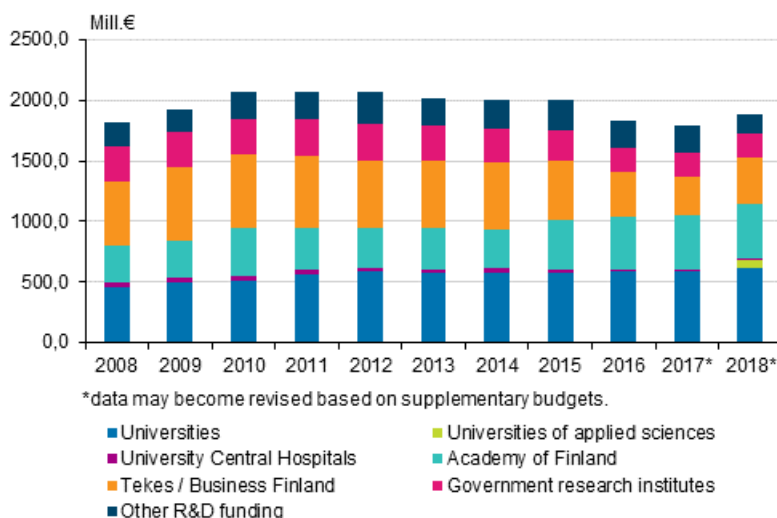


Government R&D funding in the state budget 2018

R&D funding grows in the 2018 budget

According to Statistics Finland, allocations for research and development increase in the government budget by EUR 85.7 million from the year before. In the 2018 government budget, the appropriations for R&D activities amount to EUR 1,883.2 million. The share of public research funding in gross domestic product will, however, remain on level with the previous year and is an estimated 0.80 per cent.

Government R&D funding by organisation in 2008 to 2018



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

Examined by organisation, the majority of government R&D funding is directed to universities. In the 2018 budget, the R&D funding of universities totals EUR 615.6 million, which has grown by around five per cent from the 2017 budget. The shares of R&D funding of universities and the Academy of Finland have increased since 2008, while the R&D funding of other organisations has decreased from the level seen ten years ago. The R&D funding of the Academy of Finland is EUR 444.1 million in the 2018 budget, which means that the R&D funding decreased by EUR 5.4 million from the appropriations in 2017. The R&D funding of Business Finland, in turn, grows in the 2018 budget and is an estimated EUR 391.3

million. The R&D funding of government research institutes has declined in recent years and totals EUR 189.1 in 2018.

The biggest financier of research and development activity among administrative sectors is the Ministry of Education and Culture, whose R&D funding is EUR 1,164.4 million in the 2018 budget. The sum grows by EUR 41.1 million from the 2017 budget. The R&D funding of the Ministry of Economic Affairs and Employment also grows by EUR 61.9 million to EUR 491.0 million which is mainly caused by the increase in the R&D funding of Business Finland. Among other administrative sectors, the R&D funding of, for example, the Ministry of Social Affairs and Health and the Ministry of Agriculture and Forestry decrease in the 2018 budget.

Government budget allocations for R&D (GBARD) in 2018

	R&D funding € million	Share of R&D funding, %	Change from 2017, € million	Real change from 2017, %
R&D funding total	1 883,2	100,0	85,7	3,3
Main administrative branches (ministries)				
Ministry of Education and Culture	1 164,4	61,8	41,1	2,2
Ministry of Employment and the Economy	491,0	26,1	61,9	12,8
Ministry of Agriculture and Forestry	53,6	2,8	-16,4	-24,5
Ministry of Social Affairs and Health	69,9	3,7	-5,5	-8,6
Funding organisations				
Universities	615,6	32,7	28,5	3,4
Universities of applied sciences ¹⁾	66,3	3,5	-	-
Business Finland	391,3	20,8	69,1	19,8
Academy of Finland	444,1	23,6	-5,4	-2,6
Government research institutes	189,1	10,0	-6,1	-4,5
Other R&D funding	161,8	8,6	-66,7	-30,2
University central hospitals	15,0	0,8	0,0	-1,4

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

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Government budget allocations for R&D (GBARD) in 2018

1. Context for research and development funding

Public funding of research and development (R&D) activities create preconditions for the renewal of the economy and industrial structure. The main reason for publicly funded R&D is its considerable social and financial externalities. Research and innovation (R&I) policy, in turn, strengthens international competitiveness, wellbeing of citizens and the preconditions for environmentally sustainable growth. The objective is to ensure sufficient R&D funding in key targets and actions that promote the economy and employment in the long term.

