



# VTT TECHNICAL RESEARCH CENTRE OF FINLAND



# VTT - CREATING BUSINESS FROM TECHNOLOGY

## VTT IS:

- § The biggest multidisciplinary research organization in Northern Europe
- § An essential part of the Finnish innovation system

## VTT HAS:

- § Polytechnic R&D covering different fields of technology from electronics to building technology
- § Clients and partners: industrial and business enterprises, organisations, universities and research institutes

## VTT CREATES:

- § New technology and science-based innovations in co-operation with domestic and foreign partners

## CONTRACT AND PUBLIC RESEARCH, NETWORKING

§ Main part of work contract research

=> Improved competitiveness: new and improved products, equipment, production methods and processes

§ Technology enhancement and transfer also by producing public research knowledge

=> Growth ground for science-based innovations

§ Active participation in both domestic and international research programmes and collaboration networks

=> Effective technology transfer and access to co-operation partners

## VTT PROFILE IN 2006

**46 Knowledge Centres**  
**2 700 employees**  
**233 M€ turnover (est. 2006)**

### **7 Knowledge Clusters**

- § Digital Information Systems
- § Telecommunications
- § Microtechnologies and Sensors
- § Materials and Building
- § Industrial Systems
- § Biotechnology
- § Energy and Pulp&Paper

### **9 Key Customer Sectors**

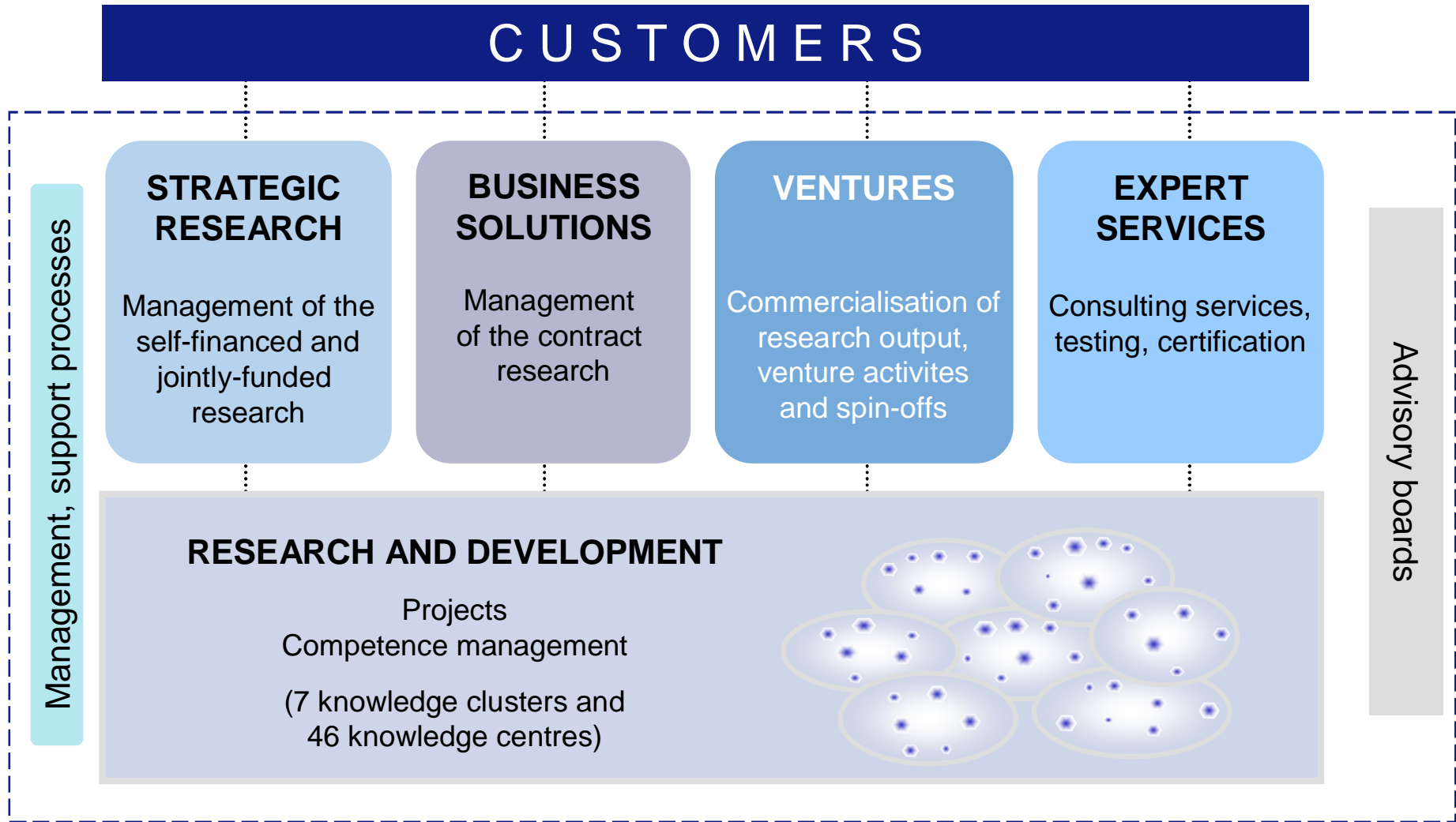
- § Biotechnology, pharmaceuticals and foods
- § Electronics
- § Energy
- § ICT
- § Real estate and construction
- § Machines and vehicles
- § Transport and logistics
- § Pulp and paper
- § Process industry and environment



