

Government Resolution on Comprehensive Reform of State Research Institutes and Research Funding

Issued in Helsinki 5 September 2013

Introduction

The preparation and implementation of social policies, and the related decision-making, should be based on well-researched information. Society's continuous development will be encouraged by ensuring long-term steering of decision-making, based on experiences gained and information on impacts. To achieve this goal, a systematic operating model is needed, to ensure the creation of a strong and horizontal knowledge base in support of societal decision-making and measures.

Enhanced use of research, foresight, monitoring and assessment data, and data generated by external auditing, will strengthen the knowledge base underlying decision-making, leading to improvements in its quality and effectiveness. The aim is to focus on the better and more extensive use of research data in decision-making within the government and other bodies. Coordinated by the Prime Minister's Office, the government's joint-research commissioning group will be in charge of developing a systematic operating model for enhancing the knowledge base and forwarding research project results for use in support of decision-making and other activities by the government and its ministries.

The Government agreed the policy on the comprehensive reform of state research institutes and research funding in the cabinet evening session of 10 October 2012. Here, the goal is for research to function as a strategic resource for decision-making and societal development.

Goals of the comprehensive reform

- To strengthen multidisciplinary, high-level research of social significance.
- To make research activity more effective and improve its relevance; by freeing up resources from fixed structures and support services.
- To organise research institutes into larger and stronger wholes by field of research, taking account of the preconditions for developing the quality of research activities.
- To assemble part of research funding for allocation through open research funding, in order to enhance the relevance, demand-orientation and multi-disciplinary approach of research. Here, the aim is to finance long-term problem-oriented and programme-based research that seeks solutions to the challenges facing society. National co-financing of EU projects will be incorporated into the same fund.
- Stronger and larger research institutes and fund gathering for strategically targeted research will facilitate the reallocation of research resources, in accordance with the changing needs of society.
- To strengthen research and report work in support of decision-making by the government and its ministries, by accumulating research funding for deployment in line with government policy.
- To deepen cooperation between research institutes and higher education institutions.
- To secure and strengthen strategic steering of research institutes at government level.

Reform measures

Structural reforms

- A) Merger of research institutes
- B) Merger of research institutes with the University of Helsinki
- C) Deeper co-operation between research institutes and universities
- D) Development of activities of research consortiums

Research funding reforms

- E) Establishment of a strategic research funding instrument
- F) Strengthening research, assessment activity and report work in support of decision-making by the government
- G) Gathering of research funding from ministries

Implementation and follow-up of reform

- H) Status of personnel in reorganisation of operations
- I) Implementation and follow-up of the resolution

A) Merger of research institutions

Impacts:

- Stronger operational and financial foundations.
- Operational preconditions for research institutes, which support enhancement of multi- and interdisciplinary approaches in research.
- Enhancement of preconditions for establishment, investment in and management of infrastructures.
- Generation of stronger multi-disciplinary research organisations, capable of successfully competing for funding against other European research institutes.
- Facilitation of provision of integrated research- and observation-based services for authorities and other users.

In 2015, the below research institutes and their sub-organisations will be integrated into larger research institutes. A specific ministry, identified for each establishment project, will be responsible for preparing the project plan in collaboration with other stakeholders. The ministry in charge will set up a strategic steering group and other necessary working groups, in order to formulate policies and make decisions on key issues related to the new institutes' strategic foundations, structure and management system, as well as managing the selection process for institute management and personnel. The ministry in charge will be responsible for any relevant legislative and budgetary planning.

Research institute activities will no longer be based on satisfying the research needs of a single sector only. Research institutes will serve society and the business sector in a broad-based manner. The performance management of research institutes will take broad account of and reconcile the research needs of various ministries. The ministry in charge of performance management will operate in collaboration with other ministries in setting the government's common goals for each research institute.

Research institutes' information systems and facility arrangements will be reconciled. A universally applicable funding and follow-up model for operation on a co-financing basis will be introduced among stakeholders providing research funding. In addition, an accounting system will be developed in line with commonly agreed principles.

1. Natural resources institute Finland

MTT Agrifood Research Finland, the Finnish Forest Research Institute, and the Finnish Game and Fisheries Research Institute will be merged to form a natural resources institute Finland. The Ministry of Agriculture and Forestry will act as the ministry responsible for the establishment project.