Policy measures are controlled by the national government programme and its key projects (2015 to 2019), as well as the policy of the Research and Innovation Council¹⁾ (2015 to 2020). In the public finance plan for 2018 to 2021, the Government decided on revisions to the innovation systems and investment in strengthening R&D investments. Financing will be directed at key targets in terms of the economy that support renewal and growth.

2. General development of government R&D funding

The total budget appropriations and outlays for research and development in the 2018 budget amount to EUR 1,883.2 million. The appropriations increase by EUR 85.7 million from 2017, which translates to a 4.8 per cent nominal and 3.3 per cent real growth. The proportion of funds allocated to R&D activities of overall government spending exclusive of debt servicing is 3.5 per cent.

Even though government R&D funding grows slightly in 2018, the research intensity remains on last year's level as GDP grows faster than this. Thus, the GDP share of public R&D funding is an estimated²⁾ 0.80 per cent in 2018. The GDP share of EU and OECD countries has been around 0.70 per cent in recent years.

Table 1. Central government R&D funding and its share in government expenditure in 2017 and 2018¹⁾

	EUR million	EUR million	Change %		
	2017	2018	EUR million	Nom. %	Real. %
Total R&D funding	1 797,5	1 883,2	85,7	4,8	3,3
Total Central government expenditure	55 236,0	55 675,0	438,5	0,8	0,0
Central government expenditure excluding debt servicing	53 929,0	54 443,0	514,0	1,0	0,2
R&D funding share of Central government expenditure (excluding debt servicing)	3,3	3,5			

1) The data of both years are based on the budgets and do not cover supplementary budgets etc.

3. Funding of research and development activities by administrative sector

Among administrative sectors, research and development activities are financed most in the Ministry of Education and Culture, EUR 1,164.4 million in total. The research funding of the Ministry of Education and Culture corresponds with over 60 per cent of the entire government R&D funding. The appropriations of the administrative sector increase by EUR 41.1 million, a majority of which is the result of growth in the R&D funding of universities and universities of applied sciences. The R&D funding of the Ministry of Economic Affairs and Employment also grows, by EUR 61.9 million which is mainly caused by the increase in the R&D funding of Business Finland. Among other important administrative sectors in terms of R&D funding, for example, the R&D funding of the Ministry of Agriculture and Forestry decreases by

1) Inventive Finland: direction for the research and innovation policy for 2015 to 2020 Research and Innovation Council 5 November 2014.

2) GDP 2017 and 2018, Ministry of Finance's estimates.

EUR 16.4 million, and that of the Ministry of Social Affairs and Health by EUR 5.5 million in the 2018 budget.

The ministries that hand out most R&D funding, the Ministry of Education and Culture and the Ministry of Economic Affairs and Employment, are also the most R&D intensive ministries. In all, 17.7 per cent of the Ministry of Education and Culture's expenditure and 17.3 per cent of the Ministry of Economic Affairs and Employment's expenditure are directed at research and development activities. The average R&D intensity of administrative sectors in 2018 is 3.5. The Ministry of Finance and the Ministry of the Interior have the lowest R&D intensities.

4. R&D funding by organisation

The funding for Business Finland's (former Tekes) R&D activities grows by an estimated 21 per cent to EUR 391.3 million. The growth is the result of both increased appropriations and a bigger emphasis on the funding of research and development activities. The appropriations used by the Academy of Finland on research decrease by EUR 5.4 million to EUR 444.1 million.

Universities' research activities are financed with EUR 615.6 million. Universities have the highest proportion of the total government R&D funding, around 33 per cent. The share of the Academy of Finland is 24 per cent and that of Business Finland is 21 per cent of the entire government R&D funding. Central government research institutes get ten per cent and the share of funding divided between other administration is nine per cent. The R&D funding of universities of applied sciences is EUR 66.3 million in the 2018 budget, which corresponds with a share of around four per cent of government R&D funding. Among organisations, university central hospitals receive the smallest share of around one per cent.

