



**MASARYK  
UNIVERSITY**  
Czech Republic

# **National Funding Opportunities**

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## Content

- MU research funding
- National funding opportunities
- European Structural and Investment Funds
- Internal Funding Opportunities and Research support at MU

## Different funding streams



1.

### National providers

- **GA ČR** (Czech Science Foundation)
- **TA ČR** (Technology Agency of CR)
- **Ministries**
- **EU/ SMR\* (SoMoPro)**



2.

### International sources

- **FP7 / Horizon 2020**
- EMB/EMBO
- EEA grants
- International Visegrad Fund
- US funding schemes
- Foundations
- etc.



3.

### EU Structural and Investment Funds

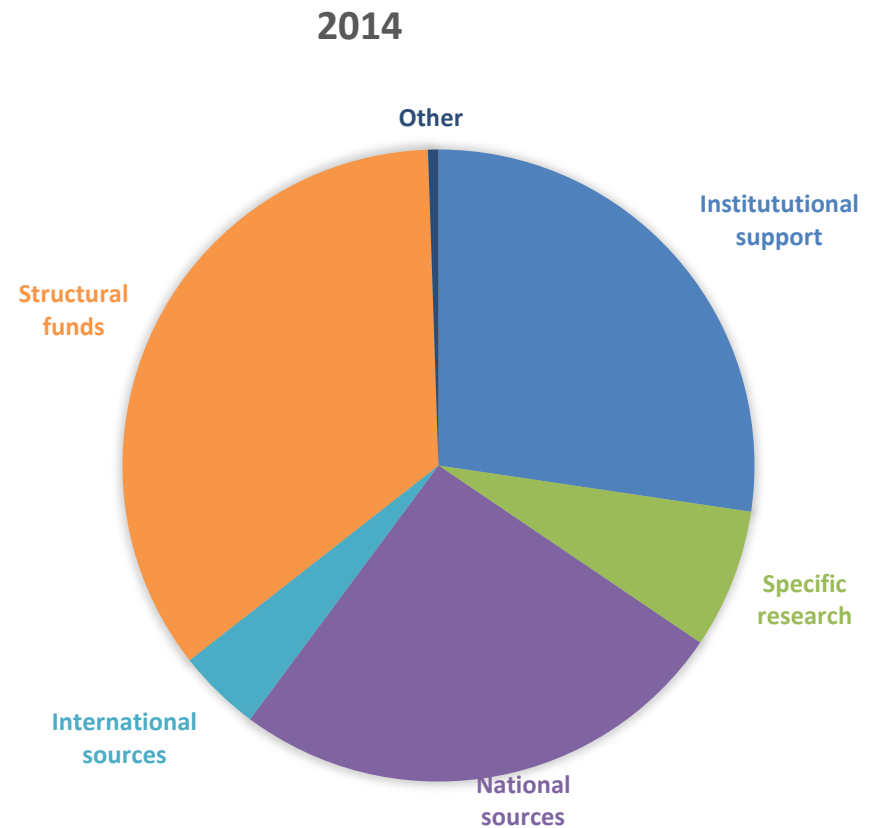
- **OP RDE** Operational Program Research, Development and Education
- **OP EIC** Operational Program Entrepreneurship, Innovation and Competitiveness

## Institutional support

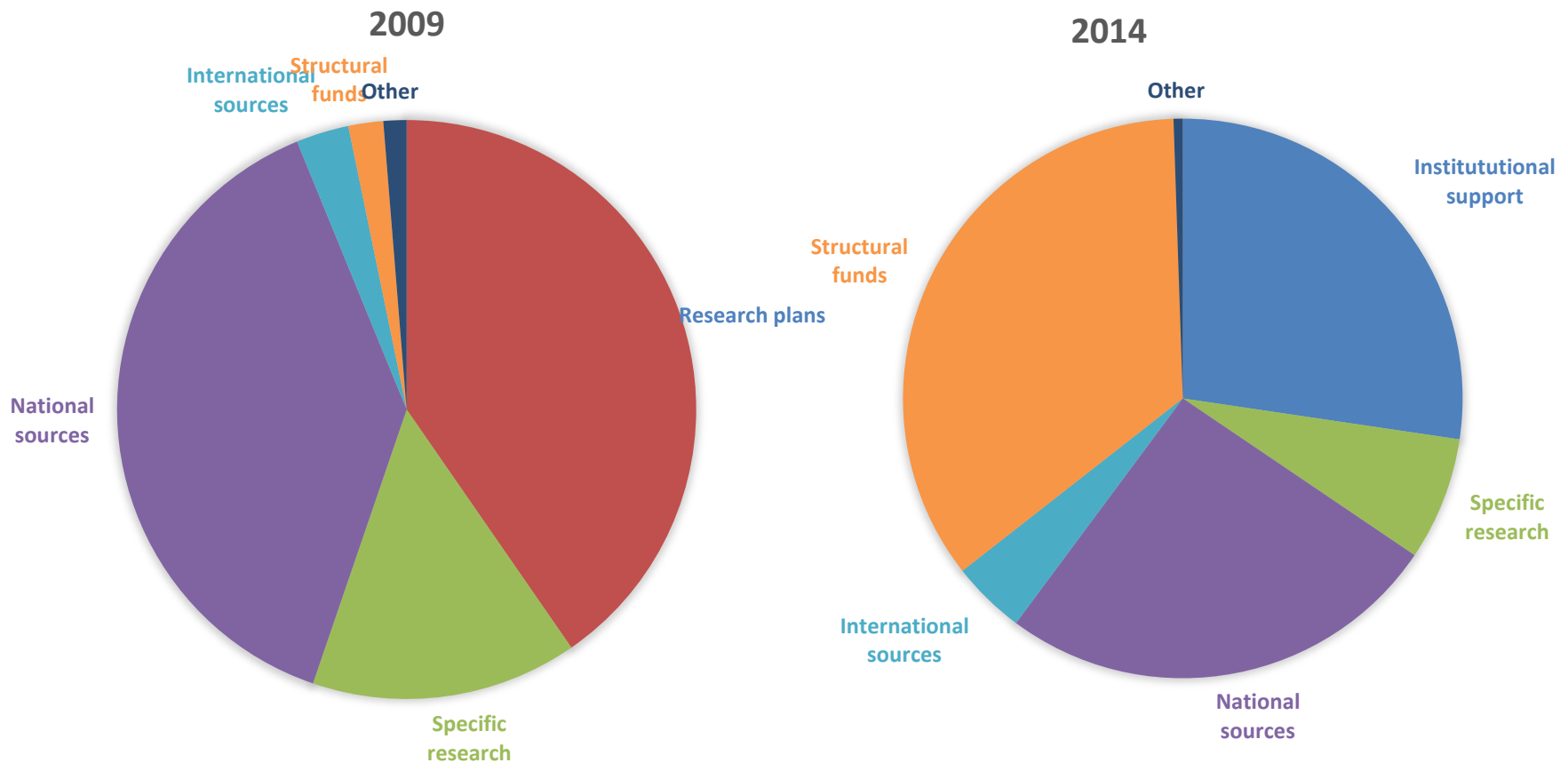
- **27% of all research expenses at MU**
  - Based on research evaluation results
  - Current methodology
    - Pillar I – publication results evaluation
    - Pillar II – quality of selected research results
    - Pillar III – patents and applied research results
- More at  
<http://www.vyzkum.cz/storage/att/471EC8E44A7C3AA09C01B666F1ED6B30/M2013-0815-kor2.pdf>

