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**Expenditure on science, research and development by the Federal Ministry of Education and Research (BMBF), by funding areas and funding priorities<sup>1</sup>**

		Millions of €			
Funding area Funding priority		ACTUAL			
		2021		2022	
		Total	Of which, R&D	Total	Of which, R&D
<b>A</b>	<b>Health research and health industry</b>	2,769.1	2,769.1	2,910.6	2,903.5
AA	Health research and health industry	2,769.1	2,769.1	2,910.6	2,903.5
AB	Radiation protection	0.0	0.0	0.0	0.0
<b>B</b>	<b>Bioeconomy</b>	283.4	283.4	296.4	296.4
<b>C</b>	<b>Civil security research</b>	78.2	78.2	78.7	78.7
<b>D</b>	<b>Nutrition, agriculture and consumer protection</b>	62.8	62.8	68.3	68.3
DA	Nutrition	5.4	5.4	5.5	5.5
DB	Sustainable agricultural economy and rural areas	53.1	53.1	58.5	58.5
DC	Health and economic consumer protection	4.3	4.3	4.3	4.3
<b>E</b>	<b>Energy research and energy technologies</b>	934.8	611.6	973.2	628.0
EA	Efficient energy conversion	194.2	194.2	186.8	186.8
EB	Renewable energy	312.5	312.5	336.7	336.7
EC	Nuclear safety and waste management	56.5	56.5	59.7	59.7
ED	Decommissioning of nuclear facilities	338.0	14.8	356.5	11.3
EF	Fusion research	33.5	33.5	33.5	33.5
<b>F</b>	<b>Climate, environment, sustainability</b>	1,264.8	1,264.8	1,288.7	1,288.7
FA	Climate, climate protection; global change	251.6	251.6	268.6	268.6
FB	Coast, marine and polar research, geosciences	523.3	523.3	497.2	497.2
FC	Environmental and sustainability research	254.2	254.2	278.0	278.0
FD	Ecology, nature conservation, sustainable use	235.7	235.7	244.9	244.9
<b>G</b>	<b>Information and communication technologies</b>	1,033.6	970.3	1,256.7	1,132.9
GA	Software systems; knowledge technologies	334.9	334.9	396.9	396.9
GB	Communication technologies and services	274.1	274.1	365.3	365.3
GC	Electronic, electronic systems	329.3	281.5	401.0	292.8
GD	Microsystems technology	52.3	52.3	50.9	50.9
GE	Multimedia, development of convergent information and communication technology	43.0	27.6	42.7	27.0
<b>H</b>	<b>Vehicle and traffic technologies including maritime technologies</b>	36.4	36.4	38.5	38.5
HA	Vehicle and traffic technologies	29.9	29.9	31.6	31.6
HB	Maritime technologies	6.5	6.5	6.9	6.9
<b>I</b>	<b>Aerospace</b>	123.6	123.6	138.7	138.7
IB	National space research and space technology	123.6	123.6	138.7	138.7
<b>J</b>	<b>Research and development to improve working conditions and in the service sector</b>	88.3	88.3	85.4	85.4
JA	Research to improve working conditions	60.6	60.6	62.0	62.0
JB	Research in the service sector	27.7	27.7	23.4	23.4
<b>K</b>	<b>Nanotechnologies and materials technologies</b>	735.8	735.8	815.2	815.2
KA	Nanotechnologies	290.4	290.4	292.5	292.5
KB	Materials technologies	445.4	445.4	522.7	522.7
<b>L</b>	<b>Optical technologies</b>	337.1	337.1	381.8	381.8
<b>M</b>	<b>Production technologies</b>	283.5	283.5	295.3	295.3
<b>N</b>	<b>Regional planning and urban development; construction research</b>	36.3	36.3	38.4	38.4
NA	Regional planning, urban development, housing	2.3	2.3	2.1	2.1
NB	Construction research	34.0	34.0	36.2	36.2

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**Expenditure on science, research and development by the Federal Ministry of Education and Research (BMBF), by funding areas and funding priorities<sup>1</sup>**

