

# CZECH REPUBLIC

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

ISIC Rev. 4

Million USD PPP

	2011	2012	2013	2014	2015	2016	2017	2018
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>2 558.8</b>	<b>2 874.8</b>	<b>3 246.9</b>	<b>3 698.3</b>	<b>3 722.4</b>	<b>3 894.2</b>	<b>4 589.8</b>	<b>5 133.6</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>8.5</b>	<b>10.0</b>	<b>11.4</b>	<b>11.7</b>	<b>13.8</b>	<b>15.3</b>	<b>15.2</b>	<b>14.5</b>
<b>05-09 MINING AND QUARRYING</b>	<b>1.4</b>	<b>1.5</b>	<b>1.1</b>	<b>2.4</b>	<b>2.7</b>	<b>4.1</b>	<b>4.1</b>	<b>3.3</b>
<b>10-33 MANUFACTURING</b>	<b>1 341.7</b>	<b>1 468.4</b>	<b>1 725.9</b>	<b>1 910.1</b>	<b>1 954.2</b>	<b>2 083.3</b>	<b>2 465.7</b>	<b>2 802.6</b>
10-12 Food products, beverages and tobacco	24.6	22.8	25.0	18.0	19.5	19.1	24.3	19.8
13-15 Textiles, wearing apparel, leather and related products	32.9	15.7	24.7	27.0	26.1	25.3	24.5	26.3
13 Textiles	16.8	12.9	21.9	24.7	23.8	23.0	21.6	23.2
14 Wearing apparel	14.8	1.7	1.3	0.8	1.0	1.1	1.5	1.7
15 Leather and related products, footwear	1.4	1.1	1.5	1.5	1.3	1.2	1.4	1.4
16-18 Wood and paper products and printing	6.1	3.2	2.7	4.0	9.6	6.9	10.3	7.5
16 Wood and wood products, except furniture	3.1	0.4	0.8	1.6	4.5	3.7	3.9	2.9
17 Paper and paper products	2.4	2.1	1.0	1.1	4.3	2.1	4.2	2.6
18 Printing and reproduction of recorded media	0.5	0.7	0.9	1.3	0.9	1.1	2.2	2.0
19-23 Chemical, rubber, plastic, non-metallic mineral products	239.5	243.0	281.0	304.1	317.2	290.3	304.4	334.6
19 Coke and refined petroleum products	0.8	0.5	0.5	0.6	0.9	0.7	0.7	0.9
20-21 Chemical and pharmaceutical products	156.4	155.9	165.1	177.7	177.1	162.5	178.9	203.5
20 Chemicals and chemical products	75.7	72.0	88.2	93.1	90.2	72.0	89.0	92.4
21 Pharmaceuticals, medicinal, chemical and botanical products	80.7	83.9	76.9	84.6	86.9	90.5	89.9	111.1
22 Rubber and plastic products	52.0	51.4	66.5	83.5	93.1	83.6	77.3	77.5
23 Other non-metallic mineral products	30.2	35.2	48.9	42.3	46.2	43.5	47.5	52.7
24-25 Basic metals, metal products, except machinery and equipment	79.8	92.4	86.5	113.3	118.2	96.3	123.9	139.7
24 Basic metals	22.0	23.6	17.8	23.5	24.9	12.7	16.3	15.2
25 Fabricated metal products, except machinery and equipment	57.8	68.8	68.7	89.9	93.3	83.6	107.6	124.5
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	874.8	1 004.9	1 244.2	1 373.7	1 374.1	1 559.7	1 882.5	2 162.7
26 Computer, electronic and optical products	86.1	92.7	119.1	147.5	152.7	185.6	207.5	235.9
27 Electrical equipment	121.3	154.1	147.2	239.0	259.1	302.0	335.0	357.8
28 Machinery and equipment n.e.c.	219.7	289.1	335.3	330.1	301.0	314.5	342.9	374.0
29 Motor vehicles, trailers and semi-trailers	298.3	345.4	508.4	511.6	548.9	621.5	838.1	1 019.2
30 Other transport equipment	149.3	123.6	134.2	145.5	112.4	136.0	159.1	175.8
31-33 Furniture; repair, installation of machinery and equipment	84.0	86.4	61.7	70.0	89.5	85.7	95.7	112.0
31 Furniture	5.4	4.0	3.7	3.1	3.3	2.4	3.8	5.0
32 Other manufacturing	26.8	34.0	27.0	28.1	31.1	44.3	45.8	42.0
33 Repair and installation of machinery and equipment	51.7	48.4	31.0	38.9	55.1	39.1	46.1	65.0
