FINLAND

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

2010 USD PPP

		2009	2010	2011	2012	2013	2014	2015	2016
	TOTAL BUSINESS ENTERPRISE	5 406.6	5 395.8	5 469.0	4 941.2	4 723.2	4 449.9	4 009.3	3 834.8
1-03	AGRICULTURE, FORESTRY AND FISHING	1.2	3.9	5.4	1.9	3.0	1.5	1.6	1.7
5-09	MINING AND QUARRYING	16.5	9.1	9.0	10.4	8.7	6.4	6.7	9.1
0-33	MANUFACTURING	4 327.9	4 298.5	4 202.0	3 564.8	3 369.2	3 155.0	2 690.6	2 464.0
0-12	Food products, beverages and tobacco	63.7	71.7	69.6	62.7	70.3	71.5	59.9	47.7
3-15	Textiles, wearing apparel, leather and related products	19.1	9.6	7.4	5.2	6.5	8.9	11.0	7.5
3	Textiles		1.5 e	1.0 e	0.8 e	1.6 e	0.6 e	4.0	4.7
4	Wearing apparel		8.0 e	6.3 e	4.3 e	4.8 e	8.2 e	6.8	2.7 e
5	Leather and related products, footwear		0.1 e	0.1 e	0.1 e	0.1 e	0.0 e	0.1	0.0 e
6-18	Wood and paper products and printing	107.1	129.7	98.3	104.4	97.6	91.3	102.8	99.1
6	Wood and wood products, except furniture	11.4	12.0	10.4	8.1	7.8	8.1	5.1	8.3
7	Paper and paper products	87.5	112.8	82.3	90.1	83.6	77.8	89.5	83.9
8	Printing and reproduction of recorded media	8.2	4.9	5.7	6.1	6.2	5.4	8.3	7.0
9-23	Chemical, rubber, plastic, non-metallic mineral products	358.5 e	367.8	379.6 e	368.1 e	358.1 e	332.8 e	348.4 e	369.9 e
9	Coke and refined petroleum products	41.6 e	45.6	44.4 e	40.1 e	38.5 e	26.3 e	34.7 e	36.9 e
0-21	Chemical and pharmaceutical products	250.6	252.9	266.2	255.5	254.4	242.0	248.9	266.2
	· · ·	128.7	135.8	139.6	111.9	131.4	106.1	120.2	125.1
20	Chemicals and chemical products								
!1 !2	Pharmaceuticals, medicinal, chemical and botanical products	121.9	117.0	126.6	143.6	123.0	135.9	128.8	141.0
	Rubber and plastic products	39.2	36.0	36.2	36.9	37.2	34.8	36.9	37.9
3	Other non-metallic mineral products	27.0	33.4	32.8	35.6	28.1	29.7	27.8	28.9
4-25	Basic metals, metal products, except machinery and equipment	115.4	116.1	105.4	94.6	86.9	75.2	73.1	70.6
4	Basic metals	63.8	66.9	54.9	49.6	41.6	32.6	37.0	36.0
5	Fabricated metal products, except machinery and equipment	51.7	49.2	50.5	44.9	45.4	42.6	36.1	34.6
6-30	Computer, electronic, optical products; electrical machinery, transport equipment	3 629.4	3 569.1	3 507.0	2 890.7	2 719.1	2 548.2	2 068.7	1 838.5
6	Computer, electronic and optical products	2 939.6	2 872.9	2 719.3	2 005.5	1 827.4	1 754.5	1 354.8	1 141.2
7	Electrical equipment	236.5	258.5	281.6	304.4	308.2	306.2	232.6	219.5
8	Machinery and equipment n.e.c.	388.9	385.2	432.2	496.0	517.6	446.6	423.6	407.8
9	Motor vehicles, trailers and semi-trailers	25.7	21.5	22.3	22.2	25.9	25.9	39.5	39.8
0	Other transport equipment	38.7	31.0	51.5	62.6	40.0	15.0	18.2	30.3
1-33	Furniture; repair, installation of machinery and equipment	34.7 e	34.4	34.8 e	39.1 e	30.6 e	27.1 e	26.6 e	30.8 e
1	Furniture	7.2	6.4	8.3	9.3	7.0	6.3	4.8	3.6
2	Other manufacturing	16.7	16.2	15.0	19.4	13.6	14.0	12.9	17.6
3	Repair and installation of machinery and equipment	10.8 e	11.8	11.5 e	10.4 e	10.0 e	6.8 e	9.0 e	9.6 e
5-39	ELECTRICITY, GAS, WATER AND WASTE MANAGEMENT	43.3	45.6	55.9	59.7	49.7	37.1	39.9	63.8
5-36	Electricity, gas and water	15.8	23.5	25.3	32.2	25.8	19.3	21.3	44.5
37-39	Sewerage, waste management and remediation activities	27.5	22.1	30.6	27.4	23.9	18.0	18.6	19.3
1-43	CONSTRUCTION	48.8	64.3	53.8	54.0	46.8	80.4	99.9	100.1
5-99	TOTAL SERVICES	969.0	974.4	1 142.9	1 250.4	1 245.9	1 169.4	1 170.6	1 196.2