2. Research and development centre of geographic information

The Finnish Geodetic Institute; issues related to the Inspire project and the development and promotion of joint use of geographic information under the National Land Survey of Finland; and the sector-dependent information systems of the Information Centre of the Finnish Ministry of Agriculture and Forestry, along with the related system development, will be merged to form a research and development centre for geographic information. The Ministry of Agriculture and Forestry will act as the ministry responsible for the establishment project.

3. Multi-technological research and development centre

The VTT Technical Research Centre of Finland and the Centre for Metrology and Accreditation will be merged to form a multi-technological research and development centre. Preparations will be launched to turn the new centre into a non-profit-based, fully state-owned company with a special assignment. The Ministry of Employment and the Economy will act as the ministry responsible for the establishment project. The Ministry of Social Affairs and Health and the Ministry of the Environment will be consulted in connection with the establishment project.

B) Merger of research institutes with the University of Helsinki

Impacts:
<ul style="list-style-type: none"> • The university offers a broader-based research community and the prospect of strengthening the research activities in question. • Multi-disciplinary research will have broader and stronger foundations within the university. • The independent status of research will be enhanced upon its transfer to the university. • The connection between research and higher education will become stronger.

In 2015, the National Consumer Research Centre and the National Research Institute for Legal Policy will be merged with the University of Helsinki, to form institutes or units based on national special assignments. The Ministry of Education and Culture will

be in charge of the merger plan and of the relevant legislative and budget preparations in cooperation with the Ministry of Employment and the Economy, the Ministry of Justice and the University of Helsinki.

1. National consumer research

The National Consumer Research Centre will be merged with the University of Helsinki to form an institute or unit based on a national special assignment. The National Consumer Research Centre's resources will be transferred to the University of Helsinki. Under an agreement between the University of Helsinki and the Ministry of Education and Culture, the University of Helsinki will be given a special assignment to maintain national consumer research activity in 2015–2019.

2. Legal policy research

Criminological and other legal policy research will be strengthened, by merging the National Research Institute for Legal Policy with the University of Helsinki to form an institute or unit based on a national special assignment. In line with the government programme, legal policy research resources will be strengthened by transferring the entire funding of the National Research Institute for Legal Policy to the University of Helsinki. In the same connection, funding for legal policy research will be increased by EUR 500,000, to be assembled from state research institutes in 2015 (Appendix 3). The University of Helsinki will be given a national special assignment to maintain criminological and other legal policy research. Criminological and other legal policy research will be steered by means of an agreement made with the University of Helsinki. In line with the division of duties within the government, the objectives of criminological and other legal policy research will be defined by the Ministry of Justice, as part of the agreement between the Ministry of Education and Culture and the University of Helsinki.

C) Deeper co-operation between research institutes and universities

<p>Impacts:</p> <ul style="list-style-type: none"> Provides synergy benefits to both higher education institutions and research institutes, while strengthening the Finnish research and innovation system as a whole.
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- Brings major boost to the competitiveness of Finnish expertise and research conducted in the service of society.
- Strengthens the connection between research and higher education.

To deepen co-operation between research institutes and universities, a nationally steered development process, spanning several years, will be launched. Under this process, research institutes and universities will gradually develop genuine clusters of expertise (agreement-based consortiums). The Ministry of Education and Culture will be responsible for launching and promoting this process, in collaboration with the ministries steering the research institutes.

The agreement-based consortiums of research institutes and universities must have common research equipment, laboratories and information resources (e.g. follow-up material, sample material, statistical and register material) and engage in close co-operation in research and education (e.g. sharing of mutually complementary competencies, joint professorships and duties, and shared staff).

Within the consortiums, the research institutes and universities form joint campus areas with common functions (e.g. joint use of physical resources and research infrastructure) on a regional basis.

D) Development of the operations of research consortiums

Impacts:

- Consortiums will enhance the quality and effectiveness of R&D activity, by building cooperation between various actors.
- Promotion of staff mobility between institutes.
- Research infrastructures and follow-up systems will be brought into more extensive joint use.

In addition to the structural reform of research organisations, deeper, network-based collaboration will be required, crossing the boundaries of government agencies and public bodies. The activities begun under the framework of the Finnish Natural Resource and Environmental Research Consortium (LYNET) and the Consortium of Expert Institutions on Health and Welfare (SOTERKO) will be developed and expanded in order to improve the quality, productivity and impact of research and consultancy.

