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Gross domestic expenditure on R&D (GERD) of the Federal Republic of Germany, by performing sectors

Millions of €						
Performing sectors ^{1 2}	1981	1991	2000	2010	2012	2013
Business enterprise sector³						
financed by						
Business enterprise sector	10,945	22,845	32,333	43,183	49,137	48,958
Government sector	2,260	2,640	2,448	2,096	2,339	1,800
Private non-profit sector	30	76	71	40	140	105
Abroad	159	685	748	1,610	2,174	2,703
Total	13,394	26,246	35,600	46,929	53,790	53,566
Government and private non-profit sector⁴						
financed by						
Business enterprise sector	35	71	151	927	1,174	1,222
Government sector	2,601	5,214	6,444	8,805	9,421	9,864
Private non-profit sector	49	120	137	124	168	141
Abroad	27	53	141	498	579	635
Total	2,712	5,457	6,873	10,354	11,341	11,862
Higher education sector⁵						
financed by						
Business enterprise sector	59	433	986	1,763	1,961	1,996
Government sector	3,255	5,713	7,169	10,360	11,351	11,534
Private non-profit sector	-	-	-	-	-	-
Abroad	-	-	198	609	668	771
Total	3,313	6,145	8,352	12,731	13,980	14,302
Gross domestic expenditure on R&D						
financed by						
Business enterprise sector	11,039	23,348	33,470	45,873	52,272	52,176
Government sector	8,116	13,567	16,061	21,260	23,111	23,198
Private non-profit sector	78	196	208	164	307	246
Abroad	186	738	1,086	2,716	3,420	4,110
Total	19,420	37,848	50,825	70,014	79,110	79,730
GERD in percent of GDP ⁶	2.43	2.40	2.41	2.73	2.88	2.84

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Gross domestic expenditure on R&D (GERD) of the Federal Republic of Germany, by performing sectors

Millions of €						
Performing sectors ^{1,2}	2014	2015	2016	2017	2018	2019
Business enterprise sector³						
financed by						
Business enterprise sector	52,093	54,704	56,386	62,214	65,204	66,856
Government sector	1,915	2,026	2,088	2,181	2,234	2,421
Private non-profit sector	112	162	167	88	91	113
Abroad	2,876	4,060	4,185	4,305	4,573	6,441
Total	56,996	60,952	62,826	68,787	72,101	75,830
Government and private non-profit sector⁴						
financed by						
Business enterprise sector	1,384	1,406	1,431	1,363	1,401	1,464
Government sector	10,136	10,262	10,459	11,161	11,746	12,463
Private non-profit sector	151	157	165	257	272	283
Abroad	649	661	665	703	749	811
Total	12,320	12,486	12,721	13,484	14,168	15,022
Higher education sector⁵						
financed by						
Business enterprise sector	2,111	2,129	2,299	2,307	2,484	2,599
Government sector	12,133	12,474	13,720	14,254	15,169	15,708
Private non-profit sector	-	-	-	-	-	-
Abroad	686	742	608	721	747	865
Total	14,930	15,344	16,627	17,282	18,400	19,173
Gross domestic expenditure on R&D						
financed by						
Business enterprise sector	55,589	58,239	60,116	65,884	69,090	70,919
Government sector	24,184	24,762	26,267	27,596	29,149	30,592
Private non-profit sector	263	319	332	344	362	396
Abroad	4,211	5,462	5,458	5,729	6,069	8,118
Total	84,246	88,782	92,174	99,554	104,669	110,025
GERD in percent of GDP ⁶	2.88	2.93	2.94	3.05	3.11	3.17

1 Data from surveys of the relevant performing sectors. In 1981, the former Federal Republic of Germany; as of 1991, all of Germany. Due to revision of the calculation method, the data up to 1991 are only partly comparable with data from later publications.

2 Figures for even years are partly estimated.

3 Companies and institutions for co-operative research; intramural R&D expenditures (OECD concept) of business enterprises; in 1981, including non-apportionable government funding; as of 2000, government R&D funding for business enterprises pursuant to figures of funding institutions -- Federal Government and Länder. Until 2010 the funding source data of the Stifterverband Wissenschaftsstatistik, which have been obtained from R&D-performing reporting units, differ from this, since the performing reporting units are not always able to clearly identify the original funding source.

4 Non-university institutions. Government: federal, Länder and municipal institutions with research and development tasks; as of 1981, Federal Government institutions; as of 1991, Länder institutions with their R&D shares only. As of 2000, modified survey procedure and expanded reporting scope. Until 2010, including external expenditure on research and development.

5 The increase of the expenditure on higher education is partly methodologically conditioned by the recalculation of R&D coefficients from 2016 onwards.

6 Date of GDP calculations: August 2021.

Last update: September 29, 2021

This table also appears in the Federal Report on Research and Innovation as Table 1.

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

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