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Regional distribution of R&D expenditure in the Federal Republic of Germany (implementation) and of government R&D expenditure by the Länder (financing)

Land	Year	Implementation of R&D			Financing of R&D			Per capita of the population ² €
		Expenditure		Share of gross domestic product ¹	Expenditure		Share of gross domestic product ¹	
		Millions of €	in %	in %	Millions of €	in %	in %	
Baden-Württemberg	2007	15,683	25.5	4.16	1,139	14.1	0.30	106
	2014	21,469	25.5	4.85	1,542	14.1	0.35	144
	2015	22,733	25.6	4.91	1,652	14.6	0.36	152
	2016	23,451	25.4	4.94	1,725	13.9	0.36	157
	2017	27,910	28.0	5.61	1,744	13.7	0.35	158
	2018	29,179	27.9	5.65	1,791	13.3	0.35	162
	2019	30,275	27.5	5.75	1,857	13.1	0.35	167
Bavaria	2007	12,210	19.9	2.82	1,343	16.7	0.31	107
	2014	16,701	19.8	3.13	1,853	16.9	0.35	146
	2015	17,359	19.6	3.13	1,898	16.7	0.34	148
	2016	18,059	19.6	3.13	2,013	16.3	0.35	156
	2017	18,704	18.8	3.09	2,060	16.2	0.34	159
	2018	19,689	18.8	3.17	2,248	16.8	0.36	172
	2019	21,706	19.7	3.37	2,402	17.0	0.37	183
Berlin	2007	2,868	4.7	3.03	543	6.7	0.57	159
	2014	4,281	5.1	3.61	690	6.3	0.58	199
	2015	4,411	5.0	3.53	725	6.4	0.58	206
	2016	4,552	4.9	3.42	811	6.6	0.61	227
	2017	4,758	4.8	3.37	774	6.1	0.55	214
	2018	5,111	4.9	3.41	805	6.0	0.54	221
	2019	5,237	4.8	3.33	845	6.0	0.54	230
Brandenburg	2007	652	1.1	1.23	181	2.2	0.34	71
	2014	1,006	1.2	1.58	239	2.2	0.37	97
	2015	1,092	1.2	1.67	234	2.1	0.36	94
	2016	1,159	1.3	1.72	273	2.2	0.40	109
	2017	1,195	1.2	1.69	281	2.2	0.40	112
	2018	1,220	1.2	1.68	292	2.2	0.40	116
	2019	1,358	1.2	1.78	292	2.1	0.38	116
Bremen	2007	587	1.0	2.17	94	1.2	0.35	142
	2014	852	1.0	2.86	140	1.3	0.47	211
	2015	873	1.0	2.86	140	1.2	0.46	209
	2016	912	1.0	2.91	149	1.2	0.48	220
	2017	909	0.9	2.81	144	1.1	0.44	211
	2018	947	0.9	2.87	156	1.2	0.47	229
	2019	1,006	0.9	3.04	165	1.2	0.50	242
Hamburg	2007	1,667	2.7	1.82	241	3.0	0.26	136
	2014	2,453	2.9	2.37	351	3.2	0.34	199
	2015	2,423	2.7	2.24	338	3.0	0.31	189
	2016	2,513	2.7	2.27	374	3.0	0.34	207
	2017	2,500	2.5	2.14	368	2.9	0.32	201
	2018	2,635	2.5	2.21	424	3.2	0.36	230
	2019	2,699	2.5	2.17	423	3.0	0.34	229
Hesse	2007	5,674	9.2	2.51	526	6.5	0.23	87
	2014	7,314	8.7	2.88	731	6.7	0.29	120
	2015	7,403	8.3	2.84	824	7.3	0.32	133
	2016	7,752	8.4	2.86	938	7.6	0.35	151
	2017	8,182	8.2	2.92	913	7.2	0.33	146
	2018	8,622	8.2	3.01	956	7.1	0.33	153
	2019	9,131	8.3	3.09	1,034	7.3	0.35	165

