

Central European Institute of Technology BRNO | CZECH REPUBLIC

### The CEITEC Case: Translating Infrastructure into Capacity Development

The synergies with Research and Innovation Funds: The Stairway to Excellence

#### **Markus Dettenhofer**

**Executive Director** 

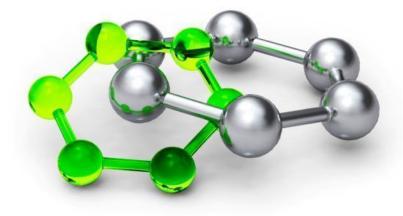
Bratislava, Slovakia 24 June 2015



EUROPEAN UNION EUROPEAN REGIONAL DEVELOPMENT FUND INVESTING IN YOUR FUTURE



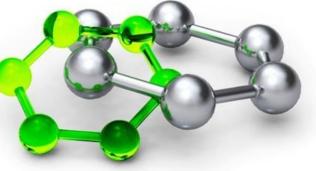
OP Research and Development for Innovation



#### 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



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# Π **CEITEC MU** Building



#### **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



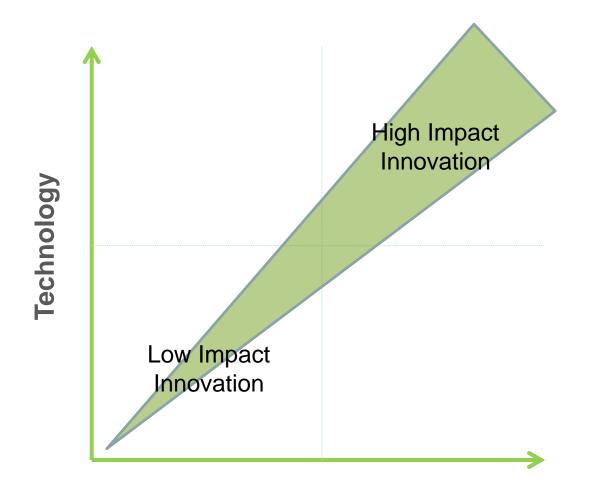




**Single Crystal X-ray Diffraction** – Rigaku BioSAXS robotized diffraction system



#### **Technology and Ideas**



**Innovative Ideas** 

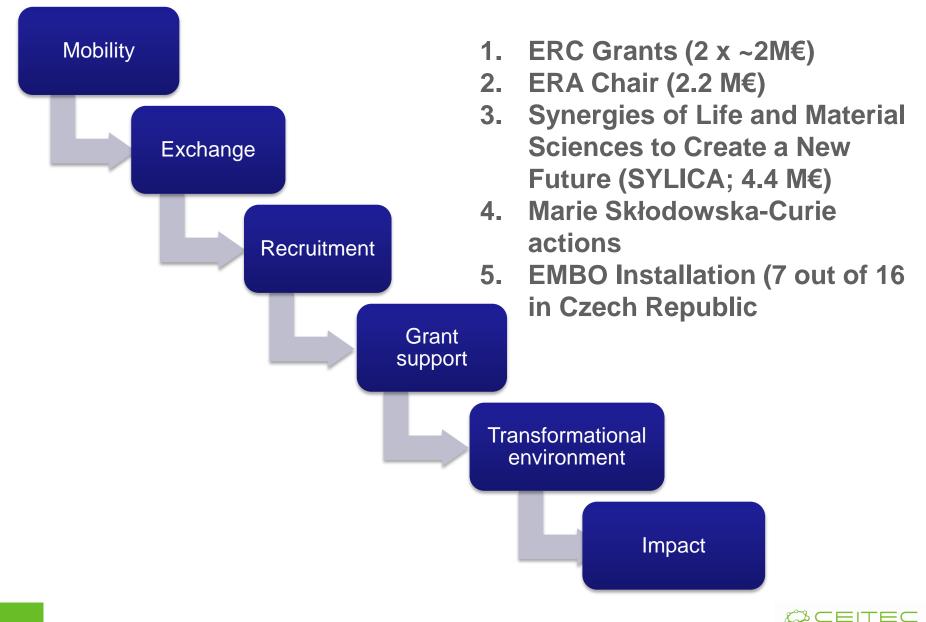


#### **Barriers & Obstacles to Research Excellence**

- Excellence is not well understood
- Governance mechanisms are not in place
- Skills are lacking in the region
- Financing from National sources are not supporting excellent practices
- Unwillingness to set priorities
- Inability to implement a plan



