

Fig. 9 BMBF expenditure on R&D, by funding areas, in millions of euros (2018-2020)

Funding area ¹	2018 (ACTUAL)	2019 ² (TARGET)	2020 ² (TARGET)
A Health research and health industry	2,290.5	2,411.7	2,557.2
B Bioeconomy	292.8	278.2	290.4
C Civil security research	96.2	102.6	108.2
D Nutrition, agriculture and consumer protection	49.4	51.0	54.1
E Energy research and energy technologies	658.1	667.8	702.8
F Climate, environment, sustainability	1,106.6	1,253.5	1,249.6
G Information and communication technologies	659.2	713.4	839.1
H Vehicle and traffic technologies including maritime technologies	32.4	34.5	36.4
I Aerospace	110.9	116.6	123.1
J Research and development to improve working conditions and in the service sector	78.2	74.0	82.0
K Nanotechnologies and materials technologies	635.1	726.3	751.7
L Optical technologies	211.1	219.1	226.5
M Production technologies	242.7	259.5	270.5
N Regional planning and urban development; construction research	27.5	28.1	29.9
O Innovations in education	504.9	562.7	530.7
P Humanities; economics and social sciences	891.3	991.0	1,034.9
Q Innovation funding for SMEs	113.9	115.0	123.8
R Innovation-relevant underlying conditions and other cross-cutting activities	456.6	493.9	630.8
T Funding organisations, restructuring of the research field in acceding areas; construction of universities and primarily university-specific special programmes	718.0	752.2	744.7
U Large-scale equipment for basic research	1,311.3	1,377.4	1,466.7
Total expenditure	10,486.7	10,861.2	11,397.5

Explanation of abbreviations/symbols: BMBF = Federal Ministry of Education and Research; R&D = 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) Distribution among funding areas partly estimated or extrapolated. 2020: without supplementary budget from 27 March 2020. ACTUAL figures are needed to break down the BMBF's total expenditure reduction by funding areas and funding priorities.

Source: Federal Ministry of Education and Research

BMBF's Data Portal: Figure link: datenportal.bmbf.de/fig-9

Additional data: datenportal.bmbf.de/en/1.1.6