-23 Chemical, rubber, plastic, non-metallic mineral products	150.2 e	179.6 e	229.2	243.5	263.1	332.0 e	..	..
19 Coke and refined petroleum products	1.4 e	1.7 e	0.8	1.2	1.4	1.0 e	..	..
20-21 Chemical and pharmaceutical products	117.8 e	155.1 e	210.2	224.6	255.6	325.7	..	..
20 Chemicals and chemical products	81.4 e	68.0 e	89.3	95.6	108.0	190.9	..	..
21 Pharmaceuticals, medicinal, chemical and botanical products	36.4 e	87.0 e	120.9	129.0	147.6	134.8	..	..
22 Rubber and plastic products	25.2 e	7.8 e	4.2	14.0	2.6	2.9	..	..
23 Other non-metallic mineral products	5.7 e	15.1 e	14.0	3.7	3.5	2.5	..	..
24-25 Basic metals, metal products, except machinery and equipment	188.1 e	147.1 e	195.3	22.6	29.0 e	41.4	..	..
24 Basic metals	13.3 e	3.7 e	4.6	1.5	1.6 e	2.9	..	..
25 Fabricated metal products, except machinery and equipment	174.8 e	143.4 e	190.7	21.1	27.4	38.4	..	..
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	3 933.1 e	2 176.5 e	2 188.0	2 050.1	2 460.1	2 314.6	..	..
26 Computer, electronic and optical products	3 605.5 e	1 820.4 e	1 806.8	1 609.7	1 981.6	1 704.1	..	..
27 Electrical equipment	22.5 e	74.5 e	29.9	24.2	15.1	30.1	..	..
28 Machinery and equipment n.e.c.	141.2 e	119.2 e	182.2	205.0	212.3	291.5	..	..
29 Motor vehicles, trailers and semi-trailers	96.8 e	99.3 e	44.2	48.6	53.0	58.2	..	..
30 Other transport equipment	67.1 e	63.0 e	125.0	162.6	198.2	230.7	..	..
31-33 Furniture; repair, installation of machinery and equipment	14.3 e	28.2 e	38.4	75.9	130.3	126.7	..	..
31 Furniture	..	..	12.7	16.7	16.3	15.4	..	..
32 Other manufacturing	..	..	25.7	59.2	114.0	111.2	..	..
33 Repair and installation of machinery and equipment	..	..	0.0	0.0	0.0	0.0	..	..
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>1.0 e</b>	<b>0.0 e</b>	<b>15.8</b>	<b>13.6</b>	<b>10.5</b>	<b>14.3</b>	..	..
35-36 Electricity, gas and water	..	..	0.3	0.1	0.0	0.0	..	..
37-39 Sewerage, waste management and remediation activities	..	..	15.5	13.5	10.5	14.3	..	..
<b>41-43 CONSTRUCTION</b>	<b>4.1 e</b>	<b>2.2 e</b>	<b>1.2</b>	<b>2.4</b>	<b>1.4</b>	<b>1.7</b>	..	..
<b>45-99 TOTAL SERVICES</b>	<b>1 572.3 e</b>	<b>1 578.3 e</b>	<b>1 697.1</b>	<b>2 653.6</b>	<b>1 911.2</b>	<b>2 077.3</b>	..	..
<b>45-82 Business sector services</b>	<b>1 495.1 e</b>	<b>1 484.7 e</b>	<b>1 686.7</b>	<b>2 643.9</b>	<b>1 902.0</b>	<b>2 043.4</b>	..	..