Society's information needs are changing rapidly and issues are becoming intermeshed with larger and larger wholes and broader-reaching phenomena. Network-based consortiums will enable the promotion of multi-disciplinary researcher and expert

consortiums, generating information directly to meet decision and policy-making needs. Institutes involved in these consortiums will be encouraged to apply flexible solutions related to jointly used infrastructures, laboratory services, joint procurement, development of competencies, open source material policy, and the use of common facilities. Within consortiums, the operational emphasis should be on the recognition and transfer of various good practices between institutes; promotion of mobility amongst researchers and experts; and closer collaboration between research institutes and universities in campus centres.

Research institute consortiums will have joint development projects, common expert networks, R&D programmes and engage in collaboration in individual projects and other activities that boost the quality and effectiveness of R&D and service activity.

1. Finnish Natural Resource and Environmental Research Consortium (LYNET)

The field of activity of the LYNET cooperation consortium will be expanded and its operating model will be developed in order to provide a forum for joint, synergic research for the various natural resource and environmental sectors (for example, multi-disciplinary marine research as a focus area). From 2015, the stakeholders involved in LYNET operations will include the natural resources centre, the Finnish Food Safety Authority, the research and development centre for geographic information, the Finnish Environment Institute, the Finnish Meteorological Institute, the Geological Survey of Finland and the multi-technological research and development centre. The Ministry of Agriculture and Forestry and the Ministry of the Environment will be responsible for the development process of the LYNET consortium, in collaboration with the Ministry of Transport and Communications, and the Ministry of Employment and the Economy.

2. Consortium of Expert Institutions on Health and Welfare (SOTERKO)

The activities of the SOTERKO consortium will be expanded in such a manner that, from 2015, the parties involved in its activities will include the National Institute for Health and Welfare, the Finnish Institute of Occupational Health, the Radiation and Nuclear Safety Authority (STUK), the Kela Research Department, the Finnish Environment Institute, the Finnish Meteorological Institute and the multi-technological research and development centre. The Ministry of Social Affairs and Health will be responsible for the development process of the SOTERKO consortium, in collaboration with the Ministry of the Environment, the Ministry of Transport and Communications, and the Ministry of Employment and the Economy.

3. Assessment of the National Institute for Health and Welfare and the Finnish Institute of Occupational Health

The activities of the National Institute for Health and Welfare and the Finnish Institute of Occupational Health will be assessed by 30 June 2014. This will include an evaluation of the suitability and compatibility of the institutes' strategic research areas, and of their key development and administrative tasks, taking account of feed-in requirements related to decision-making and steering within government.

In addition, thought will be given to the possible elimination of overlapping functions and the appropriate division of labour and research tasks between universities and research institutes.

During this evaluation, development proposals will be formulated related to the institutes' strategic management and their research, development and administrative tasks, and on which research functions should be transferred to the universities.

The ministry in charge will be the Ministry of Social Affairs and Health, in collaboration with the Ministry of Education and Culture.

E) Establishment of a strategic research funding instrument

Impacts:

- Strategic research serves the needs of social policy and the development of society's functions, by producing problem-oriented and programme-based long-term research.
- Funding will be allocated to research aimed at finding solutions to the major challenges facing Finnish society.
- This means broad-based allocation of funding for research into the challenges of various size and significance that face society, such as research supporting the renewal and competitiveness of trade and industry; development of working life; research serving the development of the public sector; etc.
- Facilitates allocation of research in accordance with society's changing information needs.
- Facilitates allocation of research to fringe areas and to fields in which there is currently no research institute activity.

In order to strengthen strategic research, funding subject to competition, and allocated in support of social policy and societal functions, will be substantially expanded. A third pillar of funding subject to competition – a strategic research funding instrument – will be established alongside scientific research and innovation funding instruments. This will be set aside for the funding of problem-oriented research aimed at finding solutions to significant societal challenges and problems.

Research funding subject to competition, and disbursed in support of social policy and societal functions and services, will be assembled under this instrument, in order to make EUR 70 million available for strategic research funding in 2017. Such funding will be assembled in stages between 2015–2017 (Appendix 1), from the state research institutes' research appropriations (EUR 52.5 million), from the Academy of Finland's programme-based research funding (EUR 7.5 million) and from the Finnish Funding Agency for Technology and Innovation Tekes' innovation and research funding (EUR 10 million). Even today, the Academy of Finland's programme-based research funding (EUR 41.3 million/2012) is aimed at creating solutions to issues and problems that are considered socially significant. By targeting part of its funding for predictive strategic research, Tekes also allocates public research funding (EUR 217 million/2012 to universities and research institutes) to research into socially significant challenges (e.g. challenges concerning individual well-being and the environment). By assembling this kind of funding under the joint strategic research funding instrument, it will be possible to reinforce our systematic approach to achieving targets, avoiding overlapping functions and improving the clarity of financing operations.

