

Fig. 11 R&D expenditure of the Federal Government and the Länder, by research objectives, budget appropriations in millions of euros (2015-2019)

Research objective ¹	2015	2016	2017	2018	2019 ²
1. Exploration and exploitation of the earth	466.6	478.0	516.1	490.8	561.5
2. Environment	769.9	758.5	845.3	872.5	951.3
3. Exploration and exploitation of space	1,333.5	1,388.1	1,385.5	1,522.9	1,536.7
4. Transport, telecommunication and other infrastructures	380.4	427.7	509.3	549.8	621.9
5. Energy	1,260.4	1,282.2	1,439.7	1,553.9	1,844.2
6. Industrial production and technology	3,157.8	3,338.7	3,447.5	3,978.2	4,147.4
7. Health	1,384.6	1,415.0	1,502.8	1,630.9	1,717.0
8. Agriculture	812.9	831.6	880.4	909.5	905.6
9. Education	387.3	358.1	441.9	480.3	495.1
10. Culture, recreation, religion and mass media	303.1	345.8	345.6	356.0	354.7
11. Political and social systems, structures and processes	508.9	449.6	552.0	605.7	652.7
9.-11. Total	1,199.3	1,153.4	1,339.5	1,442.0	1,502.5
12. General advancement of knowledge: R&D financed from General University Funds (GUF)	10,719.3	11,934.9	12,288.8	12,488.0	13,067.3
13. General advancement of knowledge: R&D financed from other sources than GUF	4,625.3	4,680.2	4,833.6	5,022.7	5,195.8
Non-apportionable funds ³	-404.2	-	-	-	-
Total civil R&D expenditure	25,705.9	27,688.2	28,988.6	30,461.2	32,051.0
14. Defence	827.0	759.7	1,152.7	1,032.8	1,479.1
Total	26,532.8	28,448.0	30,141.3	31,494.0	33,530.0

Explanation of abbreviations/symbols: R&D = research and development; - = no figures or magnitude zero.

1) In keeping with the nomenclature for the analysis and comparison of scientific programmes and budgets (NABS) – edition 2007. On the part of the Federal Government including "Energy and climate fund" (*Energie- und Klimafonds*). 2016, including future investments.

2) Provisional figures.

3) Global reduction in the expenditure of the Federal Ministry of Education and Research (BMBF) which cannot be assigned to research objectives 1 to 13 until ACTUAL figures are available. As of 2016, proportional distribution of this expenditure.

Source: Federal Ministry of Education and Research; Federal Statistical Office

BMBF's Data Portal: Figure link: datenportal.bmbf.de/fig-11

Additional data: datenportal.bmbf.de/en/1.2.3