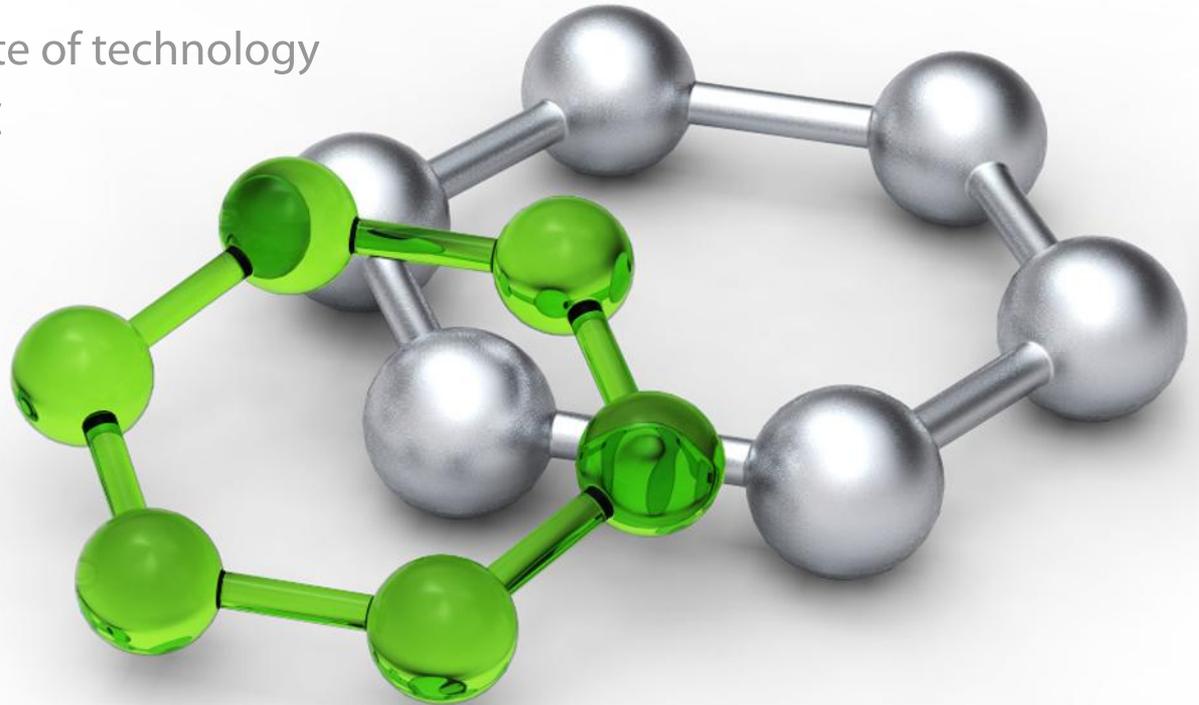




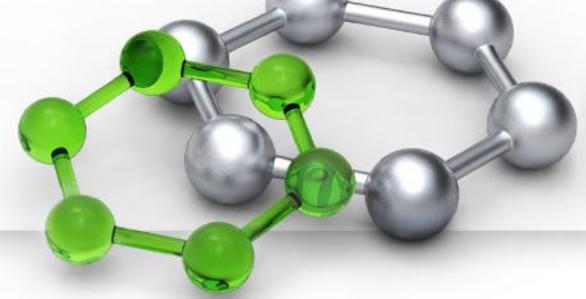
CEITEC

central european institute of technology  
BRNO | CZECH REPUBLIC



# Management of Unique Infrastructure Regional Context

*Ondřej Hradil*



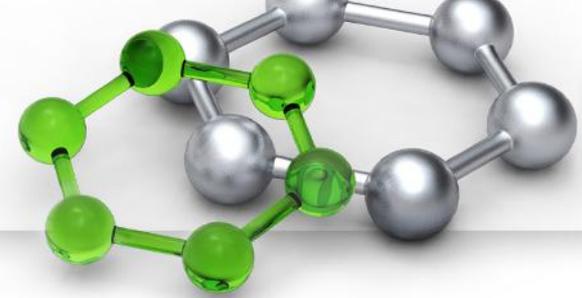
## 1. PART

**CEITEC – Central European Institute of Technology**

## 2. PART

**Regional Context**

# CEITEC

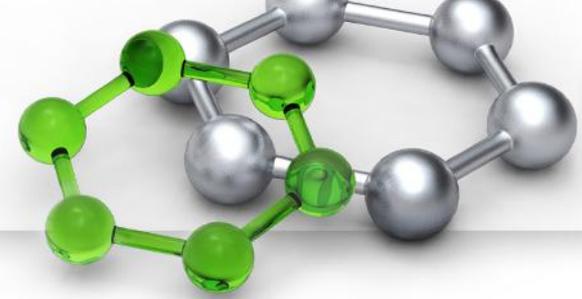


**CEITEC** is a project of the **European Centre of Excellence** which is being prepared by a consortium of universities and research institutes located in Brno.