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>397.6 e</b>	<b>379.4 e</b>	<b>440.2</b>	<b>563.0</b>	<b>590.2</b>	<b>777.9</b>	..	..
<b>49-53 Transportation and storage</b>	<b>25.5 e</b>	<b>27.9 e</b>	<b>56.2</b>	<b>45.6</b>	<b>29.9</b>	<b>43.7</b>	..	..
<b>55-56 Accommodation and food service activities</b>	<b>1.1 e</b>	<b>0.0 e</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	..	..
<b>58-63 Information and communication</b>	<b>147.0 e</b>	<b>143.2 e</b>	<b>156.3</b>	<b>157.3</b>	<b>163.4</b>	<b>164.4</b>	..	..
58-60 Publishing, audiovisual and broadcasting activities	..	..	26.3	38.6	52.5	42.9	..	..
58 Publishing activities	..	..	24.7	36.8	52.2	42.7	..	..
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	1.6	1.8	0.3	0.2	..	..
59 Motion picture, video and TV programme production; sound and music	..	..	1.6	1.8	0.3	0.2	..	..
60 Programming and broadcasting activities	..	..	0.0	0.0	0.0	0.0	..	..
61 Telecommunications	16.2 e	8.6 e	3.9	5.6	3.4	6.3	..	..
62-63 IT and other information services	..	..	126.1	113.2	107.6	115.1	..	..
62 Computer programming, consultancy and related activities	..	..	123.8	110.5	104.8	109.6	..	..
63 Information service activities	..	..	2.3	2.6	2.8	5.6	..	..
<b>64-66 Financial and insurance activities</b>	<b>124.6 e</b>	<b>103.7 e</b>	<b>100.2</b>	<b>103.1</b>	<b>98.8</b>	<b>101.6</b>	..	..
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>799.2 e</b>	<b>830.5 e</b>	<b>933.8</b>	<b>1 774.9</b>	<b>1 019.7</b>	<b>955.9</b>	..	..
68 Real estate activities	..	..	0.0	0.0	0.0	0.0	..	..
69-75x72 Professional, scientific and technical activities, except scientific R&D	..	..	157.1	312.9	256.7	180.8	..	..
72 Scientific research and development	557.8 e	606.1 e	765.8	793.2	758.0	768.8	..	..
77-82 Administrative and support service activities	..	..	10.9	668.7	5.0	6.2	..	..
84-99 Community, social and personal services	77.2 e	93.6 e	10.5	9.7	9.2	33.9	..	..
84-85 Public administration and defence; compulsory social security and education	..	..	3.3	4.2	3.0	2.2 e	..	..
86-88 Human health and social work activities	..	..	6.1	4.4	5.9	31.5	..	..
90-93 Arts, entertainment and recreation	..	..	0.0	0.0	0.0	0.0	..	..
94-99 Other services; household-employers; extraterritorial bodies	..	..	1.1	1.1	0.3	0.2 e	..	..

