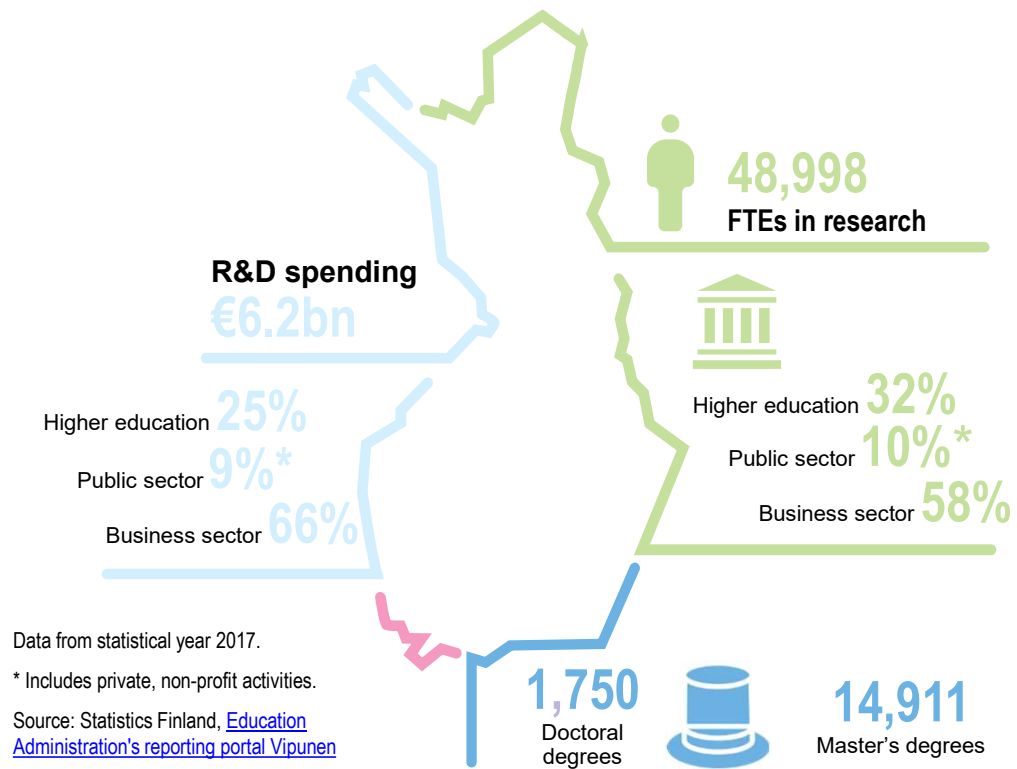




Illustrative example from Finland:
The embedding challenge – the **quest** for the perfect fit between
the overall national STI strategy
and the strategic STI
internationalisation dimension

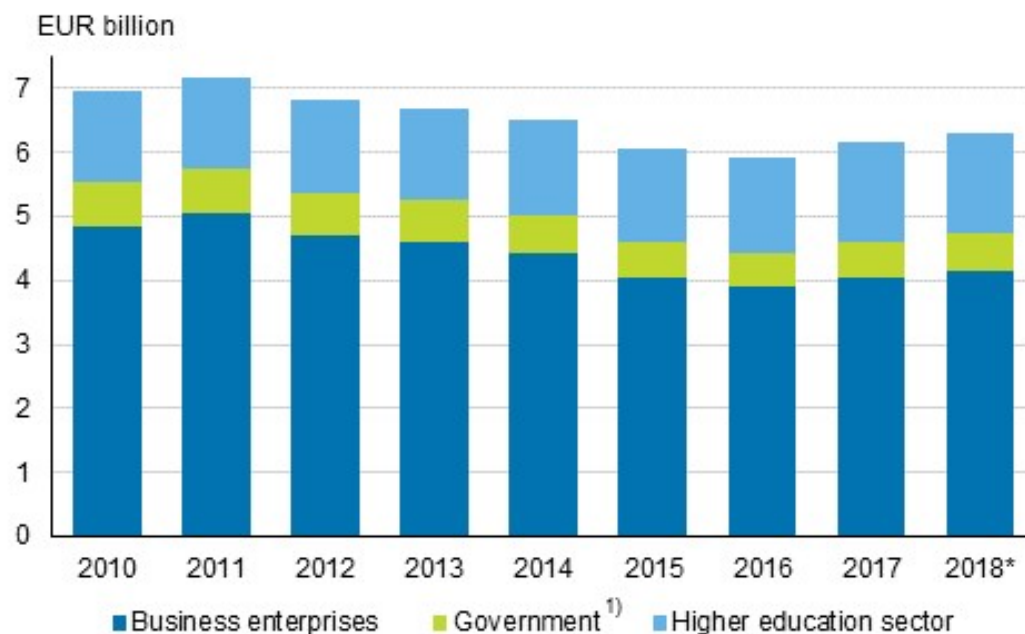
Hanna Vuorinen, Ministry of Economic
Affairs and Employment
Tiina Vihma-Purovaara, Ministry of
Education, Science and Culture

R&D in Finland



The GDP share of R&D expenditure in 2017 was 2.76 per cent, in other words in practice on level with 2016. Research and development expenditure is estimated to grow in 2018 by about EUR 140 million and the GDP share is estimated to be 2.70 per cent.

