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**Expenditure of non-university science institutions, by fields of science<sup>1</sup>**

Millions of €							
Type of institution	Year (ACTUAL)	Total expenditure	Of which,				
			Natural sciences <sup>2</sup>	Engineering <sup>2</sup>	Medicine	Agricultural sciences	Social sciences and humanities
1. Helmholtz-Centres (national research institutions)	2002	2,357	1,262	864	207	z	z
	2010	3,208	1,681	1,081	415	z	z
	2015	4,190	2,307	1,165	695	z	z
	2016	4,099	2,180	1,150	736	z	z
	2017	4,285	2,147	1,342	764	z	z
	2018	4,405	2,269	1,327	776	z	z
	Of which, R&D expenditure	2002	2,348	1,253	864	207	z
	2010	3,208	1,681	1,081	415	z	z
	2015	4,178	2,295	1,165	695	z	z
	2016	4,087	2,169	1,150	736	z	z
	2017	4,272	2,135	1,342	764	z	z
	2018	4,391	2,257	1,326	776	z	z
2. Max-Planck-Institutes <sup>3</sup> (100% R&D)	2002	1,132	894	z	88	z	139
	2010	1,537	1,276	z	60	z	177
	2015	1,831	1,486	z	z	z	208
	2016	1,903	1,574	58	z	z	206
	2017	2,026	1,649	81	60	z	z
	2018	1,993	1,619	86	z	z	z
	3. Fraunhofer-Institutes (100% R&D)	2002	1,047	308	700	z	z
2010		1,625	471	1,033	z	19	z
2015		2,085	474	1,413	120	16	62
2016		2,122	450	1,449	103	z	z
2017		2,293	476	1,581	110	48	78
2018		2,562	590	1,710	121	z	74
4. Institutions of the Leibniz Association		2002	937	495	z	84	z
	2010	1,359	772	132	127	52	275
	2015	1,547	759	173	166	69	380
	2016	1,627	815	145	169	79	418
	2017	1,738	862	171	159	83	463
	2018	1,808	861	217	163	82	484
	Of which, R&D expenditure	2002	797	444	z	76	z
	2010	1,209	720	91	118	51	229
	2015	1,344	695	115	159	65	310
	2016	1,354	698	110	160	71	315
	2017	1,477	735	139	155	77	370
	2018	1,567	765	174	160	79	389

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			Natural sciences <sup>2</sup>	Engineering <sup>2</sup>	Medicine	Agricultural sciences	Social sciences and humanities
5. Public institutions (excluding libraries, archives and museums; excluding institutions of the Leibniz Association)	2002	2,003	816	336	191	461	199
	2010	2,806	920	733	366	592	194
	2015	3,076	1,109	795	388	583	201
	2016	3,245	1,172	868	389	595	221
	2017	3,409	1,239	911	409	623	227
	2018	2,922	1,152	486	412	634	239
	Of which, R&D expenditure	2002	800	233	85	63	285
	2010	1,176	284	157	140	476	119
	2015	1,253	316	190	149	442	156
	2016	1,389	422	207	153	449	159
	2017	1,471	449	229	156	469	168
	2018	1,439	435	201	155	472	177
6. Scientific libraries, archives and museums (excluding institutions of the Leibniz Association)	2002	808	50	z	z	z	729
	2010	1,097	81	22	11	7	977
	2015	1,190	71	12	11	7	1,090
	2016	1,183	70	14	11	7	1,082
	2017	1,406	84	13	17	12	1,280
	2018	1,430	91	13	18	13	1,295
	Of which, R&D expenditure	2002	251	21	z	z	z
	2010	412	40	7	1	1	363
	2015	440	37	1	2	1	399
	2016	444	37	1	2	1	403
	2017	491	27	1	2	1	459
	2018	511	29	1	5	4	472
7. Other research institutions <sup>4</sup>	2002	1,146	347	z	42	z	347
	2010	1,368	421	z	z	46	449
	2015	1,627	349	z	z	59	z
	2016	1,866	361	548	181	63	711
	2017	1,940	391	545	196	64	744
	2018	2,192	447	595	267	70	814
	Of which, R&D expenditure	2002	958	318	z	37	z
	2010	1,187	374	z	z	34	370
	2015	1,355	304	z	z	44	z
	2016	1,421	329	487	99	46	457
	2017	1,454	358	466	110	48	472
	2018	1,705	424	515	178	55	534