.. Not available; e Estimated value

Note: Detailed metadata at: <http://metalinks.oecd.org/anberd/20171031/4aeb>.

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# CHINESE TAIPEI

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

ISIC Rev. 4

Million USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>15 230.6</b>	<b>15 891.0</b>	<b>17 943.7</b>	<b>19 949.5</b>	<b>21 589.2</b>	<b>23 238.4</b>	<b>25 061.8</b>	<b>26 115.4</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	..	..	..	..	..	..	..	..
<b>05-09 MINING AND QUARRYING</b>	..	..	..	..	..	..	..	..
<b>10-33 MANUFACTURING</b>	<b>14 097.7</b>	<b>14 645.9</b>	<b>16 522.4</b>	<b>18 440.2</b>	<b>19 760.3</b>	<b>21 228.2</b>	<b>22 931.0</b>	<b>23 924.7</b>
10-12 Food products, beverages and tobacco	116.5	109.4	125.2	141.5	166.5	145.7	154.0	151.5
13-15 Textiles, wearing apparel, leather and related products	234.4	240.4	221.9	246.6	265.3	260.9	291.2	310.8
13 Textiles	124.1	121.9	118.9	126.6	125.7	117.2	127.0	134.4
14 Wearing apparel	13.2	12.7	11.6	12.6	11.3	13.1	13.3	11.5
15 Leather and related products, footwear	97.1	105.8	91.4	107.4	128.3	130.6	150.9	164.9
16-18 Wood and paper products and printing	38.2	40.8	41.5	38.9	41.9	55.3	42.3	50.7
16 Wood and wood products, except furniture	0.0	0.0	0.3	1.0	0.9	1.4	4.0	6.2
17 Paper and paper products	20.3	17.1	17.8	16.7	17.8	12.3	10.5	11.4
18 Printing and reproduction of recorded media	17.8	23.7	23.3	21.2	23.2	41.6	27.8	33.1
19-23 Chemical, rubber, plastic, non-metallic mineral products	973.1	986.8	1 149.7	1 293.6	1 405.4	1 482.7	1 600.6	1 591.8
19 Coke and refined petroleum products	66.9	70.3	75.9	80.4	97.7	137.9	148.4	140.1
20-21 Chemical and pharmaceutical products	702.3	726.6	844.5	970.5	1 039.5	1 096.7	1 172.2	1 180.8
20 Chemicals and chemical products	497.6	503.6	583.7	643.2	689.6	702.4	683.9	725.1
21 Pharmaceuticals, medicinal, chemical and botanical products	204.7	223.0	260.8	327.3	349.9	394.3	488.2	455.6
22 Rubber and plastic products	162.2	167.2	197.6	198.9	225.5	208.9	226.4	220.7
23 Other non-metallic mineral products	41.8	22.7	31.8	43.7	42.7	39.2	53.7	50.3
24-25 Basic metals, metal products, except machinery and equipment	276.3	286.1	311.9	324.3	325.1	349.5	354.4	356.5
24 Basic metals	157.5	159.2	180.0	169.9	168.1	177.2	173.9	172.0
25 Fabricated metal products, except machinery and equipment	118.8	126.9	131.9	154.5	157.0	172.2	180.5	184.5
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	12 282.5	12 836.7	14 490.6	16 229.2	17 367.1	18 725.1	20 275.7	21 233.9
26 Computer, electronic and optical products	10 781.8	11 380.6	12 826.8	14 473.2	15 594.4	16 820.8	18 215.7	19 191.5
27 Electrical equipment	493.6	528.9	609.3	610.7	631.9	638.5	635.4	639.2
28 Machinery and equipment n.e.c.	467.0	396.9	473.0	573.9	520.6	588.2	676.9	694.7
29 Motor vehicles, trailers and semi-trailers	304.2	267.0	299.2	307.1	343.0	374.5	438.5	407.6
30 Other transport equipment	236.0	263.3	282.3	264.4	277.1	303.1	309.1	301.0
31-33 Furniture; repair, installation of machinery and equipment	176.7	145.8	181.6	166.1	189.0	209.1	212.9	229.5
31 Furniture	10.9	12.4	10.3	8.4	10.7	7.2	9.1	10.6
32 Other manufacturing	165.7	133.4	171.3	157.7	178.3	201.9	203.8	219.0
