

■ Table 1.2.3 1 / 2

**R&D expenditure of the Federal Government and the Länder, by research objectives<sup>1</sup>**

Budget appropriations in Millions of €					
Research objective	1993	2000	2010	2018	2019
1. Exploration and exploitation of the earth	440.2	280.4	384.8	494.2	564.2
2. Environment	603.8	542.3	635.6	854.0	923.0
3. Exploration and exploitation of space	935.2	768.0	1,086.4	1,506.1	1,526.4
4. Transport, telecommunications and other infrastructures	268.4	270.4	362.9	541.9	613.8
5. Energy	671.8	556.3	883.1	1,541.3	1,943.0
6. Industrial production and technology	1,992.0	2,002.0	3,326.8	3,966.9	4,133.6
7. Health	514.9	581.7	997.4	1,629.5	1,786.7
8. Agriculture	416.7	410.1	770.7	916.7	917.5
9. Education	-	-	238.6	472.0	485.9
10. Culture, recreation, religion and mass media	-	-	316.8	344.7	387.0
11. Political and social systems, structures and processes	-	-	403.8	603.1	653.2
<b>9.-11. Total of education, culture, recreation, religion, mass media, political and social systems, structures and processes</b>	<b>402.9</b>	<b>586.8</b>	<b>959.2</b>	<b>1,419.8</b>	<b>1,526.0</b>
12. General advancement of knowledge: R&D financed from General University Funds (GUF)	5,949.4	6,350.1	8,874.0	12,921.2	13,406.3
13. General advancement of knowledge: R&D financed from other sources than GUF <sup>3</sup>	2,456.8	2,621.2	3,723.7	4,935.4	5,175.2
Non-apportionable funds <sup>4</sup>	-	-	-142.6	-	-
<b>Total civil R&amp;D expenditure</b>	<b>-</b>	<b>14,986.5</b>	<b>21,862.0</b>	<b>30,727.2</b>	<b>32,515.8</b>
14. Defence	1,367.2	1,266.6	1,153.6	1,032.8	1,479.2
<b>Total</b>	<b>16,045.4</b>	<b>16,253.0</b>	<b>23,015.6</b>	<b>31,759.9</b>	<b>33,995.0</b>

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**R&D expenditure of the Federal Government and the Länder, by research objectives<sup>1</sup>**

Budget appropriations in Millions of €					
Research objective	2020	2021	2022	2023	2024 <sup>2</sup>
1. Exploration and exploitation of the earth	533.6	535.6	565.7	589.0	688.4
2. Environment	1,002.0	1,256.3	1,195.3	1,271.1	1,204.8
3. Exploration and exploitation of space	1,633.4	1,705.4	1,805.9	1,793.8	1,864.7
4. Transport, telecommunications and other infrastructures	691.7	914.5	1,055.0	1,197.0	1,094.6
5. Energy	2,135.0	2,241.8	2,750.0	2,711.7	2,450.6
6. Industrial production and technology	4,972.1	5,395.5	6,335.2	7,216.0	5,755.6
7. Health	2,770.2	2,823.1	2,846.1	2,513.2	2,274.3
8. Agriculture	1,028.5	1,121.6	1,112.4	1,092.7	1,108.1
9. Education	470.0	675.9	935.9	864.9	679.6
10. Culture, recreation, religion and mass media	415.9	459.0	319.3	462.9	474.1
11. Political and social systems, structures and processes	702.9	748.5	811.5	814.3	743.6
<b>9.-11. Total of education, culture, recreation, religion, mass media, political and social systems, structures and processes</b>	<b>1,588.7</b>	<b>1,883.4</b>	<b>2,066.8</b>	<b>2,142.0</b>	<b>1,897.4</b>
12. General advancement of knowledge: R&D financed from General University Funds (GUF)	13,852.4	15,130.8	15,020.8	15,112.5	15,661.4
13. General advancement of knowledge: R&D financed from other sources than GUF <sup>3</sup>	5,402.6	5,743.6	6,019.2	6,498.0	6,507.3
Non-apportionable funds <sup>4</sup>	-	-	-	-	-
<b>Total civil R&amp;D expenditure</b>	<b>35,610.2</b>	<b>38,751.5</b>	<b>40,772.2</b>	<b>42,137.1</b>	<b>40,507.2</b>
14. Defence	1,560.9	1,700.1	2,283.0	1,952.9	3,400.5
<b>Total</b>	<b>37,171.1</b>	<b>40,451.5</b>	<b>43,055.3</b>	<b>44,090.1</b>	<b>43,907.7</b>

<sup>1</sup> In keeping with the nomenclature for the analysis and comparison of scientific programmes and budgets (NABS) - edition 2007. For comparative purposes the data up to 2000 has been allocated to NABS 2007. 2010, including "Investment and redemption fund" (Investitions- und Tilgungsfonds) (economic stimulus package - Konjunkturpaket II). On the part of the Federal Government: 2018 to 2022, including "Energy and climate fund"; as of 2023, including "Climate and transformation fund".

<sup>2</sup> Provisional figures.

<sup>3</sup> Until 2000, including other civil expenditure.

<sup>4</sup> Global reduction in the expenditure of the Federal Ministry of Education and Research (BMBF) which cannot be assigned to research objectives 1 to 13 until ACTUAL figures are available. As of 2018, proportional distribution of this expenditure.

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This table also appears in the Federal Report on Research and Innovation as Table 9.

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

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