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>10.6</b>	<b>10.5</b>	<b>14.8</b>	<b>13.0</b>	<b>18.2</b>	<b>11.1</b>	<b>12.6</b>	<b>13.1</b>
35-36 Electricity, gas and water	3.1	3.7	7.6	5.1	4.4	4.2	4.5	4.2
37-39 Sewerage, waste management and remediation activities	7.4	6.7	7.2	7.9	13.8	6.9	8.2	8.9
<b>41-43 CONSTRUCTION</b>	<b>27.2</b>	<b>31.7</b>	<b>41.3</b>	<b>53.0</b>	<b>47.8</b>	<b>42.0</b>	<b>48.1</b>	<b>54.2</b>
<b>45-99 TOTAL SERVICES</b>	<b>1 169.5</b>	<b>1 352.7</b>	<b>1 452.4</b>	<b>1 708.1</b>	<b>1 685.7</b>	<b>1 738.4</b>	<b>2 044.1</b>	<b>2 245.9</b>
<b>45-82 Business sector services</b>	<b>1 161.3</b>	<b>1 341.7</b>	<b>1 422.5</b>	<b>1 686.0</b>	<b>1 658.1</b>	<b>1 712.3</b>	<b>2 025.8</b>	<b>2 224.0</b>
45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs	69.8	69.1	75.0	70.8	84.3	76.2	85.5	103.6
49-53 Transportation and storage	0.4	1.5	1.7	1.8	1.5	1.4	1.4	1.3
55-56 Accommodation and food service activities	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
<b>58-63 Information and communication</b>	<b>371.5</b>	<b>421.2</b>	<b>458.3</b>	<b>607.6</b>	<b>613.1</b>	<b>686.1</b>	<b>854.8</b>	<b>1 033.0</b>
58-60 Publishing, audiovisual and broadcasting activities	16.0	18.3	18.1	21.5	21.5	22.4	25.0	63.5
58 Publishing activities	16.0	18.0	17.6	21.0	21.0	21.9	24.5	63.0
59-60 Motion picture, video and TV programme production; broadcasting activities	0.1	0.3	0.5	0.5	0.4	0.5	0.5	0.5
59 Motion picture, video and TV programme production; sound and music	0.1	0.3	0.4	0.5	0.4	0.4	0.4	0.4
60 Programming and broadcasting activities	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0
61 Telecommunications	41.1	45.7	46.3	47.5	48.9	54.5	58.7	64.6
62-63 IT and other information services	314.4	357.2	393.9	538.7	542.7	609.1	771.1	904.9
62 Computer programming, consultancy and related activities	229.7	267.5	287.9	414.3	459.2	534.5	670.0	816.1
63 Information service activities	84.7	89.6	106.0	124.4	83.5	74.6	101.1	88.8
<b>64-66 Financial and insurance activities</b>	<b>35.2</b>	<b>45.8</b>	<b>60.2</b>	<b>58.2</b>	<b>50.5</b>	<b>71.2</b>	<b>87.7</b>	<b>89.5</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>684.4</b>	<b>804.0</b>	<b>827.3</b>	<b>947.5</b>	<b>908.6</b>	<b>877.3</b>	<b>996.2</b>	<b>996.3</b>
68 Real estate activities	9.4	23.4	37.5	15.5	2.9	2.7	1.8	3.5
69-75x72 Professional, scientific and technical activities, except scientific R&D	176.3	174.5	152.9	170.9	202.6	214.9	254.6	290.6
72 Scientific research and development	497.2	601.1	629.1	753.4	697.3	656.2	724.5	679.2
77-82 Administrative and support service activities	1.4	4.9	7.8	7.7	5.9	3.5	15.2	23.0
84-99 Community, social and personal services	8.1	11.0	29.9	22.1	27.6	26.1	18.3	21.8
84-85 Public administration and defence; compulsory social security and education	1.0	2.0	12.1	9.8	10.4	4.2	8.6	12.2
86-88 Human health and social work activities	3.2	5.2	10.9	6.0	5.0	5.2	4.9	3.2
90-93 Arts, entertainment and recreation	0.9	0.7	0.9	0.7	0.7	0.9	1.2	0.5
94-99 Other services; household-employers; extraterritorial bodies	3.1	3.2	5.8	5.6	11.4	15.8	3.6	5.9