It will provide a state-of-the-art infrastructure, encourage cooperation of both local and foreign scientists and support scientific excellence. It will enhance cooperation with the application sector and stimulate growth of high-tech sectors.



# Why in Brno?



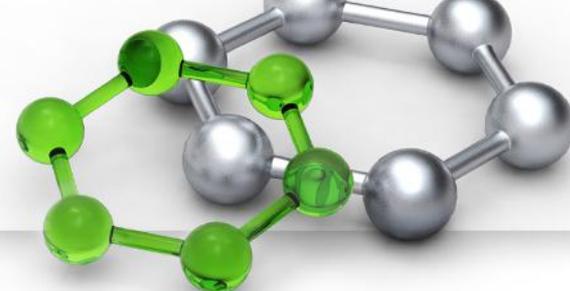
- 32 % of national R&D spending (without Prague)
- 3.000 researchers in engineering and life science
- a unique combination of research facilities
- long history of technology and medical research development and production
- over 80.000 students
- clear & functional regional strategy

**RIS** > 3

**B | R | N | O |**

 CEITEC

# Participants



Masaryk University  
[www.muni.cz](http://www.muni.cz)



Brno University of  
Technology  
[www.vutbr.cz](http://www.vutbr.cz)



Mendel University  
in Brno  
[www.mendelu.cz](http://www.mendelu.cz)



University of Veterinary  
and Pharmaceutical  
Sciences Brno  
[www.vfu.cz](http://www.vfu.cz)

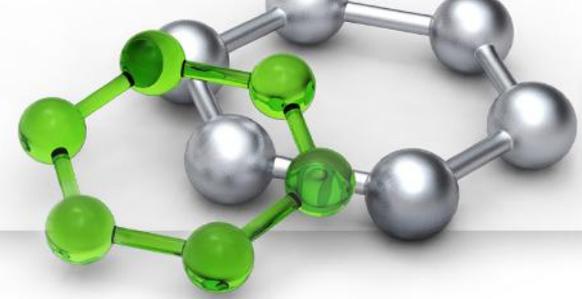


Academy of Sciences  
of the Czech Republic  
[www.avcr.cz](http://www.avcr.cz)  
Institute of Scientific  
Instruments, Institute  
of Physics of Materials



Veterinary Research Institute  
[www.vri.cz](http://www.vri.cz)