33 Repair and installation of machinery and equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>41.2</b>	<b>38.5</b>	<b>46.7</b>	<b>44.2</b>	<b>48.6</b>	<b>38.8</b>	<b>37.6</b>	<b>51.0</b>
35-36 Electricity, gas and water	40.8	37.5	45.3	42.6	47.4	37.5	36.4	48.8
37-39 Sewerage, waste management and remediation activities	0.4	1.0	1.4	1.6	1.2	1.2	1.3	2.2
<b>41-43 CONSTRUCTION</b>	<b>11.9</b>	<b>10.8</b>	<b>10.4</b>	<b>10.0</b>	<b>12.1</b>	<b>14.0</b>	<b>17.9</b>	<b>14.6</b>
<b>45-99 TOTAL SERVICES</b>	<b>1 079.8</b>	<b>1 195.8</b>	<b>1 364.2</b>	<b>1 455.0</b>	<b>1 768.1</b>	<b>1 957.4</b>	<b>2 075.2</b>	<b>2 125.1</b>
<b>45-82 Business sector services</b>	<b>921.8</b>	<b>1 018.1</b>	<b>1 168.2</b>	<b>1 276.0</b>	<b>1 566.8</b>	<b>1 753.6</b>	<b>1 841.7</b>	<b>1 891.6</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>40.1</b>	<b>55.1</b>	<b>54.6</b>	<b>51.3</b>	<b>99.1</b>	<b>103.7</b>	<b>119.0</b>	<b>111.8</b>
<b>49-53 Transportation and storage</b>	<b>11.6</b>	<b>9.9</b>	<b>13.1</b>	<b>12.1</b>	<b>12.6</b>	<b>16.0</b>	<b>17.5</b>	<b>17.8</b>
<b>55-56 Accommodation and food service activities</b>	<b>3.8</b>	<b>2.6</b>	<b>0.2</b>	<b>0.7</b>	<b>0.3</b>	<b>0.5</b>	<b>0.1</b>	<b>0.1</b>
<b>58-63 Information and communication</b>	<b>678.1</b>	<b>719.5</b>	<b>817.2</b>	<b>871.8</b>	<b>874.8</b>	<b>993.2</b>	<b>1 027.0</b>	<b>1 048.7</b>
58-60 Publishing, audiovisual and broadcasting activities	15.6	10.3	10.7	13.3	18.5	28.6	30.7	27.3
58 Publishing activities	9.8	8.9	8.4	11.3	15.4	23.1	22.3	20.0
59-60 Motion picture, video and TV programme production; broadcasting activities	5.8	1.3	2.2	2.0	3.0	5.5	8.4	7.3
59 Motion picture, video and TV programme production; sound and music	1.6	0.5	1.1	0.2	0.4	4.1	3.0	3.5
60 Programming and broadcasting activities	4.2	0.9	1.1	1.8	2.6	1.4	5.4	3.8
61 Telecommunications	195.0	202.0	245.0	257.6	262.2	260.1	253.1	246.3
62-63 IT and other information services	467.4	507.2	561.6	600.8	594.0	704.5	743.2	775.1
62 Computer programming, consultancy and related activities	392.6	435.7	514.0	536.5	557.0	663.9	694.4	712.0
63 Information service activities	74.8	71.5	47.6	64.3	37.0	40.6	48.8	63.2
<b>64-66 Financial and insurance activities</b>	<b>76.6</b>	<b>95.0</b>	<b>108.8</b>	<b>124.2</b>	<b>150.5</b>	<b>159.5</b>	<b>182.7</b>	<b>205.9</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>111.6</b>	<b>136.0</b>	<b>174.3</b>	<b>216.0</b>	<b>429.6</b>	<b>480.7</b>	<b>495.3</b>	<b>507.3</b>
68 Real estate activities	0.3	0.3	0.0	0.8	1.2	1.6	2.4	1.9
69-75x72 Professional, scientific and technical activities, except scientific R&D	50.6	53.5	94.2	128.4	337.9	388.9	399.4	412.4
72 Scientific research and development	54.8	76.3	73.5	80.4	82.8	80.7	83.7	84.4
77-82 Administrative and support service activities	5.9	5.9	6.6	6.4	7.6	9.5	9.8	8.6
84-99 Community, social and personal services	158.0	177.7	196.1	179.0	201.4	203.8	233.6	233.4
84-85 Public administration and defence; compulsory social security and education	0.0	0.0	0.2	0.0	0.1	0.1	0.2	0.2
86-88 Human health and social work activities	153.0	174.3	192.1	176.4	199.4	201.9	231.5	231.6
90-93 Arts, entertainment and recreation	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94-99 Other services; household-employers; extraterritorial bodies	4.9	3.5	3.8	2.6	1.9	1.9	1.9	1.7