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

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

ISIC Rev. 4

2010 USD PPP

	2011	2012	2013	2014	2015	2016	2017	2018
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>2 816.8</b>	<b>3 108.0</b>	<b>3 327.4</b>	<b>3 674.5</b>	<b>3 722.4</b>	<b>3 739.5</b>	<b>4 275.6</b>	<b>4 671.3</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>9.4</b>	<b>10.8</b>	<b>11.7</b>	<b>11.7</b>	<b>13.8</b>	<b>14.7</b>	<b>14.1</b>	<b>13.2</b>
<b>05-09 MINING AND QUARRYING</b>	<b>1.6</b>	<b>1.7</b>	<b>1.2</b>	<b>2.4</b>	<b>2.7</b>	<b>3.9</b>	<b>3.9</b>	<b>3.0</b>
<b>10-33 MANUFACTURING</b>	<b>1 476.9</b>	<b>1 587.5</b>	<b>1 768.6</b>	<b>1 897.8</b>	<b>1 954.2</b>	<b>2 000.5</b>	<b>2 296.9</b>	<b>2 550.2</b>
10-12 Food products, beverages and tobacco	27.1	24.6	25.6	17.9	19.5	18.3	22.6	18.0
13-15 Textiles, wearing apparel, leather and related products	36.2	17.0	25.3	26.8	26.1	24.3	22.8	23.9
13 Textiles	18.5	14.0	22.5	24.5	23.8	22.1	20.1	21.1
14 Wearing apparel	16.2	1.8	1.3	0.8	1.0	1.1	1.4	1.5
15 Leather and related products, footwear	1.5	1.2	1.5	1.5	1.3	1.2	1.3	1.3
16-18 Wood and paper products and printing	6.7	3.4	2.8	4.0	9.6	6.6	9.6	6.8
16 Wood and wood products, except furniture	3.4	0.4	0.9	1.6	4.5	3.6	3.6	2.7
17 Paper and paper products	2.6	2.2	1.0	1.1	4.3	2.0	3.9	2.3
18 Printing and reproduction of recorded media	0.6	0.8	0.9	1.3	0.9	1.0	2.0	1.8
19-23 Chemical, rubber, plastic, non-metallic mineral products	263.6	262.7	288.0	302.2	317.2	278.7	283.6	304.5
19 Coke and refined petroleum products	0.9	0.5	0.5	0.6	0.9	0.7	0.7	0.8
20-21 Chemical and pharmaceutical products	172.2	168.6	169.2	176.6	177.1	156.0	166.6	185.2
20 Chemicals and chemical products	83.4	77.8	90.4	92.5	90.2	69.1	82.9	84.1
21 Pharmaceuticals, medicinal, chemical and botanical products	88.8	90.7	78.8	84.0	86.9	86.9	83.8	101.1
22 Rubber and plastic products	57.3	55.6	68.2	83.0	93.1	80.3	72.0	70.5
23 Other non-metallic mineral products	33.3	38.0	50.1	42.0	46.2	41.8	44.2	48.0
24-25 Basic metals, metal products, except machinery and equipment	87.9	99.9	88.7	112.6	118.2	92.5	115.4	127.1
24 Basic metals	24.3	25.6	18.2	23.3	24.9	12.2	15.2	13.8
25 Fabricated metal products, except machinery and equipment	63.6	74.4	70.5	89.3	93.3	80.3	100.2	113.3
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	963.0	1 086.4	1 275.0	1 364.8	1 374.1	1 497.7	1 753.7	1 968.0
26 Computer, electronic and optical products	94.8	100.2	122.0	146.5	152.7	178.2	193.3	214.7
27 Electrical equipment	133.6	166.6	150.9	237.5	259.1	290.0	312.1	325.6
28 Machinery and equipment n.e.c.	241.9	312.6	343.6	328.0	301.0	302.0	319.4	340.3
29 Motor vehicles, trailers and semi-trailers	328.4	373.4	521.0	508.3	548.9	596.8	780.7	927.4
30 Other transport equipment	164.3	133.6	137.5	144.5	112.4	130.6	148.2	159.9
31-33 Furniture; repair, installation of machinery and equipment	92.4	93.4	63.2	69.5	89.5	82.3	89.1	101.9
31 Furniture	6.0	4.3	3.8	3.0	3.3	2.3	3.5	4.6
32 Other manufacturing	29.5	36.7	27.7	27.9	31.1	42.5	42.7	38.2
