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

		Budget appropriations					
Government expenditure on R&D	Year <sup>1</sup>	Germany	Finland	France	Ireland	Italy	Netherlands
1.a) Total R&D expenditure in Millions of US-\$ PPP <sup>4</sup>	2015	34,107.7	2,205.6	17,531.1	909.6	11,336.0	6,027.4
	2016	37,664.0	2,084.5	18,007.6	905.5	12,466.3	6,192.2
	2017	40,726.9	2,184.0	17,752.8	934.5	12,806.2	6,368.7
	2018	42,515.9	2,274.2	18,453.3	971.4	13,195.7	7,075.1
	2019	45,482.8	2,370.8	-	1,015.5	14,330.8	7,201.8
1.b) Civil R&D expenditure in Millions of US-\$ PPP <sup>4</sup>	2015	33,044.6	2,164.5	16,272.6	909.6	11,250.4	5,951.3
	2016	36,654.7	2,044.2	16,853.1	905.5	12,388.6	6,115.4
	2017	39,168.6	2,135.8	16,304.6	934.5	12,728.8	6,298.4
	2018	41,121.7	2,218.8	17,183.6	971.4	13,115.2	6,991.9
	2019	43,476.4	2,312.1	-	1,015.5	14,251.5	7,110.4
2.	Average annual growth of R&D expenditure (in %) <sup>5</sup>						
a) Total expenditure	2015 to 2019 (2018)	+7.5	+1.8	+1.7	+2.8	+6.0	+4.6
b) Civil R&D expenditure	2015 to 2019 (2018)	+7.1	+1.7	+1.8	+2.8	+6.1	+4.5
3. Total R&D expenditure per capita in US-\$ PPP <sup>4</sup>	2015	417.5	402.4	263.3	193.7	186.7	355.8
	2016	457.4	379.3	269.5	190.7	205.6	363.6
	2017	492.7	396.5	264.7	194.6	211.5	371.8
	2018	512.8	412.3	274.3	199.9	218.3	410.6
	2019	547.4	429.4	-	206.1	237.4	415.2
4. Total R&D expenditure as a percentage of the nominal gross domestic product	2015	0.88	0.95	0.64	0.28	0.51	0.71
	2016	0.90	0.84	0.63	0.26	0.52	0.70
	2017	0.93	0.83	0.59	0.25	0.51	0.67
	2018	0.94	0.83	0.59	0.24	0.51	0.71
	2019	0.98	0.84	-	0.23	0.54	0.70
5. Average annual growth of the nominal gross domestic product <sup>5</sup>	2015 to						
	2019	+4.6	+5.1	+5.1	+7.6	+4.4	+4.9

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

		Budget appropriations						
Government expenditure on R&D	Year <sup>1</sup>	Austria <sup>2</sup>	Portugal	Sweden <sup>3</sup>	Spain	United Kingdom	EU28 average	
1.a) Total R&D expenditure in Millions of US-\$ PPP <sup>4</sup>	2015	3,437.1	1,174.4	3,742.9	9,092.2	14,612.7	122,971.4	
	2016	3,701.0	1,240.1	3,897.4	9,421.5	14,879.6	129,467.8	
	2017	3,751.2	1,239.3	4,206.4	9,516.8	15,906.3	135,475.4	
	2018	3,797.5	1,225.7	4,245.7	9,878.6	17,050.5	140,996.1	
	2019	4,055.2	1,260.9	4,232.5	10,092.4	13,893.0	145,432.5	
1.b) Civil R&D expenditure in Millions of US-\$ PPP <sup>4</sup>	2015	3,436.0	1,170.7	3,617.7	8,962.8	12,209.5	117,491.1	
	2016	3,697.6	1,236.2	3,764.3	9,326.9	12,510.5	123,861.7	
	2017	3,744.8	1,235.3	4,079.0	9,413.6	13,495.6	129,097.9	
	2018	3,790.7	1,221.1	4,086.9	9,785.9	14,638.9	135,052.2	
	2019	4,046.4	1,255.9	4,113.0	9,980.7	11,928.0	139,244.4	
2. Average annual growth of R&D expenditure (in %) <sup>5</sup>								
a) Total expenditure	2015 to							
	2019 (2018)	+4.2	+1.8	+3.1	+2.6	-1.3	+4.3	
b) Civil R&D expenditure	2015 to							
	2019 (2018)	+4.2	+1.8	+3.3	+2.7	-0.6	+4.3	
3. Total R&D expenditure per capita in US-\$ PPP <sup>4</sup>	2015	398.3	113.4	382.0	195.9	224.4	224.4	
	2016	423.5	120.1	392.8	202.8	226.7	226.7	
	2017	426.5	120.3	418.2	204.5	240.9	240.9	
	2018	429.7	119.2	417.3	211.4	256.6	256.6	
	2019	456.9	122.6	411.8	214.3	207.9	207.9	
4. Total R&D expenditure as a percentage of the nominal gross domestic product	2015	0.80	0.38	0.78	0.56	0.53	0.62	
	2016	0.80	0.38	0.78	0.54	0.51	0.62	
	2017	0.78	0.36	0.79	0.52	0.52	0.61	
	2018	0.76	0.35	0.78	0.52	0.55	0.61	
	2019	0.77	0.34	0.74	0.51	0.43	0.60	
5. Average annual growth of the nominal gross domestic product <sup>5</sup>	2015 to							
	2019	+5.0	+5.1	+4.5	+5.2	+4.1	+5.0	

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 2020/1").

2 Definition differs.

3 Data exclude funding by public research foundations.

4 Nominal expenditure converted into US dollar purchasing power parities.

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

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Source: OECD (Main Science and Technology Indicators 2020/1) 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>