

Central European Institute of Technology BRNO | CZECH REPUBLIC

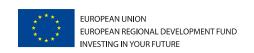
The CEITEC Case: Translating Infrastructure into Capacity Development

Research and Innovation Funding: The Stairway to Excellence

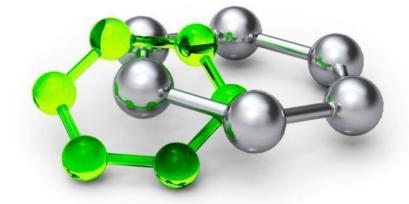
Markus Dettenhofer

Executive Director

Prague, Czech Republic, 3 March 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 – Highthroughput FEI Titan Krios 300kV, FEI Tecnal 200kV



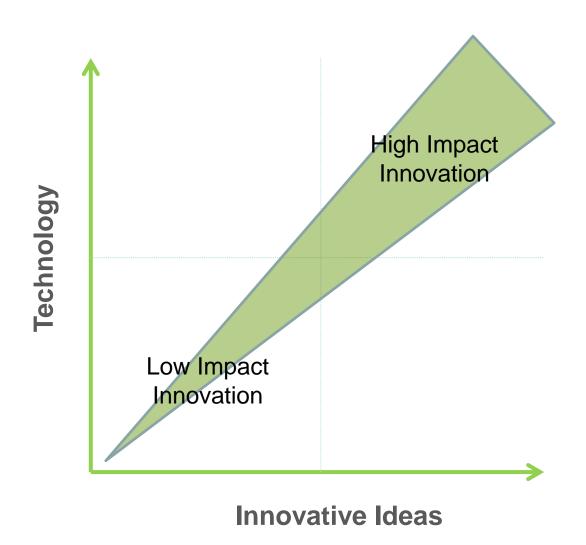




Single Crystal X-ray Diffraction – Rigaku BioSAXS robotized diffraction system



Technology and Ideas

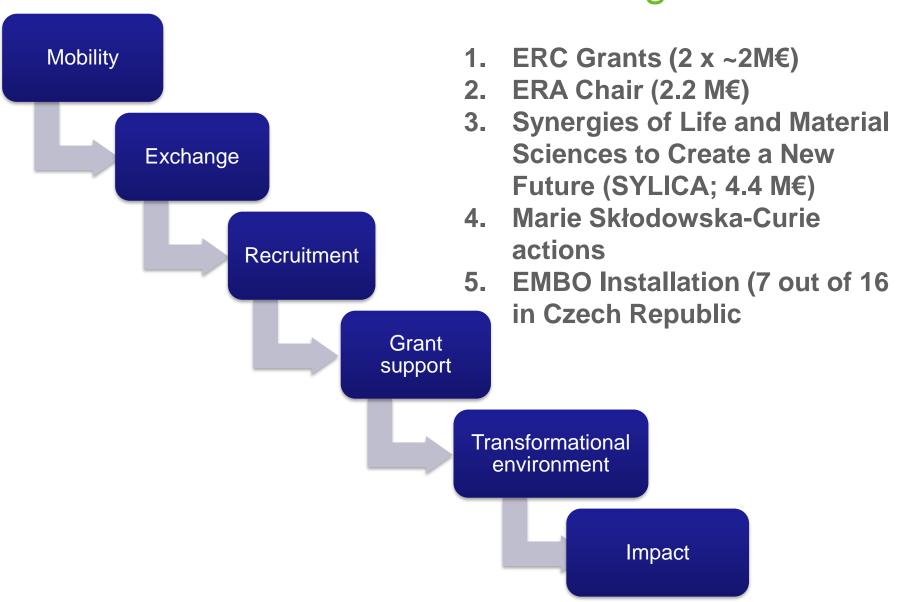


Barriers & Obstacles to Research Excellence

- 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

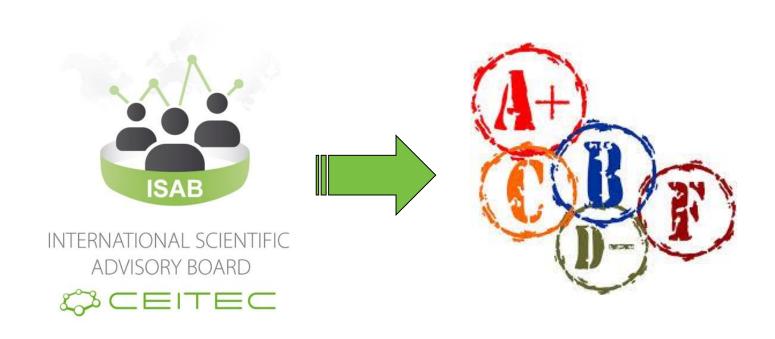
Established by the European Commission



Richard Stefl



Measuring Success Against Global Standards



Board consists solely of Western European and US 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

Why do we want an attractive environment?





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





OSCIENTIFIC EVENTS 2015 O

JULY

EMBO Practical Workshop - "Analysis of non-coding RNAs: per aspera ad astra" / University Campus Bohunice, Brno / July 25 – 31 / Workshop

A Practical Course in Three-Dimensional Electron Microscopy / University Campus Bohunice, Brno / July 25 -31 / Summer School

SEPTEMBER

Frontiers in Life and Material Sciences: Creating Life in 3D

/ Brno / September 2-4 / CEITEC / ICRC Conference

EMBO Conference: Signalling in plant development

/ Hotel International Brno / September 20-24 / Conference

○ OCTOBER

1st Workshop on TP53 Analysis in CLL

/ Brno / October 1-3 / Workshop

15th European Congress on Clinical Neurophysiology

/ Hotel International Brno / September 30 – October 4 / Conference

Regular events:
Life Science Seminar Series
Night of Better Cooperation in Scientific Research





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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