

# Mission Statement

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The basic task of Helsinki University of Technology is to conduct scientific research, to provide teaching of the highest level, united with research, and to promote science and art.

Helsinki University of Technology operates where research may have both scientific and technological significance.

Helsinki University of Technology shall be an internationally significant promoter of science and technology.

Helsinki University of Technology is an internationally renowned university of technology, known for its high standards in research and teaching, its social impact and ability to change with the times.

Helsinki University of Technology is a pioneer in facilitating co-operation with leading universities and innovative enterprises.

The researchers, teachers, and students who seek to work or study at Helsinki University of Technology rank among the best in their countries.

## Helsinki University of Technology

- fosters freedom of research, art and teaching
- values creativity and critical thinking
- requires an honest, responsible and ethically sustainable approach in all its activities
- respects individuality and the special characteristics of all cultures
- provides challenges in work and co-operation
- promotes the well-being of staff and students

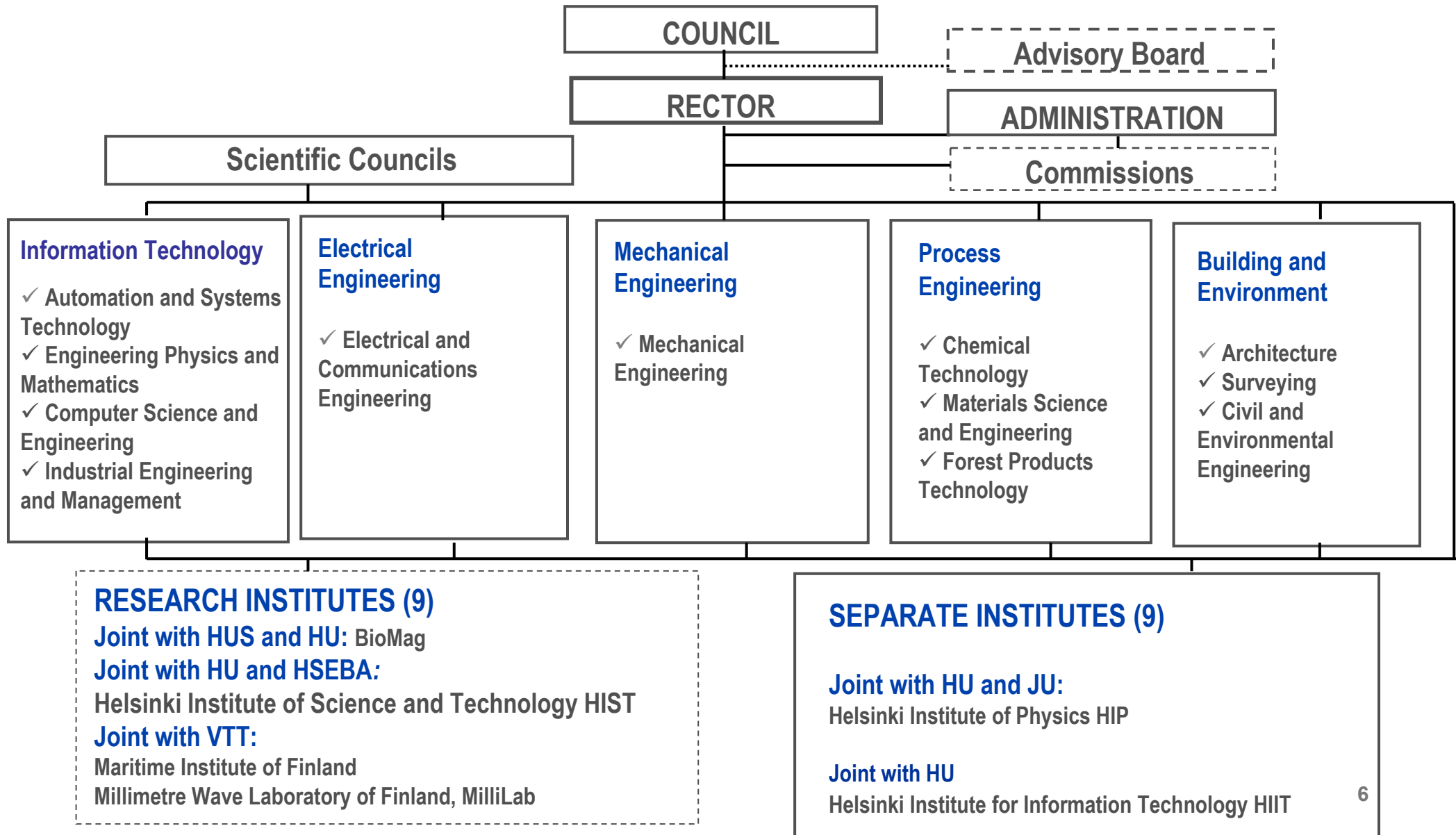
- High scientific standards
- Competitive graduate schools
- High-quality first degree programmes
- Talented students
- Ambitious co-operation with enterprises
- Attractive campus

”The mission of the university shall be to promote free research and scientific and artistic education, to provide higher education based on research, and to educate students to serve their country and humanity. In carrying out their mission, the universities shall interact with the surrounding society and promote the societal impact of research findings and artistic activities.

The universities shall seek to cooperate amongst themselves with a view to a viable division of work.”

*Act on Universities 4 §*

# Organisation



Architecture

Automation and Systems Technology

Chemical Technology

Civil and Environmental Engineering

Computer Science and Engineering

Electrical and Communications Engineering

Engineering Physics and Mathematics

Forest Products Technology

Industrial Engineering and Management

Materials Science and Engineering

Mechanical Engineering

Surveying

Centre for Urban and Regional Studies

Computing Centre

BIT Research Centre

Language Centre

Library

Lifelong Learning Institute DIPOLI

Low Temperature Laboratory

Metsähovi Radio Observatory

**Joint with University of Helsinki**

Helsinki Institute for Information Technology HIIT

**Joint with University of Helsinki and University of Jyväskylä**

Helsinki Institute of Physics HIP



Institute of Biomedical Engineering

Institute of Digital Communications IDC

Centre of Energy Technology

Intelligent Machines and Special Robotics Institute

Institute of Intelligent Power Electronics

Institute of Optics

Research Institute for Health Care Facilities SOTERA

HUT Centrum for Neurosystems

Centre for New Materials UMK

Joint with HUS (Helsinki and Uusimaa Hospital Group) and UH (University of Helsinki)

BioMag

Joint with UH and HSEBA

Helsinki Institute of Science and Technology HIST

Joint with VTT (Technical Research Centre of Finland)

Maritime Institute of Finland

Millimetre Wave Laboratory of Finland, Millilab

Architecture

Automation and Systems Technology

Bioinformation Technology

Chemical Technology

Civil and Environmental Engineering

Communications Engineering

Computer Science and Engineering

Electronics and Electrical Engineering

Engineering Physics and Mathematics

Energy and HVAC Technology

Forest Products Technology

Geomatics

Information Networks

Industrial Engineering and Management

Landscape Architecture

Materials Science

Mechanical Engineering

Real Estate Economics

Structural Engineering and Building

Technology

## Nominated by the Academy of Finland

- Bio- and Nanopolymers Research Group 2002-07
- Smart and Novel Radios Research Unit 2002-07 (SMARAD)
- Computational Complex Systems Research 2006-2011
- Adaptive Informatics Research 2006-2011
- Low Temperature Nanoscience 2006-2011
- Computational Nanoscience COMP 2006-2011
- Systems Neuroscience and Neuroimaging Research (UH,TKK)  
2006-2011

## Joint with other Universities

- From Data to Knowledge Research Unit 2002-07 (UH,TKK)
- Helsinki Brain Research Centre HBRC 2002-07 (UH, TKK, Helsinki and Uusimaa Hospital Group)
- Inverse Problems (TKK, UH,UKU,LUT,UO) 2006-2011

## Outstanding Junior Research Groups nominated by Helsinki University of Technology

- Asymmetric Catalysis Group
- BioS - Biological Physics and Soft Materials Group
- Thermomechanical Treatments
- Water and Development

## Nominated by the Ministry of Education

- Basic studies in Information Processing Science, 2004-06
- Department of Materials Science 2007-09
- Laboratory of Urban and Regional Studies 2007-09

## Nominated by Helsinki University of Technology 2004-06

- Option of Chemical Industrial Engineering
- Department of Materials Science
- Department of Forest Products Technology

## High-quality Adult Education University

Nominated by the Ministry of Education

- Helsinki University of Technology, 2007-09



# Bachelor of Science (Technology)

(180 cr)