## MU Research Funding

- Institutional support and target-oriented funding – 34%
- Projects through grant competition – 66%

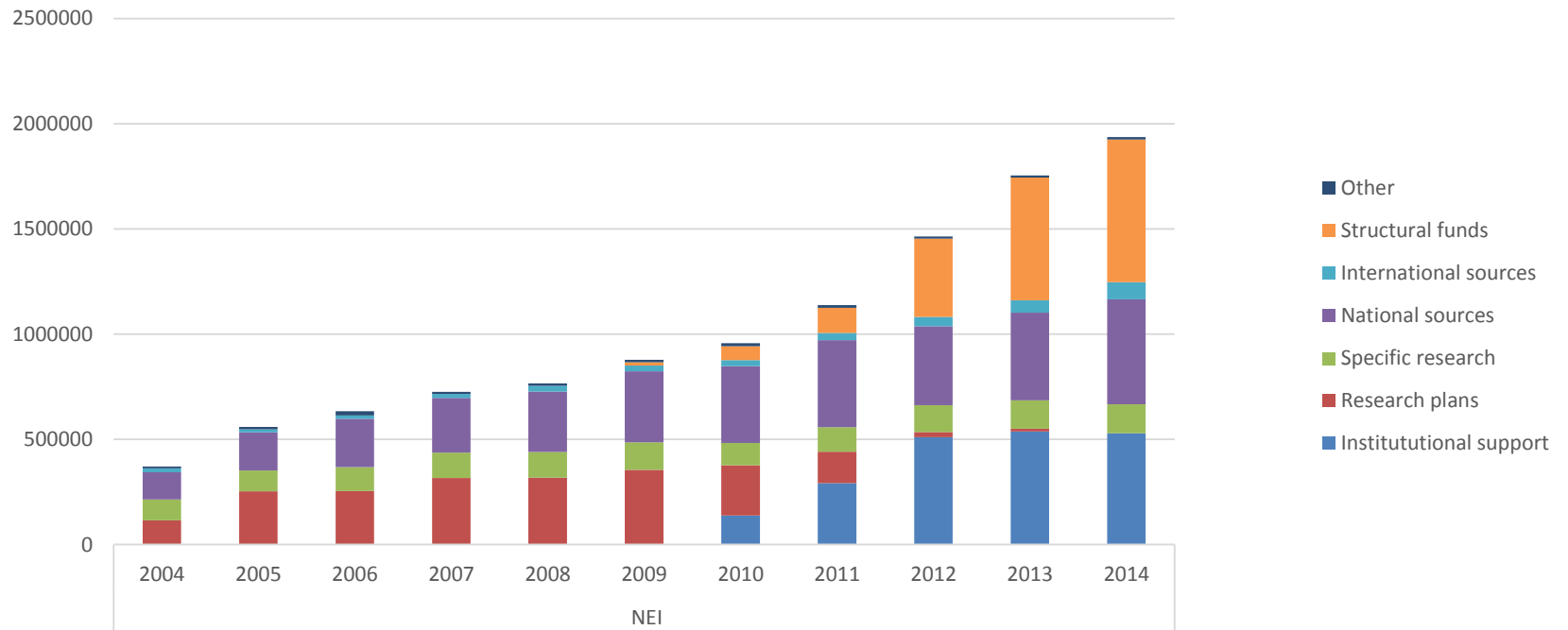


# Changes in the structure of research funding at MU



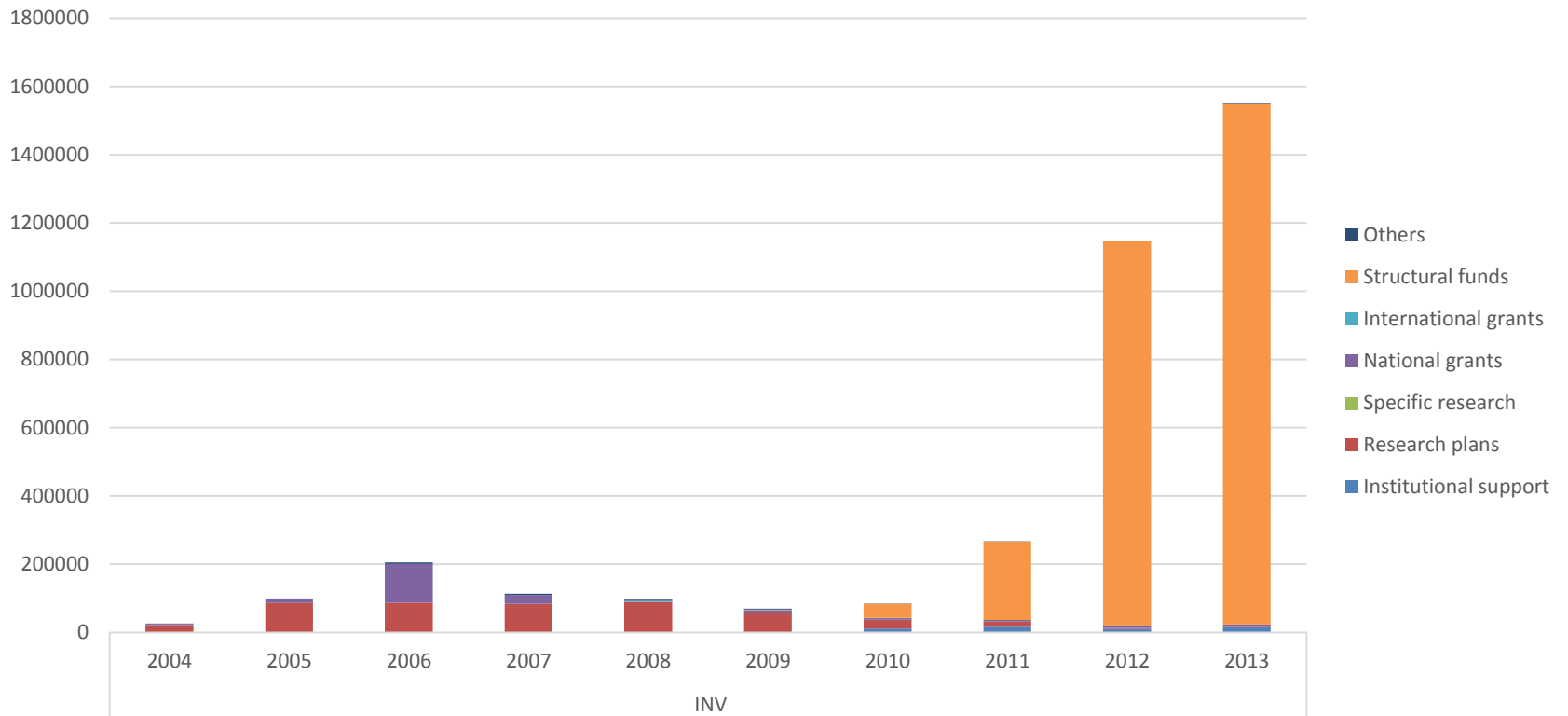
# Research funding sources at MU – non-investments

2004 – 2014 (NEI)



# Research funding sources at MU – investments

2004 - 2013 (INV)



