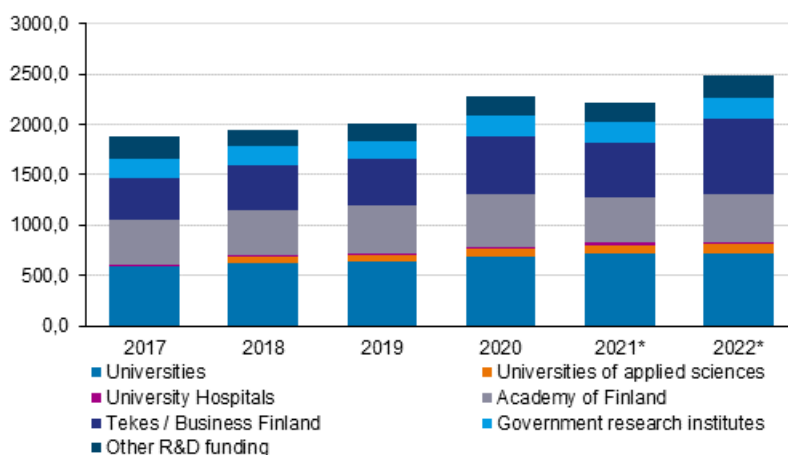


# Government R&D funding in the state budget in 2022

## R&D funding grows in the 2022 budget

According to Statistics Finland, appropriations for research and development in the state budget increase by EUR 271.8 million relative to the budget for 2021. In the state budget 2022, the total appropriations for research and development activities amount to EUR 2,488.5 million. The share of public research funding in gross domestic product is estimated to be 0.95 per cent.

### Government R&D funding by organisation in 2017 to 2022



\*data may become revised based on supplementary budgets.  
Prior to 2018, universities of applied sciences are in the category Other R&D funding

Business Finland's research and development funding is EUR 741.1 million in the 2022 budget, which includes funding from the EU's Recovery and Resilience Facility (RRF) amounting to EUR 234 million. The transfers of outlays caused by disruption funding have been removed from the R&D funding of Business Finland in 2021, so Business Finland's R&D funding grows by around EUR 200 million in the 2022 budget from the previous year. The R&D funding of the Academy of Finland is EUR 476.9 million in the 2022 budget, growing by around EUR 28 million from the year before. Universities' R&D funding falls somewhat in the 2022 budget and amounts to EUR 721.9 million. R&D funding for universities of applied sciences, in turn, grows and totals EUR 90.3 million in the 2022 budget. R&D funding of central

government research institutes grows by EUR 4.3 million in the 2022 budget and funding of university hospitals remains on the same level, at around EUR 20 million.

Among administrative sectors, research and development activities are financed most by the Ministry of Education and Culture and the Ministry of Economic Affairs and Employment. The major provider of funding is the Ministry of Education and Culture, whose R&D funding in the budget for 2022 is EUR 1,354.5 million. The increase from the appropriations in the budget one year before is EUR 55.6 million. Appropriations for R&D funding under the Ministry of Economic Affairs and Employment grow by EUR 206.7 million in the 2022 budget and total EUR 883.0 million.

### Government budget allocations for R&D (GBARD) in 2022

	R&D funding € million	Share of R&D funding, %	Change from 2021, € million
<b>R&amp;D funding total</b>	<b>2 488,5</b>	<b>100</b>	<b>271,8</b>
<b>Main administrative sector</b>			
Ministry of Education and Culture	1 354,5	54	55,6
Ministry of Employment and the Economy	883,0	35	206,7
Ministry of Agriculture and Forestry	72,0	3	2,5
Ministry of Social Affairs and Health	70,2	3	2,4
<b>Funding organisations</b>			
Universities	721,9	29	-2,2
Universities of applied sciences	90,3	4	9,6
Business Finland	741,1	30	200,7
Academy of Finland	476,9	19	27,9
Government research institutes	215,6	9	4,3
Other R&D funding	222,9	9	32,5
University hospitals	20,0	1	-1,0

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# Appendix tables

**Appendix table 1. Development of central government's total expenditure and funding of R&D activities in 2015 to 2022**

Year <sup>1)</sup>	Central government expenditure (EUR million)	Central government expenditure excluding debt servicing (EUR million)	R&D funding (EUR million)	Share of R&D funding in central government expenditure, % <sup>3)</sup>	Central government expenditure, change from previous year %	Central government expenditure excluding debt, change from previous year %	R&D funding, change from previous year %
2015	53,700	52,170	2,001.6	3.8	-1.0	-0.7	0.0
2016	54,419	52,898	1,836.4	3.5	1.3	1.4	-8.3
2017	55,042	53,711	1,885.9	3.5	1.1	1.5	2.7
2018	55,242	54,092	1,951.0	3.6	0.4	0.7	3.5
2019	55,306	54,113	2,008.9	3.7	0.1	0.0	3.0
2020	67,074	66,171	2,286.6	3.5	21.3	22.3	13.8
2021 <sup>2)</sup>	64,197	63,432	2,216.8	3.5	-4.3	-4.1	-3.1
2022 <sup>2)</sup>	64,780	64,252	2,488.5	3.9	0.9	1.3	12.3

1) 2015-2020: State budget + supplementary budgets, 2021-2022: State budget.