Under a forthcoming resolution, the Government plenary session will seek to steer strategic research by defining key thematic areas and priorities and, if necessary, the allocation of funding between designated priority areas. The resolution does not cover – nor will the Council for Strategic Research provide funding for – short-term analysis, follow-up or assessment needs. The Council for Strategic Research will take the initiative on key theme areas and priorities. The Government resolution will be prepared in collaboration between the ministries under the coordination of the Prime Minister's Office. Research experts and the Research and Innovation Council will be heard during the preparation process. Neither the Government nor its ministries will participate in the ear-marking of funding for individual research projects or programmes.

The Council for Strategic Research to be established will be independently responsible for strategic research, the arrangement and administration thereof, and the allocation of funding. The government will appoint the Council for Strategic Research (a chair and eight members), which will be established in connection with the Academy of Finland in 2015. The membership of the Council will comprise recognised researchers and research experts: these members will represent the users of the research and have experience of managing extensive reforms within administration, trade and industry, other sectors of working life, or in research. Council members will be elected for a fixed period of four years and for two additional years at most.

The Council for Strategic Research will make independent decisions on the programme structure of research activity, programme funding, selection of research projects, and the creation of support structures for the necessary decision-making or other purposes. Selection of projects will take place through open competition. During the selection process, an emphasis will be laid on the social relevance, impact and quality of research. The funding provided will cover the full costs of research projects and continue for several years. National co-financing can be granted as funding for EU projects and other projects of international research funding bodies, which support the objectives of the strategic research programme.

The administration of the Academy of Finland and research funding procedures will be reformed to meet the special needs of both research councils (Council for Scientific Research and Council for Strategic Research). A certain share of operating funds transferred from research institutes will be earmarked for the operating expenses of the Council for Strategic Research. In addition, a share of the Finnish Funding Agency for Technology and Innovation Tekes' administrative appropriations, corresponding to the innovation and research funding to be transferred for the funding of strategic research, will be transferred to the Academy of Finland.

The ministries in charge will be the Ministry of Education and Culture and the Prime Minister's Office.

F) Strengthening research, assessment and foresight activities and report work in support of decision-making by the government

<p>Impacts:</p> <ul style="list-style-type: none"> • Strengthening the knowledge-based operating policy and overall strategic picture. • Systematic and broad-based use of research, assessment and foresight data in decision-making, steering and operating practices (business intelligence). • Provides research and analyses in support of decision-making within government and its ministries, e.g. research reports and studies serving the needs of economic policy. • Provision of support for decision-making falling within horizontal and ministries' administrative branches, by means of joint research, foresight and assessment activities and report work. • Clarity, openness, transparency and a systematic approach will be enhanced in the government's research, foresight and assessment activities and report work. • Increases joint decision-making within government.
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Research and report work supporting societal decision-making by the government will be strengthened, by accumulating funding in stages from state research institutes' budget-funded research appropriations, and placing it at the disposal of the government and its ministries. This will be accomplished between 2014–2016, making available EUR 5 million in 2014, EUR 7.5 million in 2015, and EUR 12.5 million in 2016 in non-earmarked funds, for research, assessment activities and report work meeting the immediate information needs of the government and its ministries.

To be placed at the general disposal of the government, such funds will be allocated to common and horizontal projects and report work supporting decision-making within the ministries' administrative branches. Projects will be designed and coordinated through a plan for research in support of government decision-making. A joint-research commissioning group, under the leadership of the Prime Minister's Office and whose membership will include experts from all administrative branches, will be in charge of preparing this plan. The plan will be confirmed at a government plenary session. The plan will include the priority areas for annually funded and implemented research, assignment of responsibilities for preparation and steering within the government and its ministries, and the implementation schedule.