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Millions of €							
Type of institution	Year (ACTUAL)	Total expenditure	Of which,				
			Natural sciences <sup>2</sup>	Engineering <sup>2</sup>	Medicine	Agricultural sciences	Social sciences and humanities
<b>8. Total</b>	<b>2002</b>	<b>9,431</b>	<b>4,172</b>	<b>2,431</b>	<b>636</b>	<b>562</b>	<b>1,629</b>
	<b>2010</b>	<b>12,999</b>	<b>5,623</b>	<b>3,426</b>	<b>1,092</b>	<b>730</b>	<b>2,129</b>
	<b>2015</b>	<b>15,547</b>	<b>6,555</b>	<b>4,155</b>	<b>1,601</b>	<b>743</b>	<b>2,493</b>
	<b>2016</b>	<b>16,045</b>	<b>6,623</b>	<b>4,232</b>	<b>1,648</b>	<b>799</b>	<b>2,744</b>
	<b>2017</b>	<b>17,097</b>	<b>6,848</b>	<b>4,644</b>	<b>1,714</b>	<b>840</b>	<b>3,050</b>
	<b>2018</b>	<b>17,312</b>	<b>7,029</b>	<b>4,434</b>	<b>1,813</b>	<b>857</b>	<b>3,179</b>
Of which, Eastern German Länder and Berlin	<b>2002</b>	<b>2,777</b>	1,243	587	166	199	582
	<b>2010</b>	<b>4,043</b>	1,766	943	328	273	734
	<b>2015</b>	<b>4,609</b>	1,972	951	551	267	869
	<b>2016</b>	<b>4,820</b>	1,986	1,004	576	272	982
	<b>2017</b>	<b>5,227</b>	2,094	1,147	z	z	1,102
	<b>2018</b>	<b>5,477</b>	2,188	1,170	z	298	z
<b>Of which, R&amp;D expenditure</b>	<b>2002</b>	<b>7,333</b>	3,470	2,080	487	372	924
	<b>2010</b>	<b>10,354</b>	4,847	2,757	843	594	1,314
	<b>2015</b>	<b>12,486</b>	5,609	3,419	1,272	577	1,609
	<b>2016</b>	<b>12,721</b>	5,679	3,462	1,312	621	1,645
	<b>2017</b>	<b>13,484</b>	5,830	3,839	1,357	653	1,805
	<b>2018</b>	<b>14,168</b>	6,119	4,013	1,450	667	1,919
Of which, Eastern German Länder and Berlin	<b>2002</b>	<b>2,095</b>	1,056	489	147	129	274
	<b>2010</b>	<b>3,163</b>	1,542	736	272	232	381
	<b>2015</b>	<b>3,632</b>	1,723	783	458	213	456
	<b>2016</b>	<b>3,731</b>	1,744	825	468	216	478
	<b>2017</b>	<b>4,038</b>	1,837	945	z	z	540
	<b>2018</b>	<b>4,306</b>	1,931	1,024	z	237	z
<b>For information:</b>							
Federal institutions performing R&D	<b>2002</b>	<b>1,527</b>	707	291	z	213	z
	<b>2010</b>	<b>2,357</b>	822	697	367	342	129
	<b>2015</b>	<b>2,582</b>	1,004	725	388	330	135
	<b>2016</b>	<b>2,741</b>	1,071	795	389	342	145
	<b>2017</b>	<b>2,887</b>	1,137	833	409	356	152
	<b>2018</b>	<b>2,370</b>	1,049	409	z	350	z
Of which, R&D expenditure	<b>2002</b>	<b>600</b>	203	73	z	173	z
	<b>2010</b>	<b>940</b>	262	148	140	306	84
	<b>2015</b>	<b>1,034</b>	296	171	149	295	124
	<b>2016</b>	<b>1,181</b>	403	184	153	307	133
	<b>2017</b>	<b>1,250</b>	431	204	156	320	139
	<b>2018</b>	<b>1,196</b>	413	176	z	314	z

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			Natural sciences <sup>2</sup>	Engineering <sup>2</sup>	Medicine	Agricultural sciences	Social sciences and humanities
Länder and local government institutions performing R&D (including institutions of the Leibniz Association)	2002	585	164	45	25	249	102
	2010	521	137	46	13	251	75
	2015	498	105	70	0	253	69
	2016	504	101	73	0	253	77
	2017	522	102	78	0	268	75
	2018	552	103	77	z	284	z
Of which, R&D expenditure	2002	298	76	11	24	113	74
	2010	274	47	11	4	170	42
	2015	222	20	19	0	147	36
	2016	209	19	23	0	142	26
	2017	222	19	25	0	149	29
	2018	243	22	25	z	158	z
University institutions	2002	448	176	142	z	z	77
	2010	680	295	206	60	8	110
	2015	758	177	307	52	11	211
	2016	809	172	322	63	11	240
	2017	831	180	313	66	11	262
	2018	898	189	347	71	11	281
Of which, R&D expenditure	2002	386	159	108	z	z	67
	2010	576	263	171	58	7	77
	2015	650	154	267	50	10	169
	2016	652	151	278	61	9	154
	2017	651	157	252	63	9	169
	2018	753	180	303	69	9	191

z = value not stated for reasons of confidentiality, but included in the total.

1 Including funds that cannot be divided up among the Länder.

2 As of 2015, changes of the classification of scientific branches and fields: engineering includes informatics.

3 Including legally independent institutes.

4 Including academies.

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Source: Special evaluation of the Federal Statistical Office

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