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# CHINESE TAIPEI

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

ISIC Rev. 4

2010 USD PPP

	2008	2009	2010	2011	2012	2013	2014	2015
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>15 534.1</b>	<b>16 085.7</b>	<b>17 943.7</b>	<b>19 545.9</b>	<b>20 770.9</b>	<b>22 001.6</b>	<b>23 310.4</b>	<b>24 032.3</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	..	..	..	..	..	..	..	..
<b>05-09 MINING AND QUARRYING</b>	..	..	..	..	..	..	..	..
<b>10-33 MANUFACTURING</b>	<b>14 378.6</b>	<b>14 825.3</b>	<b>16 522.4</b>	<b>18 067.2</b>	<b>19 011.3</b>	<b>20 098.4</b>	<b>21 328.5</b>	<b>22 016.3</b>
10-12 Food products, beverages and tobacco	118.8	110.7	125.2	138.6	160.2	137.9	143.2	139.4
13-15 Textiles, wearing apparel, leather and related products	239.1	243.3	221.9	241.6	255.2	247.0	270.8	286.0
13 Textiles	126.6	123.4	118.9	124.1	120.9	111.0	118.1	123.7
14 Wearing apparel	13.5	12.9	11.6	12.4	10.9	12.4	12.4	10.6
15 Leather and related products, footwear	99.1	107.0	91.4	105.2	123.4	123.7	140.3	151.8
16-18 Wood and paper products and printing	38.9	41.3	41.5	38.1	40.3	52.3	39.4	46.6
16 Wood and wood products, except furniture	0.0	0.0	0.3	1.0	0.8	1.3	3.7	5.7
17 Paper and paper products	20.7	17.3	17.8	16.3	17.1	11.6	9.7	10.5
18 Printing and reproduction of recorded media	18.2	24.0	23.3	20.8	22.4	39.4	25.9	30.5
19-23 Chemical, rubber, plastic, non-metallic mineral products	992.5	998.9	1 149.7	1 267.4	1 352.1	1 403.8	1 488.7	1 464.8
19 Coke and refined petroleum products	68.2	71.2	75.9	78.8	94.0	130.5	138.0	128.9
20-21 Chemical and pharmaceutical products	716.3	735.5	844.5	950.9	1 000.1	1 038.4	1 090.3	1 086.6
20 Chemicals and chemical products	507.5	509.8	583.7	630.2	663.5	665.0	636.1	667.3
21 Pharmaceuticals, medicinal, chemical and botanical products	208.7	225.7	260.8	320.6	336.6	373.3	454.1	419.3
22 Rubber and plastic products	165.4	169.2	197.6	194.9	217.0	197.8	210.5	203.1
23 Other non-metallic mineral products	42.6	23.0	31.8	42.9	41.1	37.1	49.9	46.3
24-25 Basic metals, metal products, except machinery and equipment	281.8	289.6	311.9	317.8	312.8	330.9	329.6	328.1
24 Basic metals	160.7	161.1	180.0	166.4	161.8	167.8	161.7	158.3
25 Fabricated metal products, except machinery and equipment	121.1	128.5	131.9	151.4	151.0	163.1	167.9	169.8
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	12 527.3	12 994.0	14 490.6	15 900.9	16 708.8	17 728.5	18 858.7	19 540.1
26 Computer, electronic and optical products	10 996.6	11 520.0	12 826.8	14 180.4	15 003.3	15 925.5	16 942.8	17 660.7
27 Electrical equipment	503.5	535.3	609.3	598.3	608.0	604.5	591.0	588.2
28 Machinery and equipment n.e.c.	476.3	401.7	473.0	562.3	500.9	556.9	629.6	639.2
29 Motor vehicles, trailers and semi-trailers	310.2	270.3	299.2	300.8	330.0	354.6	407.9	375.1
30 Other transport equipment	240.7	266.6	282.3	259.1	266.6	287.0	287.5	277.0
31-33 Furniture; repair, installation of machinery and equipment	180.2	147.6	181.6	162.8	181.8	197.9	198.0	211.2
31 Furniture	11.2	12.6	10.3	8.2	10.3	6.8	8.5	9.7
32 Other manufacturing	169.0	135.0	171.3	154.5	171.5	191.1	189.5	201.5
33 Repair and installation of machinery and equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>42.0</b>	<b>39.0</b>	<b>46.7</b>	<b>43.3</b>	<b>46.8</b>	<b>36.7</b>	<b>35.0</b>	<b>46.9</b>