In the research plan, research funding will be allocated to common and horizontal projects and report work supporting decision-making within the ministries'

administrative branches. The research plan will also reconcile the key projects and joint government projects falling within the scope of research funding allocated under the main divisions of the ministries. As a main rule, such research activity will include analyses, foresight projects, research reviews, follow-up research and assessments. The time span will usually be one to three years. Decisions on the targeting of research projects will be taken by the joint-research commissioning group, under the leadership of the Prime Minister's Office. Account will be taken of equal and non-discriminatory treatment of research providers in all phases of the process. The Prime Minister's Office will allocate project funding in line with the project plan for the ministry in charge of steering each project. A certain share of operating funds transferred from research institutes will be earmarked for operating expenses. Sufficient expertise will be ensured in the Prime Minister's Office, for the preparation of the strategic research programme and the plan concerning research serving decision-making in government, and for the reconciliation of research activities (research policy experts).

The Prime Minister's Office will be the ministry in charge.

G) Collection of research funding from ministries

Impacts:
<ul style="list-style-type: none"> Clarity, openness, transparency and manageability will increase in the ministries' research, follow-up, foresight and assessment activities and report work.

The ministries will collect research, follow-up, foresight and assessment activities and report work scattered under several items within the main budget divisions, under just one or a few budget items. R&D activities within ministries will be steered by means of ministry-specific research plans. Projects will be reconciled with research supporting decision-making within the government.

The appropriate ministries will be in charge of the budgetary activity, and the Prime Minister's Office will be responsible for the plans concerning R&D activity.

H) Status of personnel in reorganisation of operations

In preparing the establishment and reorganisation of research institutes, account will be taken of the provisions laid down in the Finnish Civil Servants Act (750/1994) on the status of personnel and the arrangement of their status during the reorganisation of functions within the public administration. Furthermore, in these

arrangements, account will be taken of the government resolution issued on 26 January 2012 on managing the circumstances of state personnel during organisational changes and of the related regulations (VM/201/00.00.02/2012), and of the Ministry of Finance resolution issued on 15 February 2012 on the management of change and flexicurity (VM/305.00.00.00/2012).

The staffing impact of reforms of research institutes and research funding will depend on the cost and staff structure of each research institute, their balance of research and administrative tasks and the strategic orientation of the research institute in question. The structural reform of research institutes (e.g. mergers of research institutes) will provide an opportunity for strategic change and the rearrangement of resources. Strengthening of the institutes' operations and finances calls for the harmonisation of organisations and selection of priorities. In the short run, when implementing the mergers, harmonisation of payroll systems, and facility and other infrastructure arrangements may cause expenses to rise. These extra costs will have to be covered by the reconciliation of activities.

When assessing the regional impacts of the reform, it should be borne in mind that the changes will not mean the national centralisation of activities. The regional impacts will be assessed in a comprehensive manner, bearing the overall interests of society in mind. A major proportion of the research institute staff currently work in the Helsinki metropolitan area. The goal of gathering facilities within common campus areas on a regional scale is included in the development goals for cooperation between research institutes and universities. This may require transfers of facilities and additional investments, which may require adjustment measures within the activities of research institutes. The regional impacts of the reforms will mainly depend on the solutions each research institute has made concerning its operating policy and network of facilities.

The reform of research funding will increase the amount of research funding subject to competition. Collection of research funding will facilitate the targeting of research in accordance with the changing information needs of society, and the expansion of research into fields currently forming fringe areas, or which lack any research institute activity. The reform of research funding will not reduce overall funding for research, but may change the focus of research areas and the field of activity in which those implementing research work. Transfers of funding related to the reform of research funding will be implemented in stages between 2014 and 2017, and most of the funding transfers will be performed in 2016–2017. This will enable the research institutes to prepare for and adjust to the forthcoming changes. From 2015, state research institutes will have the opportunity to seek compensatory funding, subject to competition, from the strategic research funding instrument which, in the early phase, will assemble funding for strategic research from the

Academy of Finland and the Finnish Funding Agency for Technology and Innovation Tekes. The theme areas and priorities of the strategic research programme and the competitiveness of each research institute will have an impact on how open funding subject to competition is allocated to different research institutes.

I) Implementation and follow-up of the resolution

Account will be taken of transfers of research resources, required by the resolution, from one ministry's main division to another, in the preparation of the state budget for 2014 and the confirmation of central government spending limits for 2015–2017, in accordance with appendices 1-3.

The Prime Minister's Office will establish a ministerial working group to monitor the resolution's implementation.