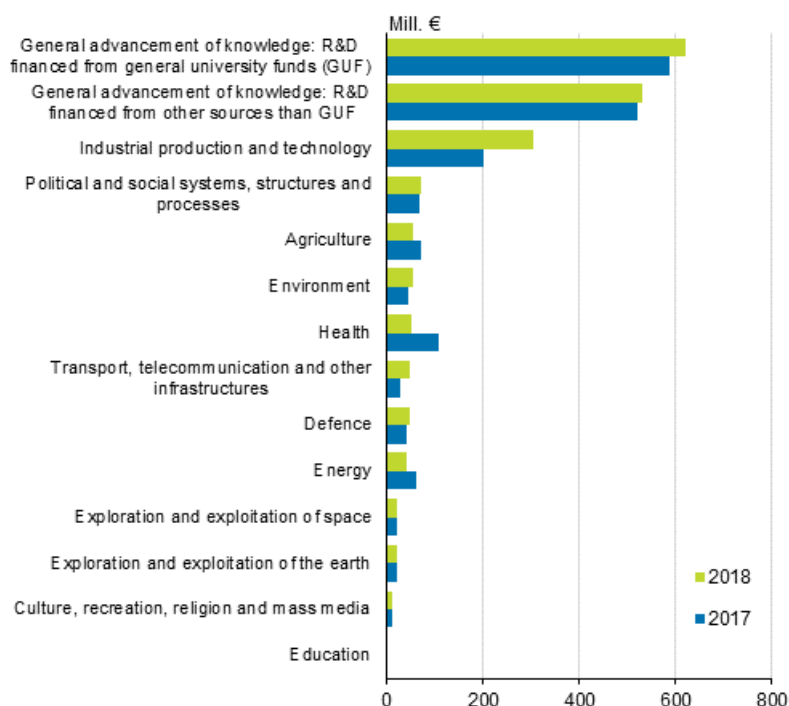
In addition to appropriations from the Ministry of Social Affairs and Health, Finland's five university special catchment areas also receive funding from other sources. The university special catchment areas coordinate the funding of research projects in their hospital district and receive funding from municipalities as membership subscriptions that are used for R&D activities. As a separate item from the national budget, university special catchment areas reserve total around EUR 27.1 million in their own budget for health research in 2018

5. R&D funding by socioeconomic objectives

A majority of government R&D funding is directed to universities' research and development activities and general advancement of science. Research funding directed at promoting industry grows by EUR 102.3 million to EUR 303.4 million in the 2018 budget. R&D funding allocated to the health care objective category decreases to one-half from one year ago and totals EUR 51.2 million in 2018.

In other objective categories, the R&D funding allocated to energy decreases by EUR 19.3 million amounting to EUR 42.4 million in the 2018 budget. The appropriations for, e.g. the objective categories environmental protection and land use, transport systems and other infrastructure grow from the budget one year ago.

Figure 1. Government budget allocations for R&D in 2017 to 2018 by socioeconomic objective



6. Transnationally co-ordinated R&D activities

R&D funding directed at international research organisations or international R&D programmes³⁾ is EUR 86.0 million in the 2018 government budget. International R&D funding remained almost at the same level as last year. EUR 52.5 million are allocated to Europe wide R&D programmes between countries that are arranged, for example, within the framework of H2020 (Horizon 2020 The EU Framework Programme for Research and Innovation). European international research organisations, such as CERN, the European Organization for Nuclear Research receive EUR 19.2 million in research funding from the government budget. Slightly over EUR ten million are directed at bilateral and multilateral R&D programmes between the governments of EU countries, which include, for example, joint Nordic research funding. In total, these EUR 82.2 million implement the so-called European research area ERA concept, whose aim is to develop the research of certain technologies in EU Member States from nation state based to Europe wide. The remaining EUR 3.9 million are directed at other international players for projects that have no ERA dimension. The total sum of government funding for internationally coordinated research and development activities has remained at the same level in recent years.

7. R&D funding of government research institutes

The main task of government research institutes⁴⁾ is to acquire, produce and disseminate data as basis for political decision-making and development of society. In addition to research duties, the institutes have a varying number of different expertise, supervision, training, guidance and other official functions, charged and other service activities and so on. Research institutes produce services horizontally to many different administrative branches and the rest of the public sector, as well as enterprises and third sector operators.