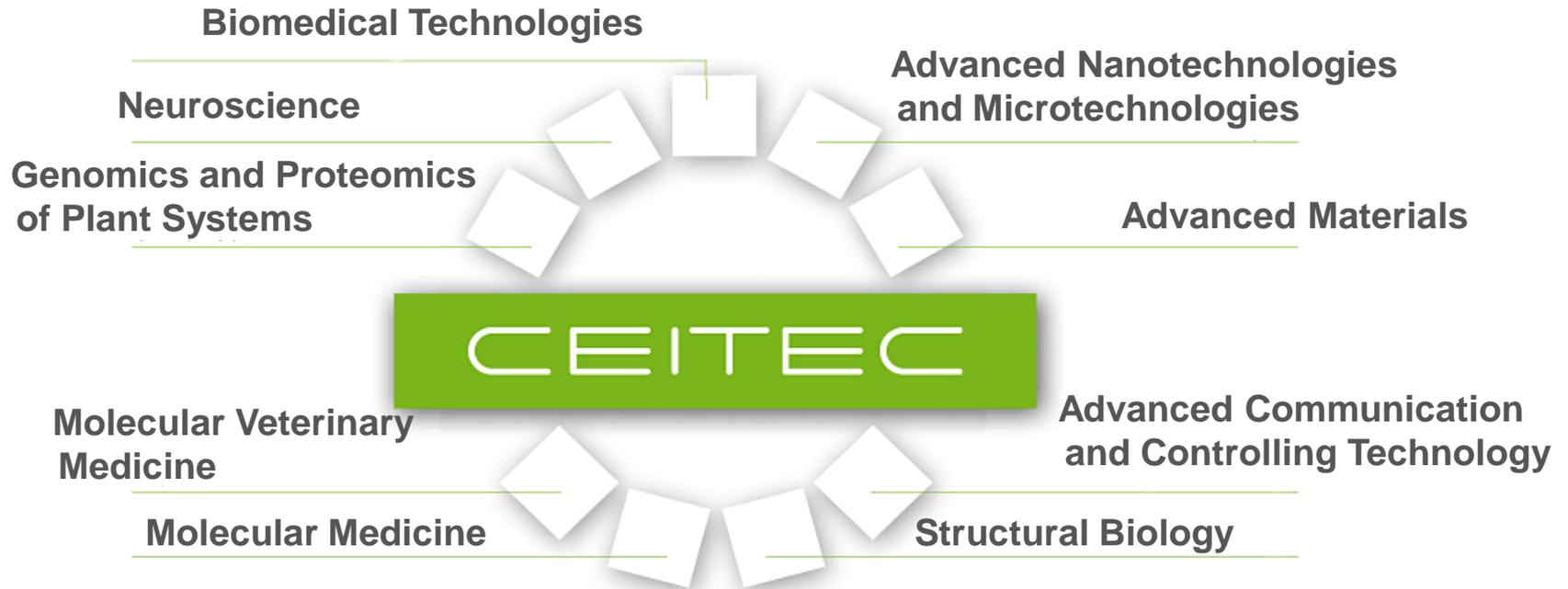
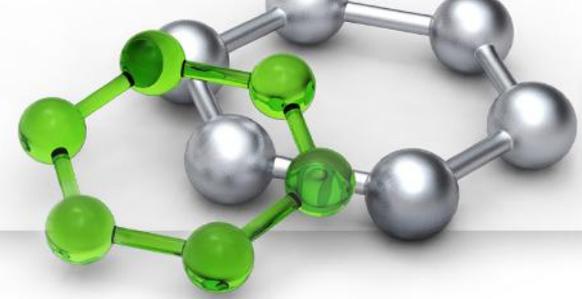
# Project Vision



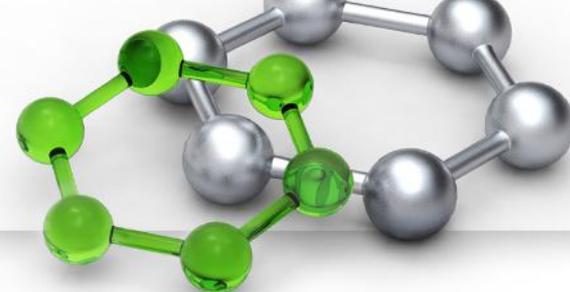
Establishment of a **Centre of Excellence**  
conducting research in the area  
of **QUALITY OF LIFE** and **HUMAN HEALTH**



# Research Programmes



# Research Goals



To utilize plant systems as renewable sources of materials and biologically active compounds

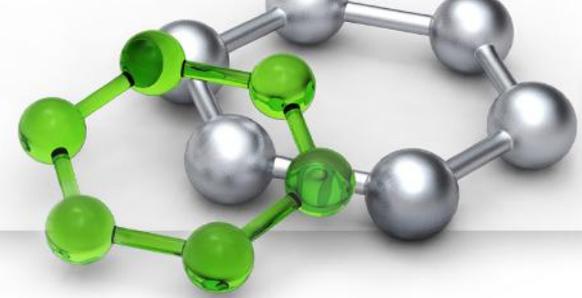
To develop advanced materials and functional nanostructures for medicine, energy and information and communication technologies



To understand the mechanisms of the genesis and spreading of important diseases, methods of their prevention, early diagnostics and therapy

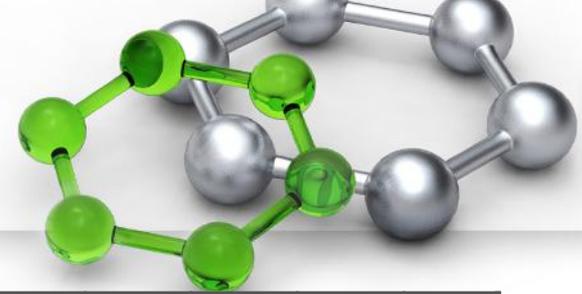
To utilize information and communication technologies for biomedicine