Appendix 1

Cumulative share of funding to be assembled under strategic research funding instrument

The [budget-funded research expenditure in 2012](#) reported by state research institutes to Statistics Finland has been used as a basis for allocating shares of funding.

Organisation	Million € 2015	Million € 2016	Million € 2017
Academy of Finland	7.5	7.5	7.5
TEKES	10	10	10
Government Institute for Economic Research (VATT)	0.062	0.451	0.728
Institute for the Languages of Finland	0.015	0.108	0.174
MTT Agrifood Research Finland	0.513	3.704	5.984
Finnish Food Safety Authority	0.012	0.088	0.142
Finnish Game and Fisheries Research Institute	0.142	1.022	1.651
Finnish Forest Research Institute	0.661	4.770	7.706
Finnish Geodetic Institute	0.082	0.594	0.959
Finnish Meteorological Institute	0.297	2.143	3.462
Geological Survey of Finland	0.177	1.275	2.060
VTT Technical Research Centre of Finland	1.420	10.255	16.566
Centre for Metrology and Accreditation	0.035	0.253	0.408
Radiation and Nuclear Safety Authority	0.113	0.813	1.314
National Institute for Health and Welfare	0.493	3.561	5.753
Finnish Institute of Occupational Health	0.269	1.946	3.143
Finnish Environment Institute SYKE	0.210	1.517	2.450
Total	22	50	70

Appendix 2

Cumulative share of funding to be assembled into the Prime Minister's Office to be used by the government and its ministries

The [budget-funded research expenditure in 2012](#) reported by state research institutes to Statistics Finland has been used as a basis for allocating shares of funding.

	Million €	Million €	Million €
Research institute	2014	2015	2016
Government Institute for Economic Research (VATT)	0.069	0.104	0.173
Institute for the Languages of Finland	0.017	0.025	0.041
MTT Agrifood Research Finland	0.570	0.855	1.425
Finnish Food Safety Authority	0.014	0.020	0.034
Finnish Game and Fisheries Research Institute	0.157	0.236	0.393
Finnish Forest Research Institute	0.734	1.101	1.835
Finnish Geodetic Institute	0.091	0.137	0.228
Finnish Meteorological Institute	0.330	0.495	0.824
Geological Survey of Finland	0.196	0.294	0.490
VTT Technical Research Centre of Finland	1.578	2.367	3.944
Centre for Metrology and Accreditation	0.039	0.058	0.097
Radiation and Nuclear Safety Authority	0.125	0.188	0.313
National Institute for Health and Welfare	0.548	0.822	1.370
Finnish Institute of Occupational Health	0.299	0.449	0.748
Finnish Environment Institute SYKE	0.233	0.350	0.583
Total	5.0	7.5	12.5

Appendix 3

The cumulative budgetary share of funding to be transferred from research institutes in its entirety (To the strategic research funding instrument + to be used by the government and its ministries + funding of legal policy research)

The [budgeted-funded research expenditure in 2012](#) reported by state research institutes to Statistics Finland has been used as a basis for allocating shares of funding.

Research institute	Million € > 2014	Million € > 2015	Million € > 2016	Million € > 2017
Government Institute for Economic Research (VATT)	0.069	0.173	0.631	0.908
Institute for the Languages of Finland	0.017	0.041	0.151	0.217
MTT Agrifood Research Finland	0.570	1.425	5.186	7.465
Finnish Food Safety Authority	0.014	0.034	0.123	0.177
Finnish Game and Fisheries Research Institute	0.157	0.393	1.431	2.060
Finnish Forest Research Institute	0.734	1.835	6.679	9.614
Finnish Geodetic Institute	0.091	0.228	0.831	1.196
Finnish Meteorological Institute	0.330	0.824	3.001	4.320
Geological Survey of Finland	0.196	0.490	1.785	2.570
VTT Technical Research Centre of Finland	1.578	3.944	14.357	20.668
Centre for Metrology and Accreditation	0.039	0.097	0.354	0.510
Radiation and Nuclear Safety Authority	0.125	0.313	1.139	1.639
National Institute for Health and Welfare	0.548	1.370	4.986	7.177
Finnish Institute of Occupational Health	0.299	0.748	2.724	3.921
Finnish Environment Institute SYKE	0.233	0.583	2.124	3.057
Total	5.0	12.5	45.5	65.5
% /2012	1.69	4.2	15.4	22.2