33 Repair and installation of machinery and equipment	56.9	52.4	31.8	38.6	55.1	37.5	42.9	59.1
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>11.6</b>	<b>11.3</b>	<b>15.2</b>	<b>12.9</b>	<b>18.2</b>	<b>10.7</b>	<b>11.8</b>	<b>11.9</b>
35-36 Electricity, gas and water	3.4	4.0	7.8	5.1	4.4	4.1	4.2	3.8
37-39 Sewerage, waste management and remediation activities	8.2	7.3	7.4	7.9	13.8	6.6	7.6	8.1
<b>41-43 CONSTRUCTION</b>	<b>29.9</b>	<b>34.2</b>	<b>42.3</b>	<b>52.7</b>	<b>47.8</b>	<b>40.3</b>	<b>44.8</b>	<b>49.3</b>
<b>45-99 TOTAL SERVICES</b>	<b>1 287.4</b>	<b>1 462.5</b>	<b>1 488.4</b>	<b>1 697.1</b>	<b>1 685.7</b>	<b>1 669.3</b>	<b>1 904.1</b>	<b>2 043.6</b>
<b>45-82 Business sector services</b>	<b>1 278.4</b>	<b>1 450.5</b>	<b>1 457.8</b>	<b>1 675.1</b>	<b>1 658.1</b>	<b>1 644.3</b>	<b>1 887.1</b>	<b>2 023.7</b>
45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs	76.8	74.7	76.8	70.3	84.3	73.1	79.7	94.3
49-53 Transportation and storage	0.5	1.6	1.8	1.8	1.5	1.4	1.3	1.2
55-56 Accommodation and food service activities	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
58-63 Information and communication	409.0	455.3	469.6	603.7	613.1	658.8	796.3	940.0
58-60 Publishing, audiovisual and broadcasting activities	17.6	19.8	18.5	21.4	21.5	21.5	23.2	57.8
58 Publishing activities	17.6	19.5	18.1	20.9	21.0	21.0	22.8	57.3
59-60 Motion picture, video and TV programme production; broadcasting activities	0.1	0.4	0.5	0.5	0.4	0.5	0.5	0.4
59 Motion picture, video and TV programme production; sound and music	0.1	0.4	0.4	0.5	0.4	0.4	0.4	0.4
60 Programming and broadcasting activities	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0
61 Telecommunications	45.3	49.4	47.5	47.2	48.9	52.3	54.7	58.8
62-63 IT and other information services	346.1	386.1	403.7	535.2	542.7	584.9	718.3	823.4
62 Computer programming, consultancy and related activities	252.8	289.3	295.1	411.6	459.2	513.3	624.1	742.6
63 Information service activities	93.3	96.9	108.6	123.6	83.5	71.6	94.2	80.8
<b>64-66 Financial and insurance activities</b>	<b>38.8</b>	<b>49.5</b>	<b>61.7</b>	<b>57.8</b>	<b>50.5</b>	<b>68.4</b>	<b>81.7</b>	<b>81.5</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>753.4</b>	<b>869.3</b>	<b>847.8</b>	<b>941.4</b>	<b>908.6</b>	<b>842.5</b>	<b>928.0</b>	<b>906.6</b>
68 Real estate activities	10.3	25.3	38.4	15.4	2.9	2.6	1.7	3.1
69-75x72 Professional, scientific and technical activities, except scientific R&D	194.1	188.7	156.7	169.8	202.6	206.3	237.2	264.4
72 Scientific research and development	547.4	649.9	644.7	748.6	697.3	630.1	674.9	618.1
77-82 Administrative and support service activities	1.6	5.3	8.0	7.6	5.9	3.4	14.2	20.9
84-99 Community, social and personal services	9.0	11.9	30.6	22.0	27.6	25.1	17.0	19.9
84-85 Public administration and defence; compulsory social security and education	1.1	2.1	12.4	9.7	10.4	4.0	8.0	11.1
86-88 Human health and social work activities	3.5	5.6	11.2	6.0	5.0	5.0	4.6	2.9
90-93 Arts, entertainment and recreation	1.0	0.8	1.0	0.7	0.7	0.9	1.1	0.5
94-99 Other services; household-employers; extraterritorial bodies	3.4	3.5	6.0	5.5	11.4	15.2	3.3	5.4