		Millions of €			
Funding area Funding priority		ACTUAL			
		2021		2022	
		Total	Of which, R&D	Total	Of which, R&D
<b>O</b>	<b>Innovations in education</b>	823.5	456.5	821.9	470.1
OA	Educational reporting, international assessments	271.6	138.1	372.3	160.2
OB	Educational research	519.8	286.2	429.5	289.8
OC	New media in the education	32.1	32.1	20.1	20.1
<b>P</b>	<b>Humanities; economics and social sciences</b>	1,092.6	1,092.6	1,030.0	1,030.0
PA	Humanities research	543.3	543.3	571.7	571.7
PB	Social scientific research	234.6	234.6	248.0	248.0
PC	Economic and finance scientific research	61.6	61.6	58.1	58.1
PD	Infrastructures	253.1	253.1	152.3	152.3
<b>Q</b>	<b>Innovation funding for SMEs</b>	99.1	99.1	240.5	240.5
QB	Technology support for SMEs	8.5	8.5	9.0	9.0
QC	Technology transfer and innovation consulting	90.6	90.6	231.5	231.5
<b>R</b>	<b>Innovation-relevant underlying conditions and other cross-cutting activities</b>	946.5	791.5	937.9	773.1
RA	Technology Assessment	5.0	5.0	4.9	4.9
RB	Structural cross-cutting activities	396.2	299.0	465.3	361.7
RC	Demographical change	82.8	82.8	85.2	85.2
RD	Sports promotion and sports research	0.5	0.5	0.2	0.2
RE	Others	462.0	404.2	382.2	321.0
<b>T</b>	<b>Funding organisations, restructuring of the research field in acceding areas; construction of universities and primarily university-specific special programmes</b>	2,743.6	811.6	2,889.0	930.8
TA	Basic funding of research institutions	-	-	-	-
TB	Others	2,743.6	811.6	2,889.0	930.8
<b>U</b>	<b>Large-scale equipment for basic research</b>	1,488.0	1,488.0	1,623.4	1,623.4
<b>Z</b>	<b>Global reduced expenditure; budget reserve<sup>3</sup></b>	-	-	-	-
<b>Total expenditure</b>		<b>15,261.2</b>	<b>12,420.6</b>	<b>16,208.6</b>	<b>13,257.6</b>

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**Expenditure on science, research and development by the Federal Ministry of Education and Research (BMBF), by funding areas and funding priorities<sup>1</sup>**

Millions of €					
Funding area Funding priority		ACTUAL		TARGET <sup>2</sup>	
		2023		2024	
		Total	Of which, R&D	Total	Of which, R&D
<b>A</b>	<b>Health research and health industry</b>	2,778.3	2,775.7	2,783.3	2,780.3
AA	Health research and health industry	2,778.3	2,775.7	2,783.3	2,780.3
AB	Radiation protection	0.0	0.0	0.0	0.0
<b>B</b>	<b>Bioeconomy</b>	271.5	271.5	238.9	238.9
<b>C</b>	<b>Civil security research</b>	83.2	83.2	79.5	79.5
<b>D</b>	<b>Nutrition, agriculture and consumer protection</b>	72.3	72.3	73.3	73.3
DA	Nutrition	5.9	5.9	5.9	5.9
DB	Sustainable agricultural economy and rural areas	62.1	62.1	63.0	63.0
DC	Health and economic consumer protection	4.4	4.4	4.4	4.4
<b>E</b>	<b>Energy research and energy technologies</b>	988.5	625.9	1,066.3	688.2
EA	Efficient energy conversion	189.6	189.6	425.4	425.4
EB	Renewable energy	330.4	330.4	172.2	172.2
EC	Nuclear safety and waste management	60.2	60.2	43.7	43.7
ED	Decommissioning of nuclear facilities	374.0	11.4	389.9	11.8
EF	Fusion research	34.3	34.3	35.0	35.0
<b>F</b>	<b>Climate, environment, sustainability</b>	1,351.5	1,351.5	1,454.7	1,454.7
FA	Climate, climate protection; global change	266.1	266.1	162.5	162.5
FB	Coast, marine and polar research, geosciences	576.1	576.1	772.3	772.3
FC	Environmental and sustainability research	283.7	283.7	345.6	345.6
FD	Ecology, nature conservation, sustainable use	225.6	225.6	174.3	174.3
<b>G</b>	<b>Information and communication technologies</b>	1,420.0	1,303.5	1,546.0	1,335.5
GA	Software systems; knowledge technologies	455.1	455.1	424.0	424.0
GB	Communication technologies and services	454.2	454.2	454.9	454.9
GC	Electronic, electronic systems	415.1	315.0	501.7	307.9
GD	Microsystems technology	51.7	51.7	120.8	120.8
GE	Multimedia, development of convergent information and communication technology	43.9	27.6	44.7	27.9
<b>H</b>	<b>Vehicle and traffic technologies including maritime technologies</b>	38.7	38.7	39.1	39.1
HA	Vehicle and traffic technologies	31.7	31.7	32.0	32.0
HB	Maritime technologies	7.0	7.0	7.1	7.1
<b>I</b>	<b>Aerospace</b>	135.5	135.5	137.1	137.1
IB	National space research and space technology	135.5	135.5	137.1	137.1
<b>J</b>	<b>Research and development to improve working conditions and in the service sector</b>	82.9	82.9	147.3	147.3
JA	Research to improve working conditions	61.7	61.7	138.2	138.2
JB	Research in the service sector	21.2	21.2	9.1	9.1
<b>K</b>	<b>Nanotechnologies and materials technologies</b>	798.8	798.8	791.0	791.0
KA	Nanotechnologies	301.6	301.6	419.1	419.1
KB	Materials technologies	497.2	497.2	371.8	371.8
<b>L</b>	<b>Optical technologies</b>	380.5	380.5	363.7	363.7
<b>M</b>	<b>Production technologies</b>	326.6	326.6	236.6	236.6
<b>N</b>	<b>Regional planning and urban development; construction research</b>	38.8	38.8	39.4	39.4
NA	Regional planning, urban development, housing	3.7	3.7	3.7	3.7
NB	Construction research	35.1	35.1	35.7	35.7

