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Expenditure on science, research and development by the Federal Ministry of Education and Research (BMBF), by funding areas and funding priorities¹

		Millions of €			
Funding area Funding priority		ACTUAL			
		2016		2017	
		Total	Of which, R&D	Total	Of which, R&D
A	Health research and health industry	2,065.2	2,065.2	2,197.4	2,197.4
AA	Health research and health industry	2,065.2	2,065.2	2,197.4	2,197.4
AB	Radiation protection	0.0	0.0	0.0	0.0
B	Bioeconomy	260.4	260.4	278.2	278.2
C	Civil security research	67.8	67.8	98.7	98.7
D	Nutrition, agriculture and consumer protection	49.8	49.8	48.7	48.7
DA	Nutrition	3.0	3.0	3.2	3.2
DB	Sustainable agricultural economy and rural areas	46.8	46.8	42.4	42.4
DC	Health and economic consumer protection	0.0	0.0	3.1	3.1
E	Energy research and energy technologies	874.6	636.8	867.6	599.9
EA	Efficient energy conversion	222.5	222.5	202.8	202.8
EB	Renewable energy	219.8	219.8	198.4	198.4
EC	Nuclear safety and waste management	51.7	51.7	54.8	54.8
ED	Decommissioning of nuclear facilities	246.1	8.3	276.5	8.8
EF	Fusion research	134.5	134.5	135.1	135.1
F	Climate, environment, sustainability	1,003.9	1,003.9	1,080.8	1,080.8
FA	Climate, climate protection; global change	201.4	201.4	231.4	231.4
FB	Coast, marine and polar research, geosciences	416.0	416.0	441.0	441.0
FC	Environmental and sustainability research	222.4	222.4	230.3	230.3
FD	Ecology, nature conservation, sustainable use	164.1	164.1	178.1	178.1
G	Information and communication technologies	600.4	588.5	716.1	653.4
GA	Software systems; knowledge technologies	196.7	196.7	234.6	234.6
GB	Communication technologies and services	125.5	125.5	146.5	146.5
GC	Electronic, electronic systems	208.5	208.5	260.7	210.7
GD	Microsystems technology	38.5	38.5	38.5	38.5
GE	Multimedia, development of convergent information and communication technology	31.2	19.2	35.9	23.1
H	Vehicle and traffic technologies including maritime technologies	25.3	25.3	32.7	32.7
HA	Vehicle and traffic technologies	19.7	19.7	23.6	23.6
HB	Maritime technologies	5.6	5.6	9.1	9.1
I	Aerospace	88.0	88.0	110.4	110.4
IB	National space research and space technology	88.0	88.0	110.4	110.4
J	Research and development to improve working conditions and in the service sector	53.4	53.4	73.4	73.4
JA	Research and development to improve working conditions	28.8	28.8	43.1	43.1
JB	Research in the service sector	24.5	24.5	30.2	30.2
K	Nanotechnologies and materials technologies	582.4	582.4	631.5	631.5
KA	Nanotechnologies	249.2	249.2	252.5	252.5
KB	Materials technologies	333.2	333.2	379.0	379.0
L	Optical technologies	195.2	195.2	205.4	205.4
M	Production technologies	222.8	222.8	228.8	228.8
N	Regional planning and urban development; construction research	21.7	21.7	24.4	24.4
NA	Regional planning, urban development, housing	2.8	2.8	2.4	2.4
NB	Construction research	18.9	18.9	22.0	22.0

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		Millions of €			
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		2016		2017	
		Total	Of which, R&D	Total	Of which, R&D
O	Innovations in education	681.7	388.4	754.3	453.1
OA	Educational reporting, international assessments	230.8	112.7	241.8	121.6
OB	Educational research	433.3	258.1	480.4	299.3
OC	New media in the education	17.6	17.6	32.1	32.1
P	Humanities; economics and social sciences	848.9	848.9	875.8	875.8
PA	Humanities research	486.3	486.3	493.6	493.6
PB	Social scientific research	160.3	160.3	158.0	158.0
PC	Economic and finance scientific research	48.8	48.8	48.2	48.2
PD	Infrastructures	153.5	153.5	176.0	176.0
Q	Innovation funding for SMEs	152.3	152.3	111.3	111.3
QB	Technology support for SMEs	39.5	39.5	1.8	1.8
QC	Technology transfer and innovation consulting	112.8	112.8	109.5	109.5
R	Innovation-relevant underlying conditions and other cross-cutting activities	419.4	363.1	474.8	412.4
RA	Technology Assessment	2.1	2.1	2.2	2.2
RB	Structural cross-cutting activities	64.5	43.7	89.1	68.4
RC	Demographical change	72.4	72.4	86.0	86.0
RD	Sports promotion and sports research	1.0	1.0	1.0	1.0
RE	Others	279.4	243.9	296.6	254.8
T	Funding organisations, restructuring of the research field in acceding areas; construction of universities and primarily university-specific special programmes	3,675.1	701.9	4,037.0	702.6
TB	Others	3,675.1	701.9	4,037.0	702.6
U	Large-scale equipment for basic research	1,221.5	1,221.5	1,168.6	1,168.6
Z	Global reduced expenditure; budget reserve³	0.0	0.0	0.0	0.0
Total expenditure		13,109.7	9,537.1	14,016.0	9,987.4

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Expenditure on science, research and development by the Federal Ministry of Education and Research (BMBF), by funding areas and funding priorities¹

