



Central European Institute of Technology
BRNO | CZECH REPUBLIC

Success case: the South Moravian region

Zlatuše Novotná

Head of International Relations and Grants Office,
CEITEC Masaryk University

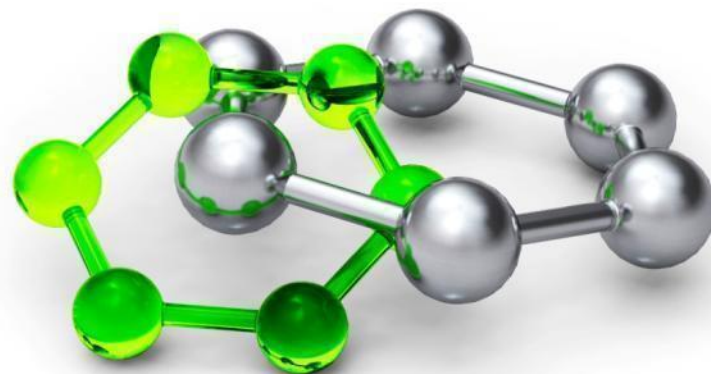
Madrid, 19th April 2016



EUROPEAN UNION
EUROPEAN REGIONAL DEVELOPMENT FUND
INVESTING IN YOUR FUTURE



**OP Research and
Development for Innovation**



Content

- 1 South Moravia and Regional Innovation Strategy
- 2 Phase I – Strategic preparation for Programming period 2007-2013
- 3 Phase II – Infrastructure & capacity building
- 4 Phase III – Research excellence & sustainability
- 5 CEITEC achievements
- 6 Key success factors

South Moravian Region –Introduction

- Brno – second largest city in the Czech Republic
- Self governing region without explicit powers over research

Inhabitans



Students



Researchers



3,4 % of regional GDP
is invested into R&D
(50 % private)



400+ companies
with own R&D



28 % of global production
of electron microscopes



40 % of global market
share of antivirus
producers in the region



Generations of RIS of South Moravia



2001 - 2004



2005 - 2008



2009 - 2013

Business incubation (startups)

SME support

HR for R&D and innovation

New capacities for R&D



Main results of RIS 2001–2013

16 000 stable jobs thanks to foreign direct investment

600 high-tech jobs in more than 200 technology start ups



Over 5 million euro invested into start ups from venture capital in last two years

Strong R&D investments in the region (over 3,4 % GDP)



53 distinguished researchers thanks to SoMoPro programme (COFUND)



290 research cooperations between universities and companies with helps of innovation vouchers