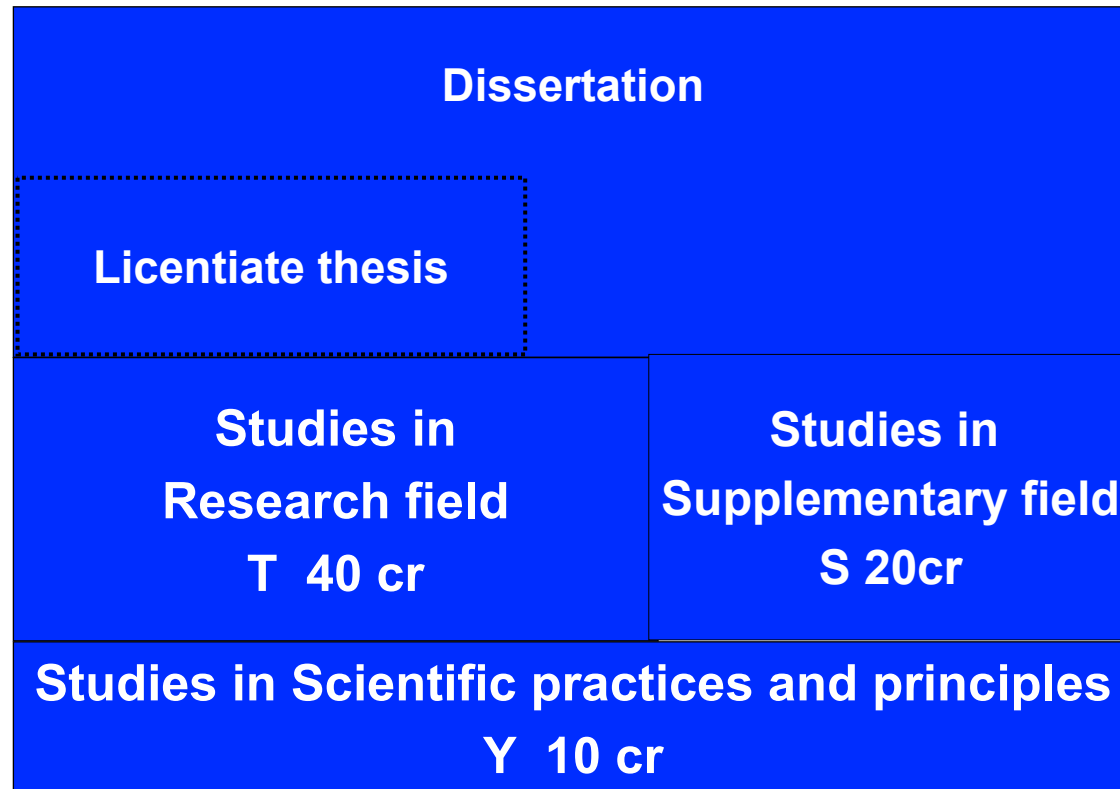
|   |                                      |  |
|---|--------------------------------------|--|
| <b>Intermediate<br/>module<br/>A2 20 cr</b> | <b>Basic<br/>module<br/>B1 20 cr</b> | <b>Bachelor's<br/>thesis and seminar<br/>K 10 cr</b> |
|   |                                      | <b>Elective studies V<br/>10 cr</b>                  |
| <b>General studies<br/>P 80 cr</b>          |                                      | <b>Basic<br/>module<br/>A1 20 cr</b>                 |
|   |                                      | <b>Programme<br/>studies O<br/>20 cr</b>             |

## Basic model (120 cr)

|                                    |   |                                   |  |
|------------------------------------|---|-----------------------------------|--|
| <b>Elective studies</b><br>W 20 cr | <b>Methodological principles</b><br>M 10 cr | <b>Master's thesis</b><br>D 30 cr |  |
| <b>Advanced module</b><br>A3 20 cr | <b>Intermediate module</b><br>B2 20 cr      | <b>Special module</b><br>C 20 cr  |  |

# The degree structure of doctoral studies

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**1 253**      **Number of degrees**

1 017      Master's degrees (female 26.6%, foreigners 6.9%)

86      Licentiate degrees

150      Doctor's degrees (female 30.7%, foreigners 9.3%)

**15 166**      **Number of students**

12 381      Undergraduates (female 19.9%, foreigners 3.7%)

10 880      M.Sc

1 501      B.Sc

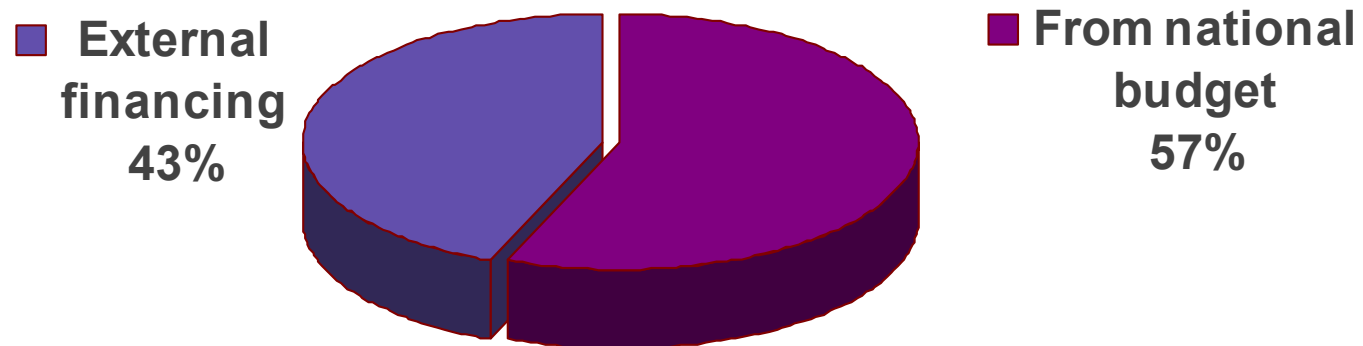
2 785      Graduates (female 27.6%, foreigners 10.5%)