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

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<b>TOTAL BUSINESS ENTERPRISE</b>	<b>2 558.8</b>	<b>2 874.8</b>	<b>3 246.9</b>	<b>3 698.3</b>	<b>3 722.4</b>	<b>3 894.2</b>	<b>4 589.8</b>	<b>5 133.6</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>15.6 e</b>	<b>15.7 e</b>	<b>20.1</b>	<b>22.9</b>	<b>23.8</b>	<b>25.4</b>	<b>33.1</b>	<b>37.5</b>
<b>05-09 MINING AND QUARRYING</b>	<b>4.6 e</b>	<b>1.8 e</b>	<b>2.1</b>	<b>3.2</b>	<b>3.0</b>	<b>5.3</b>	<b>3.8</b>	<b>3.9</b>
<b>10-33 MANUFACTURING</b>	<b>1 616.0 e</b>	<b>1 711.7 e</b>	<b>2 033.3</b>	<b>2 352.1</b>	<b>2 393.2</b>	<b>2 503.4</b>	<b>2 915.0</b>	<b>3 247.2</b>
10-12 Food products, beverages and tobacco	21.0 e	27.0 e	23.3	19.4	21.7	18.5	27.8	23.3
13-15 Textiles, wearing apparel, leather and related products	26.7 e	17.7 e	28.2	36.0	30.1	26.6	28.5	27.7
13 Textiles	23.5 e	15.2 e	25.1	30.8	27.2	24.1	26.1	25.5
14 Wearing apparel	2.3 e	1.5 e	2.5	2.3	1.9	1.8	1.3	1.2
15 Leather and related products, footwear	0.9 e	1.0 e	0.6	2.9	1.1	0.7	1.1	1.0
16-18 Wood and paper products and printing	7.6 e	5.2 e	3.5	4.0	5.7	2.7	5.3	9.2
16 Wood and wood products, except furniture	4.5 e	2.6 e	1.4	2.2	2.8	1.1	1.9	4.3
17 Paper and paper products	2.3 e	2.4 e	1.1	1.1	1.8	1.1	2.3	4.0
18 Printing and reproduction of recorded media	0.8 e	0.2 e	1.0	0.7	1.1	0.5	1.1	0.9
19-23 Chemical, rubber, plastic, non-metallic mineral products	268.7 e	239.5 e	271.6	296.4	328.1	310.3	322.7	342.1
19 Coke and refined petroleum products	1.2 e	1.7 e	1.8	4.4	3.9	1.6	1.5	2.0
20-21 Chemical and pharmaceutical products	189.1 e	144.1 e	160.1	176.7	204.1	193.7	201.4	220.8
20 Chemicals and chemical products	59.3 e	52.0 e	55.8	53.6	59.3	58.6	64.7	50.4
21 Pharmaceuticals, medicinal, chemical and botanical products	129.8 e	92.1 e	104.3	123.0	144.8	135.1	136.7	170.4
22 Rubber and plastic products	48.1 e	55.6 e	63.9	74.4	81.2	76.7	80.4	80.1
23 Other non-metallic mineral products	30.3 e	38.1 e	45.7	40.8	38.9	38.2	39.4	39.3
24-25 Basic metals, metal products, except machinery and equipment	108.5 e	124.0 e	123.8	148.7	166.2	126.5	153.5	174.3
24 Basic metals	15.6 e	14.8 e	12.8	12.7	11.2	9.6	17.5	11.8
25 Fabricated metal products, except machinery and equipment	92.9 e	109.3 e	111.0	136.0	155.0	116.9	136.0	162.5
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	1 080.6 e	1 236.4 e	1 494.1	1 745.9	1 753.4	1 935.1	2 267.3	2 585.9
26 Computer, electronic and optical products	183.9 e	235.0 e	264.3	309.1	301.1	363.8	344.7	436.2
27 Electrical equipment	126.5 e	206.2 e	124.6	155.6	155.8	156.0	184.6	197.0
28 Machinery and equipment n.e.c.	293.8 e	250.5 e	357.8	390.5	379.8	378.9	387.8	393.2
29 Motor vehicles, trailers and semi-trailers	266.2 e	361.5 e	556.3	671.9	728.6	826.6	1 081.8	1 274.4
30 Other transport equipment	210.2 e	183.2 e	190.9	218.7	188.0	209.8	268.3	285.1
31-33 Furniture; repair, installation of machinery and equipment	102.9 e	61.8 e	88.9	101.6	87.9	83.7	109.9	84.7
31 Furniture	1.7 e	4.4 e	5.0	10.5	3.4	2.4	2.6	5.5
32 Other manufacturing	35.4 e	29.1 e	39.9	36.8	32.7	39.9	46.0	45.2