5-82	Business sector services	956.7	954.2	1 122.5	1 222.5	1 222.4	1 142.9	1 143.0	1 164.8
15-47	Wholesale and retail trade; motor vehicle and motorcycle repairs	82.0	80.2	98.9	123.4	86.8	72.7	86.4	87.9
9-53	Transportation and storage	20.0	11.7	16.9	18.7	16.0	14.7	16.7	14.9
i5-56	Accommodation and food service activities		0.7	0.7	1.0	0.4 e	0.1 e	0.1 e	0.0 e
0-00						0.4 6	0.16	0.16	
						EE0 0	E1E 0	E 4 9 4	
8-63	Information and communication	417.9	460.3	487.0	491.8	559.9	515.8	543.4	568.9
8-63 8-60	Information and communication Publishing, audiovisual and broadcasting activities	417.9 11.5	460.3 57.8	487.0 62.7	491.8 61.2	69.9	82.5	84.6	568.9 59.3
8-63 8-60 8	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities	417.9 11.5 9.3	460.3 57.8 55.6	487.0 62.7 59.6	491.8 61.2 59.5	69.9 68.9	82.5 79.3	84.6 81.8	568.9 59.3 57.0
8-63 8-60 8 9-60	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities Motion picture, video and TV programme production; broadcasting activities	417.9 11.5	460.3 57.8 55.6 2.2	487.0 62.7	491.8 61.2	69.9	82.5	84.6	568.9 59.3
8-63 8-60 8 9-60 9	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities Motion picture, video and TV programme production; broadcasting activities Motion picture, video and TV programme production; sound and music	417.9 11.5 9.3	460.3 57.8 55.6 2.2 2.1	487.0 62.7 59.6	491.8 61.2 59.5	69.9 68.9	82.5 79.3	84.6 81.8	568.9 59.3 57.0
8-63 8-60 8 9-60 9 0	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities Motion picture, video and TV programme production; broadcasting activities	417.9 11.5 9.3 2.2 	460.3 57.8 55.6 2.2 2.1 0.1	487.0 62.7 59.6	491.8 61.2 59.5 1.7 	69.9 68.9	82.5 79.3 3.2 	84.6 81.8 2.9 	568.9 59.3 57.0 2.2
8-63 8-60 8 9-60 9 0 1	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities Motion picture, video and TV programme production; broadcasting activities Motion picture, video and TV programme production; sound and music	417.9 11.5 9.3 2.2 50.5	460.3 57.8 55.6 2.2 2.1 0.1 48.7	487.0 62.7 59.6 3.0 41.1	491.8 61.2 59.5 1.7 26.2	69.9 68.9 1.0 36.0	82.5 79.3 3.2 36.6	84.6 81.8 2.9 31.4	568.9 59.3 57.0 2.2 30.3
8-63 8-60 8 9-60 9 0 1	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities Motion picture, video and TV programme production; broadcasting activities Motion picture, video and TV programme production; sound and music Programming and broadcasting activities	417.9 11.5 9.3 2.2 	460.3 57.8 55.6 2.2 2.1 0.1	487.0 62.7 59.6 3.0 	491.8 61.2 59.5 1.7 	69.9 68.9 1.0 	82.5 79.3 3.2 	84.6 81.8 2.9 	568.9 59.3 57.0 2.2
8-63 8-60 8 9-60 9 0 1 2-63	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities Motion picture, video and TV programme production; broadcasting activities Motion picture, video and TV programme production; sound and music Programming and broadcasting activities Telecommunications	417.9 11.5 9.3 2.2 50.5	460.3 57.8 55.6 2.2 2.1 0.1 48.7	487.0 62.7 59.6 3.0 41.1	491.8 61.2 59.5 1.7 26.2	69.9 68.9 1.0 36.0	82.5 79.3 3.2 36.6	84.6 81.8 2.9 31.4	568.9 59.3 57.0 2.2 30.3
8-63 8-60 8 9-60 9 0 1 2-63 2	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities Motion picture, video and TV programme production; broadcasting activities Motion picture, video and TV programme production; sound and music Programming and broadcasting activities Telecommunications IT and other information services	417.9 11.5 9.3 2.2 50.5 355.9	460.3 57.8 55.6 2.2 2.1 0.1 48.7 353.8	487.0 62.7 59.6 3.0 41.1 383.2	491.8 61.2 59.5 1.7 26.2 404.4	69.9 68.9 1.0 36.0 454.0	82.5 79.3 3.2 36.6 396.7	84.6 81.8 2.9 31.4 427.3	568.9 59.3 57.0 2.2 30.3 479.3