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		Expenditure		Share of gross domestic product ¹	Expenditure		Share of gross domestic product ¹	
		Millions of €	in %	in %	Millions of €	in %	in %	
Mecklenburg-Western Pomerania	2007	463	0.8	1.40	143	1.8	0.43	85
	2014	732	0.9	1.86	208	1.9	0.53	130
	2015	753	0.8	1.88	206	1.8	0.52	128
	2016	759	0.8	1.85	216	1.7	0.53	134
	2017	785	0.8	1.78	222	1.7	0.50	138
	2018	810	0.8	1.83	232	1.7	0.52	144
	2019	846	0.8	1.77	259	1.8	0.54	161
Lower Saxony	2007	5,156	8.4	2.39	717	8.9	0.33	90
	2014	7,363	8.7	2.84	957	8.7	0.37	122
	2015	8,867	10.0	3.39	993	8.8	0.38	125
	2016	9,156	9.9	3.26	1,095	8.8	0.39	138
	2017	8,928	9.0	3.10	1,193	9.4	0.41	150
	2018	9,316	8.9	3.13	1,241	9.2	0.42	155
	2019	9,636	8.8	3.10	1,289	9.1	0.41	161
North Rhine-Westphalia	2007	9,481	15.4	1.73	1,516	18.8	0.28	84
	2014	12,555	14.9	2.03	2,302	21.0	0.37	131
	2015	12,689	14.3	1.99	2,345	20.7	0.37	131
	2016	13,231	14.4	2.03	2,597	21.0	0.40	145
	2017	14,336	14.4	2.11	2,704	21.3	0.40	151
	2018	15,189	14.5	2.16	2,908	21.7	0.41	162
	2019	15,528	14.1	2.17	3,107	22.0	0.43	173
Rhineland-Palatinate	2007	1,951	3.2	1.81	308	3.8	0.28	76
	2014	2,759	3.3	2.16	435	4.0	0.34	108
	2015	3,188	3.6	2.40	451	4.0	0.34	111
	2016	3,374	3.7	2.48	502	4.1	0.37	123
	2017	3,498	3.5	2.50	529	4.2	0.38	130
	2018	3,680	3.5	2.57	548	4.1	0.38	134
	2019	3,831	3.5	2.61	475	3.4	0.32	116
Saarland	2007	325	0.5	1.04	89	1.1	0.29	86
	2014	472	0.6	1.42	113	1.0	0.34	115
	2015	535	0.6	1.57	148	1.3	0.43	149
	2016	534	0.6	1.56	143	1.2	0.42	144
	2017	619	0.6	1.75	148	1.2	0.42	149
	2018	624	0.6	1.74	133	1.0	0.37	134
	2019	674	0.6	1.88	159	1.1	0.44	161
Saxony	2007	2,407	3.9	2.60	527	6.5	0.57	125
	2014	2,891	3.4	2.64	581	5.3	0.53	143
	2015	3,099	3.5	2.73	571	5.0	0.50	140
	2016	3,203	3.5	2.73	638	5.2	0.54	156
	2017	3,400	3.4	2.79	678	5.3	0.56	166
	2018	3,595	3.4	2.87	662	4.9	0.53	162
	2019	3,864	3.5	2.96	724	5.1	0.55	178
Saxony-Anhalt	2007	589	1.0	1.18	228	2.8	0.46	95
	2014	816	1.0	1.45	283	2.6	0.50	127
	2015	810	0.9	1.41	288	2.5	0.50	128
	2016	860	0.9	1.46	310	2.5	0.53	139
	2017	919	0.9	1.51	345	2.7	0.57	155
	2018	980	0.9	1.58	354	2.6	0.57	160
	2019	990	0.9	1.53	337	2.4	0.52	154

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		Millions of €	in %	in %	Millions of €	in %	in %	
Schleswig-Holstein	2007	849	1.4	1.20	231	2.9	0.33	82
	2014	1,287	1.5	1.55	243	2.2	0.29	86
	2015	1,277	1.4	1.51	252	2.2	0.30	88
	2016	1,342	1.5	1.53	293	2.4	0.33	102
	2017	1,448	1.5	1.56	298	2.3	0.32	103
	2018	1,556	1.5	1.64	344	2.6	0.36	119
	2019	1,657	1.5	1.66	430	3.0	0.43	148
Thuringia	2007	881	1.4	1.89	227	2.8	0.49	99
	2014	1,195	1.4	2.13	276	2.5	0.49	128
	2015	1,183	1.3	2.06	279	2.5	0.49	128
	2016	1,225	1.3	2.08	302	2.4	0.51	140
	2017	1,362	1.4	2.23	318	2.5	0.52	148
	2018	1,424	1.4	2.29	326	2.4	0.52	152
	2019	1,489	1.4	2.33	339	2.4	0.53	159
Länder, total³	2007	61,501	100.0	2.46	8,054	100.0	0.32	98
	2014	84,246	100.0	2.88	10,945	100.0	0.37	135
	2015	88,782	100.0	2.93	11,345	100.0	0.37	138
	2016	92,174	100.0	2.94	12,379	100.0	0.39	150
	2017	99,554	100.0	3.05	12,719	100.0	0.39	154
	2018	104,669	100.0	3.11	13,420	100.0	0.40	162
	2019	110,025	100.0	3.17	14,137	100.0	0.41	170

1 Date of GDP calculations: November 2021/February 2022.

2 Reference day of population data: 31 December. As of 2014, population data are based upon the 2011 Census.

3 Including non-apportionable funds.

Last update: June 22, 2022

Source: Special evaluation of the Stifterverband Wissenschaftsstatistik and the Federal Ministry of Education and Research, Federal Statistical Office (special evaluation and GENESIS-Online Datenbank: Fortschreibung des Bevölkerungsstandes); Working group "Regional Accounts", "Reihe 1, Länderergebnisse Band 1"; calculations of the German Centre for Higher Education Research and Science Studies

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<https://www.govdata.de/dl-de/by-nc-1-0>