**93**      **Statistical full-time students at the open  
university**

**13 328**      **Adult students**

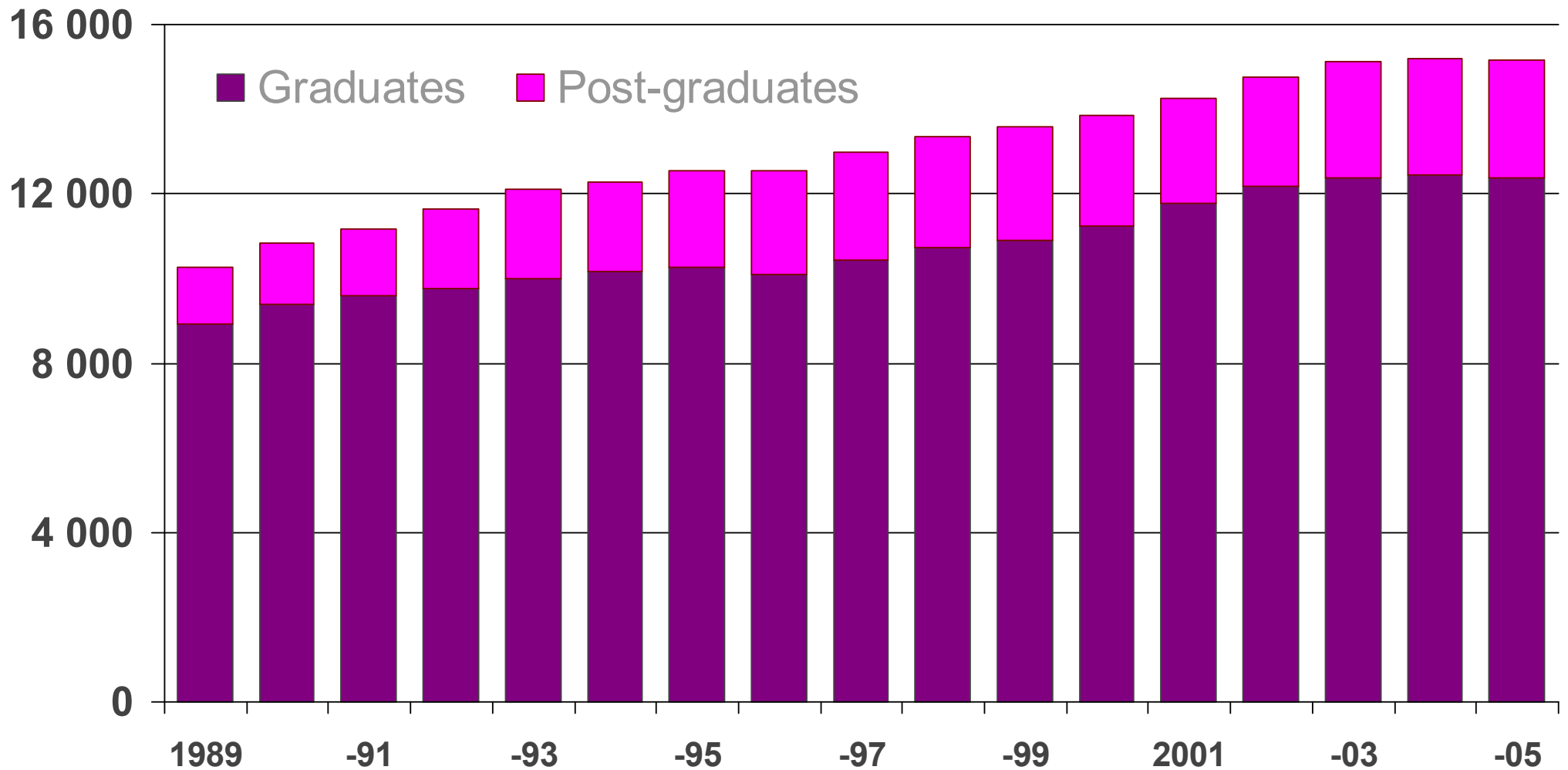
# Resources 2005

Financing total  
205 003 000 EUR