8-63 8-60 8 9-60 9 0 1 2-63 2 3	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities Motion picture, video and TV programme production; broadcasting activities Motion picture, video and TV programme production; sound and music Programming and broadcasting activities Telecommunications IT and other information services Computer programming, consultancy and related activities	417.9 11.5 9.3 2.2 50.5 355.9 341.7	460.3 57.8 55.6 2.2 2.1 0.1 48.7 353.8 337.1	487.0 62.7 59.6 3.0 41.1 383.2 373.0	491.8 61.2 59.5 1.7 26.2 404.4 398.6	69.9 68.9 1.0 36.0 454.0 439.8	82.5 79.3 3.2 36.6 396.7 375.3	84.6 81.8 2.9 31.4 427.3 409.4	568.9 59.3 57.0 2.2 30.3 479.3 459.5
8-63 8-60 9-60 9 0 1 2-63 2 3 4-66	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities Motion picture, video and TV programme production; broadcasting activities Motion picture, video and TV programme production; sound and music Programming and broadcasting activities Telecommunications IT and other information services Computer programming, consultancy and related activities Information service activities	417.9 11.5 9.3 2.2 50.5 355.9 341.7 14.2	460.3 57.8 55.6 2.2 2.1 0.1 48.7 353.8 337.1 16.7	487.0 62.7 59.6 3.0 41.1 383.2 373.0 10.2	491.8 61.2 59.5 1.7 26.2 404.4 398.6 5.8	69.9 68.9 1.0 36.0 454.0 439.8 14.2	82.5 79.3 3.2 36.6 396.7 375.3 21.4	84.6 81.8 2.9 31.4 427.3 409.4 17.8	568.9 59.3 57.0 2.2 30.3 479.3 459.5 19.9
B-63 8-60 9-60 9 0 1 2-63 2 3 4-66 B-82	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities Motion picture, video and TV programme production; broadcasting activities Motion picture, video and TV programme production; sound and music Programming and broadcasting activities Telecommunications IT and other information services Computer programming, consultancy and related activities Information service activities Financial and insurance activities	417.9 11.5 9.3 2.2 50.5 355.9 341.7 14.2 77.0	460.3 57.8 55.6 2.2 2.1 0.1 48.7 353.8 337.1 16.7 76.2	487.0 62.7 59.6 3.0 41.1 383.2 373.0 10.2 77.2	491.8 61.2 59.5 1.7 26.2 404.4 398.6 5.8 90.7	69.9 68.9 1.0 36.0 454.0 439.8 14.2 70.2	82.5 79.3 3.2 36.6 396.7 375.3 21.4 95.0	84.6 81.8 2.9 31.4 427.3 409.4 17.8 125.4	568.9 59.3 57.0 2.2 30.3 479.3 459.5 19.9 94.5
8-63 8-60 8 9-60 9 0 1 2-63 2 3 4-66 8-82 8	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities Motion picture, video and TV programme production; broadcasting activities Motion picture, video and TV programme production; sound and music Programming and broadcasting activities Telecommunications IT and other information services Computer programming, consultancy and related activities Information service activities Financial and insurance activities Real estate; professional, scientific and technical; administrative and support	417.9 11.5 9.3 2.2 50.5 355.9 341.7 14.2 77.0	460.3 57.8 55.6 2.2 2.1 0.1 48.7 353.8 337.1 16.7 76.2 325.1	487.0 62.7 59.6 3.0 41.1 383.2 373.0 10.2 77.2 441.8	491.8 61.2 59.5 1.7 26.2 404.4 398.6 5.8 90.7 496.8	69.9 68.9 1.0 36.0 454.0 439.8 14.2 70.2 489.0 e	82.5 79.3 3.2 36.6 396.7 375.3 21.4 95.0 444.7 e	84.6 81.8 2.9 31.4 427.3 409.4 17.8 125.4 371.0 e	568.9 59.3 57.0 2.2 30.3 479.3 479.3 459.5 19.9 94.5 398.6 e