700 million euro invested into R&D infrastructure thanks to ERDF

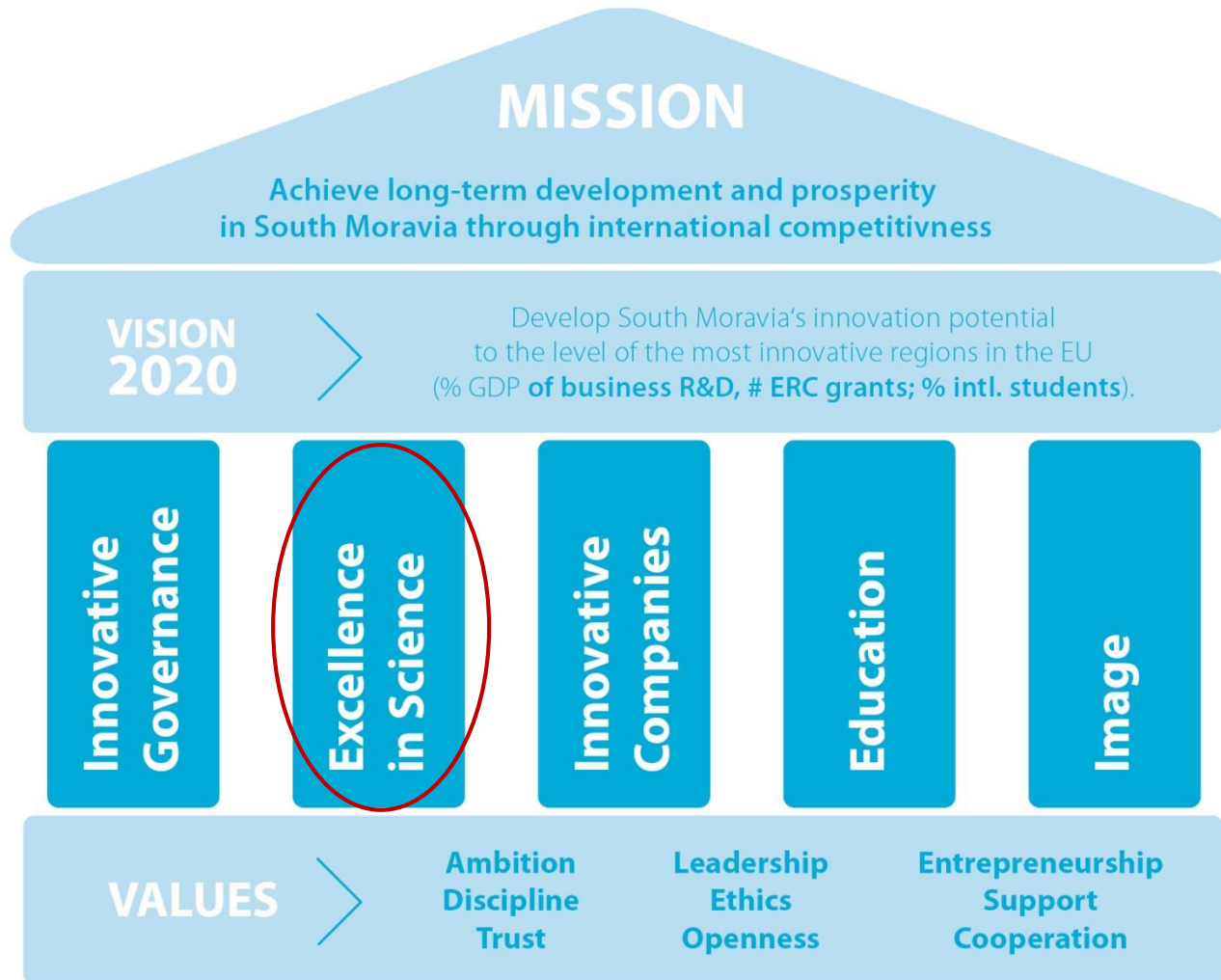


Ability to create and repeat consensus across the whole RIS (foundation of JIC, JCMM, CEITEC etc.)

Most developed educational system for highly talented students in the country



Strategic framework of RIS SM 2014-20 (= S3)



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.€

CEITEC MU at Masaryk University campus

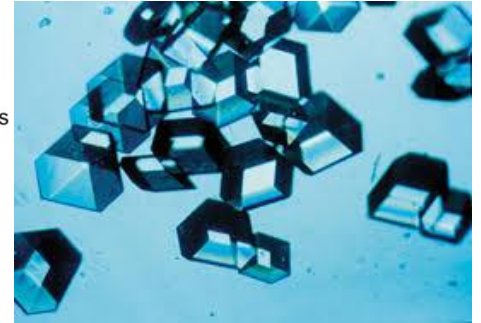
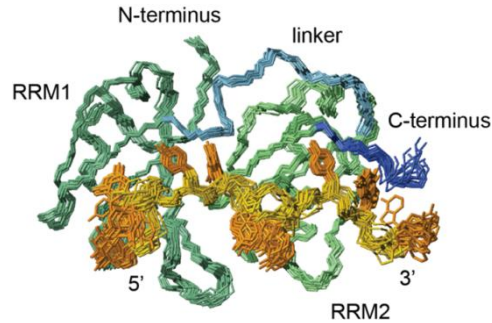
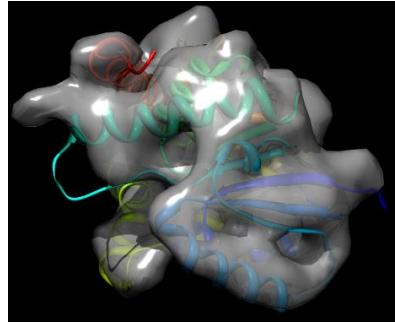


