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

	Millions of €					
Performing sectors <sup>1,2</sup>	1981	1991	1995	2000	2005	2010
<b>Business enterprise sector<sup>3</sup></b>						
financed by						
Business enterprise sector	10,945	22,845	23,470	32,333	35,585	43,183
Government sector	2,260	2,640	2,742	2,448	1,723	2,096
Private non-profit sector	30	76	20	71	66	40
Abroad	159	685	584	748	1,278	1,610
<b>Total</b>	<b>13,394</b>	<b>26,246</b>	<b>26,817</b>	<b>35,600</b>	<b>38,651</b>	<b>46,929</b>
<b>Government and private non-profit sector<sup>4</sup></b>						
financed by						
Business enterprise sector	35	71	214	151	777	927
Government sector	2,601	5,214	5,890	6,444	6,524	8,805
Private non-profit sector	49	120	83	137	98	124
Abroad	27	53	79	141	469	498
<b>Total</b>	<b>2,712</b>	<b>5,457</b>	<b>6,266</b>	<b>6,873</b>	<b>7,867</b>	<b>10,354</b>
<b>Higher education sector</b>						
financed by						
Business enterprise sector	59	433	673	986	1,363	1,763
Government sector	3,255	5,713	6,620	7,169	7,656	10,360
Private non-profit sector	-	-	-	-	-	-
Abroad	-	-	78	198	342	609
<b>Total</b>	<b>3,313</b>	<b>6,145</b>	<b>7,371</b>	<b>8,352</b>	<b>9,361</b>	<b>12,731</b>
<b>Gross domestic expenditure on R&amp;D</b>						
financed by						
Business enterprise sector	11,039	23,348	24,357	33,470	37,725	45,873
Government sector	8,116	13,567	15,252	16,061	15,902	21,260
Private non-profit sector	78	196	104	208	164	164
Abroad	186	738	741	1,086	2,089	2,716
<b>Total</b>	<b>19,420</b>	<b>37,848</b>	<b>40,454</b>	<b>50,825</b>	<b>55,879</b>	<b>70,014</b>
GERD in % of GDP <sup>5</sup>	2.43	2.40	2.13	2.40	2.43	2.71

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

	Millions of €					
Performing sectors <sup>1,2</sup>	2011	2012	2013	2014	2015	2016
<b>Business enterprise sector<sup>3</sup></b>						
financed by						
Business enterprise sector	46,659	49,137	48,958	52,093	54,704	56,386
Government sector	2,221	2,339	1,800	1,915	2,026	2,088
Private non-profit sector	133	140	105	112	162	167
Abroad	2,064	2,174	2,703	2,876	4,060	4,185
<b>Total</b>	<b>51,077</b>	<b>53,790</b>	<b>53,566</b>	<b>56,996</b>	<b>60,952</b>	<b>62,826</b>
<b>Government and private non-profit sector<sup>4</sup></b>						
financed by						
Business enterprise sector	1,019	1,174	1,222	1,384	1,406	1,431
Government sector	9,286	9,421	9,864	10,136	10,262	10,459
Private non-profit sector	131	168	141	151	157	165
Abroad	539	579	635	649	661	665
<b>Total</b>	<b>10,974</b>	<b>11,341</b>	<b>11,862</b>	<b>12,320</b>	<b>12,486</b>	<b>12,721</b>
<b>Higher education sector</b>						
financed by						
Business enterprise sector	1,884	1,961	1,996	2,111	2,129	2,299
Government sector	11,078	11,351	11,534	12,133	12,474	13,720
Private non-profit sector	-	-	-	-	-	-
Abroad	555	668	771	686	742	608
<b>Total</b>	<b>13,518</b>	<b>13,980</b>	<b>14,302</b>	<b>14,930</b>	<b>15,344</b>	<b>16,627</b>
<b>Gross domestic expenditure on R&amp;D</b>						
financed by						
Business enterprise sector	49,562	52,272	52,176	55,589	58,239	60,116
Government sector	22,585	23,111	23,198	24,184	24,762	26,267
Private non-profit sector	263	307	246	263	319	332
Abroad	3,158	3,420	4,110	4,211	5,462	5,458
<b>Total</b>	<b>75,569</b>	<b>79,110</b>	<b>79,730</b>	<b>84,246</b>	<b>88,782</b>	<b>92,174</b>
GERD in % of GDP <sup>5</sup>	2.80	2.87	2.82	2.87	2.92	2.92

1 Data from surveys of the relevant performing sectors. Until 1990, 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; until 1990, including non-apportionable government funding; as of 1992, 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 1985, Länder institutions with their R&D shares only. As of 1992, modified survey procedure; in 1995, the reporting scope was expanded; in 2005, modified calculation method. 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 Revision September 2018.

Last update: February 2019

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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