8-63 8-60 8 9-60 9 0 1 2-63 2 2 3 4-66 8-82 8 8 9-75x72	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities Motion picture, video and TV programme production; broadcasting activities Motion picture, video and TV programme production; sound and music Programming and broadcasting activities Telecommunications IT and other information services Computer programming, consultancy and related activities Information service activities Real estate; professional, scientific and technical; administrative and support Real estate activities	417.9 11.5 9.3 2.2 50.5 355.9 341.7 14.2 77.0 359.8	460.3 57.8 55.6 2.2 2.1 0.1 48.7 353.8 337.1 16.7 76.2 325.1 2.6	487.0 62.7 59.6 3.0 41.1 383.2 373.0 10.2 77.2 441.8 3.0	491.8 61.2 59.5 1.7 26.2 404.4 398.6 5.8 90.7 496.8 3.1	69.9 68.9 1.0 36.0 454.0 439.8 14.2 70.2 489.0 e 1.3 e	82.5 79.3 3.2 36.6 396.7 375.3 21.4 95.0 444.7 e 0.2 e	84.6 81.8 2.9 31.4 427.3 409.4 17.8 125.4 371.0 e 0.3 e	568.9 59.3 57.0 2.2 30.3 479.3 479.3 459.5 19.9 94.5 398.6 e 0.1 e
8-63 8-60 9-60 9-9 10 11 12-63 12-63 12-63 13 14-66 8-82 18-82 19-75x72 12	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities Motion picture, video and TV programme production; broadcasting activities Motion picture, video and TV programme production; sound and music Programming and broadcasting activities Telecommunications IT and other information services Computer programming, consultancy and related activities Information service activities Financial and insurance activities Real estate; professional, scientific and technical; administrative and support Real estate activities Professional, scientific and technical activities, except scientific R&D	417.9 11.5 9.3 2.2 50.5 355.9 341.7 14.2 77.0 359.8 188.1 171.8	460.3 57.8 55.6 2.2 2.1 0.1 48.7 353.8 337.1 16.7 76.2 325.1 2.6 190.6 128.7	487.0 62.7 59.6 3.0 41.1 383.2 373.0 10.2 77.2 441.8 3.0 165.4 269.0	491.8 61.2 59.5 1.7 26.2 404.4 398.6 5.8 90.7 496.8 3.1 183.8 304.8	69.9 68.9 1.0 36.0 454.0 439.8 14.2 70.2 489.0 e 1.3 e 143.2 341.1	82.5 79.3 3.2 36.6 396.7 375.3 21.4 95.0 444.7 e 0.2 e 128.6 309.5	84.6 81.8 2.9 31.4 427.3 409.4 17.8 125.4 371.0 e 0.3 e 170.9 194.8	568.9 59.3 57.0 2.2 30.3 479.3 459.5 19.9 94.5 398.6 e 0.1 e 162.9 225.6
8-63 8-60 89-60 99-60 19 10 12-63 12 13 14-66 88-82 14-66 18-82 19-75x72 12 17-82	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities Motion picture, video and TV programme production; broadcasting activities Motion picture, video and TV programme production; sound and music Programming and broadcasting activities Telecommunications IT and other information services Computer programming, consultancy and related activities Information service activities Financial and insurance activities Real estate; professional, scientific and technical; administrative and support Real estate activities Professional, scientific and technical activities, except scientific R&D Scientific research and development Administrative and support service activities	417.9 11.5 9.3 2.2 50.5 355.9 341.7 14.2 77.0 359.8 188.1 171.8 	460.3 57.8 55.6 2.2 2.1 0.1 48.7 353.8 337.1 16.7 76.2 325.1 2.6 190.6 128.7 3.3	487.0 62.7 59.6 3.0 41.1 383.2 373.0 10.2 77.2 441.8 3.0 165.4 269.0 4.4	491.8 61.2 59.5 1.7 26.2 404.4 398.6 5.8 90.7 496.8 3.1 183.8 304.8 5.1	69.9 68.9 1.0 36.0 454.0 439.8 14.2 70.2 489.0 e 1.3 e 143.2 341.1 3.3	82.5 79.3 3.2 36.6 396.7 375.3 21.4 95.0 444.7 e 0.2 e 128.6 309.5 6.3	84.6 81.8 2.9 31.4 427.3 409.4 17.8 125.4 371.0 e 0.3 e 170.9 194.8 5.2	568.9 59.3 57.0 2.2 30.3 479.3 459.5 19.9 94.5 398.6 e 0.1 e 162.9 225.6 10.0