Research and development expenditure by sector in 2010 to 2018*



* Preliminary data

1) Incl. private non-profit sector

- APPLICANTS AND
SELECTED CANDIDATES
- HUMAN RESOURCES IN
RESEARCH AND
DEVELOPMENT
- RESEARCH AND
DEVELOPMENT
- PUBLICATIONS

[Education Statistics Finland](#) > Higher education and r&d activity

Higher education and r&d activity

Higher education and r&d activity gathers together indicators and reports about the higher education system and research and development in higher education institutions and government research institutes.

Higher education and r&d activity contains reports about universities, universities of applied sciences and government research institutes.



<https://vipunen.fi/en-gb/higher-education-and-r-d-activity>

Gross domestic expenditure on research & development

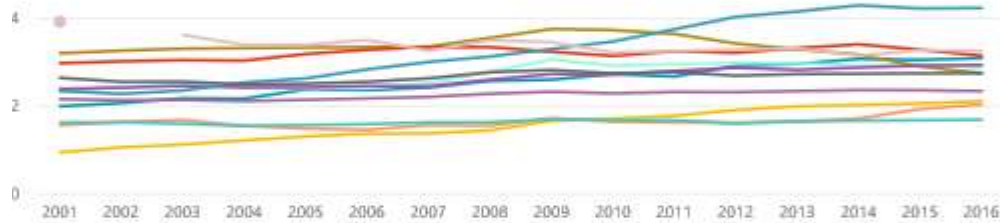
ec.stat@oecd.org

Year
2016

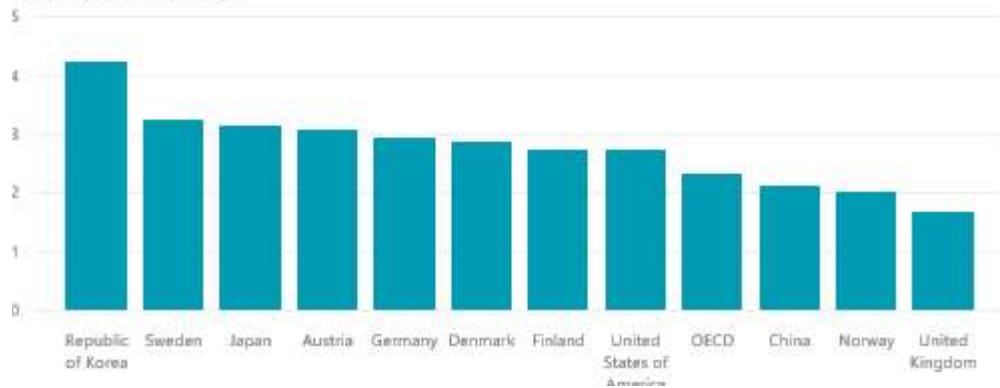
Country name
Useita valintoja

Expenditure on R&D of GDP

Country name Austria China Denmark Finland Germany Japan Norway OECD Republic of Korea Sweden