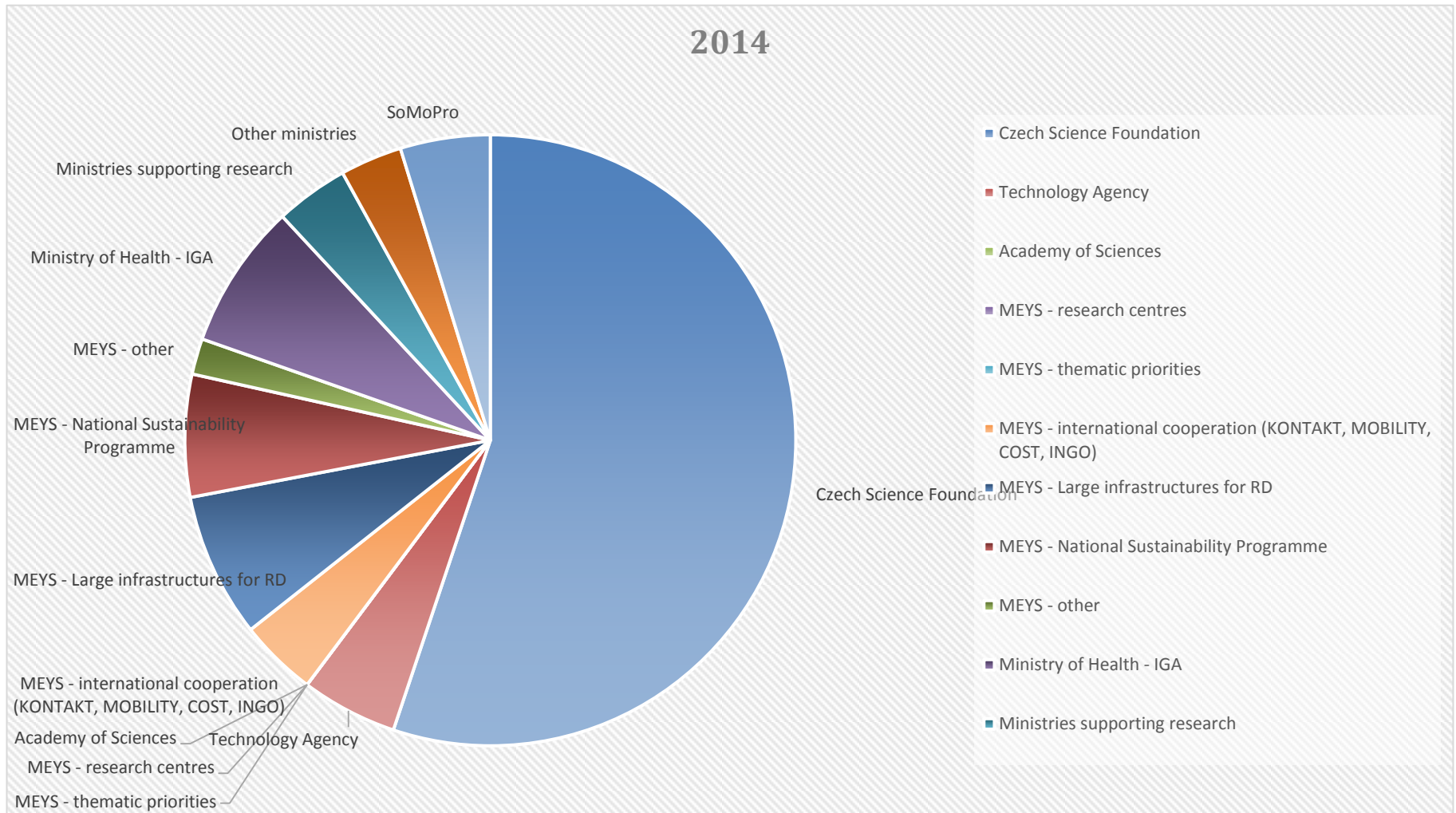




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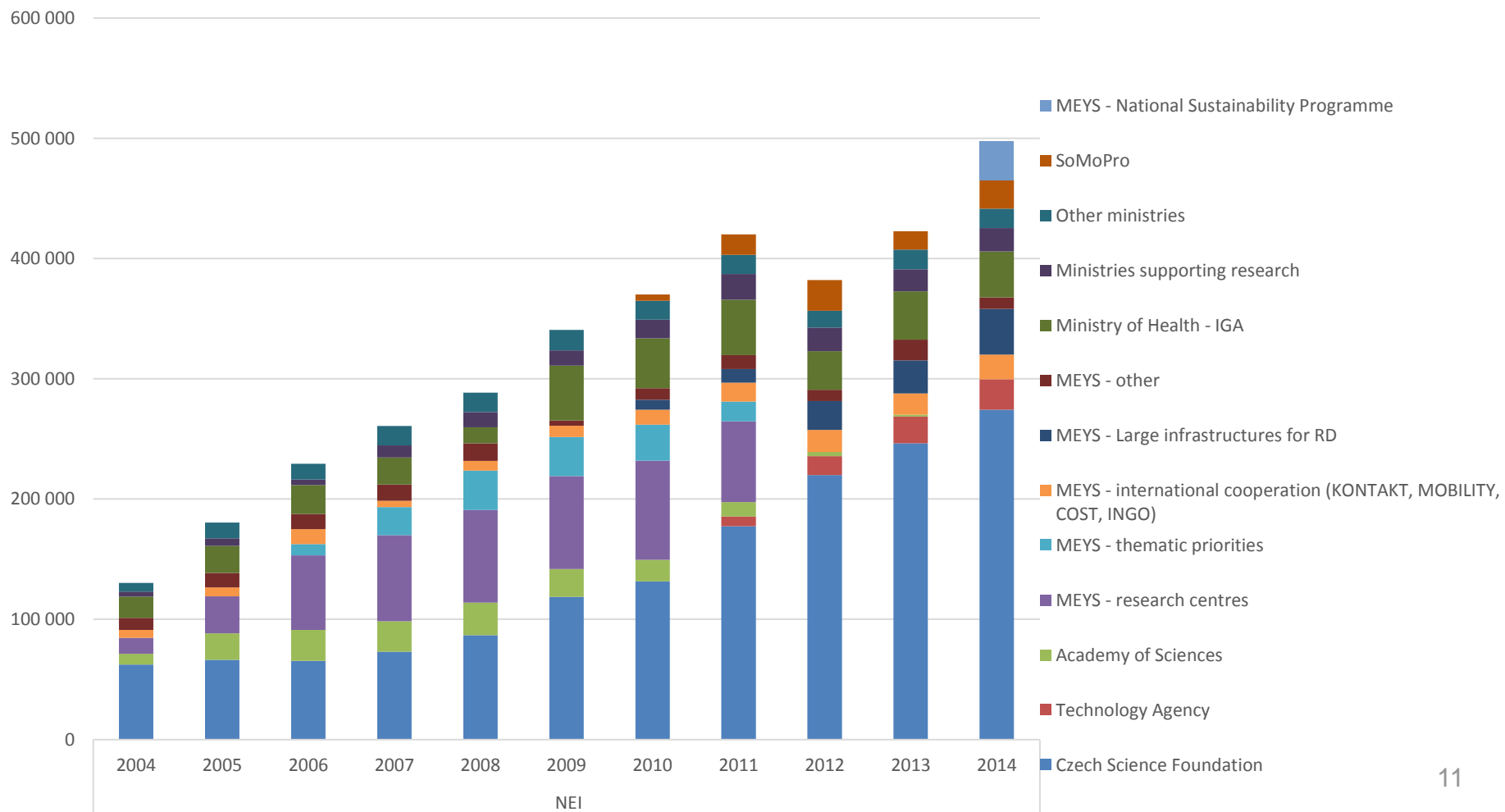
# National Funding Opportunities

# National grants providers – non-investments



# National grants providers at MU – non-investments

National grants providers (non-investments)