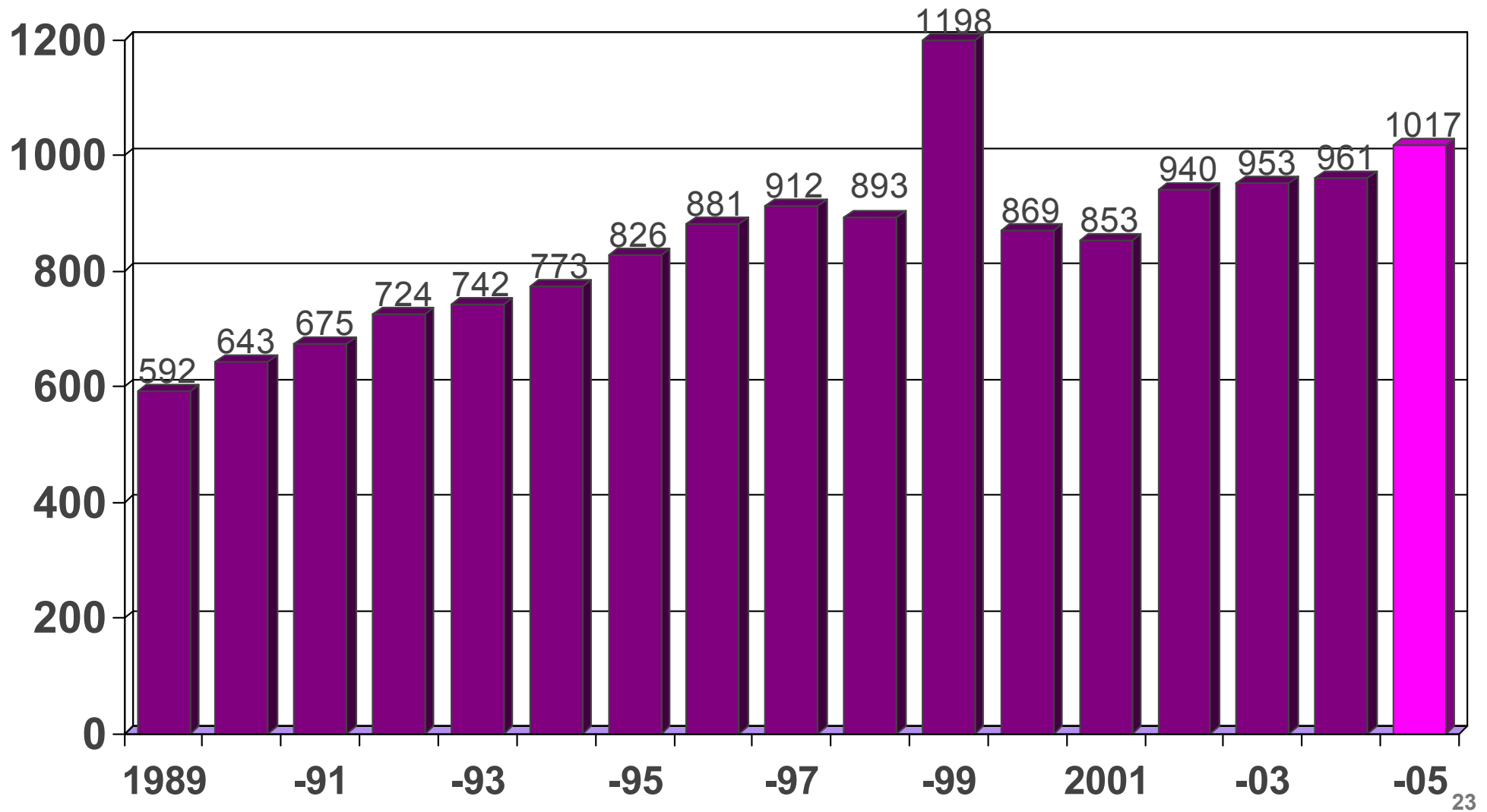


3258 FTE Staff

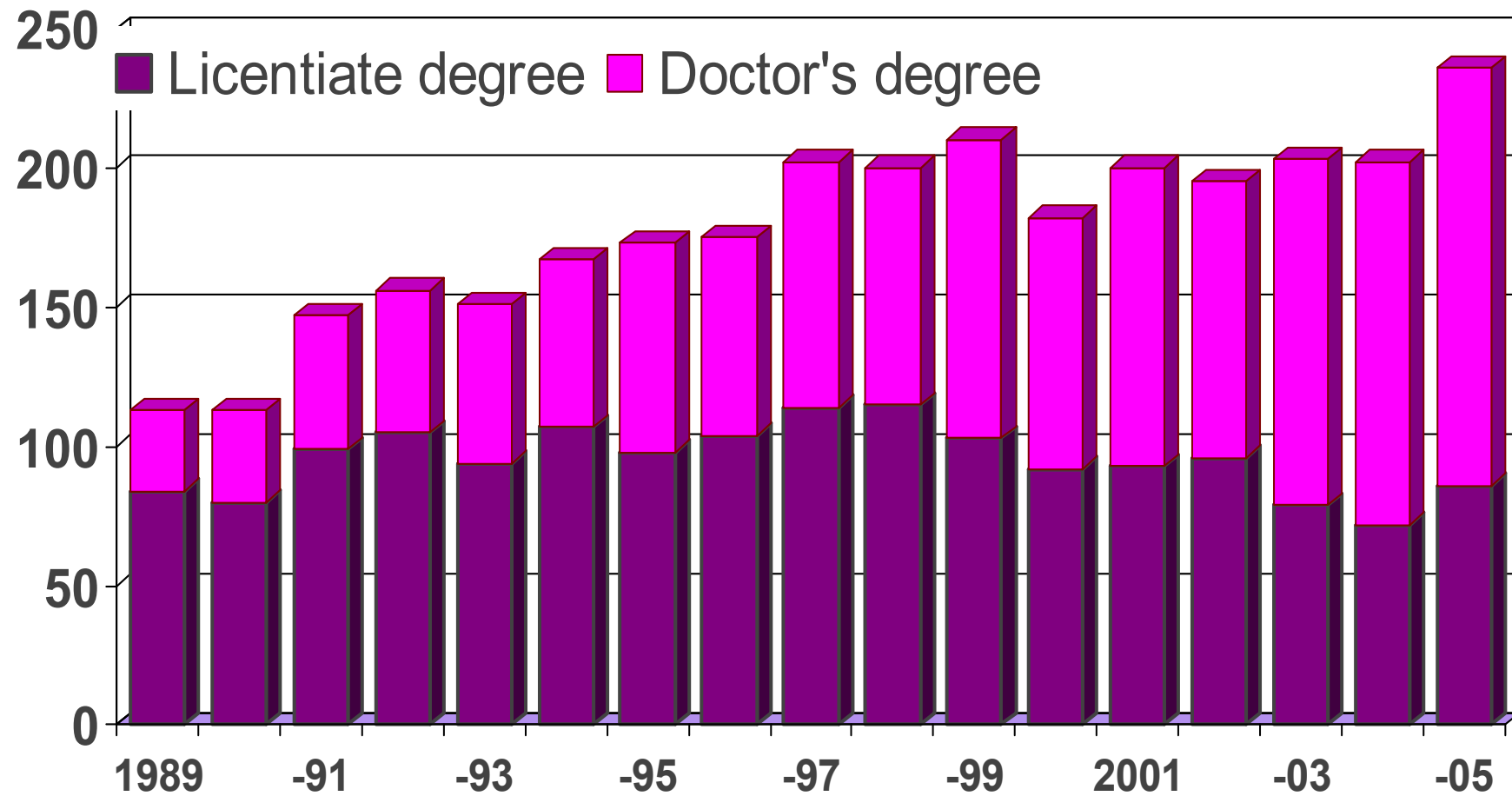
# Number of Students



# Master's Degrees

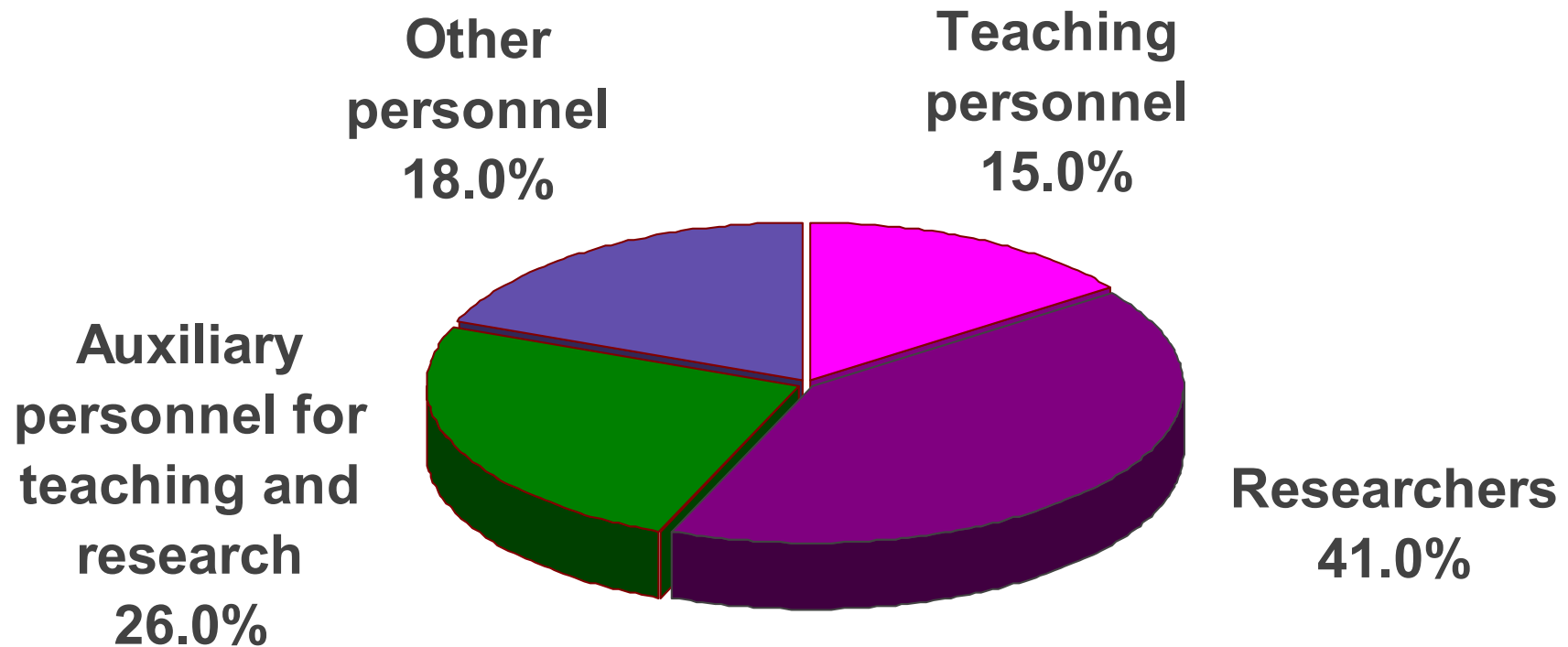