In addition to budget appropriations, the R&D activities of research institutes is financed by external funding consisting of income from charged services and funding from elsewhere than the institute's own budget classes. External funding mainly comes on a competitive basis from several sources and from both domestic public and private sectors and international sources. Its amount is based on the institutes' performance targets and is thus estimated.

3) Programmes or organisations where research and development (R&D) is the main type of activity.

4) Incl. the non-profit special assignment state enterprise VTT Oy.

Budget funded R&D activities of government research institutes

The total amount of R&D funding for research institutes from their own administrative branches' budgets for 2018 was EUR 189.1 million. Budget funding decreased by around three per cent or EUR 6.1 million from the 2017 budget. Among research institutes, most funds for R&D activities was received by VTT, the Technical Research Centre of Finland and the Natural Resources Institute Finland, LUKE. LUKE's R&D funding grew by EUR one million and VTT's declined by EUR 0.5 million from the 2017 budget.

Total research funding and EU funding of research institutes

Total R&D funding for research institutes (budget funding and external funding) is EUR 453.9 million in 2018, which is nearly EUR ten million less than in 2017. The share of external financing is nearly 60 per cent of research institutes' total funding. VTT, the Technical Research Centre of Finland received most external funding, the external funding share of VTT is close on 70 per cent.

EUR 264.8 million of research institutes' total research and development activity funding is funding from outside the government budget. The amount of external financing decreased by EUR 3.8 million from the 2017 budget. Research institutes estimate that they will receive EUR 52.9 million in research funding from the EU, which is EUR 0.8 million more than one year ago. VTT's share of EU funding is the largest, EUR 32 million.

Research institutes' R&D funding by administrative sector

The research intensity of administrative sectors can, next to the funding share of actual R&D activities also be assessed by how significant a role research institutes have in the activities of each administrative branch. The social role of the administrative sectors of universities and the Ministry of Education in the field of science and research is qualitatively different and, thus, they are not included in the comparison.

An average of 31 per cent of the R&D funds of the key administrative sectors in terms of research activities is spent in their research institutes. The most research intensive administrative sectors in 2018 are the Ministry of Agriculture and Forestry and the Ministry of Transport and Communications. The Ministry of Economic Affairs and Employment, a majority of whose R&D funding is Business Finland's funding, in turn, has the lowest research intensity.

Appendix tables

Appendix table 1. Development of central government's total expenditure and funding of R&D activities in 2010 to 2018¹⁾

Year	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, % ²⁾	Central government expenditure, real change, %	Central government expenditure excluding debt, real change, %	R&D funding, real change, %
2010	49 880.0	48 013.0	2 065.3	4.3	6.4	6.6	7.1
2011	50 382.0	48 475.0	2 071.7	4.3	-1.5	-1.5	-2.7
2012	53 446.0	51 582.0	2 064.2	4.0	2.7	3.0	-3.6
2013	54 587.0	52 850.0	2 017.9	3.8	0.1	0.5	-4.2
2014	54 234.0	52 520.7	2 001.6	3.8	-1.9	-1.9	-2.7
2015	53 700.0	52 169.9	2 001.6	3.8	-1.4	-1.1	-1.0
2016	54 419.0	52 898.0	1 836.4	3.5	1.2	1.2	-8.3
2017	55 236.0	53 929.0	1 797.5	3.3	1.1	1.5	-1.5
2018	55 675.0	54 443.0	1 883.2	3.5	0.0	0.2	3.3

1) 2010-2016: State budget + supplementary budgets, 2017-2018: State budget proposal

2) Share of R&D funding in Central government expenditure (excluding debt servicing)

Appendix table 2. Central government R&D funding and total expenditure by administrative sector in 2017 and 2018