58-63 58-60 59 59-60 59 50 50 51 52-63 52 53 54-66 58-82 59-75x72 72 72 77-82 54-99	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities Motion picture, video and TV programme production; broadcasting activities Motion picture, video and TV programme production; broadcasting activities Programming and broadcasting activities Telecommunications IT and other information services Computer programming, consultancy and related activities Information service activities Financial and insurance activities Real estate; professional, scientific and technical; administrative and support Real estate activities Professional, scientific and technical activities, except scientific R&D Scientific research and development Administrative and support service activities Community, social and personal services	417.9 11.5 9.3 2.2 50.5 355.9 341.7 14.2 77.0 359.8 188.1 171.8 12.3	460.3 57.8 55.6 2.2 2.1 0.1 48.7 353.8 337.1 16.7 76.2 325.1 2.6 190.6 128.7 3.3 20.2	487.0 62.7 59.6 3.0 41.1 383.2 373.0 10.2 77.2 441.8 3.0 165.4 269.0 4.4 20.4	491.8 61.2 59.5 1.7 26.2 404.4 398.6 5.8 90.7 496.8 3.1 183.8 304.8 5.1 27.9	69.9 68.9 1.0 36.0 454.0 439.8 14.2 70.2 489.0 e 1.3 e 143.2 341.1 3.3 23.5	82.5 79.3 3.2 36.6 396.7 375.3 21.4 95.0 444.7 e 0.2 e 128.6 309.5 6.3 26.5	84.6 81.8 2.9 31.4 427.3 409.4 17.8 125.4 371.0 e 0.3 e 170.9 194.8 5.2 27.6	568.9 59.3 57.0 2.2 30.3 479.3 459.5 19.9 94.5 398.6 e 0.1 e 162.9 225.6 10.0 31.5
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8-63 8-60 8 9-60 9 0 1 2-63 2 3 4-66 8-82 8 8-82 8 9-75x72 2 7-82 4-99	Information and communication Publishing, audiovisual and broadcasting activities Publishing activities Motion picture, video and TV programme production; broadcasting activities Motion picture, video and TV programme production; broadcasting activities Programming and broadcasting activities Telecommunications IT and other information services Computer programming, consultancy and related activities Information service activities Financial and insurance activities Real estate; professional, scientific and technical; administrative and support Real estate activities Professional, scientific and technical activities, except scientific R&D Scientific research and development Administrative and support service activities Community, social and personal services	417.9 11.5 9.3 2.2 50.5 355.9 341.7 14.2 77.0 359.8 188.1 171.8 12.3	460.3 57.8 55.6 2.2 2.1 0.1 48.7 353.8 337.1 16.7 76.2 325.1 2.6 190.6 128.7 3.3 20.2	487.0 62.7 59.6 3.0 41.1 383.2 373.0 10.2 77.2 441.8 3.0 165.4 269.0 4.4 20.4	491.8 61.2 59.5 1.7 26.2 404.4 398.6 5.8 90.7 496.8 3.1 183.8 304.8 5.1 27.9	69.9 68.9 1.0 36.0 454.0 439.8 14.2 70.2 489.0 e 1.3 e 143.2 341.1 3.3 23.5	82.5 79.3 3.2 36.6 396.7 375.3 21.4 95.0 444.7 e 0.2 e 128.6 309.5 6.3 26.5	84.6 81.8 2.9 31.4 427.3 409.4 17.8 125.4 371.0 e 0.3 e 170.9 194.8 5.2 27.6	568.9 59.3 57.0 2.2 30.3 479.3 459.5 19.9 94.5 398.6 e 0.1 e 162.9 225.6 10.0 31.5

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