33 Repair and installation of machinery and equipment	65.8 e	28.3 e	44.0	54.4	51.8	41.4	61.3	34.0
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>21.3 e</b>	<b>22.9 e</b>	<b>29.8</b>	<b>28.2</b>	<b>30.3</b>	<b>23.8</b>	<b>22.9</b>	<b>31.4</b>
35-36 Electricity, gas and water	10.7 e	9.8 e	10.5	10.6	10.7	13.6	9.1	9.0
37-39 Sewerage, waste management and remediation activities	10.7 e	13.1 e	19.3	17.6	19.6	10.2	13.7	22.4
<b>41-43 CONSTRUCTION</b>	<b>25.9 e</b>	<b>28.0 e</b>	<b>35.1</b>	<b>40.4</b>	<b>39.5</b>	<b>33.9</b>	<b>39.9</b>	<b>44.7</b>
<b>45-99 TOTAL SERVICES</b>	<b>875.3 e</b>	<b>1 094.6 e</b>	<b>1 126.6</b>	<b>1 251.6</b>	<b>1 232.7</b>	<b>1 302.5</b>	<b>1 575.1</b>	<b>1 768.8</b>
<b>45-82 Business sector services</b>	<b>839.3 e</b>	<b>1 061.3 e</b>	<b>1 087.7</b>	<b>1 219.6</b>	<b>1 193.4</b>	<b>1 283.2</b>	<b>1 553.4</b>	<b>1 746.2</b>
45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs	21.3 e	1.9 e	0.0	0.2	3.5	3.9	6.0	0.6
49-53 Transportation and storage	2.1 e	2.7 e	4.6	4.4	4.2	3.1	4.8	2.6
55-56 Accommodation and food service activities	0.1 e	1.2 e	0.0	0.0	0.1	0.2	0.2	0.0
58-63 Information and communication	385.0 e	442.2 e	478.9	642.4	651.0	722.3	903.0	1 084.7
58-60 Publishing, audiovisual and broadcasting activities	2.0 e	16.9 e	0.0	2.4	0.6	0.5	1.0	2.3
58 Publishing activities	..	..	..	..	0.1	..	0.5	0.1
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	..	0.5	..	0.4	2.2
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	0.4	2.0
60 Programming and broadcasting activities	..	..	..	..	..	..	0.1	0.2
61 Telecommunications	47.3 e	51.8 e	60.4	70.4	65.3	73.5	72.6	72.0
62-63 IT and other information services	335.6 e	373.5 e	418.5	569.6	585.1	648.3	829.5	1 010.3
62 Computer programming, consultancy and related activities	248.6 e	264.9 e	285.6	427.3	498.6	584.8	730.4	914.7
63 Information service activities	87.1 e	108.6 e	132.9	142.3	86.5	63.5	99.1	95.6
<b>64-66 Financial and insurance activities</b>	<b>34.1 e</b>	<b>36.9 e</b>	<b>48.3</b>	<b>46.7</b>	<b>24.5</b>	<b>52.2</b>	<b>59.3</b>	<b>57.2</b>
68-82 Real estate; professional, scientific and technical; administrative and support	396.7 e	576.4 e	555.8	526.0	510.1	501.4	580.0	601.1
68 Real estate activities	4.4 e	0.2 e	0.0	0.0	0.0	0.0	0.0	0.0
69-75x72 Professional, scientific and technical activities, except scientific R&D	105.0 e	28.2 e	32.1	36.2	49.3	36.8	41.3	47.0
72 Scientific research and development	286.6 e	547.7 e	523.0	489.3	460.8	464.6	538.4	553.7
77-82 Administrative and support service activities	0.7 e	0.4 e	0.6	0.5	0.0	0.1	0.3	0.4
84-99 Community, social and personal services	36.0 e	33.3 e	39.0	32.0	39.3	19.3	21.7	22.6
84-85 Public administration and defence; compulsory social security and education	10.4 e	11.0 e	15.5	10.2	12.3	6.9	9.3	9.1
86-88 Human health and social work activities	20.2 e	20.1 e	18.2	17.9	21.7	5.9	7.3	6.2
90-93 Arts, entertainment and recreation	3.8 e	0.2 e	0.1	0.1	0.0	0.0	0.0	1.1
94-99 Other services; household-employers; extraterritorial bodies	1.6 e	1.9 e	5.2	3.8	5.3	6.5	5.0	6.3