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		
	2017	2018	change	2017	2018	change	2017	2018	change
the Parliament of Finland	3.6	3.6	0.0	180.0	124.7	-55.2	2.0	2.9	0.9
Prime Minister's Office	10.7	10.7	0.0	210.4	210.3	-0.1	5.1	5.1	0.0
Ministry for Foreign Affairs	7.4	7.9	0.5	1 066.9	1 091.9	25.0	0.7	0.7	0.0
Ministry of Justice	1.2	1.0	-0.2	915.8	940.7	24.9	0.1	0.1	0.0
Ministry of the Interior	0.3	0.5	0.2	1 508.2	1 464.0	-44.2	0.0	0.0	0.0
Ministry of Defence	40.9	46.8	5.8	2 824.1	2 872.0	47.8	1.4	1.6	0.2
Ministry of Finance	5.1	5.2	0.0	16 967.3	17 194.8	227.5	0.0	0.0	0.0
Ministry of Education and Culture	1 123.3	1 164.4	41.1	6 772.8	6 584.9	-188.0	16.6	17.7	1.1
Ministry of Agriculture and Forestry	70.0	53.6	-16.4	2 545.2	2 594.5	49.3	2.8	2.1	-0.7
Ministry of Transport and Communications	19.5	18.5	-0.9	3 235.9	3 362.6	126.7	0.6	0.6	-0.1
Ministry of Economic Affairs and Employment	429.1	491.0	61.9	2 928.1	2 841.5	-86.5	14.7	17.3	2.6
Ministry of Social Affairs and Health	75.4	69.9	-5.5	14 580.5	14 960.7	380.2	0.5	0.5	-0.1
Ministry of the Environment	11.1	10.4	-0.7	180.1	181.2	1.1	6.1	5.7	-0.4
TOTAL¹⁾	1 797.5	1 883.2	85.7	53 915.2	54 423.8	508.5	3.3	3.5	0.1

1) Total expenditure of administrative sector, excl. debt servicing and main category President of the Republic

Appendix table 3. Central government R&D funding by administrative sector in 2017 and 2018

Administrative sector / Organisation	R&D funding				
	EUR million /2017	EUR million /2018	Change 2017-2018 /EUR million	Change 2017-2018 /Nom. %	Change 2017-2018 /Real. %
Ministry of Education and Culture	1 123.3	1 164.4	41.1	3.7	2.2
...Universities	587.1	615.6	28.5	4.9	3.4
...Academy of Finland	449.5	444.1	-5.4	-1.2	-2.6
...Other	86.7	104.7	18.0	20.8	19.1
Ministry of Economic Affairs and Employment	429.1	491.0	61.9	14.4	12.8
...Business Finland	322.2	391.3	69.1	21.4	19.8
...Government research institutions	84.9	83.6	-1.3	-1.5	-2.9
...Other	22.0	16.1	-5.9	-26.9	-27.9
Ministry of Social Affairs and Health	75.4	69.9	-5.5	-7.3	-8.6
...Government research institutions	32.5	26.7	-5.8	-17.8	-18.9
...University Central Hospitals	15.0	15.0	0.0	0.0	-1.4
...Other	27.9	28.2	0.3	0.9	-0.5
Ministry of Agriculture and Forestry	70.0	53.6	-16.4	-23.5	-24.5
...Government research institutions	52.3	52.9	0.6	1.2	-0.2
...Other	17.7	0.7	-17.1	-96.2	-96.3
Ministry of Defence	40.9	46.8	5.8	14.2	12.6
Ministry of Transport and Communications	19.5	18.5	-0.9	-4.8	-6.1
...Government research institutions	13.2	13.5	0.3	2.3	0.9
...Other	6.3	5.0	-1.2	-19.8	-20.9
Ministry of the Environment	11.1	10.4	-0.7	-6.4	-7.7
...Government research institutions	5.9	6.0	0.1	1.7	0.3
...Other	5.2	4.4	-0.8	-15.7	-16.8
Ministry for Foreign Affairs	7.4	7.9	0.5	6.7	5.2
Ministry of Finance	5.1	5.2	0.0	1.0	-0.4
...Government research institutions	3.1	3.0	-0.1	-3.2	-4.6
...Other	2.0	2.2	0.1	7.4	5.9
the Parliament of Finland	3.6	3.6	0.0	0.7	-0.7
Ministry of Justice	1.2	1.0	-0.2	-19.9	-21.0
Ministry of the Interior	0.3	0.5	0.2	80.0	77.5
Prime Minister's Office	10.7	10.7	0.0	0.0	-1.4
TOTAL	1 797.5	1 883.2	85.7	4.8	3.3

