Strategy & synergies in research funding at institutional level

Case study: CEITEC Masaryk University

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South Moravian Region – Introduction

- Brno – second largest city in the Czech Republic
- Self governing region without explicit powers over research
Generations of RIS of South Moravia

### RIS 1
2001 - 2004
- **Business incubation (startups)**

### RIS 2
2005 - 2008
- **SME support**
- **HR for R&D and innovation**

### RIS 3
2009 - 2013
- **New capacities for R&D**
Strategic framework of RIS SM 2014-20 (= S3)

MISSION

Achieve long-term development and prosperity in South Moravia through international competitiveness

VISION 2020

Develop South Moravia’s innovation potential to the level of the most innovative regions in the EU (% GDP of business R&D, # ERC grants; % intl. students).

VALUES

Ambition
Discipline
Trust

Leadership
Ethics
Openness

Entrepreneurship
Support
Cooperation

Innovative Governance

Excellence in Science

Innovative Companies

Education

Image
Institutional Strategy & Project Portfolio
Reactive versus effective approach

- Call for proposals
- Idea
- Search for partners
- Project
- Publication Product Service

- Vision, ambition, motivation
- Strategy and tactics planning
- Selecting the right and most fitting funding source – project positioning
- Check and plan possible synergies of international, national, regional and institutional initiatives
- Look for and create pan-European networks
- Use professional proposal preparation service

Vision

Strategy

Pool of partners

Combined funding & Synergies

Portfolio of projects

Outcomes exploitation
Phase I. of CEITEC strategy: Preparation for programming period 2007-2013

Regional consensus

RIS2
2005-2008
CEITEC – Central European Institute of Technology

CEITEC is a research centre in the fields of life sciences, advanced materials and technologies whose aim is to establish itself as a recognized European centre of science.

- 6 partners
- 7 research programmes
- 60 research groups
- **Buildings** (including parcels): 61 mil. €
- **25,000 m²** of new laboratories including
  - **10 core facilities**: 105 mil. €
- **Total budget**: 208 mil. €

Synergy of European Funding

- European Regional Development Fund
  - Investing in your future
- European Union Social Fund
  - Investing in jobs and skills
- OP Education for Competitiveness
- Horizon 2020
- ERC (European Research Council)
- ESFRI (European Strategy for Research Infrastructures)
Synergy of Cohesion and Research Funding
Example: CEITEC & SYLICA

**Strictly complementary funding**

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<tr>
<td>Buildings (including parcels)</td>
<td>61</td>
</tr>
<tr>
<td>Equipment (core facilities and other laboratories)</td>
<td>105</td>
</tr>
<tr>
<td>Start-up grant</td>
<td>42</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>208</strong></td>
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<tr>
<th>SYLICA – FP7 Capacities (2012-2015)</th>
<th>EUR (mil)</th>
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<tr>
<td>Personnel cost (incoming researchers)</td>
<td>2.7</td>
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<tr>
<td>Travel and subsistence</td>
<td>0.9</td>
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<tr>
<td>Miscellaneous cost (international conferences)</td>
<td>0.1</td>
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<tr>
<td>Indirect cost</td>
<td>0.3</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>3.928</strong></td>
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Example: Research Infrastructures

**ESFRI + FP7/H2020 + Czech RIs Roadmap**

**CEITEC MU Core Facilities involved in ESFRI**
- ESFRI
- FP7/H2020
- Czech RIs

**Update of Czech RIs Roadmap (all 2016-2022)**
- total budget 3.8 mil. EUR
- ELIXIR
- CIISB
- EATRIS
- EuroBioImaging
- Nano-Micro Tech

**ESIF “OP VVV” RIs**
- ELIXIR
- CIISB
- EATRIS
- EuroBioImaging
- Nano-Micro Tech

**FP7-Infrastructures**
- total budget 693 000 EUR
- Bio-NMR (2010-2014)
- EAST-NMR (2009-2013)

**H2020-Infrastructures**
- total budget 694 000 EUR
- iNEXT (2015-2019)
- EuBI PPII (2016-2018)
- INSTRUCT-ULTRA (2017-19)

**No financial support**

**Operation**

**Investment**

**EU networks, open access, collaboration**
Example: Capacity building & Widening participation and Spreading Excellence

**REGPOT SYLICA**
- Budget: 3.9 million EUR
- Synergies of Life and Material Sciences to Create a New Future (2012-2015)
- Brain gain Mobility – defined partners