# Financing



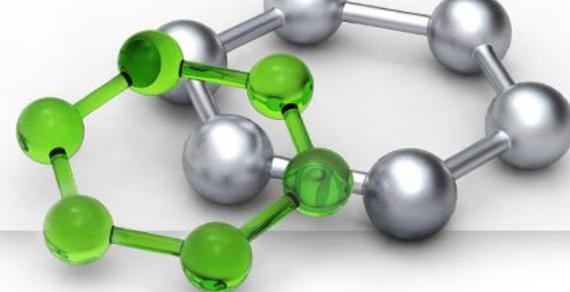
- OP Research and Development for Innovations (Ministry of Education)
- 1st Priority Axis – European Centers of Excellence
- CEITEC Planned budget – **6,53 bln CZK**
  - Buildings (including parcels) – 1,99 bln CZK
  - Core facilities and other laboratories (equipment) – 3,83 bln CZK
  - Start-up grant – 0,71 bln CZK

# Master Schedule



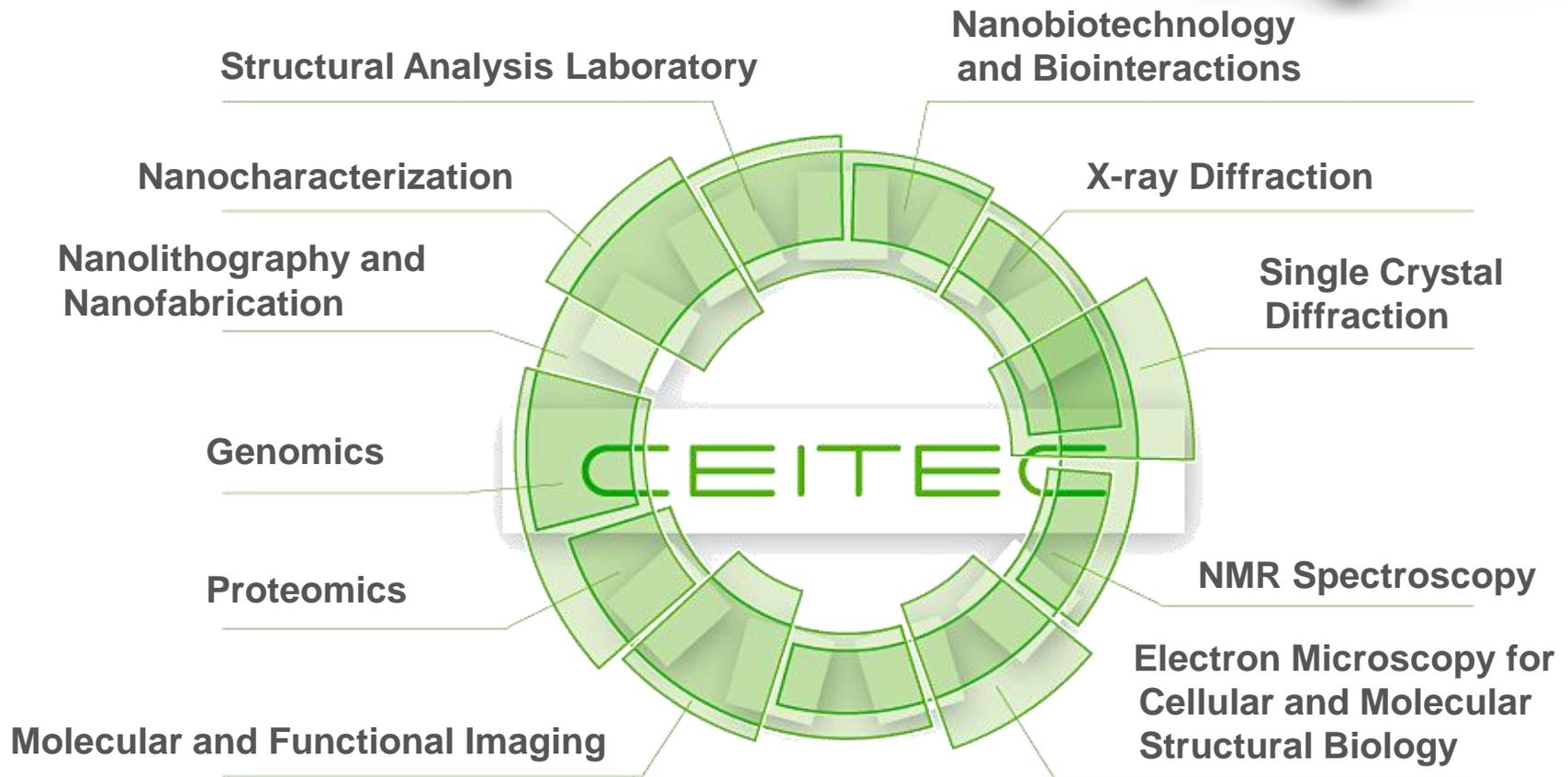
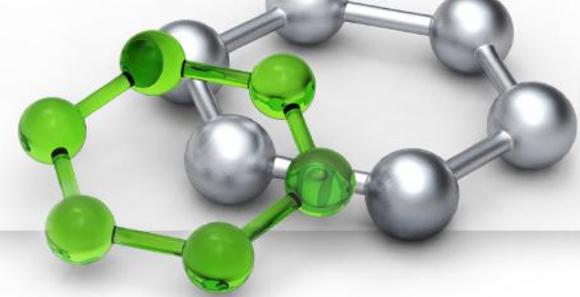
Master schedule	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Project Documentation	█												
Official Call	█												
Approval Process CZ		█											
Approval Process EC			█										
Construction			█										
Acquisition of Equipment			█										
HR Development	█												
Start-up grant			█										
R&D activities			█										