Appendix table 4. Government research institutes' budget-funded R&D activities in 2017 and 2018

Government research institution	EUR Million /2017	EUR Million /2018	Change 2017-2018 /EUR Million	Change 2017-2018/Nom. %	Change 2017-2018 /Real. %
Finnish Institute of International Affairs	3.4	3.4	0.0	0.0	-1.4
Government Institute for Economic Research	3.1	3.0	-0.1	-3.2	-4.6
Natural Resources Institute Finland	48.0	49.0	1.0	2.1	0.7
Finnish Food Safety Authority EVIRA	0.8	0.4	-0.4	-51.2	-51.9
National Land Survey of Finland	3.5	3.5	0.0	0.6	-0.8
Finnish Meteorological Institute	13.2	13.5	0.3	2.3	0.9
Geological Survey of Finland	11.4	10.6	-0.8	-7.0	-8.3
VTT Technical Research Centre of Finland Ltd	73.5	73.0	-0.5	-0.7	-2.1
STUK - Radiation and Nuclear Safety Authority	2.5	1.7	-0.8	-32.4	-33.3
National Institute for Health and Welfare	22.2	15.9	-6.3	-28.5	-29.5
Finnish Institute of Occupational Health	7.9	9.2	1.3	15.8	14.2
Finnish Environment Institute	5.9	6.0	0.0	0.8	-0.5
TOTAL	195.2	189.1	-6.1	-3.1	-4.5

Appendix table 5. Government research institutes' budget-funded R&D activities and total R&D funding in 2018

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	3.4	0.7	16.3	-	4.1
Government Institute for Economic Research	3.0	2.0	39.4	-	5.0
Natural Resources Institute Finland	49.0	32.5	39.9	5.2	81.5
Finnish Food Safety Authority EVIRA	0.4	0.7	63.3	0.1	1.1
National Land Survey of Finland	3.5	4.6	56.5	0.7	8.1
Finnish Meteorological Institute	13.5	13.2	49.5	3.1	26.8
Geological Survey of Finland	10.6	6.0	36.2	1.2	16.6
VTT Technical Research Centre of Finland Ltd	73.0	159.1	68.5	32.0	232.1
STUK - Radiation and Nuclear Safety Authority	1.7	0.7	28.7	0.6	2.4
National Institute for Health and Welfare	15.9	19.4	55.0	4.2	35.3
Finnish Institute of Occupational Health	9.2	9.9	52.0	2.6	19.1
Finnish Environment Institute	6.0	16.1	73.0	3.2	22.0
TOTAL	189.1	264.8	58.3	52.9	453.9

Appendix table 6. The share of research institutes in the R&D expenditure of certain administrative sectors in 2018¹⁾

Administrative sector	R&D funding, EUR Million	Government research institution	Government research institution, share %
Ministry of Finance	5.2	3.0	58.0
Ministry of Agriculture and Forestry	53.6	52.9	98.8
Ministry of Transport and Communications	18.5	13.5	72.9
Ministry of Economic Affairs and Employment	491.0	83.6	17.0
Ministry of Social Affairs and Health	69.9	41.7	59.7
Ministry of the Environment	10.4	6.0	57.9
TOTAL	648.5	200.7	31.0

1) The research institutes of the Ministry of Social Affairs and Health also include university central hospitals, the Finnish Environment Institute taken into consideration in the administrative sector of the Ministry of the Environment.

Appendix table 7. Central government R&D funding by administrative sector in 2008 to 2018