**ERA Chair**
- Budget: 2.2 million EUR
- The ERA Chair Culture as a Catalyst to Maximize the Potential of CEITEC (2014-2018)
- Brain gain

**TWINNING**
- Total budget: 1.75 million EUR
- BISON MEDGENET TWINFUSYON (all 2016-2018)
- Mobility – defined partners

**ESIF “OP VK”**
- INBIOR
- SuPrEMMe
- BRAINS
- EVOGEN
- InterBioNet
- PlantGPPS
- POSTDOC I.
- POSTDOC II.
- (all 2012-2015)
- Brain gain Mobility – defined partners

**ESIF “OP VVV”**
- Brain gain Mobility – no limitation
- Projects under evaluation

- Hopefully 2017-2022
Examples: Most prestigious research grants: FP7 + H2020 + EMBO

Pillar 1: Excellent science

**FP7-ERC-StG**
- budget 1,9 mil. EUR
- Pavel Plevka
- PicoStructure (2013-2016)

**H2020-ERC-CoG**
- budget 1,4 mil. EUR
- Richard Štefl
- DECOR (2013-2016)

**EMBO Installation Grants**
- total budget 600 000 EUR
- Lukáš Trantírek (2012)
- Karel Říha (2013)
- Pavel Plevka (2014)
- Peter Lukavsky (2014)

**FP7-MSCA**
- total budget 892 000 EUR
  - 6 Career Integration Grants
  - 2 Individual Fellowships:
    - Alexander Petrov (2014-2016)

**SoMoPro**
- MSCA COFUND
- total budget 2 mil. EUR
  - 11 Fellowships: Robert, Říha, Micale, Zapražná, Manakhov, Hritz, Jackson, Trantírková, Foroutannejad, Khainar, Mráz

**H2020-MSCA**
- total budget 403 000 EUR
  - ITN ALKATRAS (2015-2019)
  - RISE MICROBRADAM (2016-2018)

Pillar 2: Societal challenges

**FP7-HEALTH**
- total budget 815 000 EUR

**H2020-HEALTH**
- total budget 135 000 EUR
  - APERIM (2015-2018)

**Examples: Most prestigious research grants:**
- FP7 + H2020 + EMBO
- **Pillar 1: Excellent science**
  - FP7-ERC-StG
  - H2020-ERC-CoG
  - EMBO Installation Grants
  - FP7-MSCA
  - SoMoPro
  - H2020-MSCA
- **Pillar 2: Societal challenges**
  - FP7-HEALTH
  - H2020-HEALTH
Using Synergies for the new Programming period 2016-2020
**Phase III. (from 2016): Research excellence and sustainability**

**Synergy of EU and national funding**

- **European Regional Development Fund**: Investing in your future
- **European Union European Social Fund**: Investing in jobs and skills
- **OP VVV 2014-2020**

**ERC**

**ESFRI**

**Horizon 2020**

**NPU II. – National sustainability programme 2015-2020**


**GAČR**
Translating Synergies into Researcher’s Strategy and Career Plans
Scientific Career Path

**PhD student**
- CEITEC PhD School
- Mobility
- PostDoc I
  - Absorbing experience and knowledge
  - Short-time projects
  - Incoming/outgoing mobility: MSCA / SoMoPro / OP VVV
  - International recruitment
  - Prevention of inbreeding
  - H2020 team member
- Mobility
- PostDoc II
  - Excellent research & leadership skills
  - Long-term projects
  - Installation grants – EMBO
  - ERC Starting grant, GAČR Junior
  - Flexible and preparing independent career
  - Fluctuation supports internationalization
  - Individual grants - MSCA / SoMoPro / OP VVV
  - H2020 team member
- Start-up grant
- Collaboration
  - Institutional brand
  - GAČR Standard
  - OP VVV
  - ERC Advanced grants
  - H2020 collaborations

**Junior Group Leader**
- PostDoc I
- PostDoc II
- Mobility
- Collaboration
Conclusion

- Strong, stable political commitment, RIS governance structures (→, protected’ space)
- Keeping strategic focus and result-orientation, using strategy to form Project portfolio
- Best people on board, professional project support service provided by the Grant Office of CEITEC MU
- Create opportunities based on researcher´s career stage
- Grants are just an instrument

Good science is the goal!
Thank you for your kind attention!

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