

Central European Institute of Technology BRNO | CZECH REPUBLIC

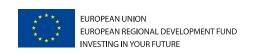
## The CEITEC Case: Translating Infrastructure into Capacity Development

Research and Innovation Funding: The Stairway to Excellence

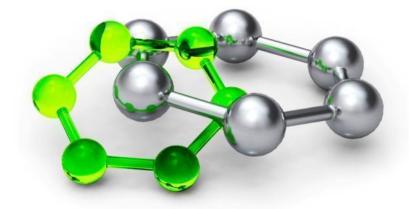
#### **Markus Dettenhofer**

**Executive Director** 

**Budapest, Hungary, 24 May 2016** 







#### Aim



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





### Financing (June 2011- December 2015)

- Structural funds European Regional Development Fund
- OP Research and Development for Innovations (Ministry of Education)

CEITEC Planned budget	EUR / USD (mil)
Buildings (including parcels)	61 / 81
Equipment (core facilities and other laboratories)	105 / 138
Start-up grant	42 / 56
Total	208 / 275









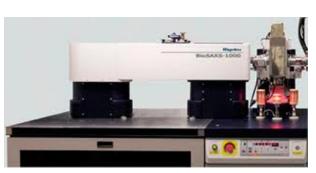


#### Core Facilities – Open Access



NMR - 950 MHz (liquid), 850 MHz (liquid), 2 x 700 MHz (liquid and solid), 600 MHz (liquid), 500 MHz (liquid and solid)

**Cryo-Electron Microscopy –** High-throughput FEI Titan Krios 300kV, FEI Tecnal 200kV



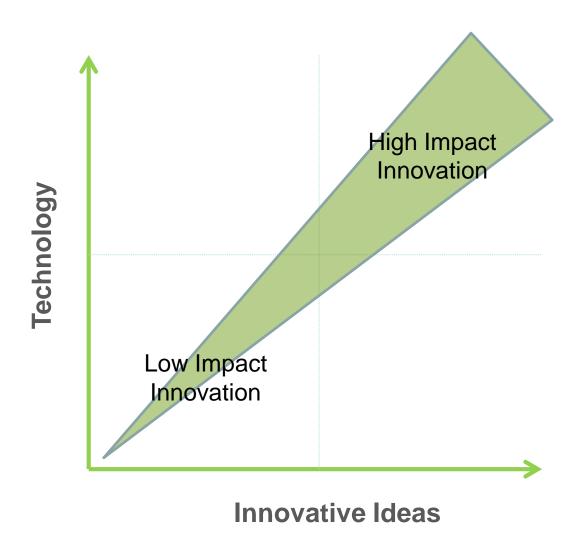




Single Crystal X-ray Diffraction – Rigaku BioSAXS robotized diffraction system



### Technology and Ideas



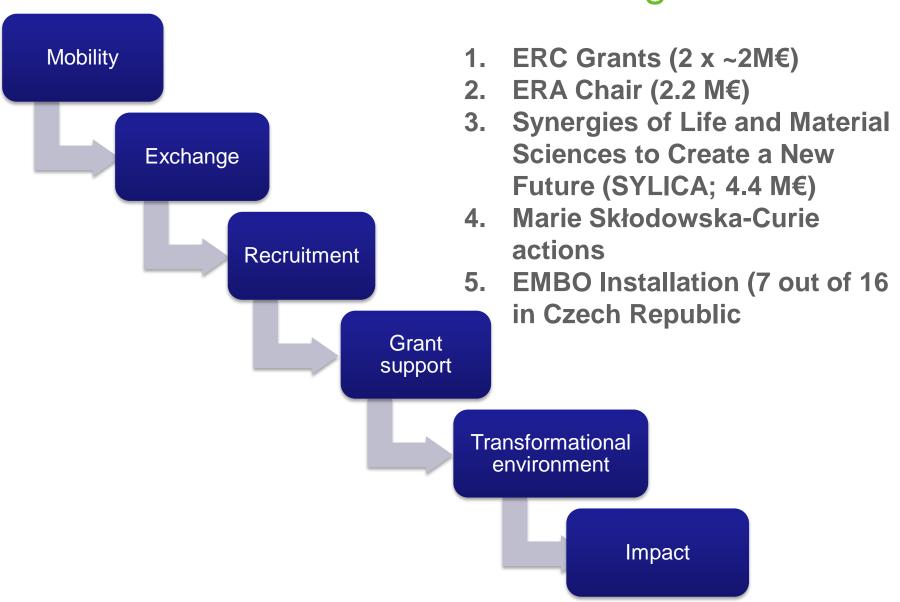


#### Barriers & Obstacles to Research Excellence

- Excellence is not well understood
- Governance mechanisms are in an early development stage
- Human capital or skills are under appreciated
- Financing from National sources not consistent with support for excellent practices
- Challenges to setting and implementing priorities



### International Funding





# Culture of Excellence CEITEC's First 2 ERC Grant



**Pavel Plevka** 



**European Research Council** 

Established by the European Commission



Richard Stefl



#### Measuring Success Against Global Standards



**Board consists solely of Western European Members** 

Evaluation Sept. 2014 based on past performance, vision plan, and laboratory visit



## ERA Chair concept of transformation Q2 2014 - Q2 2019

Recruit
Transformational
Scientists

Increase International Visibility Increase the Impacted Discoveries

Install Professional
Development
measures

Increase Competitive Funding





## The ERA Chair Culture as a Catalyst to Maximize the Potential of CEITEC

- 6/2014 5/2019
- ERA Chair Mary O´Connell
- Grants support system development



- International outreach and dissemination
- Attractive scientific environment

### **CEITEC Science Culture**



## The ERA Chair Culture as a Catalyst to Maximize the Potential of CEITEC

#### **Attractive scientific environment**

 Creating conditions for idea-driven and competitive scientific environment



HR EXCELLENCE IN RESEARCH

 After endorsement of the Charter & Code by CEITEC in 2012, CEITEC and Masaryk University aim at putting the proposed measures into practice



#### International Recruitment





#### Summary

- Openness to implement new learnings and best practice
- Partner with organizations represent your aspirations
- Enable financial support mechanisms for excellence
- Cultural environment favoring transformation is essential

## Thank you for your attention



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