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Expenditure of non-university science institutions, by fields of science¹

Millions of €							
Type of institution	Year (ACTUAL)	Total expenditure	Of which,				
			Natural sciences ²	Engineering ²	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
	2017	4,285	2,147	1,342	764	z	z
	2018	4,405	2,269	1,327	776	z	z
	2019	4,726	2,530	1,302	858	z	z
	2020	4,931	2,534	1,425	930	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
	2017	4,272	2,135	1,342	764	z	z
	2018	4,391	2,257	1,326	776	z	z
	2019	4,711	2,517	1,301	857	z	z
	2020	4,916	2,521	1,424	930	z	z
2. Max-Planck-Institutes ³ (100% R&D)	2002	1,132	894	z	88	z	139
	2010	1,537	1,276	z	60	z	177
	2017	2,026	1,649	81	60	z	z
	2018	1,993	1,619	86	z	z	z
	2019	2,101	1,686	94	68	z	91
	2020	2,197	1,771	97	73	z	z
	Of which, R&D expenditure	2002	1,132	894	z	88	z
	2010	1,537	1,276	z	60	z	177
	2017	2,026	1,649	81	60	z	z
	2018	1,993	1,619	86	z	z	z
	2019	2,101	1,686	94	68	z	91
	2020	2,197	1,771	97	73	z	z
3. Fraunhofer-Institutes (100% R&D)	2002	1,047	308	700	z	z	z
	2010	1,625	471	1,033	z	19	z
	2017	2,293	476	1,581	110	48	78
	2018	2,562	590	1,710	121	z	74
	2019	2,749	638	1,835	126	54	96
	2020	2,887	706	1,908	140	53	79
	Of which, R&D expenditure	2002	1,047	308	700	z	z
	2010	1,625	471	1,033	z	19	z
	2017	2,293	476	1,581	110	48	78
	2018	2,562	590	1,710	121	z	74
	2019	2,749	638	1,835	126	54	96
	2020	2,887	706	1,908	140	53	79
4. Institutions of the Leibniz Association	2002	937	495	z	84	z	186
	2010	1,359	772	132	127	52	275
	2017	1,738	862	171	159	83	463
	2018	1,808	861	217	163	82	484
	2019	1,924	863	223	176	122	539
	2020	1,972	875	254	190	118	535
	Of which, R&D expenditure	2002	797	444	z	76	z
	2010	1,209	720	91	118	51	229
	2017	1,477	735	139	155	77	370
	2018	1,567	765	174	160	79	389
	2019	1,647	778	173	171	115	410
	2020	1,693	792	201	184	110	406

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Expenditure of non-university science institutions, by fields of science¹

Millions of €							
Type of institution	Year (ACTUAL)	Total expenditure	Of which,				
			Natural sciences ²	Engineering ²	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
	2017	3,409	1,239	911	409	623	227
	2018	2,922	1,152	486	412	634	239
	2019	3,147	1,251	559	412	678	248
	2020	3,269	1,230	635	472	663	270
	Of which, R&D expenditure	2002	800	233	85	63	285
	2010	1,176	284	157	140	476	119
	2017	1,471	449	229	156	469	168
	2018	1,439	435	201	155	472	177
	2019	1,519	477	234	148	480	180
	2020	1,582	467	269	174	478	194
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
	2017	1,406	84	13	17	12	1,280
	2018	1,430	91	13	18	13	1,295
	2019	1,555	100	14	19	14	1,409
	2020	1,545	102	13	18	13	1,399
	Of which, R&D expenditure	2002	251	21	z	z	z
	2010	412	40	7	1	1	363
	2017	491	27	1	2	1	459
	2018	511	29	1	5	4	472
	2019	548	32	1	5	4	505
	2020	541	33	1	5	4	498
7. Other research institutions ⁴	2002	1,146	347	z	42	z	347
	2010	1,368	421	z	z	46	449
	2017	1,940	391	545	196	64	744
	2018	2,192	447	595	267	70	814
	2019	2,194	486	619	227	54	808
	2020	2,235	510	648	213	58	806
	Of which, R&D expenditure	2002	958	318	z	37	z
	2010	1,187	374	z	z	34	370
	2017	1,454	358	466	110	48	472
	2018	1,705	424	515	178	55	534
	2019	1,748	467	539	130	38	575
	2020	1,773	489	566	114	41	563

