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Federal Government expenditure on science, research and development, by types of funding¹

Millions of €						
Type of funding	ACTUAL					
	2018		2019		2020	
	Total	Of which, R&D	Total	Of which, R&D	Total	Of which, R&D
1. Project funding and departmental research	10,631.2	7,624.3	11,693.6	8,711.7	13,039.2	10,030.6
1.1 Direct project funding and departmental research ³	9,768.0	6,761.0	10,780.7	7,798.8	12,074.3	9,065.7
1.2 Indirect research and innovation funding ⁴	863.2	863.2	912.9	912.9	964.9	964.9
2. Basic funding of institutions including federal institutions with research and development tasks	9,544.8	8,071.9	10,058.9	8,484.9	10,680.3	9,069.2
2.1 Research and science organisations, of which:	6,917.3	6,716.6	7,210.9	7,012.3	7,728.0	7,518.3
German Research Foundation (DFG)	1,317.9	1,317.9	1,382.1	1,382.1	1,448.3	1,448.3
Helmholtz Association of German Research Centres (HGF)	3,028.0	3,028.0	3,108.8	3,108.8	3,305.2	3,305.2
Leibniz Association (WGL) ⁵	679.2	662.8	721.2	703.6	768.9	750.7
2.2 Other non-profit organisations	596.1	313.3	646.9	350.3	635.1	351.1
2.3 Federal institutions with research and development tasks	2,031.3	1,041.9	2,201.1	1,122.3	2,317.2	1,199.8
3. University- and education-related funding⁶	1,215.8	331.1	1,193.0	315.5	525.8	326.5
4. Contributions and subsidies to international scientific organisations and intergovernmental institutions⁷	1,279.9	1,222.8	1,294.9	1,236.0	1,315.4	1,257.0
5. Global reduced expenditure of the BMBF (share for science and R&D)⁸	-	-	-	-	-	-
Total expenditure	22,671.7	17,250.0	24,240.4	18,748.1	25,560.7	20,683.3
For Information:						
Direct project funding and departmental research ^{3,9}	9,768.0	6,761.0	10,780.7	7,798.8	12,074.3	9,065.7
Of which:						
Federal Ministry for Economic Affairs and Climate Action	1,201.5	1,177.0	1,643.4	1,615.4	1,642.7	1,607.8
Federal Ministry of Defence	834.5	834.5	1,101.7	1,101.7	1,230.5	1,230.5
Federal Ministry of Education and Research	6,590.3	3,739.5	6,810.5	3,987.8	7,733.4	4,923.2

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Federal Government expenditure on science, research and development, by types of funding¹

Millions of €						
Type of funding	ACTUAL				TARGET	
	2021		2022		2023 ²	
	Total	Of which, R&D	Total	Of which, R&D	Total	Of which, R&D
1. Project funding and departmental research	13,015.8	10,045.7	14,283.2	11,203.4	17,865.2	14,368.2
1.1 Direct project funding and departmental research ³	11,960.2	8,990.4	13,200.1	10,120.9	16,670.6	13,173.6
1.2 Indirect research and innovation funding ⁴	1,055.6	1,055.3	1,083.1	1,082.5	1,194.6	1,194.6
2. Basic funding of institutions including federal institutions with research and development tasks	11,734.4	10,001.8	12,320.3	10,449.0	12,760.0	10,801.9
2.1 Research and science organisations, of which:	8,628.9	8,349.5	8,851.4	8,558.4	9,122.3	8,819.4
German Research Foundation (DFG)	1,930.3	1,930.3	1,984.3	1,984.3	2,039.9	2,039.9
Helmholtz Association of German Research Centres (HGF)	3,575.5	3,575.5	3,656.6	3,656.6	3,738.3	3,738.3
Leibniz Association (WGL) ⁵	811.8	791.6	820.1	799.7	888.0	866.2
2.2 Other non-profit organisations	747.0	397.7	896.9	543.8	959.4	603.9
2.3 Federal institutions with research and development tasks	2,358.5	1,254.6	2,572.0	1,346.8	2,678.3	1,378.6
3. University- and education-related funding⁶	589.7	363.3	513.9	399.7	534.9	407.2
4. Contributions and subsidies to international scientific organisations and intergovernmental institutions⁷	1,379.0	1,318.0	1,394.1	1,333.3	1,397.5	1,334.8
5. Global reduced expenditure of the BMBF (share for science and R&D)⁸	-	-	-	-	-484.0	-484.0
Total expenditure	26,718.8	21,728.9	28,511.5	23,385.4	32,073.7	26,428.0
For information:						
Direct project funding and departmental research ^{3,9}	11,960.2	8,990.4	13,200.1	10,120.9	16,670.6	13,173.6
Of which:						
Federal Ministry for Economic Affairs and Climate Action	1,718.0	1,679.0	1,792.1	1,754.9	3,198.6	3,152.8
Federal Ministry of Defence	1,521.8	1,521.8	1,889.6	1,889.6	1,726.4	1,726.4
Federal Ministry of Education and Research	7,045.1	4,279.3	7,611.2	4,741.4	8,067.2	5,068.7

1 Until 2022, including “Energy and climate fund”; as of 2023, including “Climate and transformation fund”. Possible deviations from earlier publications due to subsequent changes in the allocation to R&D or subsequent changes in the allocation to the types of funding are possible. Possible rounding differences.

2 Target expenditure 2023 including “Climate and transformation fund” but excluding other funds from section 60 “General financial management” - chapter 6002 “General appropriations”. These are collected retrospectively.

3 Including expenditure on orders for departmental and defence research and development. Excluding basic funding of federal institutions with research and development tasks.

4 Excluding tax measures (grants, special depreciations).

5 Including Land-owned institutions with research and development tasks that are jointly funded by the federal and Länder governments.

6 Including universities of the federal armed forces and the Federal University of Applied Administrative Sciences.

7 Located in Germany and abroad.

8 ACTUAL figures are needed to break down the BMBF's global reduced expenditure by types of funding.

9 The departments' scopes of responsibilities and their names correspond to the organisational division of the 20th legislative period's Federal Government. To ensure comparability between individual years, expenditures were retrospectively adjusted or implemented to reflect the current organizational division when there were changes in the allocation of responsibilities between government departments.

Last update: November 17, 2023

This table also appears in the Federal Report on Research and Innovation as Table 7.

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

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