# State-of-the-art Infrastructure

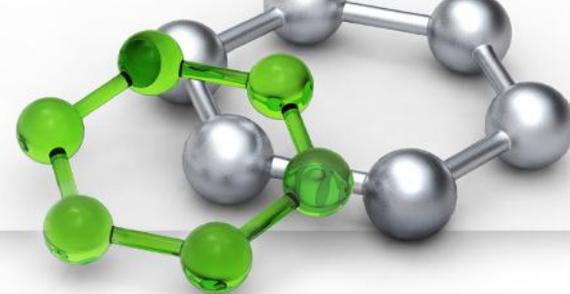


- new laboratories 31 500 m<sup>2</sup> – **Bohunice Campus** (life sciences) and **Pod Palackého vrchem Campus** (technical sciences)
- high-tech equipment
- 11 Core Facilities (for CEITEC and external users)

# CEITEC Core Facilities

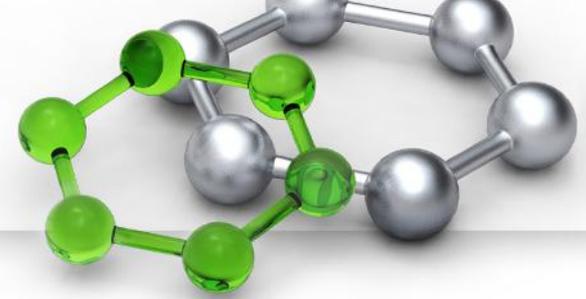


# State-of-the-Art Infrastructure

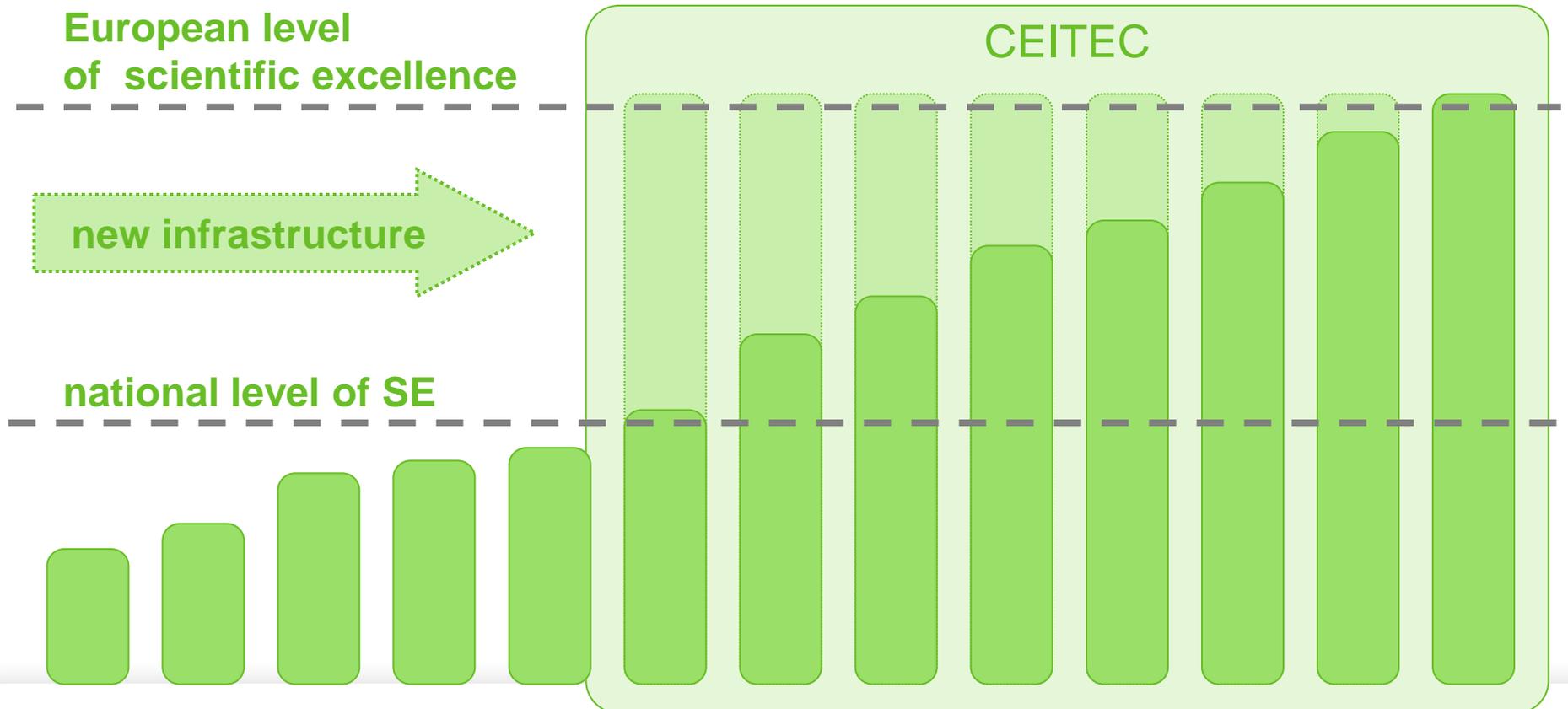


- Connecting to ESFRI Roadmap projects
  - **INSTRUCT** – Integrated Structural Biology Infrastructure – **CEITEC NMR facilities** including unique 1200 MHz spectrometer