.. Not available; e Estimated value

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

# CZECH REPUBLIC

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

ISIC Rev. 4

2010 USD PPP

	2011	2012	2013	2014	2015	2016	2017	2018
<b>TOTAL BUSINESS ENTERPRISE</b>	<b>2 816.8</b>	<b>3 108.0</b>	<b>3 327.4</b>	<b>3 674.5</b>	<b>3 722.4</b>	<b>3 739.5</b>	<b>4 275.6</b>	<b>4 671.3</b>
<b>01-03 AGRICULTURE, FORESTRY AND FISHING</b>	<b>17.2 e</b>	<b>17.0 e</b>	<b>20.6</b>	<b>22.7</b>	<b>23.8</b>	<b>24.4</b>	<b>30.9</b>	<b>34.1</b>
<b>05-09 MINING AND QUARRYING</b>	<b>5.1 e</b>	<b>2.0 e</b>	<b>2.2</b>	<b>3.2</b>	<b>3.0</b>	<b>5.1</b>	<b>3.5</b>	<b>3.6</b>
<b>10-33 MANUFACTURING</b>	<b>1 778.9 e</b>	<b>1 850.5 e</b>	<b>2 083.7</b>	<b>2 336.9</b>	<b>2 393.2</b>	<b>2 403.9</b>	<b>2 715.5</b>	<b>2 954.8</b>
10-12 Food products, beverages and tobacco	23.1 e	29.2 e	23.9	19.3	21.7	17.7	25.9	21.2
13-15 Textiles, wearing apparel, leather and related products	29.4 e	19.2 e	28.9	35.8	30.1	25.5	26.6	25.2
13 Textiles	25.8 e	16.5 e	25.7	30.6	27.2	23.2	24.3	23.2
14 Wearing apparel	2.6 e	1.6 e	2.6	2.2	1.9	1.7	1.2	1.1
15 Leather and related products, footwear	1.0 e	1.1 e	0.6	2.9	1.1	0.7	1.0	0.9
16-18 Wood and paper products and printing	8.4 e	5.6 e	3.6	4.0	5.7	2.6	4.9	8.4
16 Wood and wood products, except furniture	5.0 e	2.8 e	1.4	2.2	2.8	1.1	1.8	3.9
17 Paper and paper products	2.5 e	2.6 e	1.2	1.1	1.8	1.0	2.1	3.6
18 Printing and reproduction of recorded media	0.9 e	0.2 e	1.0	0.7	1.1	0.5	1.0	0.8
19-23 Chemical, rubber, plastic, non-metallic mineral products	295.8 e	259.0 e	278.3	294.5	328.1	298.0	300.6	311.3
19 Coke and refined petroleum products	1.3 e	1.9 e	1.9	4.4	3.9	1.5	1.4	1.8
20-21 Chemical and pharmaceutical products	208.2 e	155.8 e	164.1	175.5	204.1	186.0	187.6	200.9
20 Chemicals and chemical products	65.3 e	56.2 e	57.1	53.3	59.3	56.3	60.2	45.8
21 Pharmaceuticals, medicinal, chemical and botanical products	142.9 e	99.6 e	106.9	122.3	144.8	129.7	127.4	155.0
22 Rubber and plastic products	53.0 e	60.1 e	65.5	73.9	81.2	73.7	74.9	72.9
23 Other non-metallic mineral products	33.3 e	41.2 e	46.9	40.6	38.9	36.7	36.7	35.7
24-25 Basic metals, metal products, except machinery and equipment	119.4 e	134.1 e	126.8	147.8	166.2	121.5	143.0	158.6
24 Basic metals	17.1 e	16.0 e	13.1	12.6	11.2	9.2	16.3	10.7
25 Fabricated metal products, except machinery and equipment	102.3 e	118.1 e	113.7	135.2	155.0	112.2	126.7	147.9
26-30 Computer, electronic, optical products; electrical machinery, transport equipment	1 189.5 e	1 336.6 e	1 531.1	1 734.7	1 753.4	1 858.2	2 112.1	2 353.1
26 Computer, electronic and optical products	202.5 e	254.1 e	270.9	307.1	301.1	349.3	321.1	396.9
27 Electrical equipment	139.3 e	222.9 e	127.7	154.6	155.8	149.8	172.0	179.3
28 Machinery and equipment n.e.c.	323.4 e	270.8 e	366.7	388.0	379.8	363.9	361.3	357.8
29 Motor vehicles, trailers and semi-trailers	293.0 e	390.8 e	570.1	667.6	728.6	793.7	1 007.8	1 159.6
30 Other transport equipment	231.4 e	198.0 e	195.7	217.3	188.0	201.5	250.0	259.5
31-33 Furniture; repair, installation of machinery and equipment	113.3 e	66.8 e	91.1	101.0	87.9	80.4	102.4	77.1
31 Furniture	1.9 e	4.7 e	5.1	10.4	3.4	2.3	2.4	5.0
32 Other manufacturing	39.0 e	31.5 e	40.9	36.5	32.7	38.3	42.8	41.1