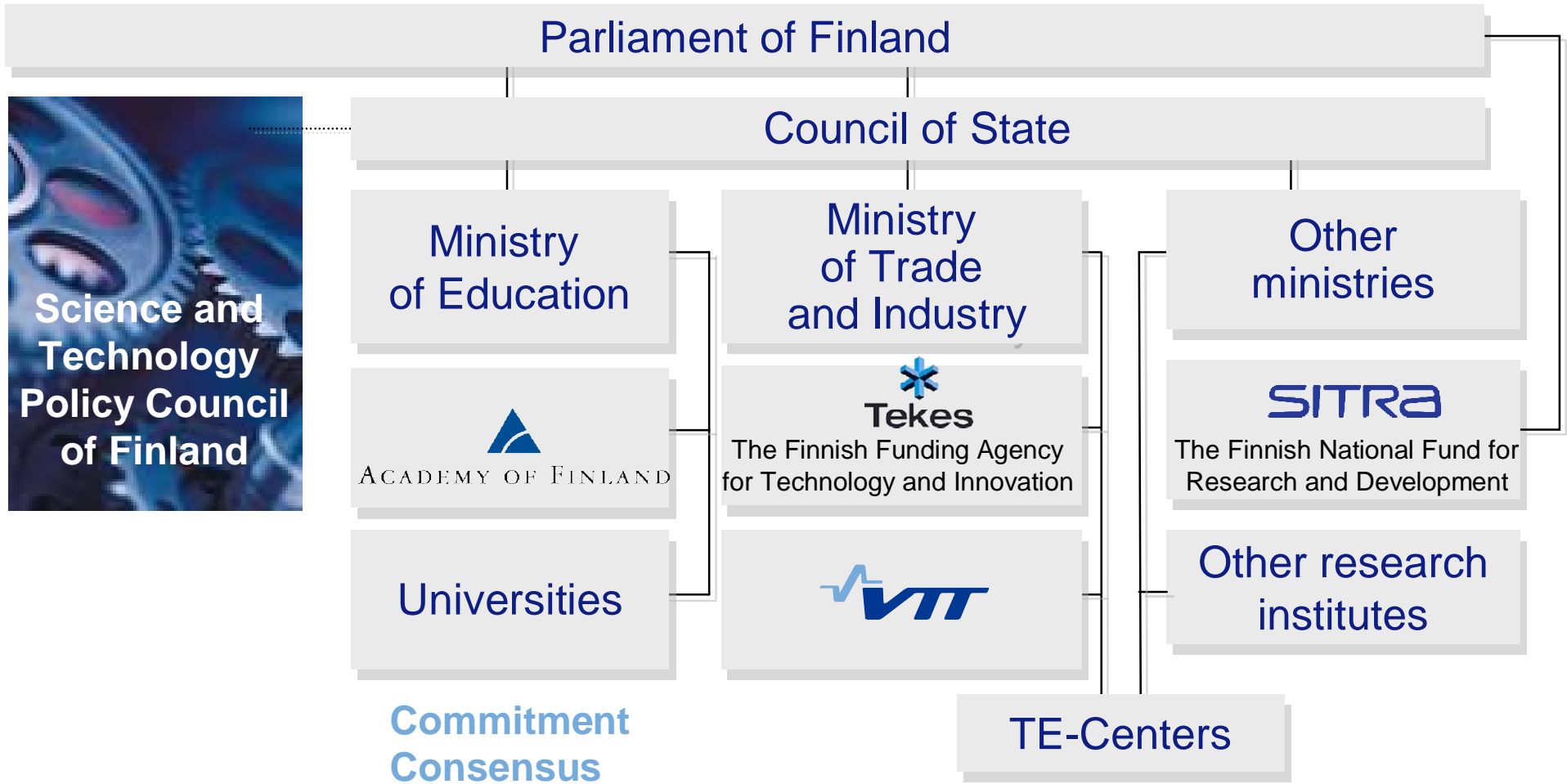
# VTT ON THE MAP



# VTT'S OPERATING MODEL



# PUBLIC DECISION MAKERS, FINANCIERS AND R&D PERFORMERS



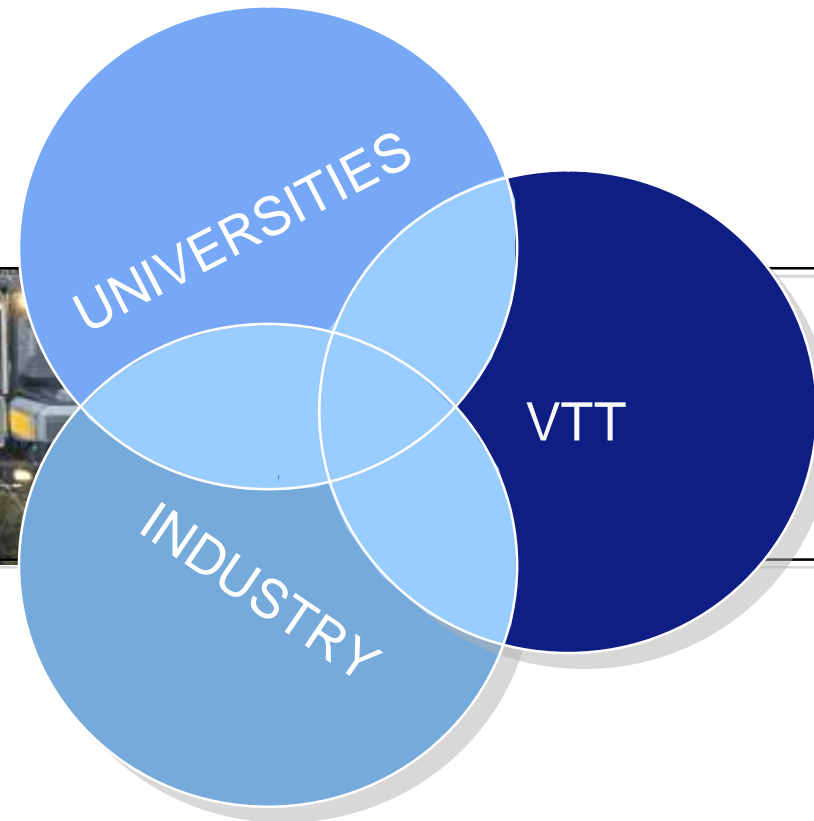
# VTT'S STATUS AS PERFORMER OF R&D WORK

Basic  