  - **PRINS** – Pan-European Research Infrastructure for Nanostructures - **CEITEC nanofabrication and nanocharacterisation facilities**

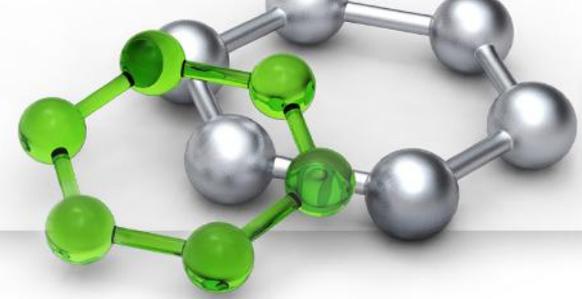
# Focus on Scientific Excellence



Selection of participating research groups



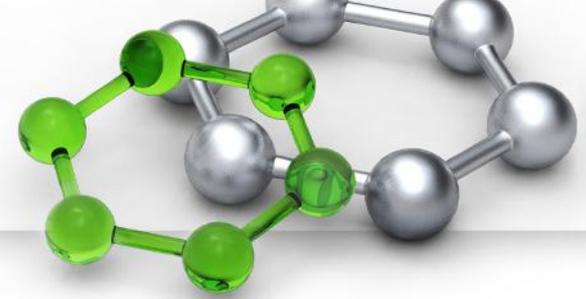
# Attraction and Support of the Best Scientists



- Open international tenders
- Focus on the international mobility
- Use of already existing instruments, e.g.
  - Marie Curie actions of FP7
  - **SoMoPro**, international mobility programme managed by South Moravian Center for International Mobility – financed by FP7-COFUND