Administrative sector	R&D funding at current prices, EUR Million										
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017 ¹⁾	2018 ²⁾
the Parliament of Finland	3.1	3.3	3.3	3.3	3.4	3.4	3.5	3.6	3.6	3.6	3.6
Prime Minister's Office	0.3	0.2	0.2	0.2	0.2	0.1	4.8	6.1	10.7	10.7	10.7
Ministry for Foreign Affairs	10.5	14.3	9.2	13.2	11.8	14.1	14.2	15.2	9.9	7.4	7.9
Ministry of Justice	2.1	1.9	2.1	2.1	3.2	4.2	3.8	2.0	1.4	1.2	1.0
Ministry of the Interior	0.7	0.8	0.8	1.4	1.8	1.2	1.0	0.2	0.2	0.3	0.5
Ministry of Defence	49.8	34.7	56.3	52.8	52.2	37.4	42.0	36.4	34.7	40.9	46.8
Ministry of Finance	8.0	8.6	7.1	9.1	7.9	7.1	7.2	6.9	5.6	5.1	5.2
Ministry of Education and Culture	784.6	839.4	941.0	947.3	995.5	984.3	986.3	1 089.9	1 112.3	1 123.3	1 164.4
Ministry of Agriculture and Forestry	99.5	101.7	98.7	96.2	98.1	95.0	93.9	94.9	72.1	70.0	53.6
Ministry of Transport and Communications	34.5	34.4	32.1	32.4	30.2	29.0	28.0	34.8	24.4	19.5	18.5
Ministry of Economic Affairs and Employment	677.6	745.4	763.8	749.2	711.1	709.1	686.5	615.0	477.2	429.1	491.0
Ministry of Social Affairs and Health	125.6	121.4	130.9	143.4	127.6	116.7	115.8	82.4	73.0	75.4	69.9
Ministry of the Environment	17.6	22.3	20.1	21.3	21.4	16.2	14.5	14.3	11.5	11.1	10.4
TOTAL	1 813.8	1 928.4	2 065.3	2 071.7	2 064.2	2 017.9	2 001.6	2 001.6	1 836.4	1 797.5	1 883.2

1) data may become revised based on supplementary budgets

2) data may become revised based on supplementary budgets

Appendix table 8. Central government R&D funding by administrative sector in 2008 to 2018

Organisation	R&D funding at current prices, EUR Million										
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017 ¹⁾	2018 ²⁾
Universities	452.2	490.0	513.5	555.7	583.2	573.6	578.9	578.0	585.5	587.1	615.6
Universities of applied sciences ³⁾											66.3
University Central Hospitals	48.7	40.0	40.0	40.0	36.0	31.0	31.3	21.7	18.0	15.0	15.0
Academy of Finland	298.0	311.2	385.4	351.5	325.0	334.5	322.7	415.5	439.0	449.5	444.1
Tekes / Business Finland	531.3	601.0	610.8	598.3	557.7	566.9	560.7	485.7	369.6	322.2	391.3
Government research institutes	286.1	302.2	297.6	304.0	307.1	291.9	276.4	257.9	196.6	195.2	189.1
Other R&D funding	197.5	184.0	218.1	222.2	255.1	219.9	231.5	242.8	227.7	228.5	161.8
TOTAL	1 813.8	1 928.4	2 065.3	2 071.7	2 064.2	2 017.9	2 001.6	2 001.6	1 836.4	1 797.5	1 883.2

1) data may become revised based on supplementary budgets

2) data may become revised based on supplementary budgets

3) Included in "Other R&D funding" before the year 2018

Appendix table 9. Central government R&D funding by socioeconomic objective in 2015 to 2018

Socioeconomic objective (NABS 2007)	R&D funding at current prices, EUR Million			
	2015	2016	2017 ¹⁾	2018 ²⁾
Agriculture	96.7	76.3	71.7	56.4
Industrial production and technology	332.4	295.2	201.1	303.4
Energy	177.5	69.7	61.7	42.4
Transport, telecommunication and other infrastructures	33.0	28.4	29.0	49.3
Defence	37.3	35.5	41.7	47.5
Exploration and exploitation of the earth	24.6	21.4	22.7	22.5
Environment	22.1	43.3	44.9	54.5
Health	71.5	54.7	109.7	51.2
Education	6.7	3.1	3.1	1.6
Culture, recreation, religion and mass media	29.1	16.4	10.3	10.2
Political and social systems, structures and processes	86.9	67.8	68.8	71.8
General advancement of knowledge: R&D financed from other sources than GUF	480.0	516.3	522.1	529.8
General advancement of knowledge: R&D financed from General University Funds (GUF)	578.0	586.8	588.8	619.8
Exploration and exploitation of space	25.8	21.5	22.0	22.8
TOTAL	2 001.6	1 836.4	1 797.5	1 883.2

1) data may become revised based on supplementary budgets

2) data may become revised based on supplementary budgets

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Source: Government R&D funding in the state budget 2018, Statistics Finland