33 Repair and installation of machinery and equipment	72.4 e	30.6 e	45.1	54.0	51.8	39.8	57.1	31.0
<b>35-39 ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT</b>	<b>23.5 e</b>	<b>24.8 e</b>	<b>30.5</b>	<b>28.0</b>	<b>30.3</b>	<b>22.9</b>	<b>21.3</b>	<b>28.6</b>
35-36 Electricity, gas and water	11.7 e	10.6 e	10.7	10.5	10.7	13.1	8.5	8.2
37-39 Sewerage, waste management and remediation activities	11.7 e	14.2 e	19.8	17.5	19.6	9.8	12.8	20.4
<b>41-43 CONSTRUCTION</b>	<b>28.6 e</b>	<b>30.3 e</b>	<b>35.9</b>	<b>40.1</b>	<b>39.5</b>	<b>32.5</b>	<b>37.1</b>	<b>40.7</b>
<b>45-99 TOTAL SERVICES</b>	<b>963.6 e</b>	<b>1 183.4 e</b>	<b>1 154.5</b>	<b>1 243.6</b>	<b>1 232.7</b>	<b>1 250.7</b>	<b>1 467.3</b>	<b>1 609.5</b>
<b>45-82 Business sector services</b>	<b>923.9 e</b>	<b>1 147.4 e</b>	<b>1 114.6</b>	<b>1 211.8</b>	<b>1 193.4</b>	<b>1 232.2</b>	<b>1 447.1</b>	<b>1 589.0</b>
45-47 Wholesale and retail trade; motor vehicle and motorcycle repairs	23.5 e	2.0 e	0.0	0.2	3.5	3.8	5.6	0.6
49-53 Transportation and storage	2.3 e	2.9 e	4.7	4.4	4.2	3.0	4.5	2.4
55-56 Accommodation and food service activities	0.1 e	1.3 e	0.0	0.0	0.1	0.2	0.2	0.0
58-63 Information and communication	423.8 e	478.1 e	490.8	638.2	651.0	693.6	841.2	987.0
58-60 Publishing, audiovisual and broadcasting activities	2.2 e	18.3 e	0.0	2.3	0.6	0.5	0.9	2.1
58 Publishing activities	..	..	..	..	0.1	..	0.5	0.1
59-60 Motion picture, video and TV programme production; broadcasting activities	..	..	..	..	0.5	..	0.4	2.0
59 Motion picture, video and TV programme production; sound and music	..	..	..	..	..	..	0.3	1.8
60 Programming and broadcasting activities	..	..	..	..	..	..	0.1	0.2
61 Telecommunications	52.1 e	56.0 e	61.9	69.9	65.3	70.6	67.6	65.5
62-63 IT and other information services	369.5 e	403.8 e	428.9	565.9	585.1	622.5	772.7	919.4
62 Computer programming, consultancy and related activities	273.6 e	286.4 e	292.7	424.6	498.6	561.6	680.4	832.3
63 Information service activities	95.8 e	117.4 e	136.2	141.3	86.5	61.0	92.3	87.0
<b>64-66 Financial and insurance activities</b>	<b>37.6 e</b>	<b>39.9 e</b>	<b>49.5</b>	<b>46.4</b>	<b>24.5</b>	<b>50.1</b>	<b>55.2</b>	<b>52.1</b>
<b>68-82 Real estate; professional, scientific and technical; administrative and support</b>	<b>436.7 e</b>	<b>623.2 e</b>	<b>569.6</b>	<b>522.6</b>	<b>510.1</b>	<b>481.5</b>	<b>540.3</b>	<b>547.0</b>
68 Real estate activities	4.8 e	0.2 e	0.0	0.0	0.0	0.0	0.0	0.0
69-75x72 Professional, scientific and technical activities, except scientific R&D	115.6 e	30.5 e	32.9	36.0	49.3	35.3	38.5	42.8
72 Scientific research and development	315.5 e	592.1 e	536.0	486.1	460.8	446.1	501.6	503.8
77-82 Administrative and support service activities	0.8 e	0.4 e	0.7	0.5	0.0	0.1	0.3	0.3
84-99 Community, social and personal services	39.7 e	36.0 e	39.9	31.8	39.3	18.5	20.2	20.6
84-85 Public administration and defence; compulsory social security and education	11.4 e	11.9 e	15.9	10.2	12.3	6.6	8.7	8.3
86-88 Human health and social work activities	22.3 e	21.8 e	18.6	17.8	21.7	5.7	6.8	5.6
90-93 Arts, entertainment and recreation	4.2 e	0.2 e	0.1	0.1	0.0	0.0	0.0	1.0
94-99 Other services; household-employers; extraterritorial bodies	1.7 e	2.1 e	5.3	3.7	5.3	6.2	4.7	5.7

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