## Strategies

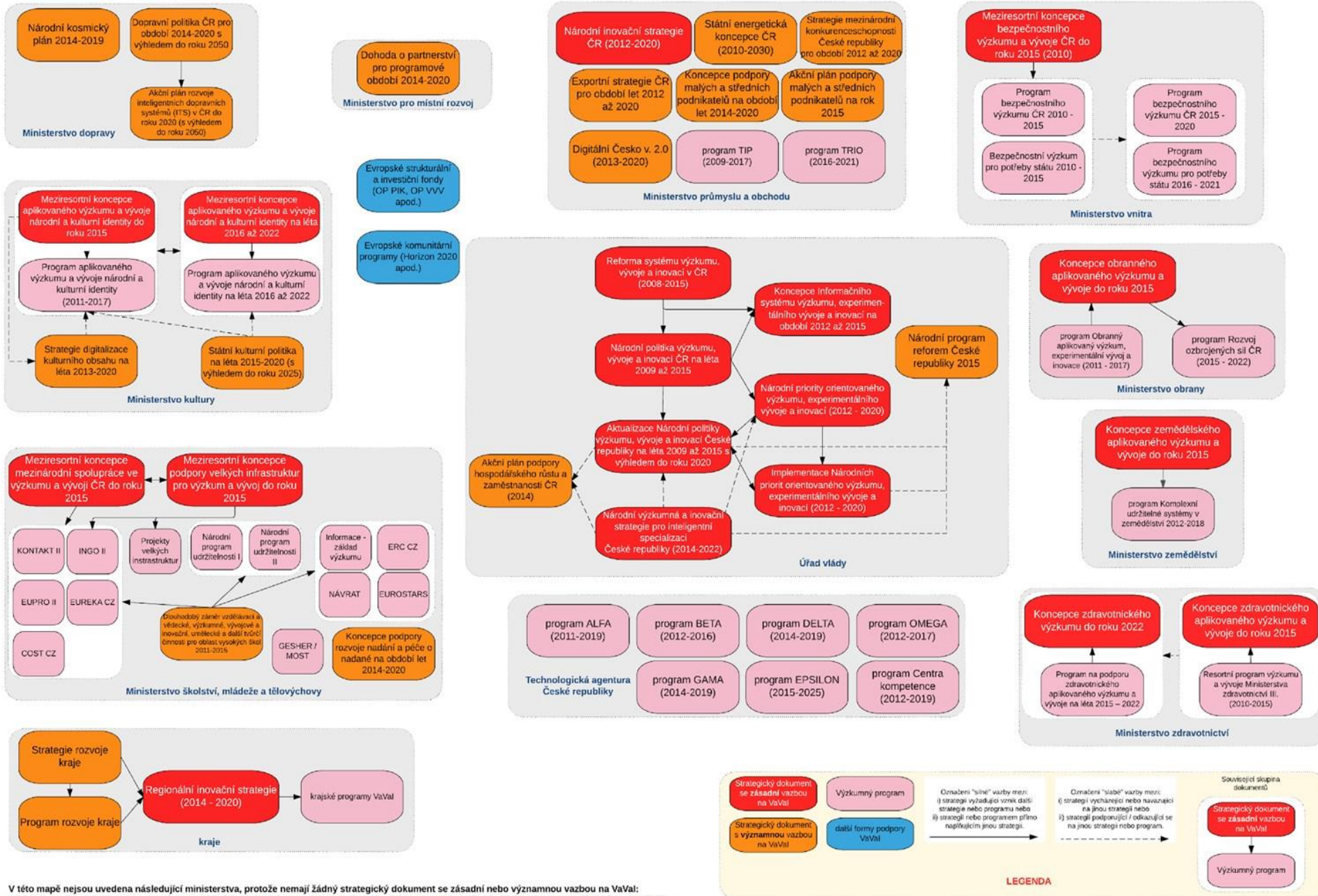
2012

- National Priorities of oriented research, experimental development and innovations
  - Competitive knowledge-based economy
  - Sustainability of energetics and material resources
  - Environment for quality life
  - Social and cultural challenges
  - Healthy population
  - Safe society

2013

- National R&D&I policy 2009 – 2015 with the perspective for 2020
- National research and innovation strategy for smart specialization

# Strategická mapa pro oblast VaVal - dokumenty se zásadní a významnou vazbou na VaVal a programy účelové podpory VaVal (verze k 30. 10. 2015)



V této mapě nejsou uvedena následující ministerstva, protože nemají žádný strategický dokument se zásadní nebo významnou vazbou na VaVal: Ministerstvo financí, Ministerstvo práce a sociálních věcí, Ministerstvo spravedlnosti, Ministerstvo zahraničních věcí a Ministerstvo životního prostředí.

## Different approaches

- Programmes in **basic** research = open scope, researchers choose the topic of research
  - Czech Science Foundation (GAČR)
- Programmes in **applied** research = more targeted approach, topic of research must correspond to the programme
  - Technology agency, other programmes of applied research

