

**Fig. 8 Federal Government expenditure on R&D, by funding areas in millions of euros (2018-2020)**

<b>Funding area<sup>1,2</sup></b>	<b>2018 (ACTUAL)</b>	<b>2019<sup>3</sup> (TARGET)</b>	<b>2020<sup>3</sup> (TARGET)</b>
A Health research and health industry	2,519.5	2,687.8	2,850.1
B Bioeconomy	295.5	280.8	297.2
C Civil security research	139.0	153.6	160.3
D Nutrition, agriculture and consumer protection	709.0	837.6	981.9
E Energy research and energy technologies	1,327.7	1,779.4	1,647.4
F Climate, environment, sustainability	1,358.7	1,529.3	1,517.2
G Information and communication technologies	851.7	1,219.3	1,411.7
H Vehicle and traffic technologies including maritime technologies	367.7	534.3	429.5
I Aerospace	1,816.6	1,867.5	1,957.2
J Research and development to improve working conditions and in the service sector	115.1	123.7	136.0
K Nanotechnologies and materials technologies	719.9	813.5	844.3
L Optical technologies	230.2	237.5	245.8
M Production technologies	253.1	270.0	281.8
N Regional planning and urban development; construction research	118.1	147.6	157.7
O Innovations in education	570.7	641.1	619.5
P Humanities; economics and social sciences	1,160.6	1,329.3	1,384.8
Q Innovation funding for SMEs	1,037.1	1,209.7	1,282.6
R Innovation-relevant underlying conditions and other cross-cutting activities	584.0	615.7	754.0
T Funding organisations, restructuring of the research field in acceding areas; construction of universities and primarily university-specific special programmes	760.3	791.5	786.7
U Large-scale equipment for basic research	1,311.8	1,377.9	1,467.2
<b>Total of civil funding areas</b>	<b>16,246.2</b>	<b>18,079.9</b>	<b>18,757.1</b>
S Military scientific research	1,003.8	1,521.3	1,544.0
<b>Total expenditure</b>	<b>17,250.0</b>	<b>19,601.2</b>	<b>20,301.1</b>

**Explanation of abbreviations/symbols:** R&D = (of which) research and development; SMEs = Small and medium-sized enterprises.

1) According to the Federal Government's planning system 2009. Expenditure was implemented in accordance with the Federal Government's planning system 2009. Expenditure of non-university research organisations are distributed among funding areas and funding priorities.

2) Including "Energy and climate fund" (*Energie- und Klimafonds*). Research funding in the area of electro mobility is financed by the "Energy and climate fund".

3) Distribution among funding areas partly estimated or extrapolated. 2020: without supplementary budget from 27 March 2020.

**Source:** Federal Ministry of Education and Research

**BMBF's Data Portal:** Figure link: [datenportal.bmbf.de/fig-8](https://datenportal.bmbf.de/fig-8)

Additional data: [datenportal.bmbf.de/en/1.1.5](https://datenportal.bmbf.de/en/1.1.5)