# Doctor's and Licentiate Degrees



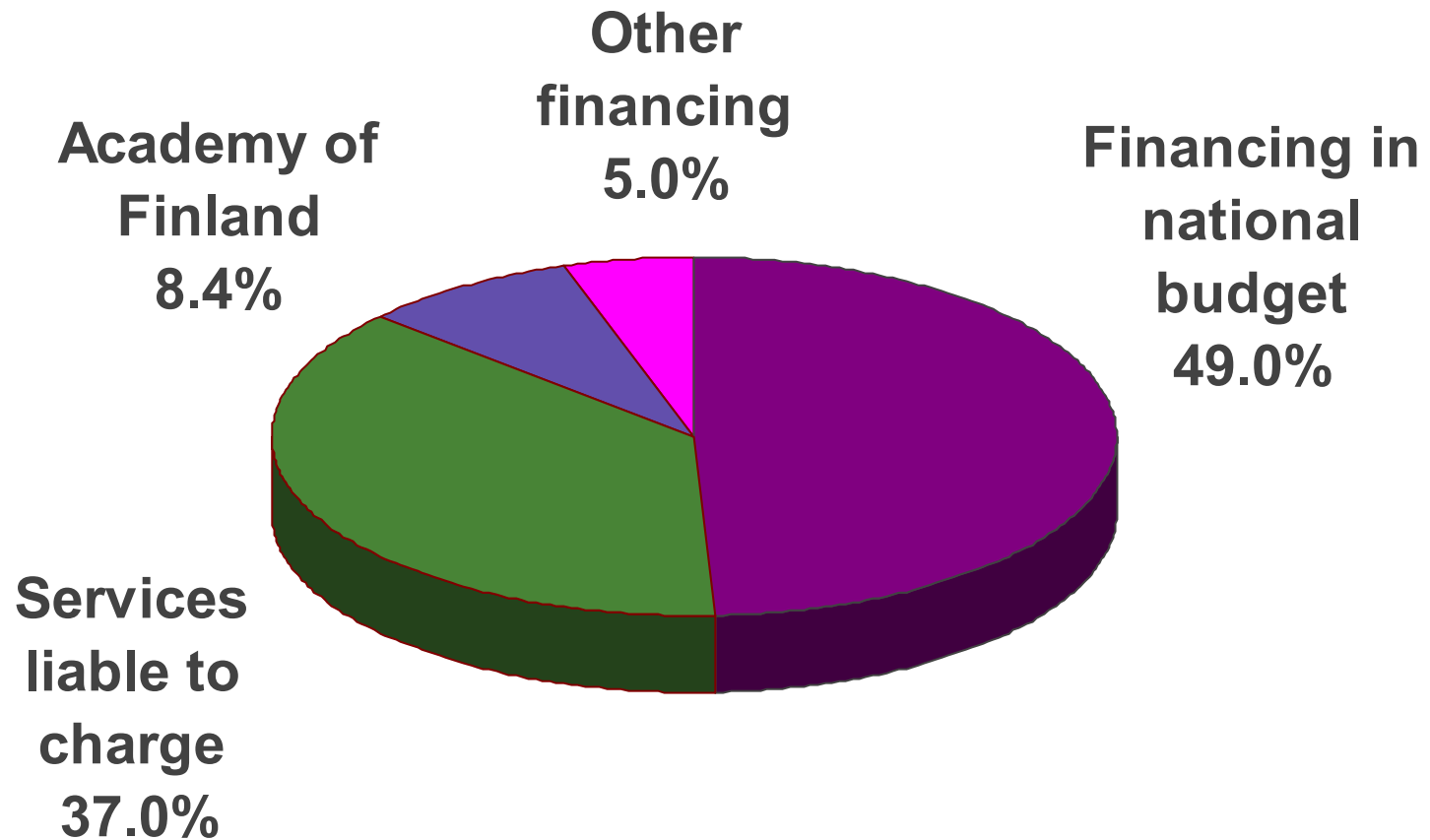


# Personnel 2005



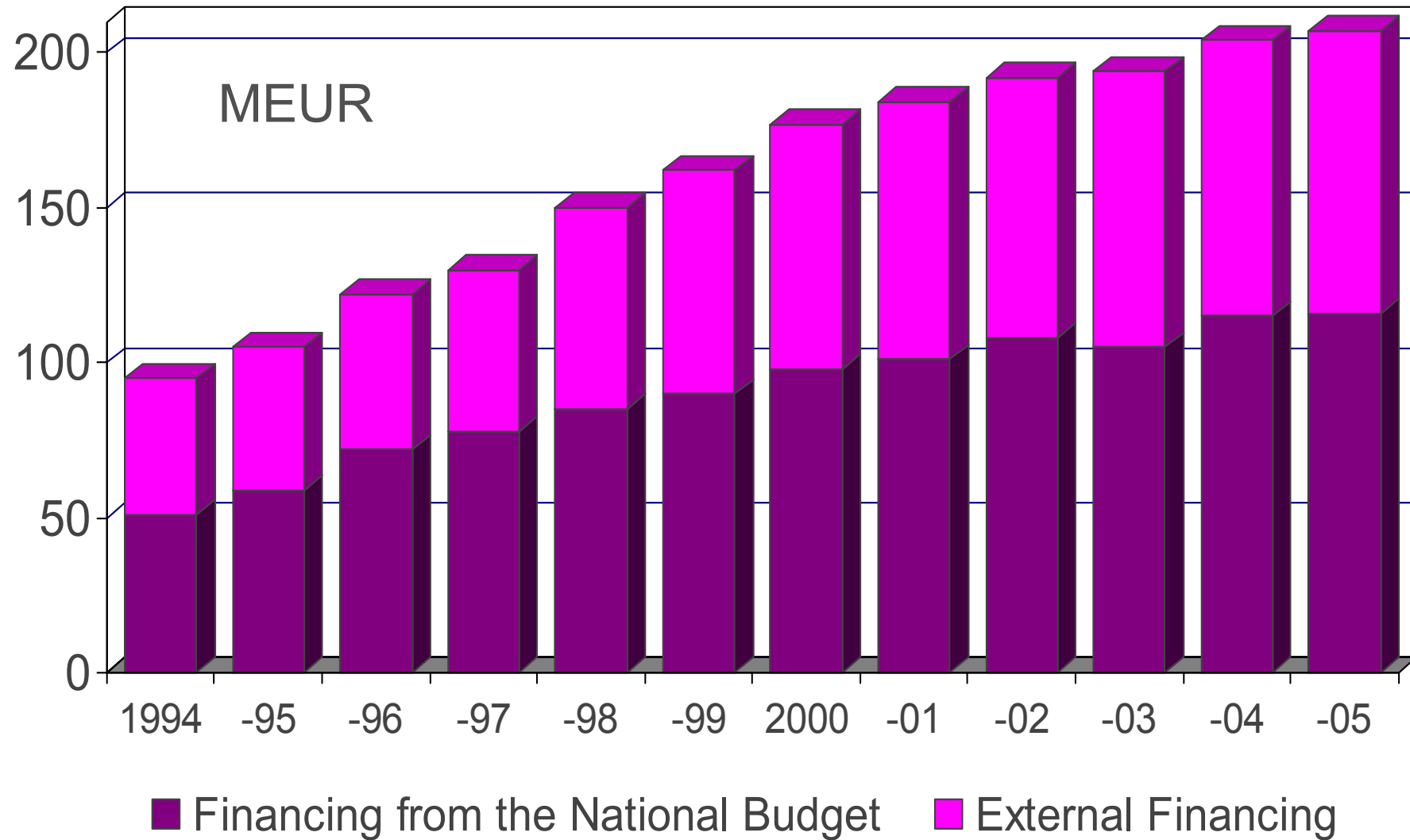
Total of FTE 3 258

# Personnel 2005

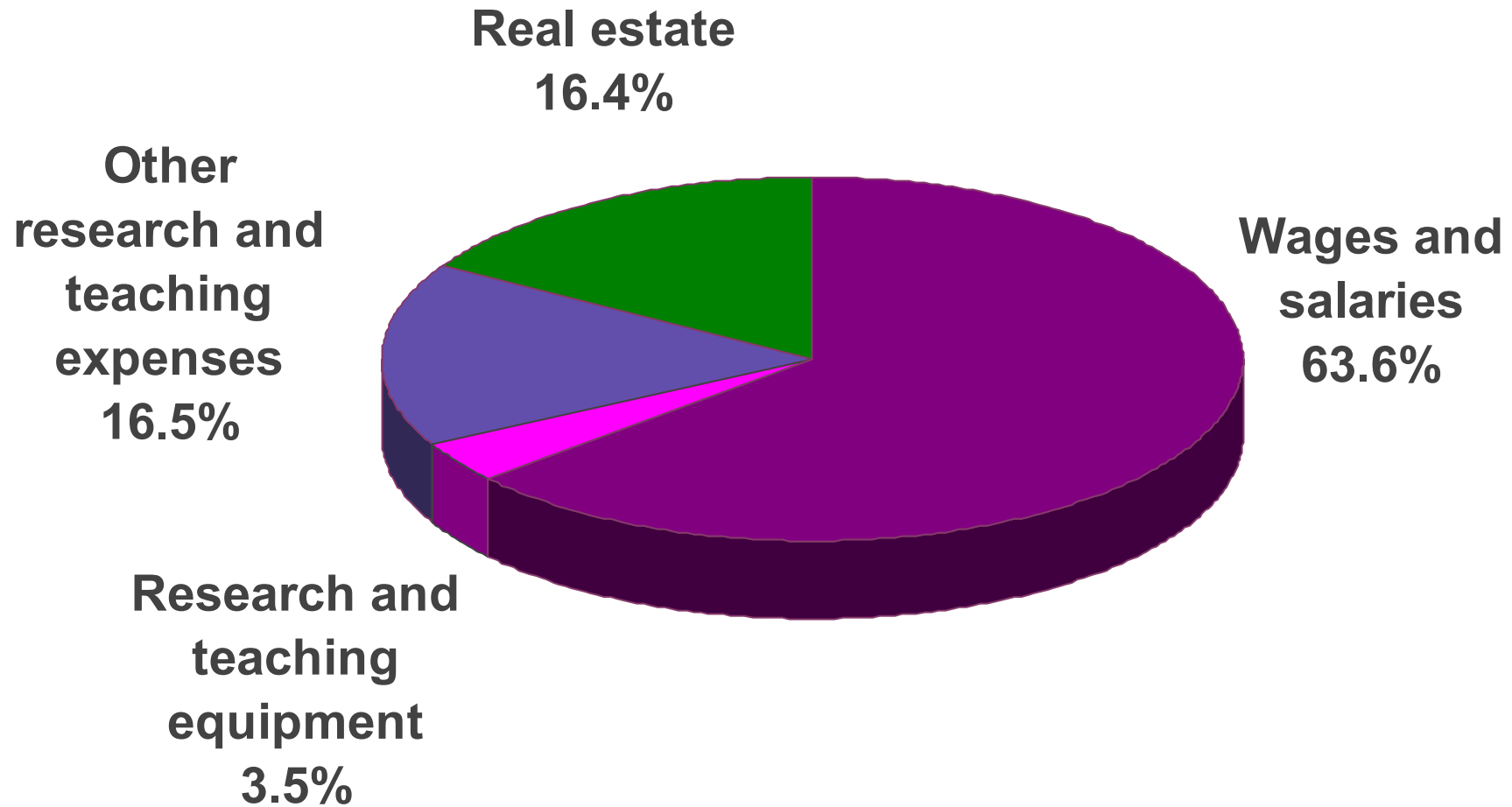


Total of FTE 3 258