2) Data may become revised based on supplementary budgets.

3) Share of funding in Central government expenditure (excluding debt servicing).

**Appendix table 2. Central government R&D funding and total expenditure by administrative sector in 2021 and 2022**

Administrative sector	R&D funding / Central government expenditure (EUR million)								
	R&D funding, EUR Million			Administrative sector's expenditure			R&D funding, share of administrative sector's expenditures		
	2021	2022	change, mill.€	2021	2022	change, mill.€	2021	2022	change, percentage points
Prime Minister's Office	10.6	9.1	-1.5	221.7	223.3	1.6	4.8	4.1	-0.7
the Parliament of Finland	3.9	4.3	0.4	128.6	133.5	4.9	3.0	3.2	0.2
Ministry for Foreign Affairs	4.2	6.7	2.5	1,288.1	1,317.7	29.6	0.3	0.5	0.2
Ministry of Justice	1.1	1.1	0.0	1,005.2	1,021.8	16.5	0.1	0.1	0.0
Ministry of the Interior	0.5	0.6	0.1	1,567.8	1,566.9	-0.8	0.0	0.0	0.0
Ministry of Defence	45.9	44.5	-1.4	4,873.3	5,101.3	228.1	0.9	0.9	-0.1
Ministry of Finance	5.1	5.4	0.3	19,467.9	21,391.1	1,923.2	0.0	0.0	0.0
Ministry of Education and Culture	1,298.9	1,354.5	55.6	7,012.1	7,407.7	395.6	18.5	18.3	-0.2
Ministry of Agriculture and Forestry	69.5	72.0	2.5	2,628.3	2,714.8	86.4	2.6	2.7	0.0
Ministry of Transport and Communications	14.5	17.0	2.6	3,485.6	3,533.5	47.9	0.4	0.5	0.1
Ministry of Economic Affairs and Employment	676.3	883.0	206.7	3,828.9	3,635.3	-193.6	17.7	24.3	6.6
Ministry of Social Affairs and Health	67.8	70.2	2.4	17,603.1	15,852.6	-1,750.5	0.4	0.4	0.1
Ministry of the Environment	18.6	20.3	1.7	302.9	325.3	22.4	6.1	6.2	0.1

Administrative sector	R&D funding / Central government expenditure (EUR million)								
	R&D funding. EUR Million			Administrative sector's expenditure			R&D funding, share of administrative sector's expenditures		
	2021	2022	change, mill.€	2021	2022	change, mill.€	2021	2022	change, percentage points
<b>TOTAL</b> <sup>1)</sup>	<b>2,216.8</b>	<b>2,488.5</b>	<b>271.8</b>	<b>63,413.4</b>	<b>64,224.7</b>	<b>811.4</b>	<b>3.5</b>	<b>3.9</b>	<b>0.4</b>

1) Total expenditure of administrative sector, excl. debt servicing and main category President of the Republic (unlike in appendix table 1).

