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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 <sup>2</sup>
		Expenditure		Share of gross domestic product <sup>1</sup>	Expenditure		Share of gross domestic product <sup>1</sup>	
		Millions of €	in %	in %	Millions of €	in %	in %	
Baden-Württemberg	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	5.76	1,857	13.1	0.35	167
	2020	28,758	27.0	5.65	1,955	13.1	0.38	176
Bavaria	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
	2020	21,000	19.7	3.33	2,519	16.9	0.40	192
Berlin	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	3.42	805	6.0	0.54	221
	2019	5,237	4.8	3.33	845	6.0	0.54	230
	2020	5,135	4.8	3.28	953	6.4	0.61	260
Brandenburg	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	1.79	292	2.1	0.38	116
	2020	1,379	1.3	1.82	307	2.1	0.41	121
Bremen	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	2.88	156	1.2	0.47	229
	2019	1,006	0.9	3.03	165	1.2	0.50	242
	2020	1,196	1.1	3.72	176	1.2	0.55	259
Hamburg	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	2.16	423	3.0	0.34	229
	2020	2,651	2.5	2.21	473	3.2	0.39	255
Hesse	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
	2020	8,744	8.2	3.03	1,047	7.0	0.36	166

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		Expenditure		Share of gross domestic product <sup>1</sup>	Expenditure		Share of gross domestic product <sup>1</sup>	
		Millions of €	in %	in %	Millions of €	in %	in %	
Mecklenburg-Western Pomerania	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	1.78	259	1.8	0.54	161
	2020	842	0.8	1.79	260	1.7	0.55	161
Lower Saxony	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
	2020	9,238	8.7	3.04	1,306	8.8	0.43	163
North Rhine-Westphalia	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	2.16	3,107	22.0	0.43	173
	2020	15,237	14.3	2.15	3,315	22.3	0.47	185
Rhineland-Palatinate	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
	2020	3,666	3.4	2.54	488	3.3	0.34	119
Saarland	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
	2020	662	0.6	1.91	165	1.1	0.48	168
Saxony	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	0.56	178
	2020	3,852	3.6	2.99	786	5.3	0.61	194
Saxony-Anhalt	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
	2020	999	0.9	1.56	371	2.5	0.58	170

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		Millions of €	in %	in %	Millions of €	in %	in %	
Schleswig-Holstein	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
	2020	1,601	1.5	1.61	398	2.7	0.40	137
Thuringia	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
	2020	1,529	1.4	2.42	374	2.5	0.59	177
<b>Länder, total<sup>3</sup></b>	<b>2014</b>	<b>84,246</b>	<b>100.0</b>	<b>2.88</b>	<b>10,945</b>	<b>100.0</b>	<b>0.37</b>	<b>135</b>
	<b>2015</b>	<b>88,782</b>	<b>100.0</b>	<b>2.93</b>	<b>11,345</b>	<b>100.0</b>	<b>0.37</b>	<b>138</b>
	<b>2016</b>	<b>92,174</b>	<b>100.0</b>	<b>2.94</b>	<b>12,379</b>	<b>100.0</b>	<b>0.39</b>	<b>150</b>
	<b>2017</b>	<b>99,554</b>	<b>100.0</b>	<b>3.05</b>	<b>12,719</b>	<b>100.0</b>	<b>0.39</b>	<b>154</b>
	<b>2018</b>	<b>104,669</b>	<b>100.0</b>	<b>3.11</b>	<b>13,420</b>	<b>100.0</b>	<b>0.40</b>	<b>162</b>
	<b>2019</b>	<b>110,025</b>	<b>100.0</b>	<b>3.17</b>	<b>14,137</b>	<b>100.0</b>	<b>0.41</b>	<b>170</b>
	<b>2020</b>	<b>106,583</b>	<b>100.0</b>	<b>3.13</b>	<b>14,893</b>	<b>100.0</b>	<b>0.44</b>	<b>179</b>

1 Date of gross domestic product (GDP) calculations: August 2022/February 2023.

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

3 Including non-apportionable funds.

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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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