#### **International Funding**



#### Culture of Excellence CEITEC's First 2 ERC Grant



#### **Pavel Plevka**



#### **European Research Council**

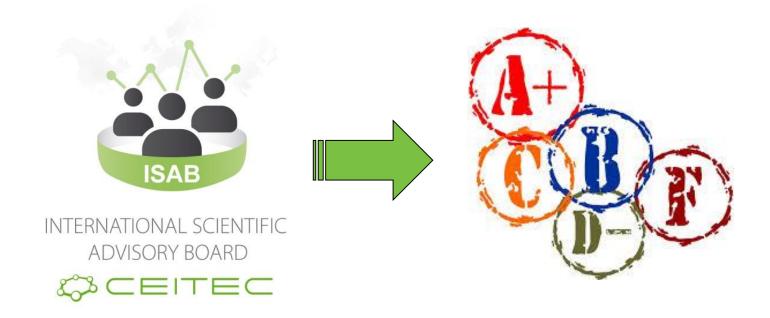
Established by the European Commission



#### **Richard Stefl**



#### Measuring Success Against Global Standards

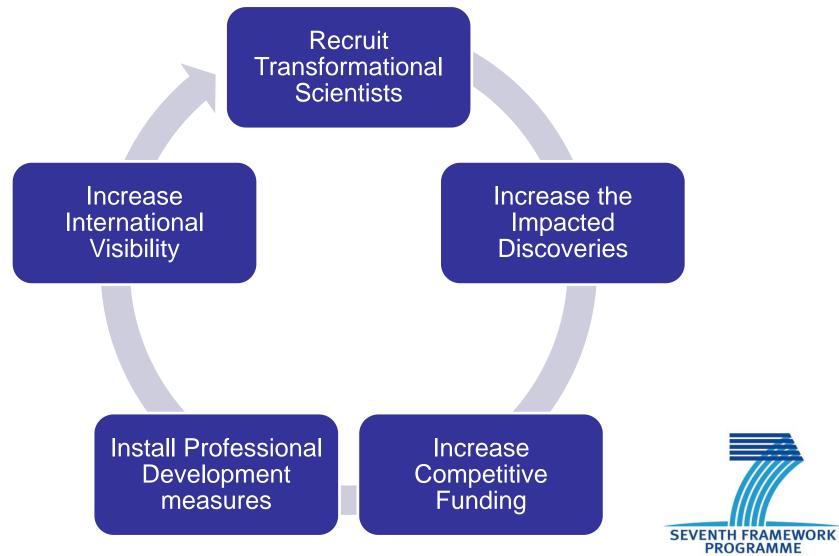


**Board consists solely of Western European and US Members** 

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



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





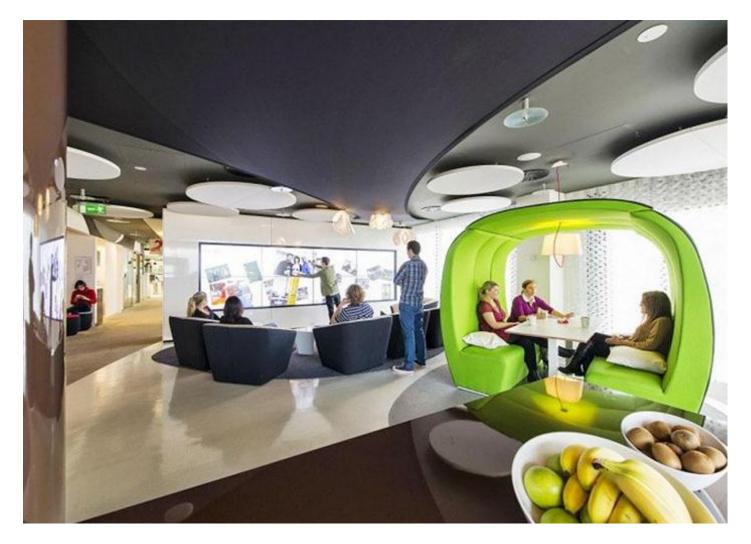
# The ERA Chair Culture as a Catalyst to Maximize the Potential of CEITEC

- 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**

Reasearch programme	Long-term stay			Short-term stay			TOTAL
	EU	outside EU	€	EU	outside EU	€	
dvanced Nanotechnologies nd Microtechnologies	4	4	8	0	0	0	8
Advanced Materials	2	0	2	0	0	0	2
Structural Biology	13	3	16	29	13	42	58
Genomics and Proteomics of Plant Systems	18	3	21	1	0	1	2
Molecular Medicine	2	1	3	0	2	2	
Brain and Mind Research	1	1	2	0	1	1	:
Molecular Veterinary Medicine	0	2	2	0	0	0	2
CEITEC administration	0	1	1	0	0	0	1
Sum total	40	15	55	30	16	46	10





#### NIGHT OF BETTER COOPERATION IN SCIENTIFIC RESEARCH



cafe prah 19 | 02 | 15 18.00 (Ve Vatikovce 1, Brno)

EASTMENTS IN EXCATEN DIMILIPHONT

quick science slideshows / cooperation set-up / networking / discussion / Maricus Dettenhofer workshop /

Registration and more information at facebook.com/ceitec or networking@ceitec.cz







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#### OSCIENTIFIC EVENTS 20150

#### 

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

www.ceitec.eu



ING IN YOUR FUTURE



#### Summary

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



#### Thank you for your attention



Central European Institute of Technology c/o Masaryk University Žerotínovo nám. 9 601 77 Brno, Czech Republic

www.ceitec.eu | info@ceitec.cz



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