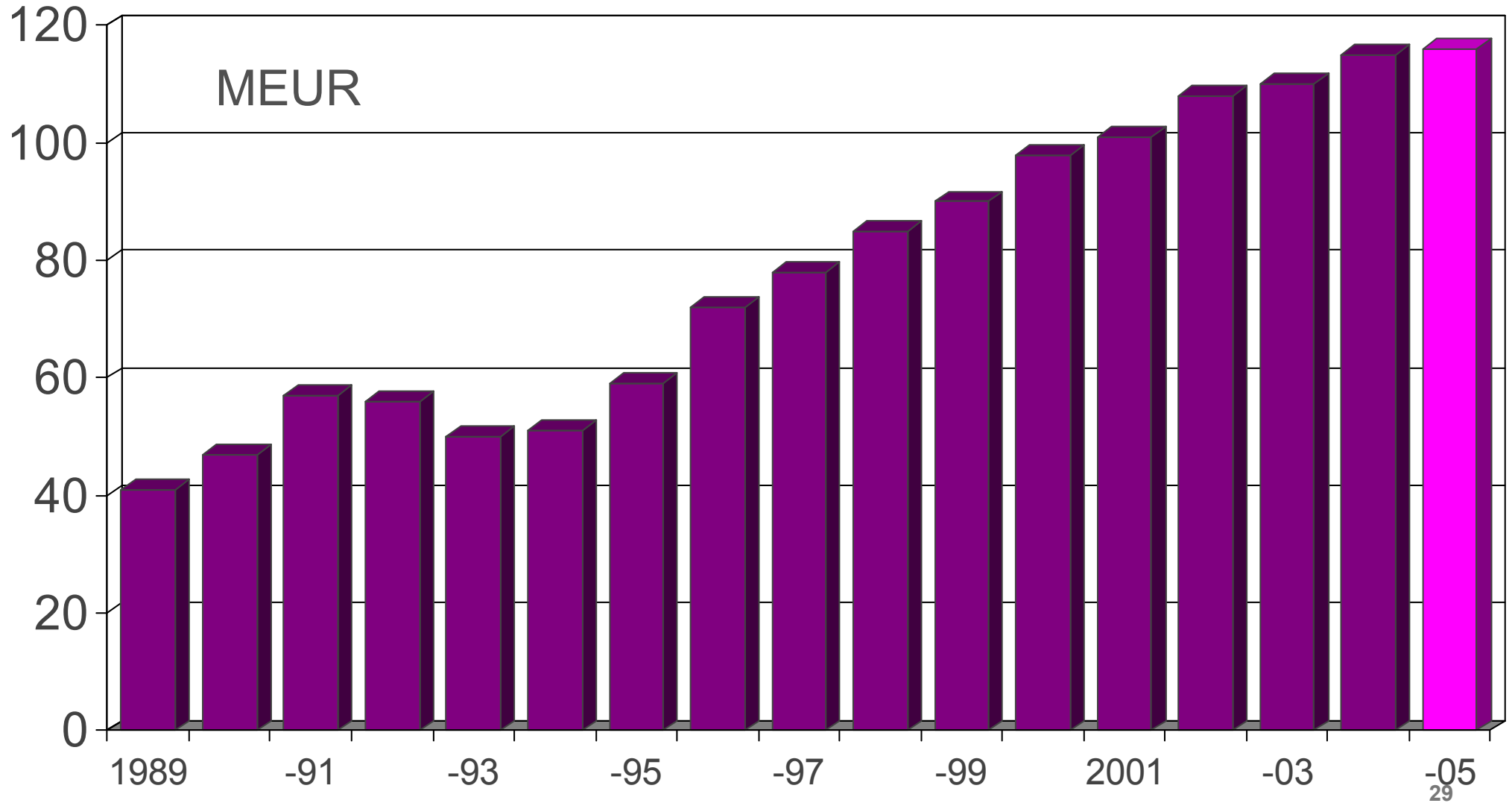
# Financing 2005



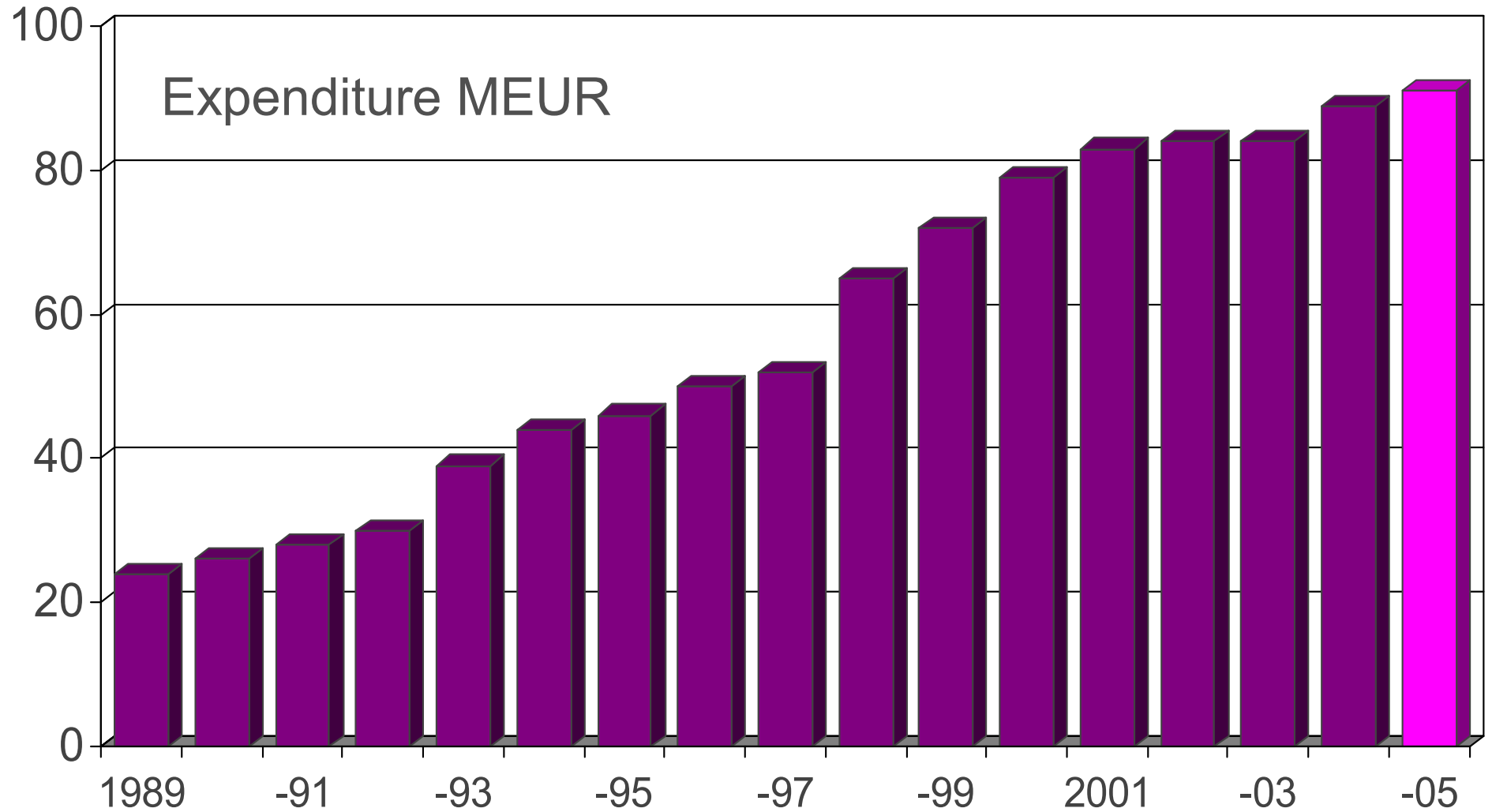
# Expenditure 2005



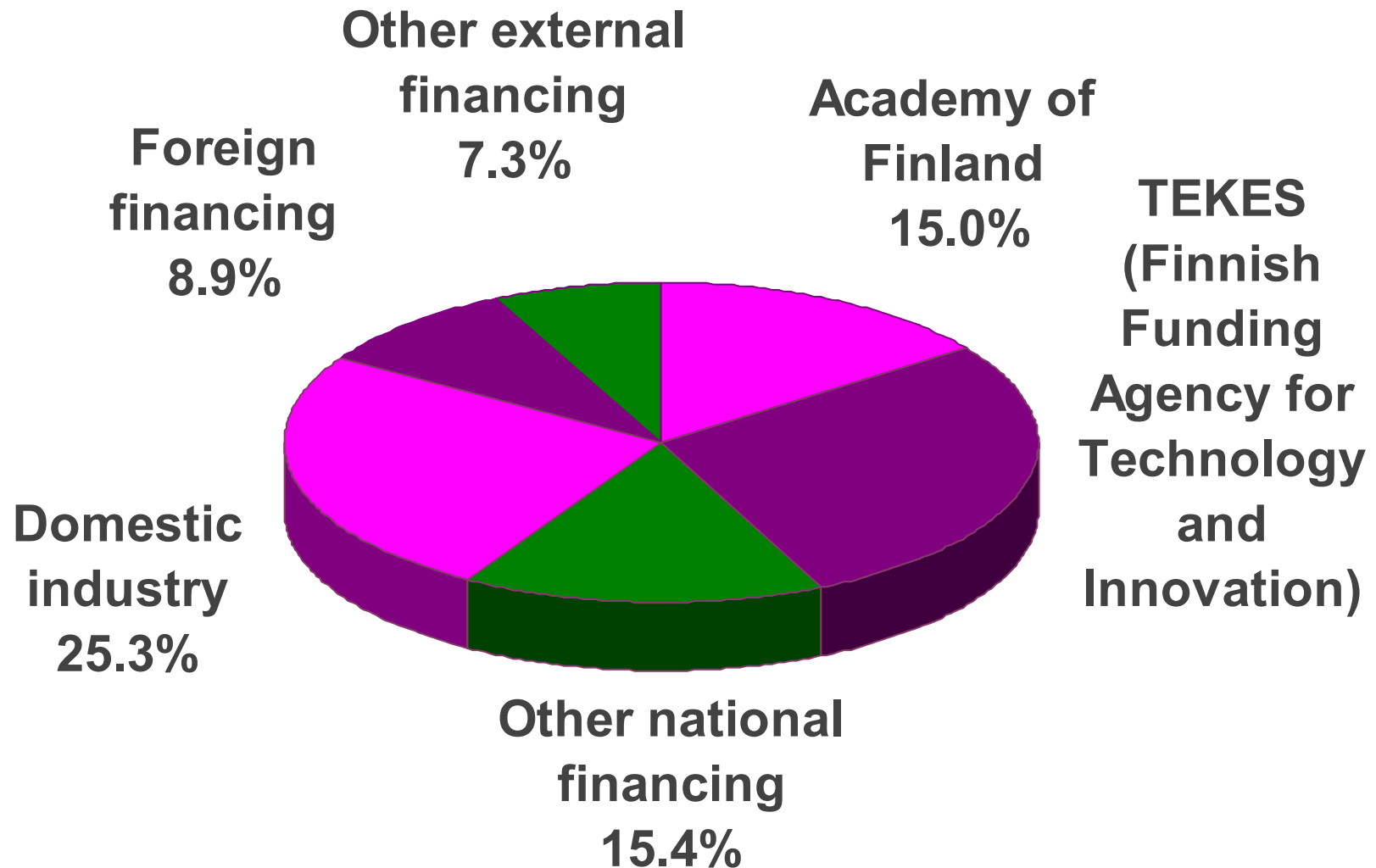
# Financing (National Budget)