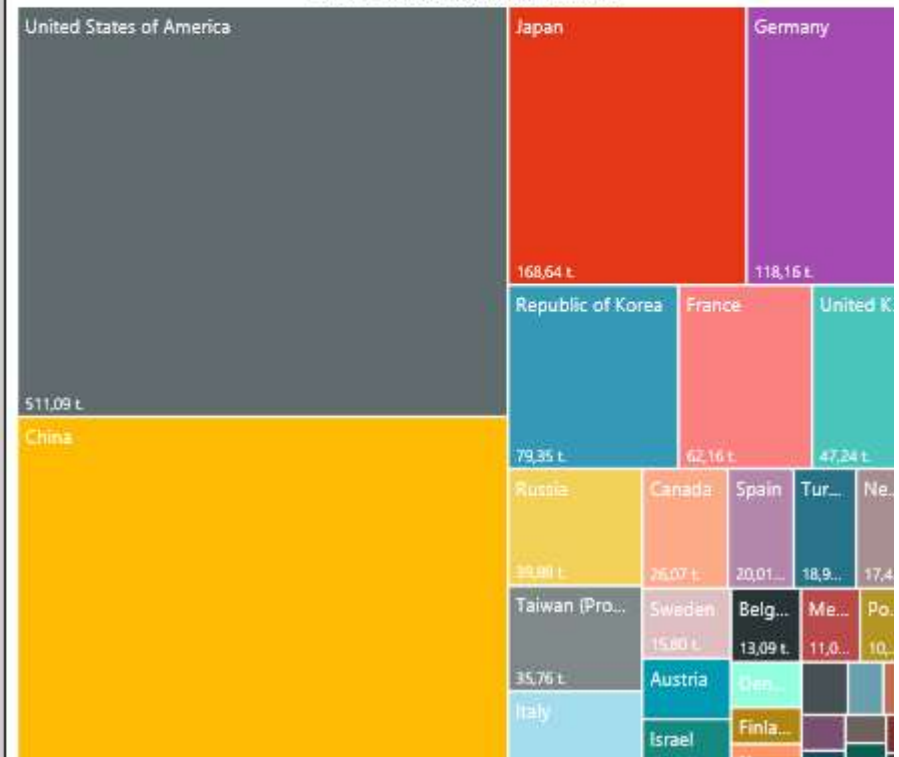


Expenditure on R&D of GDP



Country name
Useita valintoja

Gross domestic expenditure on R&D



Government programme

Agreement reached on the Government Programme

Inclusive and competent Finland – a socially, economically and ecologically sustainable society

Government Communications Department 3.6.2019 15.0
PRESS RELEASE 283/2019




Government Communications Department 3.6.2019 10.47
PRESS RELEASE 282




Climate change, globalisation, urbanisation, the ageing of the population and technological development may be transforming Finland and the world faster than ever before. This transformation offers great opportunities for the development of our country, but it also creates insecurity and concerns about what lies ahead. To face this transformation, we need policy measures that offer people a sense of security and hope for

a better future.

The aim of the first Government of the new decade is a socially, economically and ecologically sustainable Finland by 2030. The Nordic welfare state and its key pillars, income security, well-functioning health and social services and solid education as well as high expertise create a robust and just platform for the work on reforms.



A highly educated, **skilled population**, a research-oriented and enterprise-friendly atmosphere and unprejudiced use of new technologies will be the keys to growth.



Finland is a constructive player that is ready to take the initiative in the European Union and in international communities.

We aim for **peace, respect for human rights** and **cooperation** between states.



OUR PLEDGES TO CITIZENS ON
POLICY REFORMS

4

Pledge for knowledge-based
policy-making

Policies on promoting internationality in Finnish higher education, research and innovation



Vision for Higher Education and Research 2030

Proposal for Finland: Finland 100+

SUOMI 100+



EDUCATION AND LEARNING, KNOWLEDGE , SCIENCE AND TECHNOLOGY FOR THE BENEFIT OF PEOPLE AND SOCIETY

Over 50% of all young people complete a higher education degree

Development of higher education and expertise in different life situations

4% of GDP allocated to research and development: new creative power of science, sustainable growth, more wellbeing



INNOVATIVE UNIVERSITIES AND UNIVERSITIES OF APPLIED SCIENCES

More pre-emptive and able to react

Strong internationally attractive knowledge clusters

Actively involved in the world's most interesting networks

Open, international and globally responsible

Robust RDI activities and versatile higher education as engines for change in the economic structure and society

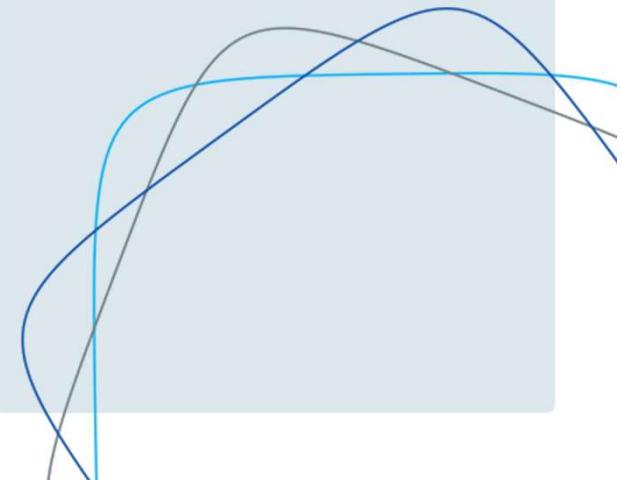
The world's most competent labour force brings a competitive edge and promotes wellbeing