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Expenditure of non-university science institutions, by fields of science¹

Millions of €							
Type of institution	Year (ACTUAL)	Total expenditure	Of which,				
			Natural sciences ²	Engineering ²	Medicine	Agricultural sciences	Social sciences and humanities
8. Total	2002	9,431	4,172	2,431	636	562	1,629
	2010	12,999	5,623	3,426	1,092	730	2,129
	2017	17,097	6,848	4,644	1,714	840	3,050
	2018	17,312	7,029	4,434	1,813	857	3,179
	2019	18,397	7,554	4,646	1,886	931	3,380
	2020	19,037	7,728	4,980	2,037	911	3,381
Of which, Eastern German Länder and Berlin	2002	2,777	1,243	587	166	199	582
	2010	4,043	1,766	943	328	273	734
	2017	5,227	2,094	1,147	z	z	1,102
	2018	5,477	2,188	1,170	z	298	z
	2019	5,767	2,315	1,240	z	z	1,216
	2020	5,885	2,328	1,295	z	z	z
Of which, R&D expenditure	2002	7,333	3,470	2,080	487	372	924
	2010	10,354	4,847	2,757	843	594	1,314
	2017	13,484	5,830	3,839	1,357	653	1,805
	2018	14,168	6,119	4,013	1,450	667	1,919
	2019	15,022	6,595	4,177	1,505	700	2,046
	2020	15,589	6,779	4,465	1,621	693	2,031
Of which, Eastern German Länder and Berlin	2002	2,095	1,056	489	147	129	274
	2010	3,163	1,542	736	272	232	381
	2017	4,038	1,837	945	z	z	540
	2018	4,306	1,931	1,024	z	237	z
	2019	4,478	2,027	1,078	z	z	598
	2020	4,576	2,048	1,119	z	z	z
For information:							
Federal institutions performing R&D	2002	1,527	707	291	z	213	z
	2010	2,357	822	697	367	342	129
	2017	2,887	1,137	833	409	356	152
	2018	2,370	1,049	409	z	350	z
	2019	2,558	1,153	469	z	373	60
	2020	2,707	1,138	547	z	387	z
Of which, R&D expenditure	2002	600	203	73	z	173	z
	2010	940	262	148	140	306	84
	2017	1,250	431	204	156	320	139
	2018	1,196	413	176	z	314	z
	2019	1,274	456	203	z	329	58
	2020	1,351	448	238	z	341	z

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Expenditure of non-university science institutions, by fields of science¹

Millions of €							
Type of institution	Year (ACTUAL)	Total expenditure	Of which,				
			Natural sciences ²	Engineering ²	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
	2017	522	102	78	0	268	75
	2018	552	103	77	z	284	z
	2019	589	98	90	z	305	83
	2020	563	92	88	z	275	z
Of which, R&D expenditure	2002	298	76	11	24	113	74
	2010	274	47	11	4	170	42
	2017	222	19	25	0	149	29
	2018	243	22	25	z	158	z
	2019	245	21	31	z	151	30
	2020	231	19	30	z	137	z
University institutions	2002	448	176	142	z	z	77
	2010	680	295	206	60	8	110
	2017	831	180	313	66	11	262
	2018	898	189	347	71	11	281
	2019	911	181	351	87	12	279
	2020	976	196	393	89	13	285
Of which, R&D expenditure	2002	386	159	108	z	z	67
	2010	576	263	171	58	7	77
	2017	651	157	252	63	9	169
	2018	753	180	303	69	9	191
	2019	753	170	300	84	10	189
	2020	806	181	338	86	11	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 2017, 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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