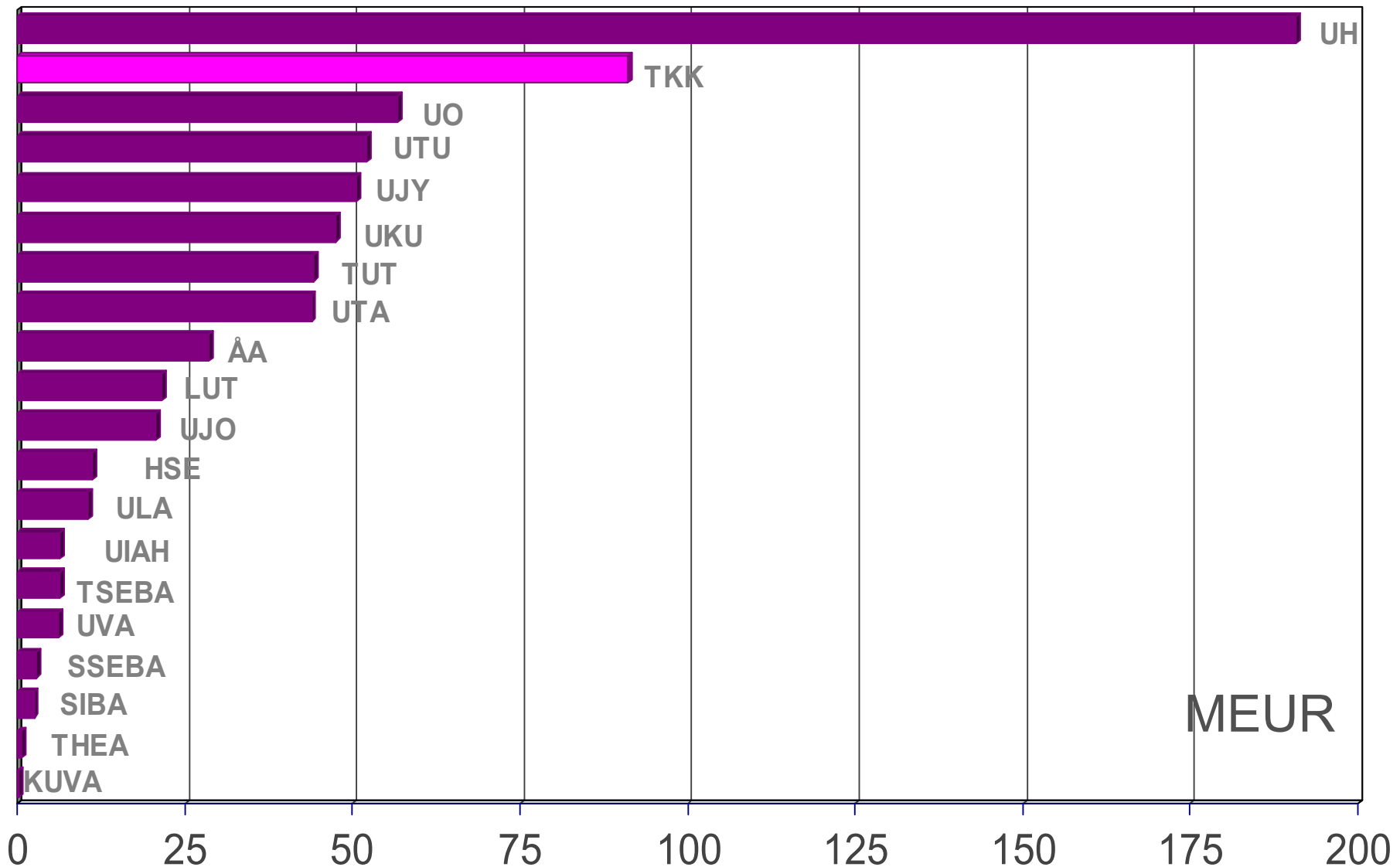
# External Financing



# External Financing 2005



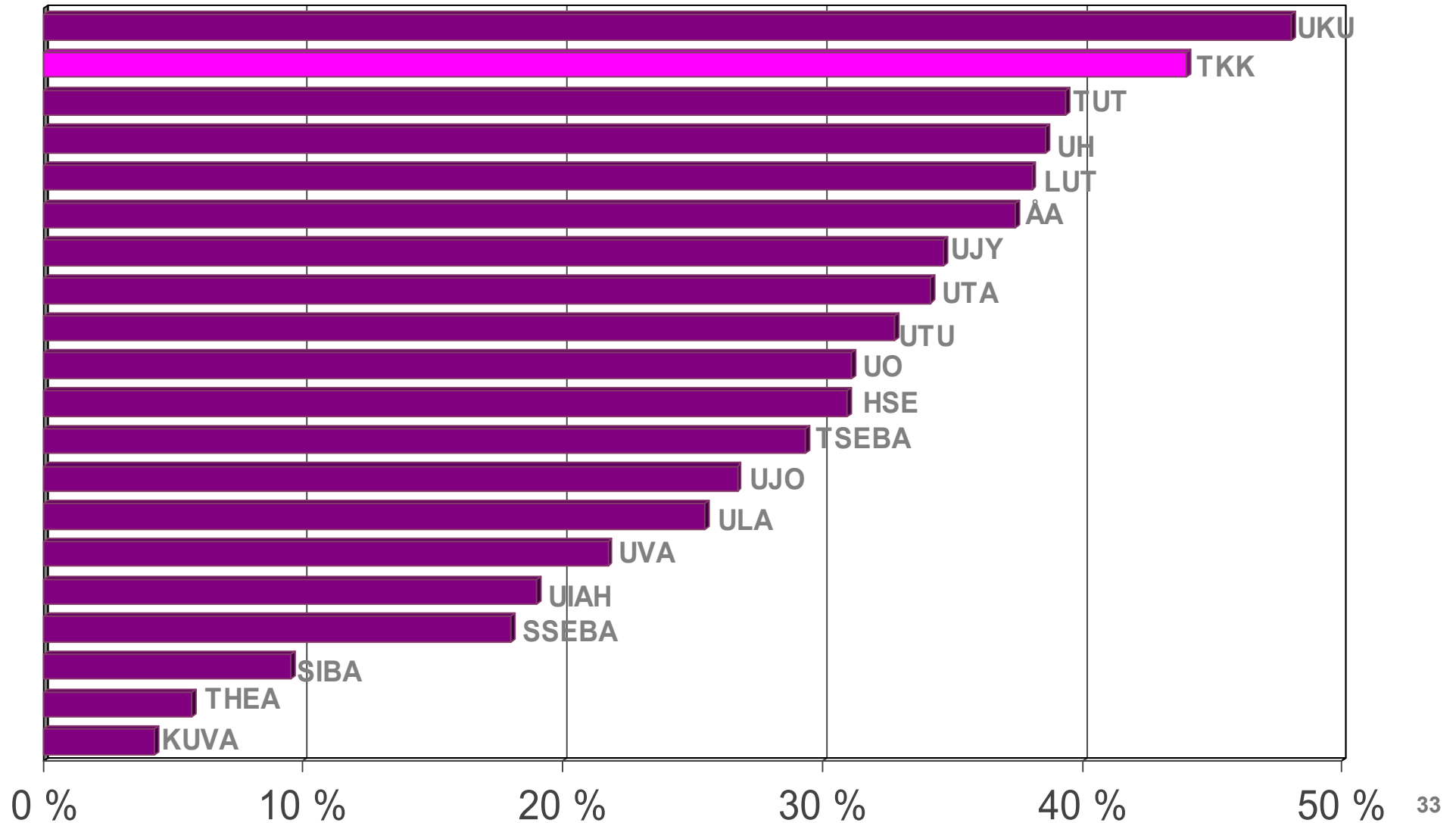
## Finnish Universities





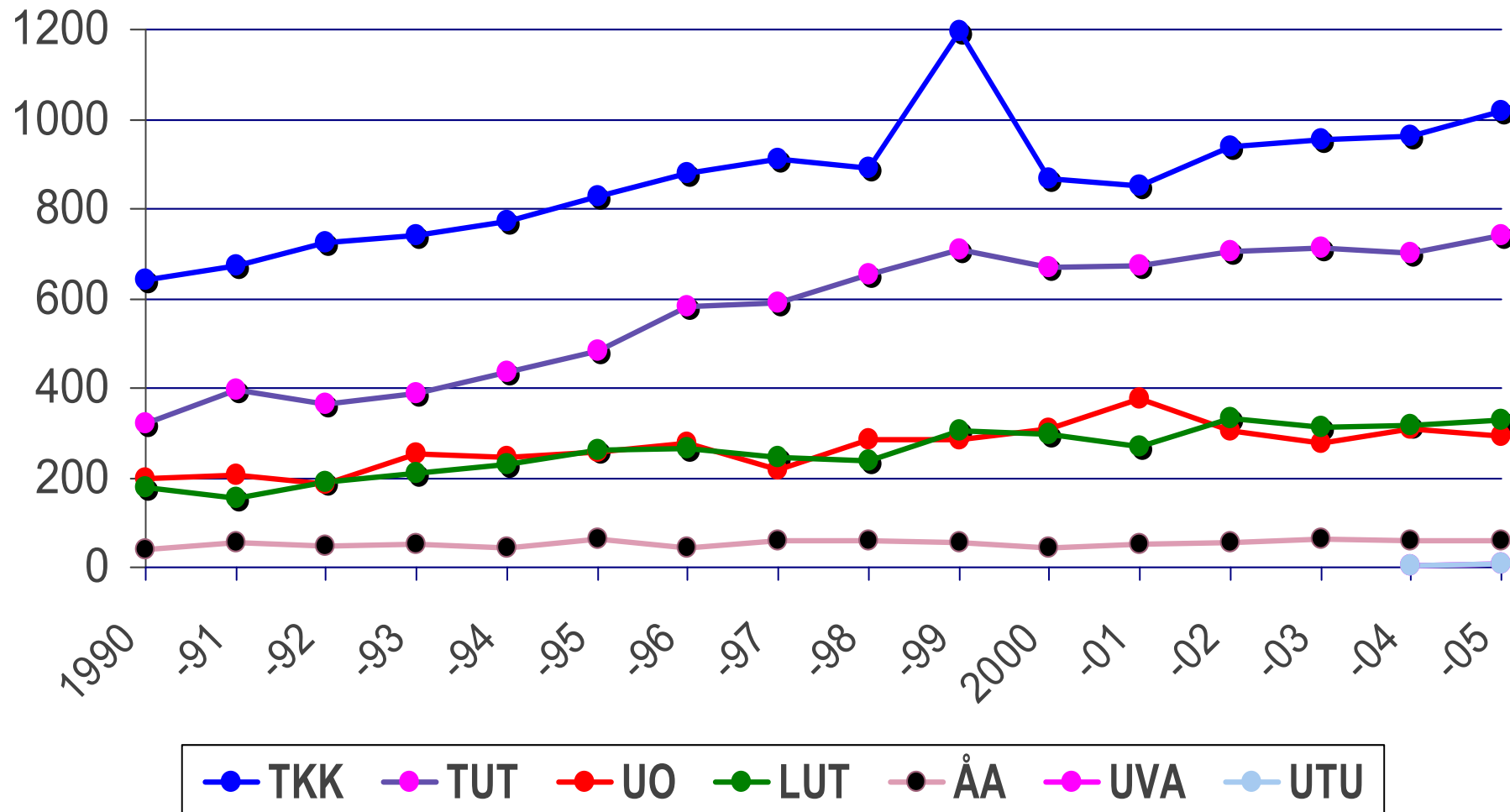
# External Financing 2005

Finnish Universities (% of the income)