		Millions of €			
Funding area Funding priority		TARGET ²			
		2018		2019	
		Total	Of which, R&D	Total	Of which, R&D
A	Health research and health industry	2,315.9	2,315.9	2,407.1	2,407.1
AA	Health research and health industry	2,315.9	2,315.9	2,407.1	2,407.1
AB	Radiation protection	0.0	0.0	0.0	0.0
B	Bioeconomy	278.7	278.7	283.4	283.4
C	Civil security research	108.1	108.1	109.3	109.3
D	Nutrition, agriculture and consumer protection	50.3	50.3	52.9	52.9
DA	Nutrition	3.3	3.3	3.4	3.4
DB	Sustainable agricultural economy and rural areas	43.8	43.8	46.1	46.1
DC	Health and economic consumer protection	3.2	3.2	3.4	3.4
E	Energy research and energy technologies	935.2	618.3	991.5	674.7
EA	Efficient energy conversion	300.9	300.9	347.4	347.4
EB	Renewable energy	126.8	126.8	132.3	132.3
EC	Nuclear safety and waste management	44.8	44.8	46.0	46.0
ED	Decommissioning of nuclear facilities	328.1	11.2	328.1	11.2
EF	Fusion research	134.5	134.5	137.8	137.8
F	Climate, environment, sustainability	1,140.1	1,140.1	1,283.8	1,283.8
FA	Climate, climate protection; global change	234.6	234.6	243.5	243.5
FB	Coast, marine and polar research, geosciences	477.0	477.0	597.0	597.0
FC	Environmental and sustainability research	293.1	293.1	300.4	300.4
FD	Ecology, nature conservation, sustainable use	135.4	135.4	142.9	142.9
G	Information and communication technologies	884.5	701.1	869.3	685.5
GA	Software systems; knowledge technologies	260.8	260.8	226.9	226.9
GB	Communication technologies and services	157.4	157.4	162.4	162.4
GC	Electronic, electronic systems	389.7	219.7	399.0	229.0
GD	Microsystems technology	39.3	39.3	41.7	41.7
GE	Multimedia, development of convergent information and communication technology	37.3	23.9	39.3	25.4
H	Vehicle and traffic technologies including maritime technologies	33.8	33.8	36.0	36.0
HA	Vehicle and traffic technologies	24.4	24.4	26.0	26.0
HB	Maritime technologies	9.3	9.3	10.0	10.0
I	Aerospace	115.7	115.7	122.3	122.3
IB	National space research and space technology	115.7	115.7	122.3	122.3
J	Research and development to improve working conditions and in the service sector	73.4	73.4	73.5	73.5
JA	Research and development to improve working conditions	42.6	42.6	38.8	38.8
JB	Research in the service sector	30.8	30.8	34.7	34.7
K	Nanotechnologies and materials technologies	644.4	644.4	722.9	722.9
KA	Nanotechnologies	324.1	324.1	387.1	387.1
KB	Materials technologies	320.3	320.3	335.8	335.8
L	Optical technologies	209.4	209.4	218.8	218.8
M	Production technologies	228.8	228.8	248.9	248.9
N	Regional planning and urban development; construction research	25.2	25.2	26.4	26.4
NA	Regional planning, urban development, housing	2.5	2.5	2.6	2.6
NB	Construction research	22.7	22.7	23.8	23.8

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Expenditure on science, research and development by the Federal Ministry of Education and Research (BMBF), by funding areas and funding priorities¹

Millions of €				
Funding area Funding priority	TARGET ²			
	2018		2019	
	Total	Of which, R&D	Total	Of which, R&D
O Innovations in education	852.8	538.4	900.6	563.6
OA Educational reporting, international assessments	240.1	120.1	253.7	129.2
OB Educational research	528.4	333.9	558.1	345.6
OC New media in the education	84.3	84.3	88.8	88.8
P Humanities; economics and social sciences	933.4	933.4	984.9	984.9
PA Humanities research	548.3	548.3	570.9	570.9
PB Social scientific research	161.8	161.8	178.1	178.1
PC Economic and finance scientific research	50.3	50.3	52.9	52.9
PD Infrastructures	173.0	173.0	183.0	183.0
Q Innovation funding for SMEs	131.7	131.7	113.9	113.9
QB Technology support for SMEs	1.9	1.9	2.0	2.0
QC Technology transfer and innovation consulting	129.8	129.8	111.9	111.9
R Innovation-relevant underlying conditions and other cross-cutting activities	535.3	430.8	600.5	463.0
RA Technology Assessment	2.3	2.3	2.3	2.3
RB Structural cross-cutting activities	128.6	74.5	180.3	97.1
RC Demographical change	91.3	91.3	92.2	92.2
RD Sports promotion and sports research	1.0	1.0	1.1	1.1
RE Others	312.0	261.6	324.6	270.3
T Funding organisations, restructuring of the research field in acceding areas; construction of universities and primarily university-specific special programmes	3,484.3	718.2	3,592.0	756.9
TB Others	3,484.3	718.2	3,592.0	756.9
U Large-scale equipment for basic research	1,335.9	1,335.9	1,400.9	1,400.9
Z Global reduced expenditure; budget reserve³	-302.5	-302.5	-367.3	-367.3
Total expenditure	14,014.4	10,329.0	14,671.5	10,861.2

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. Possible rounding differences.

2 Distribution among funding areas and funding priorities partly estimated or extrapolated.

3 ACTUAL figures are needed to break down the BMBF's total expenditure reduction by funding areas and funding priorities.

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This table also appears in the Federal Report on Research and Innovation as Table 6.

Source: Special evaluation of the Federal Ministry of Education and Research

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<https://www.govdata.de/dl-de/by-2-0>