research



**Applied  
research**

Development  
work





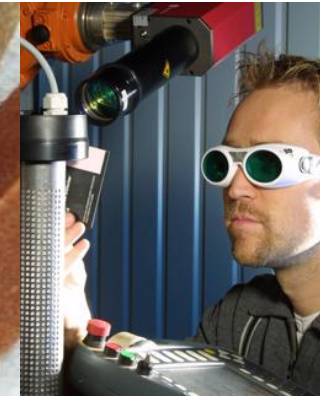
## EXAMPLES OF RECENT RESEARCH RESULTS



Intelligent packages on a conventional printing machine



Environmentally-friendly wood-plastic composite materials



High-speed laser welding



Biotechnology for medicine production



Technology for decentralised production of bioethanol

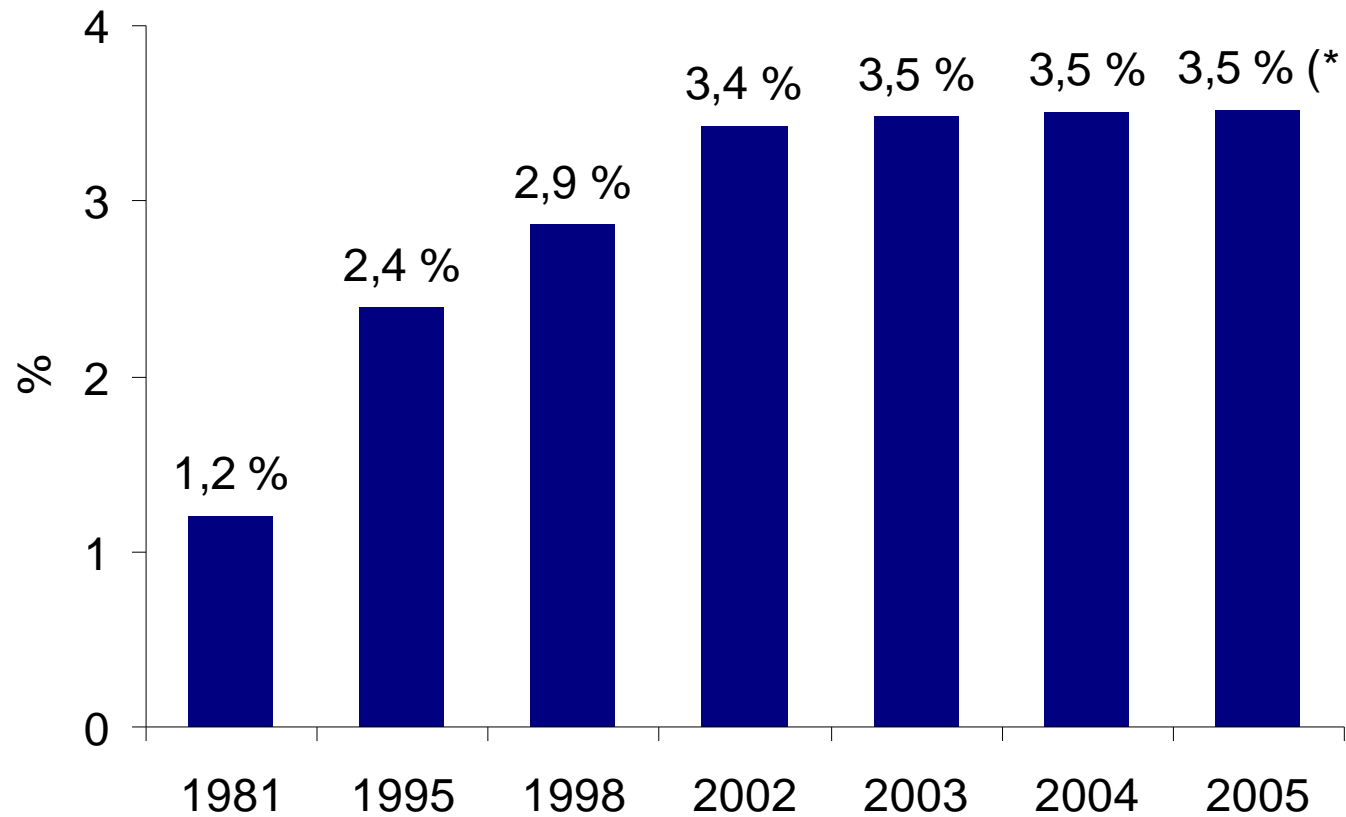


Mobile technology and new services for mobile users



Sensor and detector technology for satellites

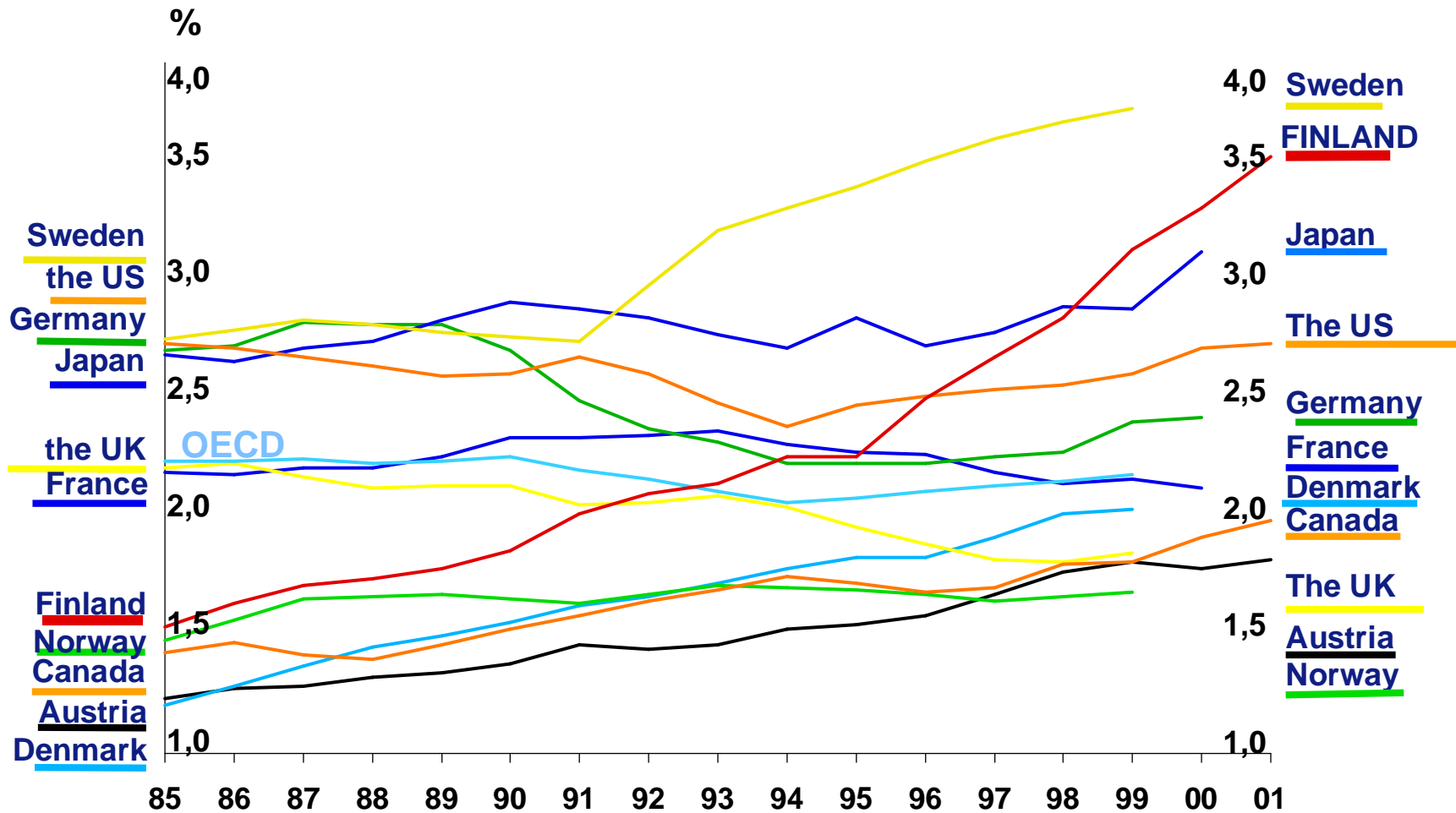
## GDP SHARE OF R&D EXPENDITURE IN FINLAND