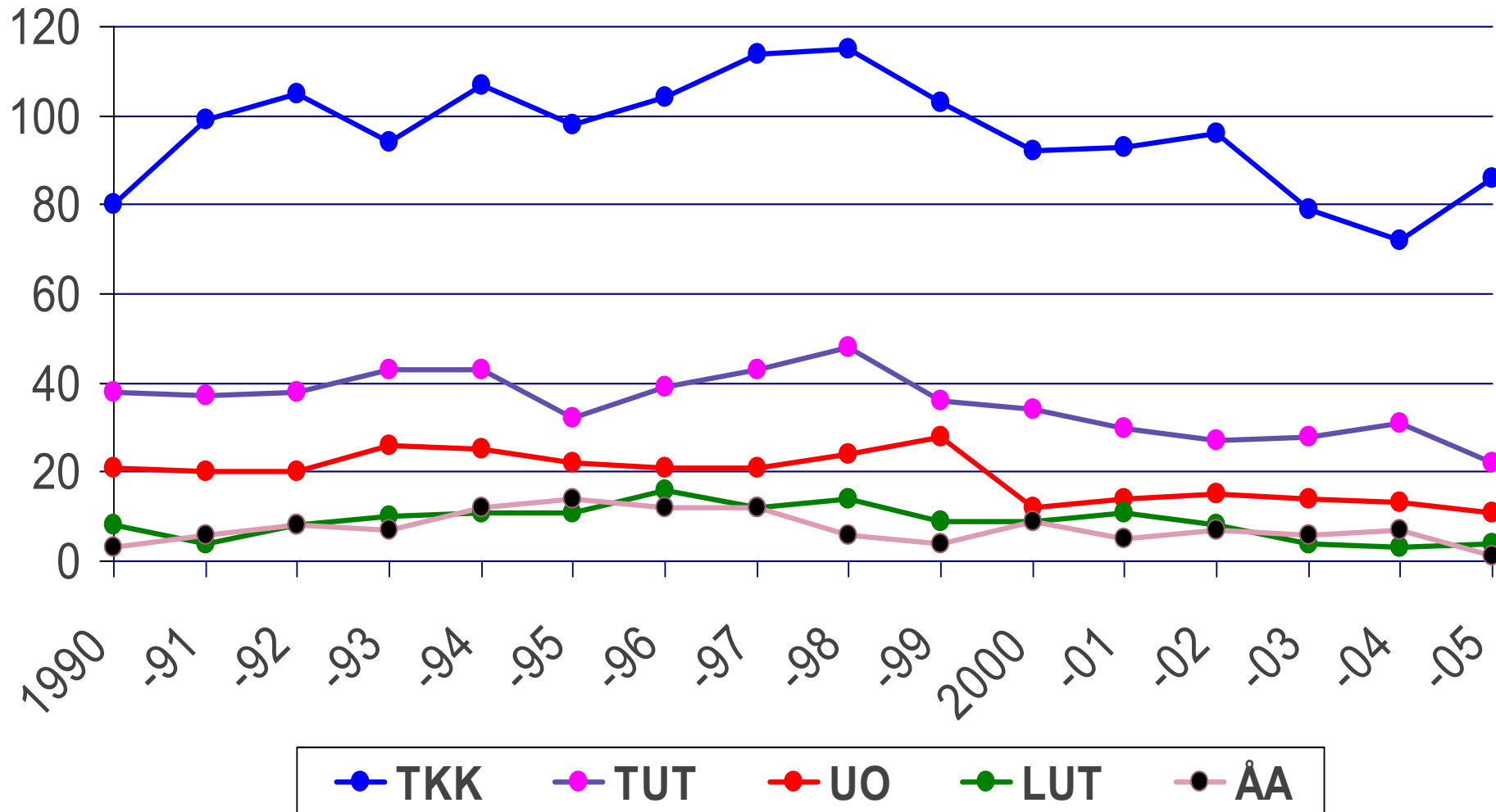
# Master's Degrees 1990 - 2005

## Finnish Universities and Faculties of Technology



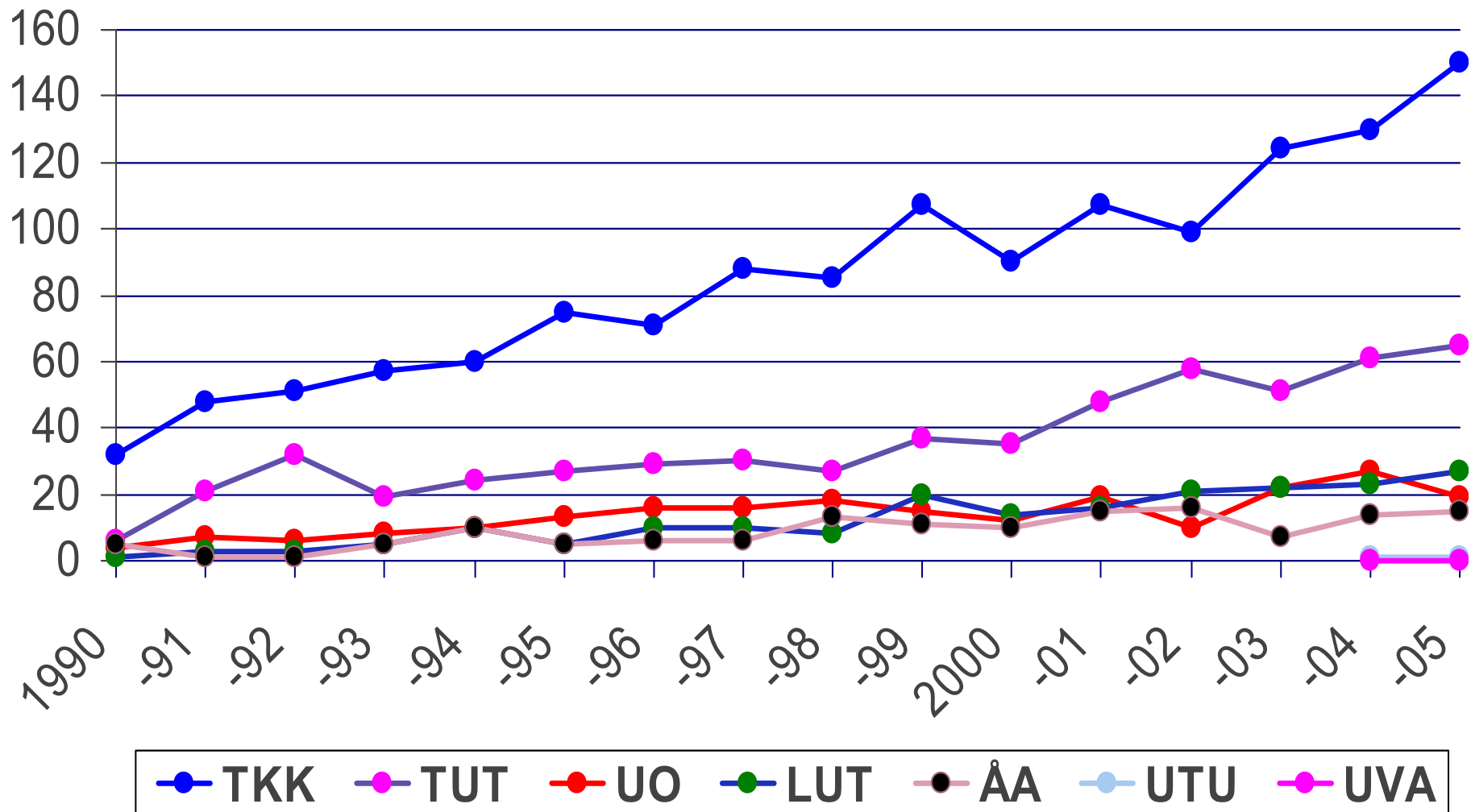
# Licentiate Degrees 1990 - 2005

## Finnish Universities and Faculties of Technology



# Doctor's Degrees 1990 - 2005

## Finnish Universities and Faculties of Technology



## Doctor's Degrees per Master's Degrees (%)