Ethical and socially responsible



ENABLING STEERING, RESOURCES AND STRUCTURES

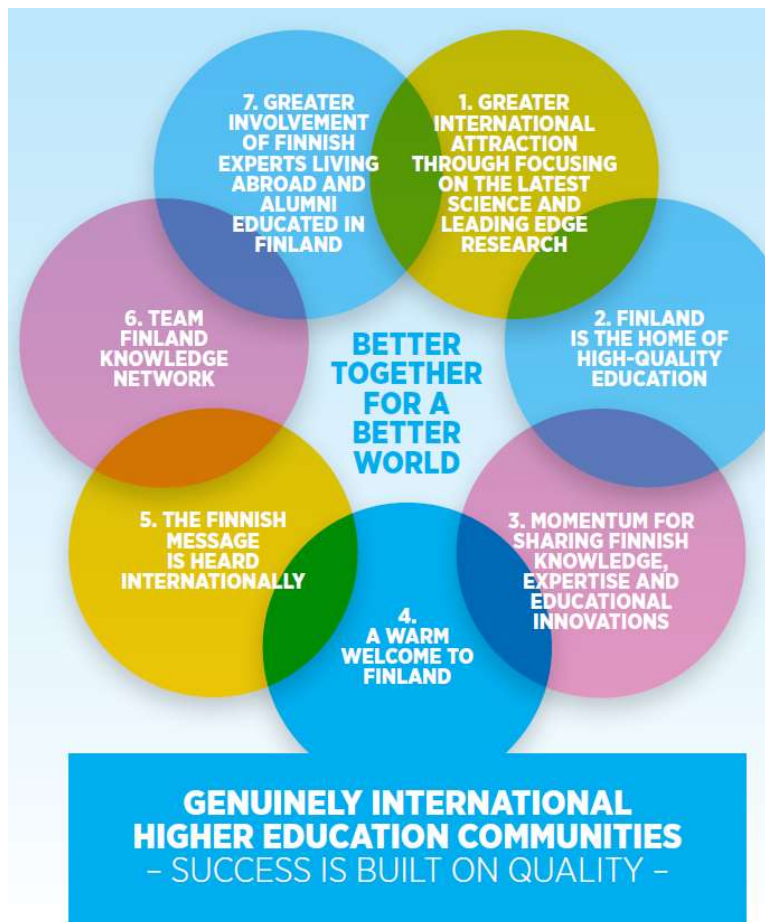
Creativity, dynamics and potential for action!



Policies on promoting internationality in Finnish higher education and research

Policies on promoting internationality in Finnish higher education and research





1. Ongoing: Flagship programme
2. Ongoing: reforms in the higher education sector (VISION2030)
3. Ongoing: actions taken
4. Ongoing: Talent Boost –programme
5. Ongoing: International Forum for higher education and research established and working
6. Ongoing: Team Finland Knowledge - network in Beijing, Gulf region (Abu Dhabi), Latin America (Buenos Aires and Sao Paolo), Moscow, New Delhi SEA (Singapore), Southern Africa and (Pretoria)Washington. + Team Finland innovation counsellors
7. Starting in 8/2019

Flagships

THE NORTHERN FLEET OF EXCELLENT SCIENCE, SUCCESSFUL COLLABORATION AND SOLUTIONS FOR TOMORROW

The Finnish Flagship Programme provides a new, unique way of doing R&D&I in Finland. Substantial, long-term funding is granted for **six large ecosystems, Flagships**, each operating in their specific field.

The Programme promotes **active collaboration between research, business and society** in the field of each Flagship. This supports future knowledge and know-how, and helps to create solutions to societal challenges, develop new business opportunities, and contribute to sustainable growth.



FLAGSHIPS – High-impact competence clusters

- ▶ Six flagships selected
- ▶ Each flagship has a long-term plan for eight years
- ▶ Flagship term: 2019–2026
- ▶ Collaborators include large corporations, SMEs and startups, educational institutions, hospitals and other public organisations

8 years of activity within the flagships areas, with an estimated total worth of 9 billion euros.

Most of this is financed by business companies.





FLAGSHIP HOST ORGANISATIONS

- **6Genesis** – 6G-Enabled Wireless Smart Society & Ecosystem | University of Oulu
- **FCAI** – Finnish Centre for Artificial Intelligence | Aalto University, University of Helsinki & VTT
- **FinnCERES** – Competence Centre for the Materials Bioeconomy | Aalto University & VTT
- **iCAN** – Digital Precision Cancer Medicine Platform | University of Helsinki & Helsinki University Hospital
- **INVEST** – Inequalities, Interventions and New Welfare State | University of Turku & National Institute for Health and Welfare
- **PREIN** – Photonics Research and Innovation | University of Tampere, Aalto University, VTT & University of Eastern Finland





More information:

Hanna.Vuorinen@tem.fi

Tiina.Vihma-Purovaara@minedu.fi