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Government expenditure on research and development in selected countries of the European Union, by various criteria

		Budget appropriations					
Government expenditure	Year ¹	Germany	Finland	France	Ireland	Italy	Netherlands
1.a) Total R&D expenditure	2014	33,186.3	2,206.3	18,349.2	887.4	11,425.0	6,026.0
in Millions of US-\$ PPP ³	2015	34,107.7	2,205.6	17,531.1	909.6	11,336.0	6,027.4
	2016	36,883.2	2,042.4	17,677.2	887.9	12,235.3	6,080.3
	2017	39,992.1	2,150.2	19,015.4	928.2	12,627.0	6,460.5
	2018	41,032.0	2,223.2	20,085.2	936.8	-	6,979.8
1.b) Civil R&D expenditure	2014	31,915.2	2,159.0	17,133.3	887.4	11,330.6	5,952.5
in Millions of US-\$ PPP ³	2015	33,044.6	2,164.5	16,272.6	909.6	11,250.4	5,951.3
	2016	35,894.8	2,002.9	16,543.9	887.9	12,158.9	6,004.9
	2017	38,461.9	2,102.7	17,584.3	928.2	12,550.6	6,381.5
	2018	39,673.2	2,169.1	18,845.6	936.8	-	6,895.7
2. Average annual growth of R&D expenditure (in %) ⁴							
a) Total expenditure	2014 to						
	2018 (2017)	+5.4	+0.2	+2.3	+1.4	+3.4	+3.7
b) Civil R&D expenditure	2014 to						
	2018 (2017)	+5.6	+0.1	+2.4	+1.4	+3.5	+3.7
3. Total R&D expenditure per capita in US-\$ PPP ³	2014	409.8	403.9	276.7	190.7	187.9	357.3
	2015	417.5	402.4	263.3	193.7	186.7	355.8
	2016	447.9	371.7	264.5	187.0	201.8	357.0
	2017	483.8	390.4	283.5	193.3	208.6	377.1
	2018	494.9	403.0	298.6	192.7	-	405.0
4. Total R&D expenditure as a percentage of the nominal gross domestic product	2014	0.87	0.97	0.69	0.37	0.52	0.73
	2015	0.87	0.95	0.64	0.28	0.51	0.71
	2016	0.90	0.85	0.63	0.26	0.52	0.70
	2017	0.92	0.84	0.64	0.25	0.51	0.69
	2018	0.92	0.84	0.66	0.24	-	0.72
5. Average annual growth of the nominal gross domestic product	2014 to						
	2018	+3.9	+4.1	+3.4	+13.6	+3.5	+4.0

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		Budget appropriations						
Government expenditure	Year ¹	Austria ²	Portugal	Sweden	Spain	United Kingdom	EU 28	
1.a) Total R&D expenditure in Millions of US-\$ PPP ³	2014	3,314.3	1,087.4	3,766.5	8,721.4	14,663.0	121,894.1	
	2015	3,437.1	1,174.4	3,742.9	9,092.2	14,612.7	122,970.2	
	2016	3,643.1	1,218.0	3,819.3	9,237.5	14,786.2	127,201.6	
	2017	3,703.1	1,227.7	4,141.5	9,351.6	15,700.2	135,160.6	
	2018	3,705.6	1,195.6	4,201.7	9,631.7	-	139,731.3	
1.b) Civil R&D expenditure in Millions of US-\$ PPP ³	2014	3,313.1	1,083.7	3,625.1	8,611.8	12,208.6	116,205.6	
	2015	3,436.0	1,170.7	3,617.7	8,962.8	12,209.5	117,489.8	
	2016	3,639.8	1,214.3	3,688.8	9,144.8	12,450.8	121,691.4	
	2017	3,698.1	1,223.8	4,016.0	9,250.2	13,320.7	128,862.4	
	2018	3,698.5	1,191.7	4,044.5	9,544.3	-	-	
2. Average annual growth of R&D expenditure (in %) ⁴								
a) Total expenditure	2014 to							
	2018 (2017)	+2.8	+2.4	+2.8	+2.5	+2.3	+3.5	
b) Civil R&D expenditure	2014 to							
	2018 (2017)	+2.8	+2.4	+2.8	+2.6	+2.9	+3.5	
3. Total R&D expenditure per capita in US-\$ PPP ³	2014	387.9	104.5	388.5	187.7	227.0	239.8	
	2015	398.3	113.4	382.0	195.9	224.4	224.4	
	2016	416.8	118.0	384.9	198.9	225.2	225.2	
	2017	421.0	119.2	411.8	201.0	237.7	237.7	
	2018	419.0	116.3	412.9	206.1	-	-	
4. Total R&D expenditure as a percentage of the nominal gross domestic product	2014	0.79	0.36	0.83	0.56	0.56	0.64	
	2015	0.80	0.38	0.79	0.56	0.53	0.62	
	2016	0.81	0.38	0.78	0.54	0.52	0.62	
	2017	0.78	0.37	0.80	0.51	0.53	0.62	
	2018	0.75	0.35	0.78	0.52	-	0.62	
5. Average annual growth of the nominal gross domestic product	2014 to							
	2018	+4.2	+3.2	+4.4	+4.5	+3.5	+4.1	

1 Some figures are revised, provisional, estimated or only partly comparable with figures from previous years (see original edition of "Main Science and Technology Indicators 2019/1").

2 Definition differs.

3 Nominal expenditure converted into US dollar purchasing power parities.

4 The figures are based on years for that data are available.

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Source: OECD (Main Science and Technology Indicators 2019/1) and calculations of the German Centre for Higher Education Research and Science Studies

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<https://www.govdata.de/dl-de/by-nc-1-0>