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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 €			
Funding area Funding priority		ACTUAL			
		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		ACTUAL		TARGET ²	
		2018		2019	
		Total	Of which, R&D	Total	Of which, R&D
A	Health research and health industry	2,290.5	2,290.5	2,411.8	2,411.8
AA	Health research and health industry	2,290.5	2,290.5	2,411.8	2,411.8
AB	Radiation protection	0.0	0.0	0.0	0.0
B	Bioeconomy	292.8	292.8	278.2	278.2
C	Civil security research	96.2	96.2	102.6	102.6
D	Nutrition, agriculture and consumer protection	49.4	49.4	51.0	51.0
DA	Nutrition	3.4	3.4	3.4	3.4
DB	Sustainable agricultural economy and rural areas	44.1	44.1	45.5	45.5
DC	Health and economic consumer protection	2.0	2.0	2.1	2.1
E	Energy research and energy technologies	937.2	658.1	984.6	667.8
EA	Efficient energy conversion	246.0	246.0	346.9	346.9
EB	Renewable energy	210.9	210.9	127.3	127.3
EC	Nuclear safety and waste management	56.6	56.6	46.3	46.3
ED	Decommissioning of nuclear facilities	288.5	9.4	328.1	11.2
EF	Fusion research	135.2	135.2	136.1	136.1
F	Climate, environment, sustainability	1,106.6	1,106.6	1,253.4	1,253.4
FA	Climate, climate protection; global change	222.4	222.4	241.1	241.1
FB	Coast, marine and polar research, geosciences	457.1	457.1	575.8	575.8
FC	Environmental and sustainability research	244.4	244.4	290.1	290.1
FD	Ecology, nature conservation, sustainable use	182.7	182.7	146.4	146.4
G	Information and communication technologies	860.9	659.2	897.3	713.4
GA	Software systems; knowledge technologies	221.3	221.3	240.2	240.2
GB	Communication technologies and services	158.6	158.6	177.8	177.8
GC	Electronic, electronic systems	408.4	220.1	403.0	233.0
GD	Microsystems technology	37.9	37.9	39.9	39.9
GE	Multimedia, development of convergent information and communication technology	34.6	21.3	36.4	22.6
H	Vehicle and traffic technologies including maritime technologies	32.4	32.4	34.5	34.5
HA	Vehicle and traffic technologies	25.5	25.5	27.1	27.1
HB	Maritime technologies	6.9	6.9	7.4	7.4
I	Aerospace	110.9	110.9	116.6	116.6
IB	National space research and space technology	110.9	110.9	116.6	116.6
J	Research and development to improve working conditions and in the service sector	78.2	78.2	74.0	74.0
JA	Research and development to improve working conditions	41.9	41.9	38.1	38.1
JB	Research in the service sector	36.4	36.4	35.9	35.9
K	Nanotechnologies and materials technologies	635.1	635.1	726.3	726.3
KA	Nanotechnologies	243.3	243.3	387.9	387.9
KB	Materials technologies	391.8	391.8	338.4	338.4
L	Optical technologies	211.1	211.1	219.1	219.1
M	Production technologies	242.7	242.7	259.5	259.5
N	Regional planning and urban development; construction research	27.5	27.5	28.1	28.1
NA	Regional planning, urban development, housing	2.7	2.7	2.8	2.8
NB	Construction research	24.8	24.8	25.3	25.3

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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		TARGET ²	
		2018		2019	
		Total	Of which, R&D	Total	Of which, R&D
O	Innovations in education	810.6	504.9	899.6	562.7
OA	Educational reporting, international assessments	249.8	125.8	253.7	129.2
OB	Educational research	507.8	326.0	557.2	344.7
OC	New media in the education	53.1	53.1	88.8	88.8
P	Humanities; economics and social sciences	891.3	891.3	991.0	991.0
PA	Humanities research	511.9	511.9	568.0	568.0
PB	Social scientific research	183.1	183.1	184.5	184.5
PC	Economic and finance scientific research	52.6	52.6	54.5	54.5
PD	Infrastructures	143.6	143.6	184.0	184.0
Q	Innovation funding for SMEs	113.9	113.9	115.0	115.0
QB	Technology support for SMEs	2.9	2.9	3.1	3.1
QC	Technology transfer and innovation consulting	111.0	111.0	111.9	111.9
R	Innovation-relevant underlying conditions and other cross-cutting activities	564.1	456.6	631.3	493.9
RA	Technology Assessment	2.3	2.3	2.4	2.4
RB	Structural cross-cutting activities	118.3	63.2	173.3	90.1
RC	Demographical change	88.2	88.2	89.6	89.6
RD	Sports promotion and sports research	0.8	0.8	0.9	0.9
RE	Others	354.5	302.1	365.3	311.0
T	Funding organisations, restructuring of the research field in acceding areas; construction of universities and primarily university-specific special programmes	3,410.8	718.0	3,587.3	752.2
TB	Others	3,410.8	718.0	3,587.3	752.2
U	Large-scale equipment for basic research	1,311.3	1,311.3	1,377.4	1,377.4
Z	Global reduced expenditure; budget reserve³	0.0	0.0	-367.3	-367.3
Total expenditure		14,073.6	10,486.7	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.

Last update: September 2019

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>