## Technology readiness level

**TRL 0: Idea.** Unproven concept, no testing has been performed.

**TRL 1: Basic research.** Principles postulated and observed but no experimental proof available.

**TRL 2: Technology formulation.** Concept and application have been formulated.

**TRL 3: Applied research.** First laboratory tests completed; proof of concept.

**TRL 4: Small scale prototype** built in a laboratory environment ("ugly" prototype).

**TRL 5: Large scale prototype** tested in intended environment.

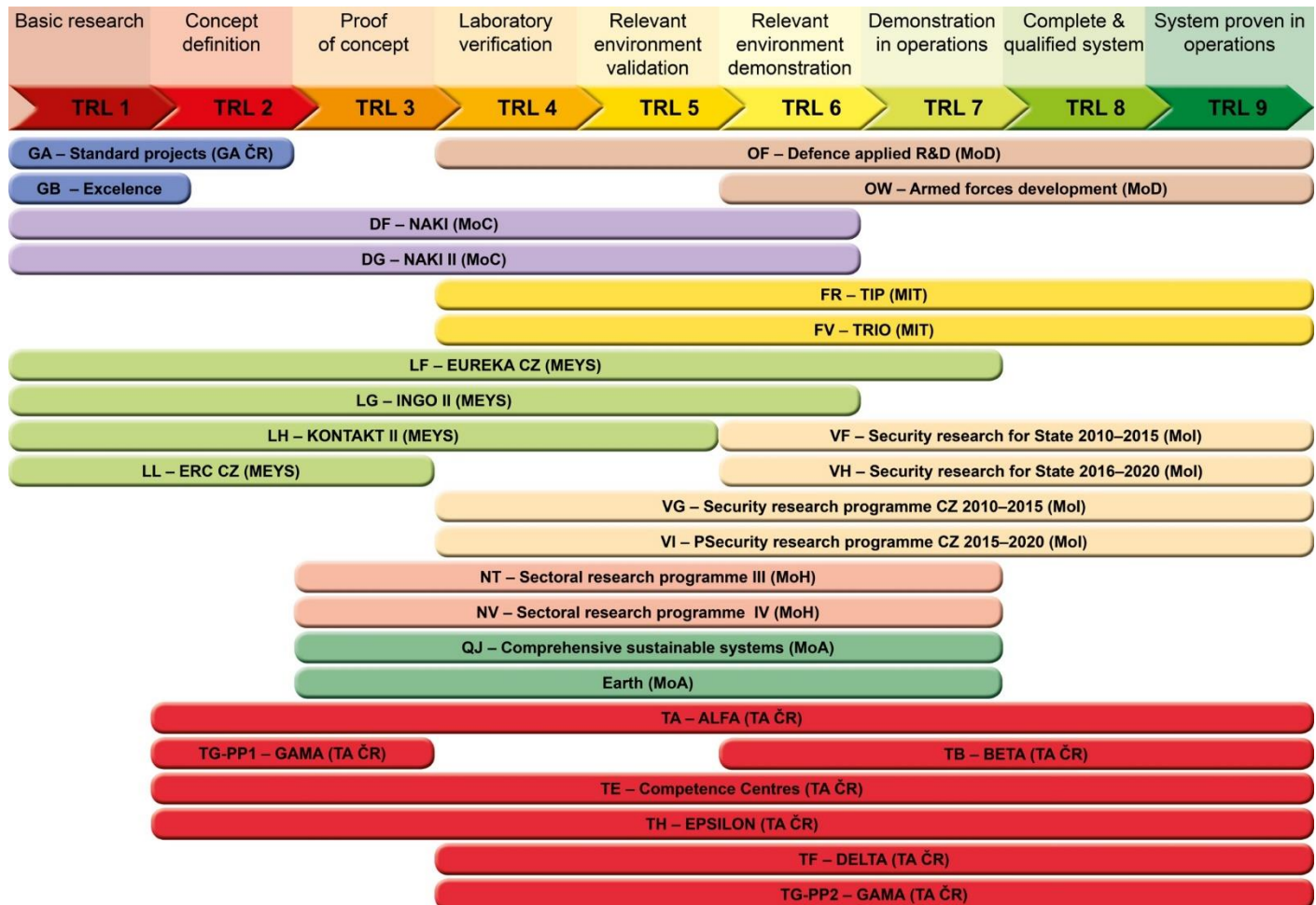
**TRL 6: Prototype system** tested in intended environment close to expected performance.

**TRL 7: Demonstration system** operating in operational environment at pre-commercial scale.

**TRL 8: First of a kind commercial system.** Manufacturing issues solved.

**TRL 9: Full commercial application,** technology available for consumers.

# Technology readiness level







# Czech Science Foundation (GAČR)

## Technology Agency

- Established in 2009
- Centralization of the applied research programmes managed by several ministries
- Collaborative projects
- Co-financing
- Link to thematic priorities (National Priorities of Oriented Research)

# Technology Agency

BETA	GAMA	DELTA	EPSILON	Finishing Programmes
<p><b>Focus</b> Public tenders following state administration requirements</p>	<p><b>Focus</b> Commercial use and application of the research results in practice</p>	<p><b>Focus</b> International cooperation in the applied research, focusing on a specific country/countries</p>	<p><b>Focus</b> Market launch for new technologies, materials, production and services in energetic engineering, environment and transport</p>	<p><b>ALFA</b> Swift use and launch of new products, production processes and services Replaced by EPSILON</p>
<p><b>Results</b> Industrial and utility design, prototype, functional specimen, software, patent, methodology, map, research report, pilot operation, technology</p>	<p><b>Results</b> Industrial and utility model patent; prototype, functional specimen; software, pilot operation, verified technology</p>	<p><b>Results</b> Technology, variety, breed, industrial and utility design, prototype, functional specimen, patents, software, methodology, medical/ preservation procedure, map</p>	<p><b>Results</b> Industrial and utility model, patent, prototype, functional specimen; software pilot operation, technology, methodologies, procedures, specialized maps with expert content</p>	<p><b>OMEGA</b> Applied results of the social sciences and humanities To be replaced with new programme</p>