### Appendix table 3. Central government R&D funding by administrative sector in 2021 and 2022

Administrative sector / Organisation	R&D funding			
	EUR million /2021	EUR million /2022	Change 2021-2022/EUR million	Change 2021-2022 . %
<b>Ministry of Education and Culture</b>	1,298.9	1,354.5	55.6	4.3
Universities	724.0	721.9	-2.2	-0.3
Universities of applied sciences	80.7	90.3	9.6	11.9
Academy of Finland	449.0	476.9	27.9	6.2
Other	45.2	65.5	20.3	45.0
<b>Ministry of Economic Affairs and Employment</b>	676.3	883.0	206.7	30.6
Business Finland	540.4	741.1	200.7	37.1
Government research institutions	99.2	97.1	-2.1	-2.1
Other	36.6	44.8	8.1	22.2
<b>Ministry of Social Affairs and Health</b>	67.8	70.2	2.4	3.5
Government research institutions	23.4	25.3	1.8	7.8
University Hospitals	21.0	20.0	-1.0	-4.8
Other	23.4	24.9	1.5	6.6
<b>Ministry of Agriculture and Forestry</b>	69.5	72.0	2.5	3.6
Government research institutions	59.3	63.0	3.7	6.2
Other	10.1	8.9	-1.2	-12.0
<b>Ministry of Defence</b>	45.9	44.5	-1.4	-3.1
<b>Ministry of Transport and Communications</b>	14.5	17.0	2.6	17.8
Government research institutions	9.2	9.0	-0.2	-1.8
Other	5.3	8.0	2.8	52.4
<b>Ministry of the Environment</b>	18.6	20.3	1.7	9.2
Government research institutions	13.0	13.5	0.6	4.3
Other	5.6	6.8	1.2	20.6
<b>Ministry for Foreign Affairs</b>	4.2	6.7	2.5	58.3
<b>Ministry of Finance</b>	5.1	5.4	0.3	6.5
Government research institutions	3.5	3.5	0.1	2.6
Other	1.6	1.8	0.2	15.0
<b>the Parliament of Finland</b>	3.9	4.3	0.4	9.7
<b>Ministry of Justice</b>	1.1	1.1	0.0	0.9
<b>Ministry of the Interior</b>	0.5	0.6	0.1	9.4
<b>Prime Minister's Office</b>	10.6	9.1	-1.5	-14.3
<b>TOTAL</b>	<b>2,216.8</b>	<b>2,488.5</b>	<b>271.8</b>	<b>12.3</b>

**Appendix table 4. Government research institutes' budget-funded R&D activities in 2021 and 2022**

Government research institution	EUR Million /2021	EUR Million /2022	Change 2021-2022 /EUR Million	Change 2021-2022 . %
Finnish Institute of International Affairs	3.7	4.1	0.4	10.3
VATT Institute for Economic Research	3.5	3.5	0.1	2.6
Natural Resources Institute Finland	54.5	57.0	2.5	4.6
Finnish Food Authority	0.4	2.2	1.8	402.3
National Land Survey of Finland	4.4	3.8	-0.6	-13.2
Finnish Meteorological Institute	9.2	9.0	-0.2	-1.8
Geological Survey of Finland	3.3	5.4	2.1	63.5
VTT Technical Research Centre of Finland Ltd	95.9	91.7	-4.2	-4.4
STUK - Radiation and Nuclear Safety Authority	0.9	1.3	0.4	41.8
Finnish Institute for Health and Welfare	14.5	15.0	0.5	3.1
Finnish Institute of Occupational Health	8.0	9.0	1.0	12.5
Finnish Environment Institute	13.0	13.5	0.6	4.3
<b>TOTAL</b>	<b>211.3</b>	<b>215.6</b>	<b>4.3</b>	<b>2.0</b>

**Appendix table 5. Government research institutes' budget-funded R&D activities and total R&D funding in 2022**

Government research institution	Budgetary funding (EUR Million)	External funding, total (EUR Million)	External funding, share %	EU-funding (EUR Million)	R&D funding, total (EUR Million)
Finnish Institute of International Affairs	4.1	1.2	22.7	0.3	5.3
VATT Institute for Economic Research	3.5	1.4	28.9	0.1	5.0
Natural Resources Institute Finland	57.0	40.0	41.2	6.5	97.0
Finnish Food Authority	2.2	0.9	28.9	0.2	3.1
National Land Survey of Finland	3.8	5.6	59.3	0.5	9.4
Finnish Meteorological Institute	9.0	17.4	65.8	5.5	26.5
Geological Survey of Finland	5.4	10.8	66.7	2.3	16.2
VTT Technical Research Centre of Finland Ltd	91.7	159.8	63.5	38.0	251.5
STUK - Radiation and Nuclear Safety Authority	1.3	0.2	15.8	0.2	1.5
National Institute for Health and Welfare	15.0	18.0	54.6	4.0	33.0
Finnish Institute of Occupational Health	9.0	9.0	50.0	2.5	18.0
Finnish Environment Institute	13.5	23.6	63.6	3.1	37.1
<b>TOTAL</b>	<b>215.6</b>	<b>288.0</b>	<b>57.2</b>	<b>63.1</b>	<b>503.6</b>