EUROPEAN UNION
EUROPEAN REGIONAL DEVELOPMENT FUND
INVESTING IN YOUR FUTURE



OP Research and
Development for Innovation

Core Facilities



MRI

Resolution 0.25 mm

Cryo-EM

High resolution
Complex structures

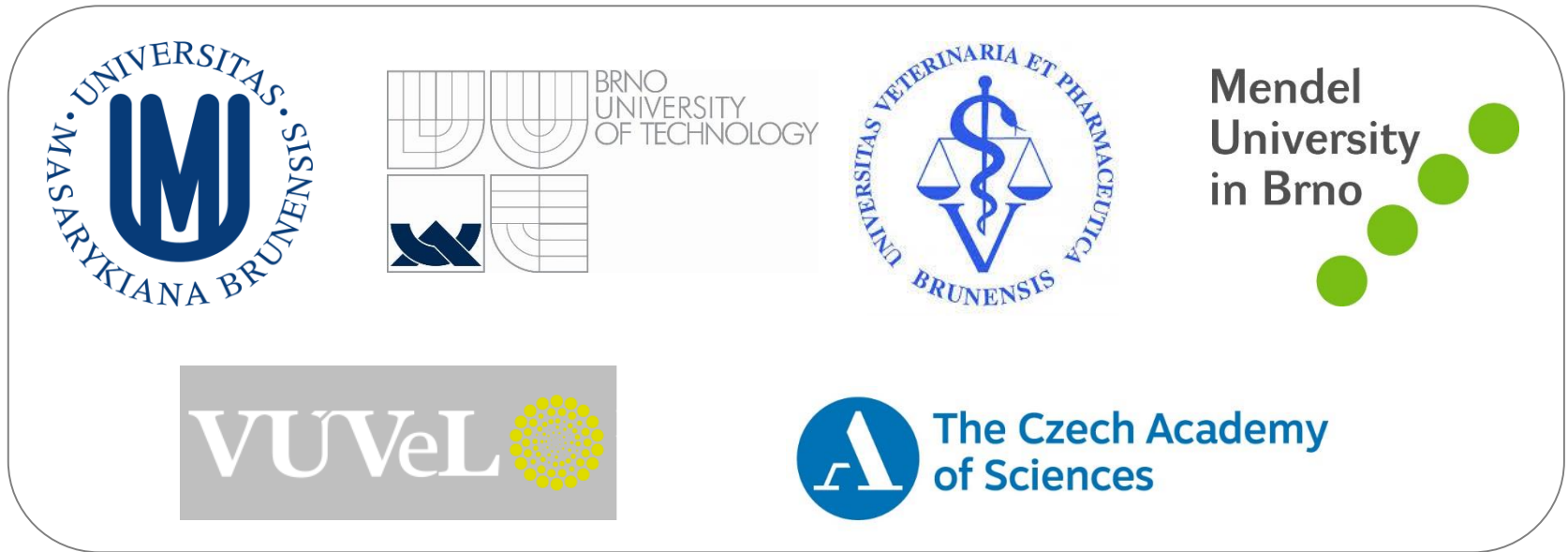
NMR

Solid and Solution
state

X-ray diffraction

Crystal state

Phase I. (from 2005): Strategic preparation for Programming period 2007-2013



**Regional
consensus**



RIS2

2005-2008

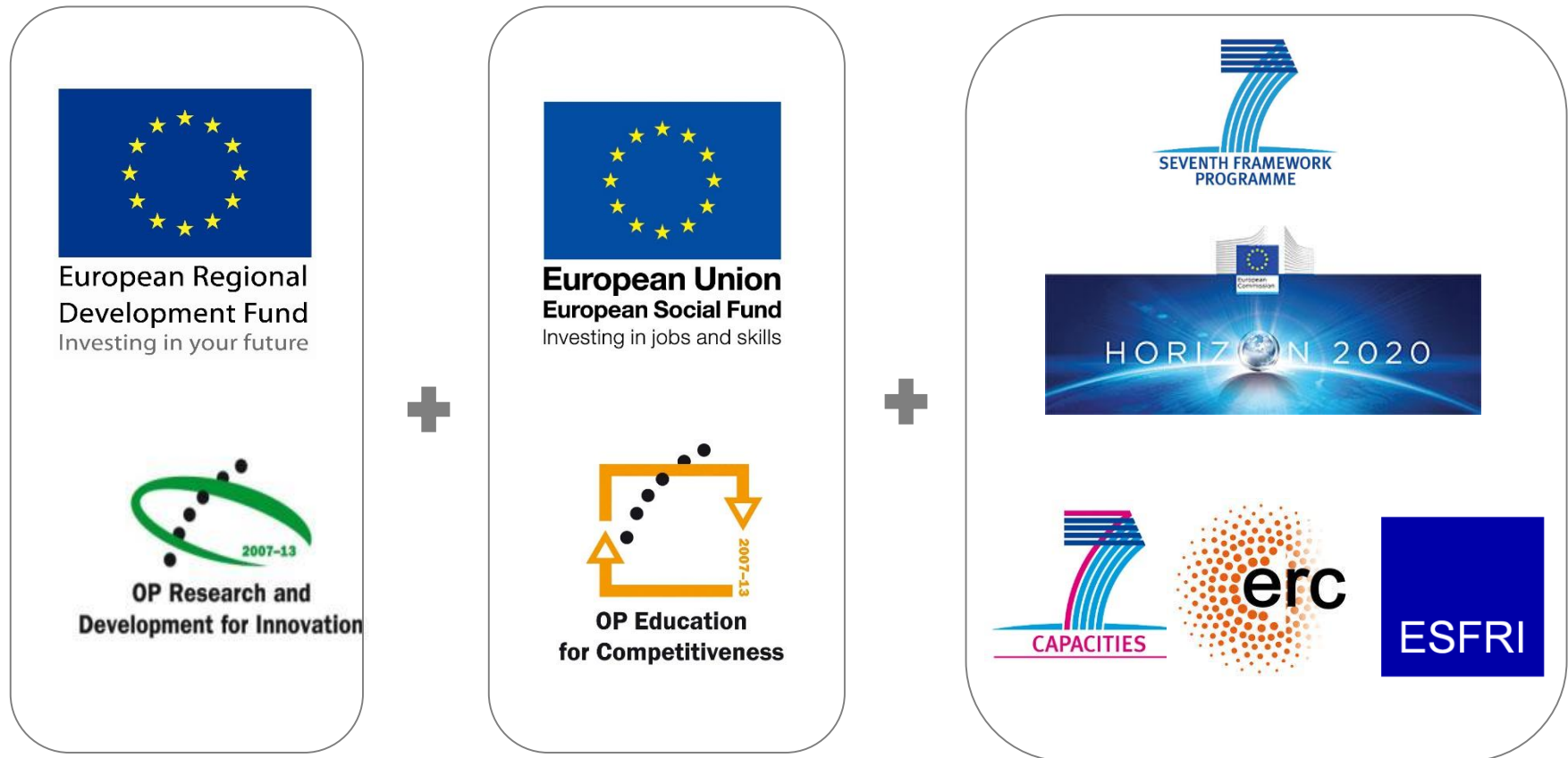


CEITEC

Phase II. (from 2011): Research Infrastructure & Capacity building

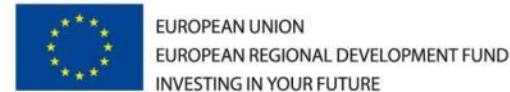
[RIS]3 2009-2013

Synergy of European Funds



Phase II. (from 2011): CEITEC & SYLICA

Complementary funding



CEITEC – ERDF (2011-2015)	EUR (mil)
Buildings (including parcels)	61
Equipment (core facilities and other laboratories)	105
Start-up grant	42
Total	208

SYLICA – FP7 Capacities (2012-2015)	EUR (mil)
Personnel cost (incoming researchers)	2.7
Travel and subsistence	0.9
Miscellaneous cost (international conferences)	0.1
Indirect cost	0.3
Total	3.928



Phase III. (from 2015): Research excellence and sustainability

RIS>4 2014-2020

Synergy of EU and national funding



SYLICA partnership

Imperial College
London

ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

EMBL



ESFRI projects



EURO-BIOIMAGING



EU-LIFE association



- 13 top research institutions
- 7,867 employees (researchers, administration)
- 512 research group leaders
- 2,816 publications
- 61 coordinated FP7 grants
- 79 ERC grants