<p><b>Aimed at</b> Enterprise or research institution Tenders announced through-out programme</p>	<p><b>Aimed at</b> Technology Transfer Centres Calls opened once a year</p>	<p><b>Aimed at</b> Enterprise in cooperation with research institution Calls opened once a year</p>	<p><b>Aimed at</b> Enterprise in cooperation with research institution Calls opened once a year</p>	<p><b>COMPETENCE CENTRES</b> Support for establishment and operation of research centers for disciplines with significant application and innovative potential</p>

# Sectoral ministries of the Czech Republic

Ministry of industry and Trade	Ministry of culture	Ministry of Agriculture	Ministry of the Interior CR	Ministry of Health CR
<u>TRIO</u>	<u>NAKI II</u>	<u>KUS</u>	<u>Security research</u>	<u>Medical research</u>
Key Enabling Technologies research (KETs) - photonics, micro- and nanoelectronics, nanotechnology, industrial biotechnology, advanced materials and manufacturing technologies	Applied Research - national and cultural Identity  For humanities - archeology, language, arts, technologies and procedures for the protection of cultural heritage	Applied research in agriculture, angling, food, water and forest management	Applied research - national security and citizens' safety, critical infrastructures, crisis and security policy	Applied research - Origin and development of diseases; New diagnostic and therapeutic methods and Epidemiology and prevention of life-threatening diseases
Calls once a year: 2016, 2017...	Calls once a year: 2016, 2017...	Last call in 2015 – programme will be replaced	Calls once a year: 2016, 2017...	Last call in 2015, new not announced yet
Collaborative projects – cooperation of companies and research institutions	Individual and Kolaborative projects – research institutions only	Collaborative and individual projects for RO* and companies	Collaborative and individual projects for RO* and companies	Collaborative projects – cooperation of companies and research institutions
Results: prototype, software, pilot production,, verified technology, industrial or utility design, patent	Results: specialized public databases, maps, methodologies, conferences, exhibitions, publications	Results: Publickations, patents, utility designs, verified technology, varieties, breeds, medical procedures, certified methodology	Results: Patent, software, utility and industrial design, technology, prototype, functional specimen, certified methodology	Results: prototype, functional specimen, software, patent, map, methodology, verified technology, medical procedure