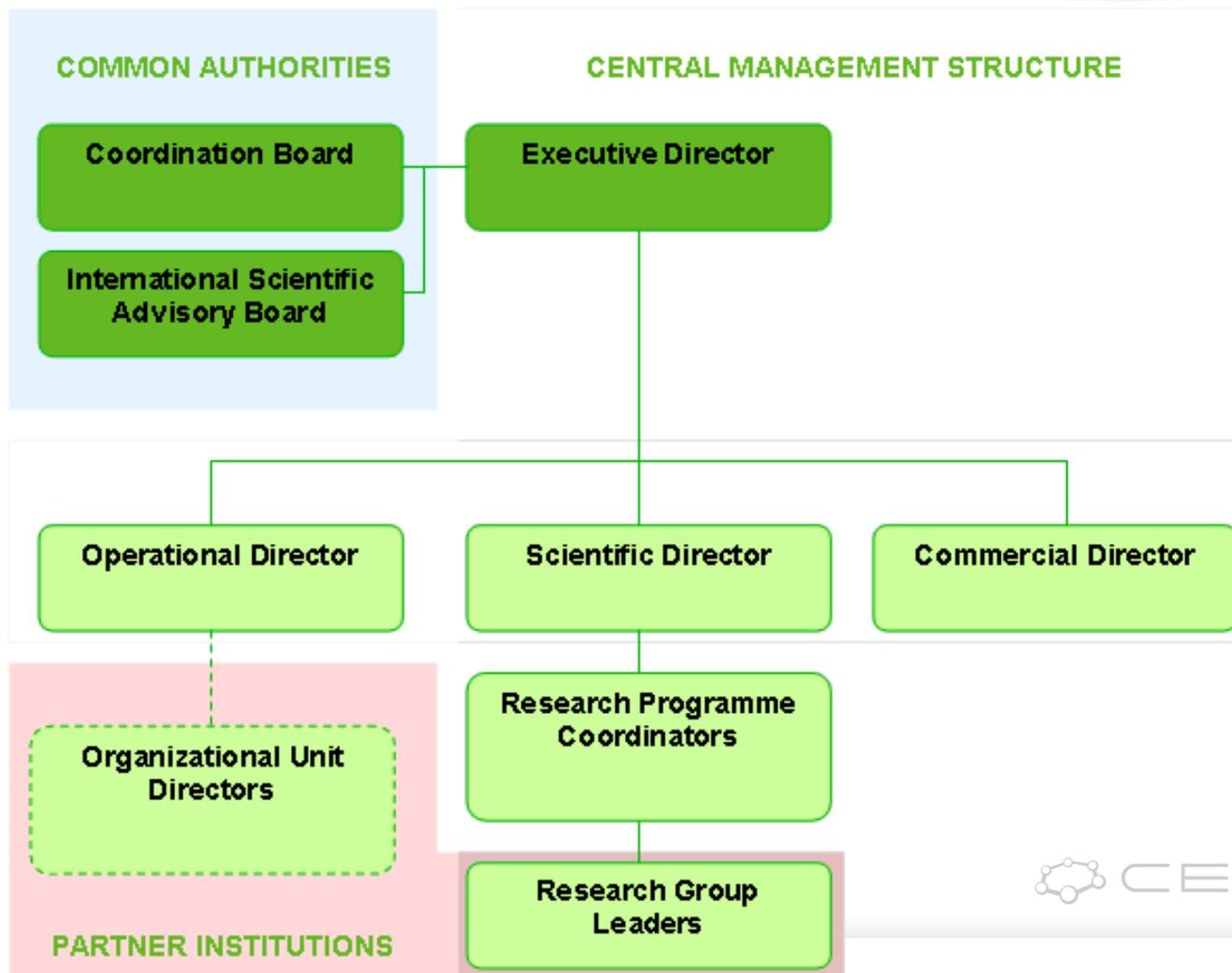
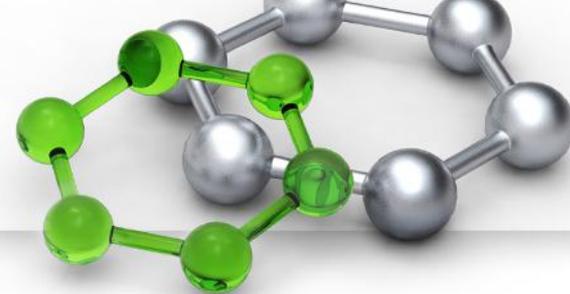