35-36 Electricity, gas and water	41.6	38.0	45.3	41.7	45.6	35.5	33.8	44.9
37-39 Sewerage, waste management and remediation activities	0.4	1.0	1.4	1.5	1.2	1.2	1.2	2.0
<b>41-43 CONSTRUCTION</b>	<b>12.1</b>	<b>10.9</b>	<b>10.4</b>	<b>9.8</b>	<b>11.7</b>	<b>13.3</b>	<b>16.6</b>	<b>13.4</b>
<b>45-99 TOTAL SERVICES</b>	<b>1 101.3</b>	<b>1 210.5</b>	<b>1 364.2</b>	<b>1 425.6</b>	<b>1 701.1</b>	<b>1 853.2</b>	<b>1 930.2</b>	<b>1 955.6</b>
<b>45-82 Business sector services</b>	<b>940.2</b>	<b>1 030.6</b>	<b>1 168.2</b>	<b>1 250.2</b>	<b>1 507.4</b>	<b>1 660.2</b>	<b>1 713.0</b>	<b>1 740.8</b>
<b>45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs</b>	<b>40.9</b>	<b>55.7</b>	<b>54.6</b>	<b>50.2</b>	<b>95.3</b>	<b>98.2</b>	<b>110.7</b>	<b>102.9</b>
<b>49-53 Transportation and storage</b>	<b>11.8</b>	<b>10.0</b>	<b>13.1</b>	<b>11.8</b>	<b>12.1</b>	<b>15.1</b>	<b>16.3</b>	<b>16.4</b>
<b>55-56 Accommodation and food service activities</b>	<b>3.9</b>	<b>2.7</b>	<b>0.2</b>	<b>0.7</b>	<b>0.3</b>	<b>0.5</b>	<b>0.1</b>	<b>0.1</b>
<b>58-63 Information and communication</b>	<b>691.6</b>	<b>728.3</b>	<b>817.2</b>	<b>854.1</b>	<b>841.6</b>	<b>940.3</b>	<b>955.3</b>	<b>965.0</b>
58-60 Publishing, audiovisual and broadcasting activities	15.9	10.4	10.7	13.0	17.8	27.1	28.6	25.1
58 Publishing activities	10.0	9.1	8.4	11.1	14.9	21.8	20.8	18.4
59-60 Motion picture, video and TV programme production; broadcasting activities	5.9	1.4	2.2	2.0	2.9	5.2	7.8	6.7
59 Motion picture, video and TV programme production; sound and music	1.6	0.5	1.1	0.2	0.4	3.9	2.8	3.3
60 Programming and broadcasting activities	4.3	0.9	1.1	1.8	2.5	1.3	5.0	3.5
61 Telecommunications	198.9	204.5	245.0	252.4	252.3	246.2	235.4	226.6
62-63 IT and other information services	476.8	513.4	561.6	588.7	571.5	667.0	691.3	713.3
62 Computer programming, consultancy and related activities	400.5	441.0	514.0	525.6	535.9	628.5	645.9	655.2
63 Information service activities	76.3	72.4	47.6	63.0	35.6	38.5	45.4	58.1
<b>64-66 Financial and insurance activities</b>	<b>78.1</b>	<b>96.2</b>	<b>108.8</b>	<b>121.7</b>	<b>144.8</b>	<b>151.0</b>	<b>169.9</b>	<b>189.4</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>113.8</b>	<b>137.6</b>	<b>174.3</b>	<b>211.7</b>	<b>413.3</b>	<b>455.1</b>	<b>460.7</b>	<b>466.9</b>
68 Real estate activities	0.3	0.3	0.0	0.8	1.2	1.6	2.3	1.8
69-75x72 Professional, scientific and technical activities, except scientific R&D	51.6	54.1	94.2	125.8	325.1	368.2	371.5	379.5
72 Scientific research and development	55.9	77.2	73.5	78.8	79.7	76.4	77.9	77.6
77-82 Administrative and support service activities	6.0	6.0	6.6	6.3	7.3	9.0	9.1	7.9
84-99 Community, social and personal services	161.1	179.9	196.1	175.4	193.7	193.0	217.2	214.8
84-85 Public administration and defence; compulsory social security and education	0.0	0.0	0.2	0.0	0.1	0.1	0.2	0.1
86-88 Human health and social work activities	156.1	176.4	192.1	172.8	191.8	191.2	215.3	213.1
90-93 Arts, entertainment and recreation	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94-99 Other services; household-employers; extraterritorial bodies	5.0	3.5	3.8	2.6	1.8	1.8	1.7	1.5

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ISBN 978-92-64-28447-0  
01 2017 19 1 P



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