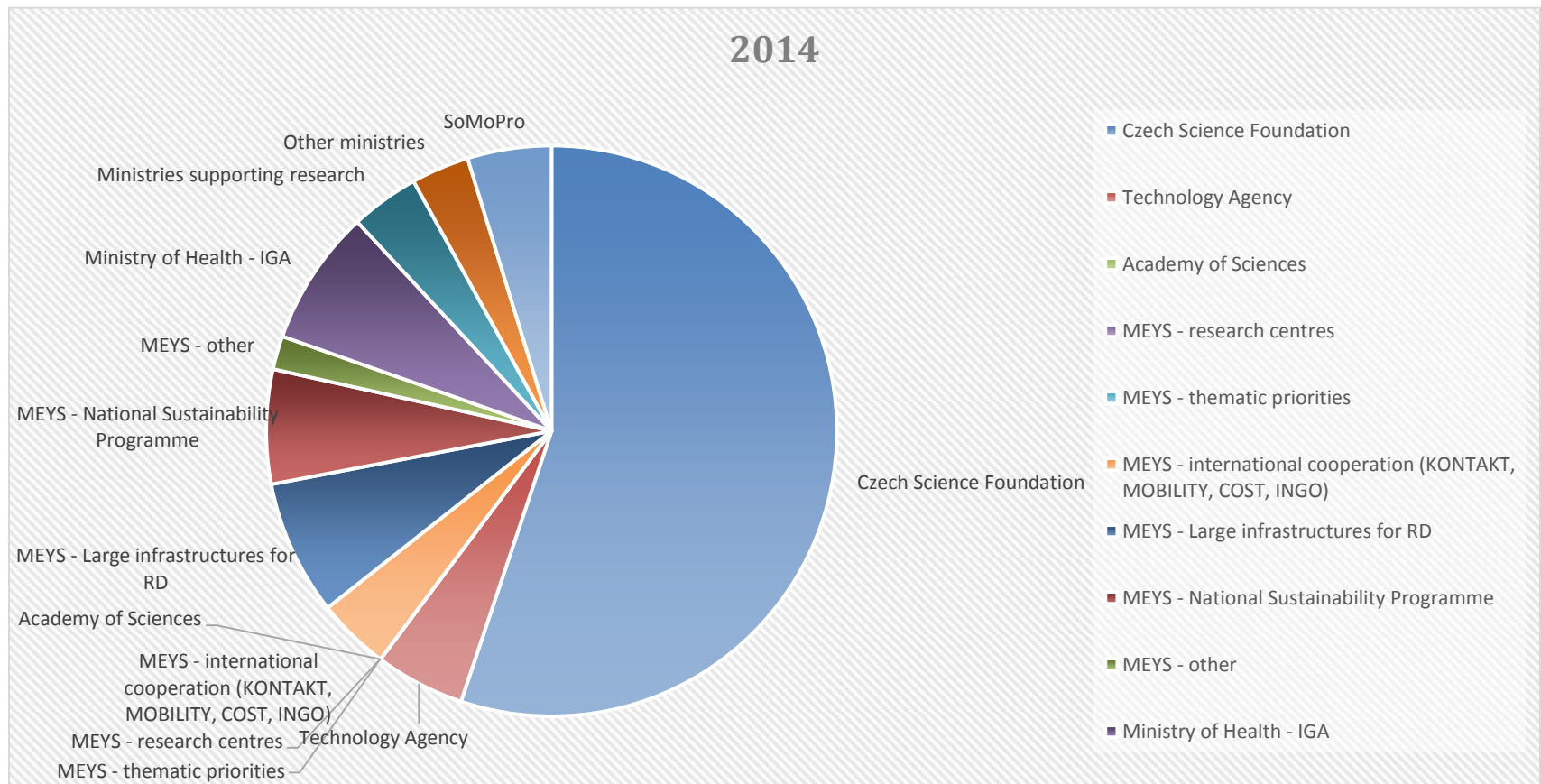
## Sectoral ministries of the Czech Republic - MEYS

- **KONTAKT** – support of international cooperation
  - **COST CZ** – support of multi-lateral cooperation through European platform of COST Actions
  - **INGO** – support of membership in non-governmental research organizations (e.g. CERN)
  - **EUREKA** – support of SMEs
  - **GESHER-MOST** – Czech-Israeli cooperation in applied research
  - **MOBILITIES** – support of researchers' mobility
  - **Czech- Norwegian research programme**
  - **Large Infrastructures for R&D** – support of infrastructures on the Roadmap (54)
- Inter-Excellence**

## SoMoPro as a regional instrument

- Regional fellowship programme inspired by Marie Skłodowska-Curie Fellowships
- Incoming grants to attract researchers from abroad to undertake research and training in the South Moravian region
- Research experience + mobility conditions
- Next call in September 2016

# Summary





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# European Structural and Investment Funds



## European Structural and Investment Funds (2014-2020)

- 8 Operational programmes in the Czech Republic
  - **Operational Programme Research, Development and Education (OP RDE) – 2,8 mld. EUR**
    - Priority Axis 1: Support of high-quality research
      - Link to Smart Specialization Strategy
    - Priority Axis 2: Human Resources for R&D