CEITEC Achievements



**Quartile 1 publications increase
21% in 3 years**



European Research Council

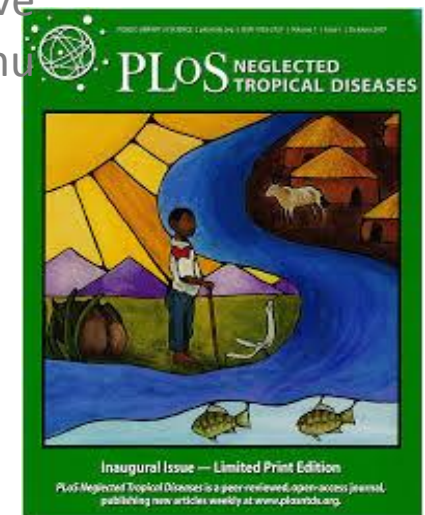
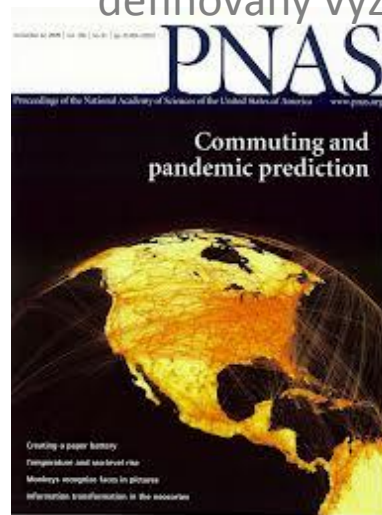
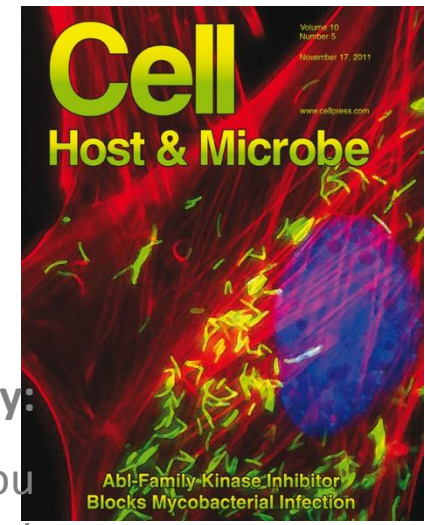
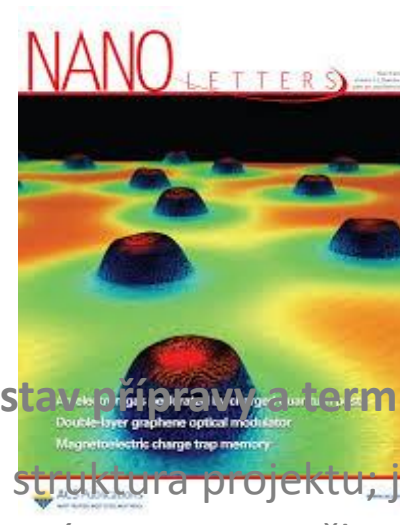
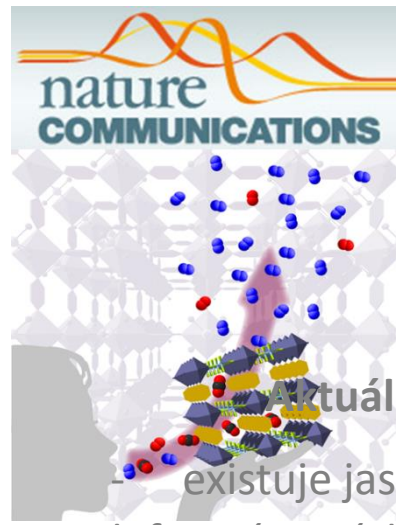
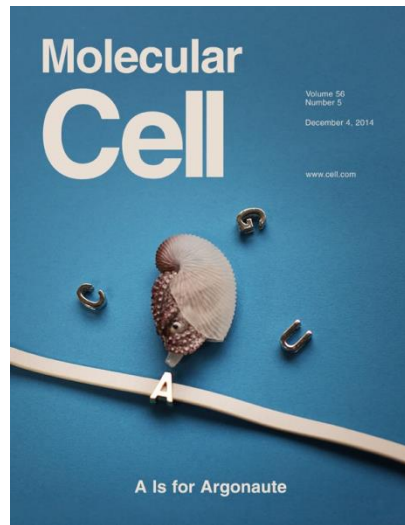
Established by the European Commission

First two CEITEC ERC grants



**Waidening participation &
Spreading Excellence
ERA Chair Grant
3 TWINNING projects**

Recent CEITEC Publications



Aktuální stav přípravy a termíny:
existuje jasná struktura projektu; jsou
definovány výzkumné programy a členové
řešitelského týmu

Key success factors

- Strong, stable **political commitment** (a must!)
- Keeping strategic focus and **result-orientation** (→ know what we want first, money comes next: SF, FP7...)
- **Best people** on board, stability of intermediaries and their people (→ trust, flexibility, network connectivity)
- **Being** constantly **in the field** (→ openness to new ideas from new actors)
- Robust **RIS governance structures** (→,protected' space)
- Being close to **policy research** (→CRA, S3 Platform, etc.)
- Professional pre/post-award project support service provided by the **Grant Office of CEITEC MU**

Thank you for your attention



Central European Institute of Technology
Masaryk University
Kamenice 5
Brno, Czech Republic

www.ceitec.eu | info@ceitec.cz

Acknowledgement to Dr. David Uhlíř for his contribution.



EUROPEAN UNION
EUROPEAN REGIONAL DEVELOPMENT FUND
INVESTING IN YOUR FUTURE



**OP Research and
Development for Innovation**