**Appendix table 6. Central government R&D funding by administrative sector in 2015 to 2022**

Administrative sector	2015	2016	2017	2018	2019	2020	2021 <sup>1)</sup>	2022 <sup>1)</sup>
the Parliament of Finland	3.6	3.6	3.6	3.6	3.6	3.8	3.9	4.3
Prime Minister's Office	6.1	10.7	10.7	10.7	10.7	10.9	10.6	9.1
Ministry for Foreign Affairs	15.2	9.9	7.4	7.9	6.1	5.5	4.2	6.7
Ministry of Justice	2.0	1.4	1.2	1.0	0.8	1.1	1.1	1.1
Ministry of the Interior	0.2	0.2	0.3	0.5	0.5	0.5	0.5	0.6
Ministry of Defence	36.4	34.7	40.9	46.8	48.9	44.3	45.9	44.5
Ministry of Finance	6.9	5.6	5.1	5.4	5.1	5.2	5.1	5.4
Ministry of Education and Culture	1,089.9	1,112.3	1,123.3	1,163.0	1,205.9	1,337.8	1,298.9	1,354.5
Ministry of Agriculture and Forestry	94.9	72.1	71.3	54.8	55.8	58.4	69.5	72.0
Ministry of Transport and Communications	34.8	24.4	19.5	18.7	14.1	15.1	14.5	17.0
Ministry of Economic Affairs and Employment	615.0	477.2	516.2	552.0	577.7	702.1	676.3	883.0
Ministry of Social Affairs and Health	82.4	73.0	75.5	76.2	71.2	83.6	67.8	70.2
Ministry of the Environment	14.3	11.5	11.1	10.7	8.4	18.3	18.6	20.3
<b>TOTAL</b>	<b>2,001.6</b>	<b>1,836.4</b>	<b>1,885.9</b>	<b>1,951.0</b>	<b>2,008.8</b>	<b>2,286.6</b>	<b>2,216.8</b>	<b>2,488.5</b>

1) Data may become revised based on supplementary budgets.

**Appendix table 7. Central government R&D funding by organisation in 2015 to 2022**

Organisation	2015	2015	2017	2018	2019	2020	2021 <sup>1)</sup>	2022 <sup>1)</sup>
Universities	578.0	585.5	587.1	615.6	630.5	690.4	724.0	721.9
Universities of applied sciences <sup>2)</sup>	..	..	..	66.4	67.6	72.9	80.7	90.3
University Hospitals	21.7	18.0	15.0	21.0	23.8	21.0	21.0	20.0
Academy of Finland	415.5	439.0	449.5	442.7	469.8	524.8	449.0	476.9
Tekes / Business Finland	485.7	369.6	409.5	452.3	464.0	575.6	540.4	741.1
Government research institutes	257.9	196.6	196.5	190.6	184.7	210.3	211.3	215.6
Other R&D funding	242.8	227.7	228.3	162.4	168.5	191.6	190.3	222.9
<b>TOTAL</b>	<b>2,001.6</b>	<b>1,836.4</b>	<b>1,885.9</b>	<b>1,951.0</b>	<b>2,008.9</b>	<b>2,286.6</b>	<b>2,216.8</b>	<b>2,488.5</b>

1) Data may become revised based on supplementary budgets.

2) Prior to 2018, universities of applied sciences are in the category Other R&D funding.

**Appendix table 8. Central government R&D funding by socioeconomic objective in 2015 to 2022**

Socioeconomic objective (NABS 2007)	2015	2016	2017	2018	2019	2020	2021 <sup>1)</sup>	2022 <sup>1)</sup>
Agriculture	96.7	76.3	72.8	56.8	57.1	60.2	69.9	68.7
Industrial production and technology	332.4	295.2	330.1	383.0	381.6	490.3	497.0	576.8
Energy	177.5	69.7	55.7	48.8	65.7	64.4	60.6	108.2
Transport, telecommunication and other infrastructures	33.0	28.4	36.8	29.1	37.4	37.5	29.5	62.2
Defence	37.3	35.5	41.7	47.5	49.7	45.2	47.7	46.4
Exploration and exploitation of the earth	24.6	21.4	22.7	22.8	18.8	15.3	14.9	14.6
Environment	22.1	43.3	47.9	49.9	46.5	68.0	61.7	108.5
Health	71.5	54.7	59.6	56.9	62.2	63.7	50.3	52.8
Education	6.7	3.1	3.1	1.6	1.8	6.2	6.8	11.1
Culture, recreation, religion and mass media	29.1	16.4	10.3	10.2	9.6	9.2	10.2	9.9
Political and social systems, structures and processes	86.9	67.8	72.7	73.4	61.2	78.1	52.8	63.1
General advancement of knowledge: R&D financed from other sources than GUF	480.0	516.3	522.1	528.4	563.5	630.3	560.5	607.7
General advancement of knowledge: R&D financed from General University Funds (GUF)	578.0	586.8	588.8	619.8	630.5	690.4	724.0	721.9
Exploration and exploitation of space	25.8	21.5	21.7	22.7	23.2	27.8	30.9	36.8
<b>TOTAL</b>	<b>2,001.6</b>	<b>1,836.4</b>	<b>1,885.9</b>	<b>1,951.0</b>	<b>2,008.8</b>	<b>2,286.6</b>	<b>2,216.8</b>	<b>2,488.5</b>

1) Data may become revised based on supplementary budgets.



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