# Vertical priorities of S3 strategy

		Application sectors				
		Advanced production and manufacturing technologies	Precision and scientific instruments	SW a HW development, cognitronics, cybersecurity	Pharma, medical care and diagnostics	Technologies for aerospace
Generic knowledge domains (KETs / GPTs)	Material science					
	ICT					
	Electronics and photonics					
	Advanced manufacturing technologies					
	Biotechnology and biomedicine					
	Design a creative industries					
Societal challenges	Sustainable energy and material sources					
	Environment for high quality living					
	Social and cultural challenges					
	Healthy population					
	Secure society					



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# **Internal Funding Opportunities and Research support at MU**

## MU Strategic plan 2016-2020 – Research

1. Identify research priorities and strategic interdisciplinary topics at Masaryk University
2. Reinforce the position and visibility of university research on an international scale and increase participation in international research projects and consortia
3. Increase the social and economic impact of university research results

## Research support at MU

### 1. Financial incentives

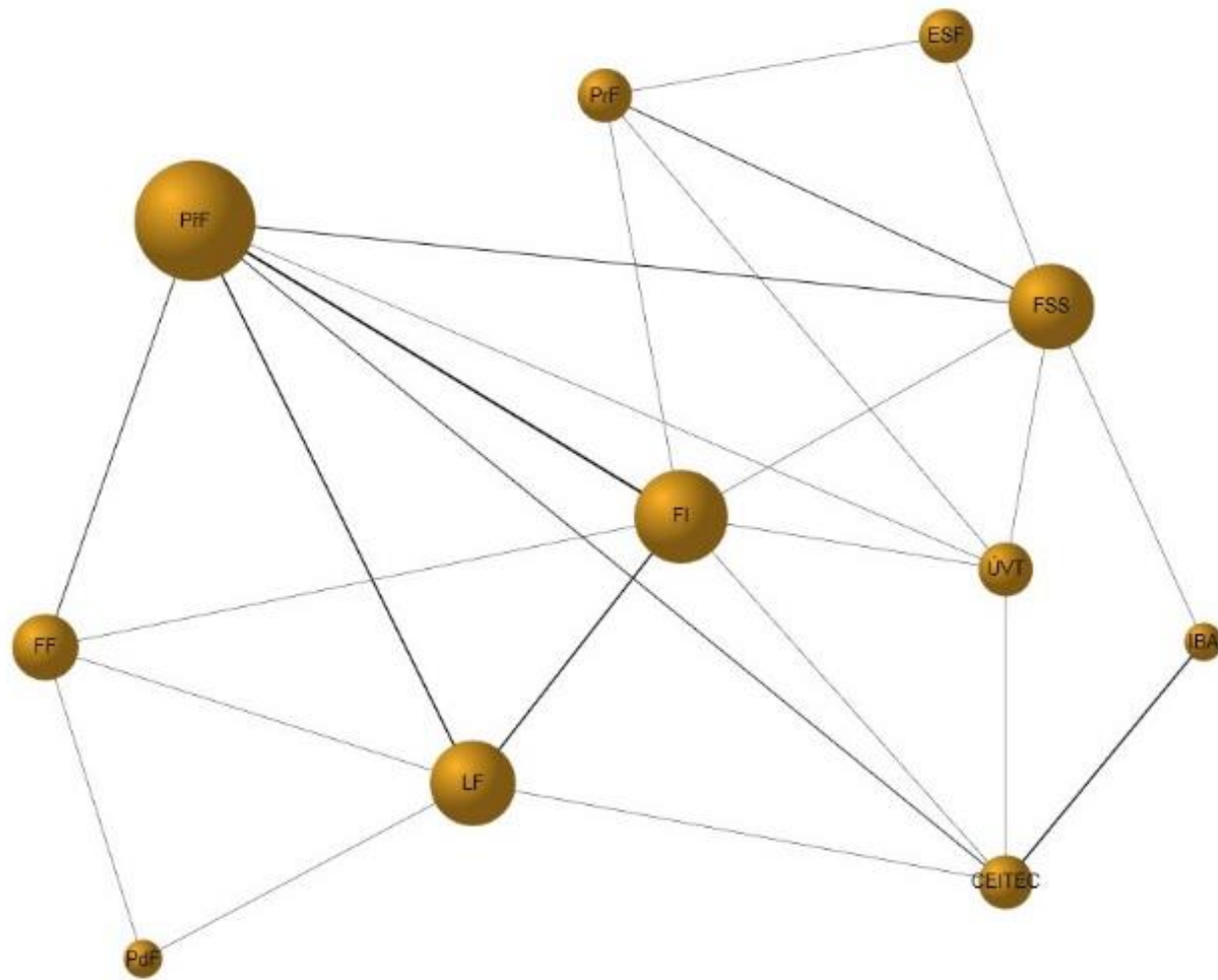
- Grant Agency of Masaryk University:
  - Interdisciplinary research grants
  - Support of international research grants preparation

### 2. Non-financial research support

- Information spreading
- Individualized support

## MU internal financial support of research - 1

- Grant Agency of Masaryk University
  - **Interdisciplinary research projects**
    - Selection based on excellence of applicants and proposal
    - At least 10 researchers from at least 2 faculties involved
    - 4 projects per year selected
    - Maximum financial support of 5 mil. CZK / 3 years





## MU internal financial support of research - 2

- Grant Agency of Masaryk University
  - **Support of international research grants preparation**
    - Only for international grant agencies
    - Up to 400,000 CZK for preparation of the proposal
      - Preparatory meetings
      - Travel costs related to project preparation
      - Consultancy costs

## MU research support

- **Information spreading**
  - Research Office newsletter
  - Research Office website
  - Information seminars, workshops, trainings
- **Individualized support provided**
  - Individual consultancy with Research Office staff
  - Help with proposal development

## MU research support - events

- 23 March: Grant opportunities training
- 30 March: Marie Skłodowska-Curie Actions: Your gateway to an exciting research career
- 12 – 14 October: Grants Week
- PREFEKT



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**Thank you for your attention**