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**Expenditure on science, research and development by the Federal Ministry of Education and Research (BMBF), by funding areas and funding priorities<sup>1</sup>**

Millions of €				
Funding area Funding priority	ACTUAL		TARGET <sup>2</sup>	
	2023		2024	
	Total	Of which, R&D	Total	Of which, R&D
<b>O Innovations in education</b>	819.9	473.3	850.4	493.9
OA Educational reporting, international assessments	363.0	154.0	390.1	176.7
OB Educational research	443.2	305.7	424.6	281.5
OC New media in the education	13.7	13.7	35.6	35.6
<b>P Humanities; economics and social sciences</b>	1,077.0	1,077.0	1,095.0	1,095.0
PA Humanities research	610.8	610.8	694.5	694.5
PB Social scientific research	268.9	268.9	219.9	219.9
PC Economic and finance scientific research	61.9	61.9	57.2	57.2
PD Infrastructures	135.6	135.6	123.4	123.4
<b>Q Innovation funding for SMEs</b>	284.7	284.7	403.6	403.6
QB Technology support for SMEs	9.1	9.1	9.2	9.2
QC Technology transfer and innovation consulting	275.6	275.6	394.4	394.4
<b>R Innovation-relevant underlying conditions and other cross-cutting activities</b>	1,015.0	860.4	1,100.8	932.3
RA Technology Assessment	5.1	5.1	5.1	5.1
RB Structural cross-cutting activities	552.1	457.6	708.2	596.8
RC Demographical change	79.6	79.6	8.6	8.6
RD Sports promotion and sports research	0.2	0.2	0.2	0.2
RE Others	377.9	317.8	378.7	321.6
<b>T Funding organisations, restructuring of the research field in acceding areas; construction of universities and primarily university-specific special programmes</b>	2,972.6	936.1	3,080.5	909.0
TA Basic funding of research institutions	-	-	-	-
TB Others	2,972.6	936.1	3,080.5	909.0
<b>U Large-scale equipment for basic research</b>	1,660.0	1,660.0	1,696.2	1,696.2
<b>Z Global reduced expenditure; budget reserve<sup>3</sup></b>	-	-	-652.9	-652.9
<b>Total expenditure</b>	<b>16,596.3</b>	<b>13,577.0</b>	<b>16,570.0</b>	<b>13,281.7</b>

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. Discrepancies with regard to earlier publications are due to subsequent changes of assignments to funding areas and funding priorities or rather due to subsequent changes in the allocation to R&D. 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: November 21, 2024

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>