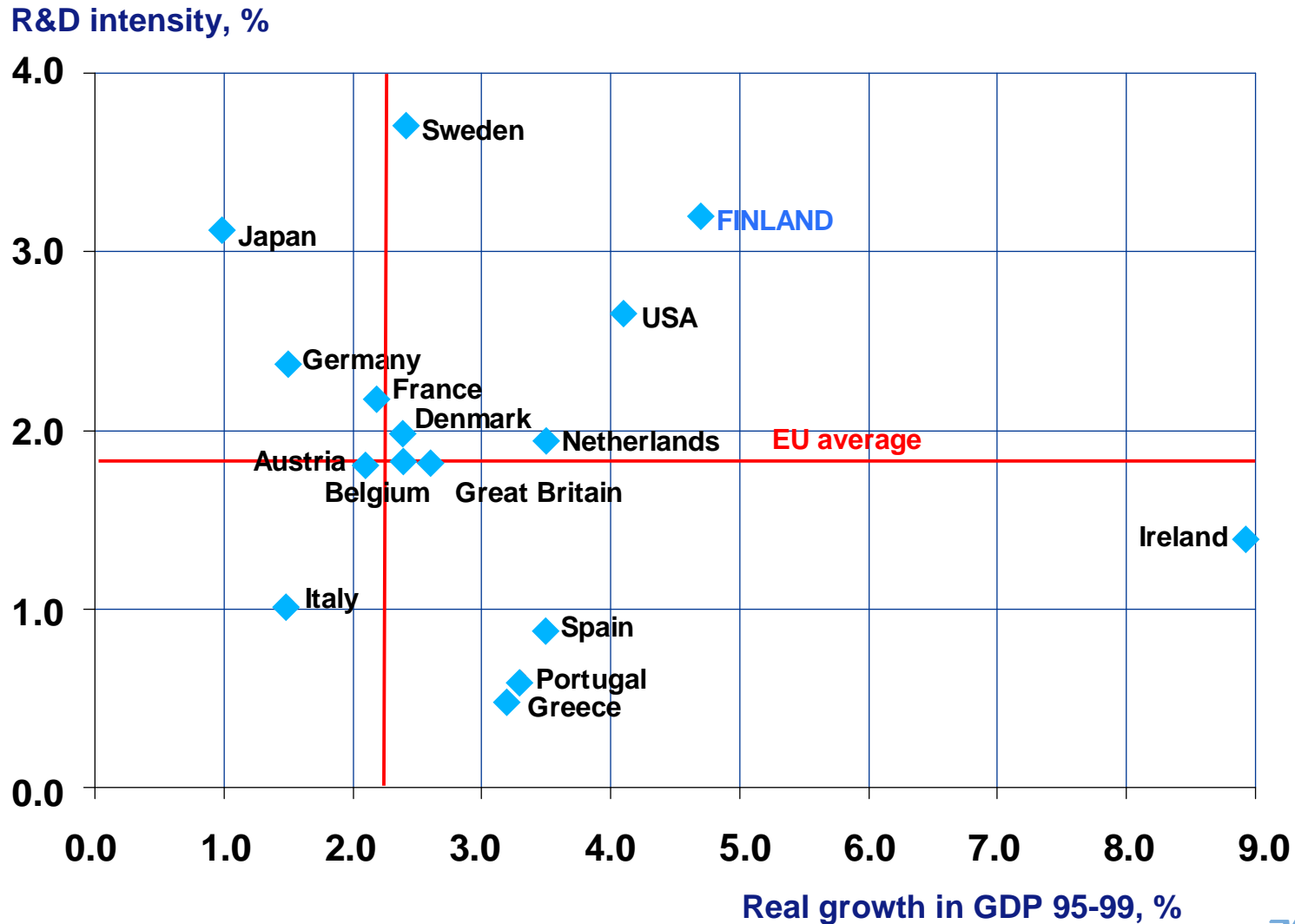
Source: Statistics Finland

\*) forecast

# R&D IN SOME OECD COUNTRIES (% of GDP)



# R&D INTENSITY (R&D costs/value added) AND GDP GROWTH IN SOME COUNTRIES



Source:  
Statistics  
Finland



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