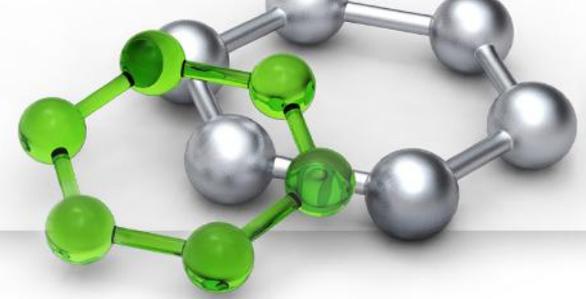
# Focus on Scientific Excellence



- Regular evaluations
- Regular peer reviews
- An independent International Scientific Advisory Board
- Strategic partnerships with the best international institutions

# CEITEC Management Structure



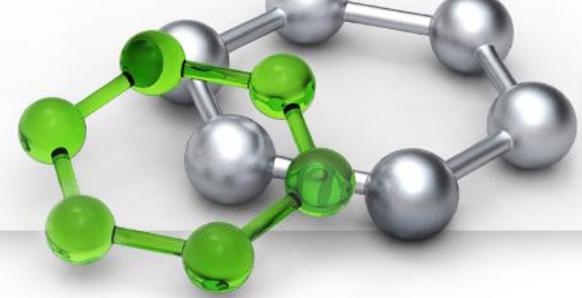


# Regional Context

*South Moravian Region*

*Czech Republic*

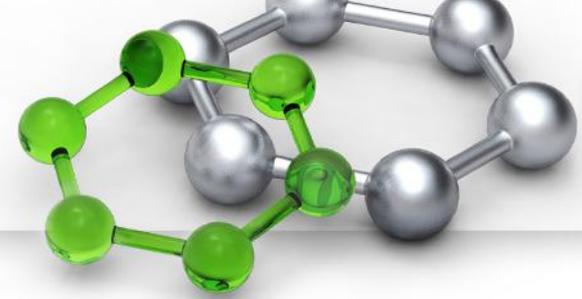
# Regional Context



- Commitment of all major stakeholders – region, city of Brno, universities and research institutes
- Important synergies between various funding sources – structural funds, 7th framework programme, CIP, regional and city funds, ...
- The region itself invested more than 25 mil EUR in last 5 years into support of research, development and innovations



# Regional Innovation Strategy 3



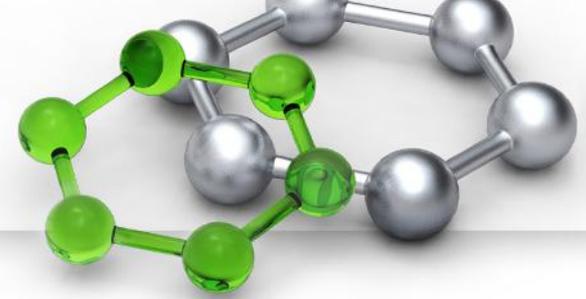
Vision:

„Become one of the first 50 most innovative regions in the EU by 2013“



- Currently South Moravian Region is on 60th place

# Regional Innovation Strategy 3

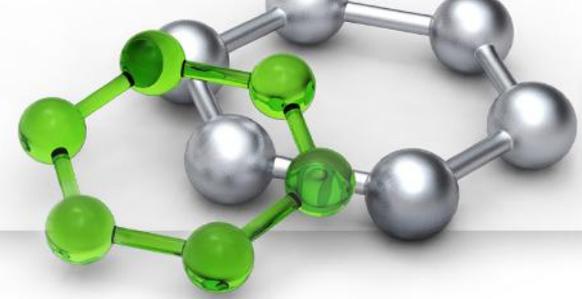


Priority areas:

- Technology transfer
- Advisory and other services for companies
- Human resources
- Internationalisation



# Regional Innovation Strategy 3

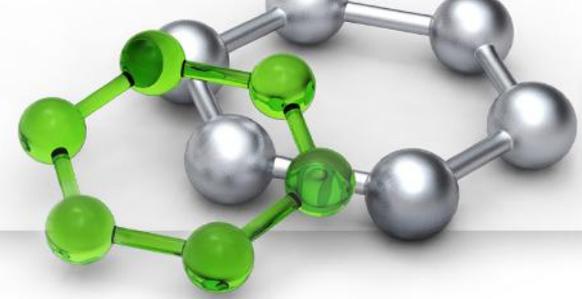


## Regional model of Technology transfer

- Pooling of expert resources on regional level
- Dynamic team for commercialization model
- Involvement of regional actors – universities, research institutes, South Moravian Innovation Center
- Joint applications for funding from structural funds



# Regional Innovation Strategy 3

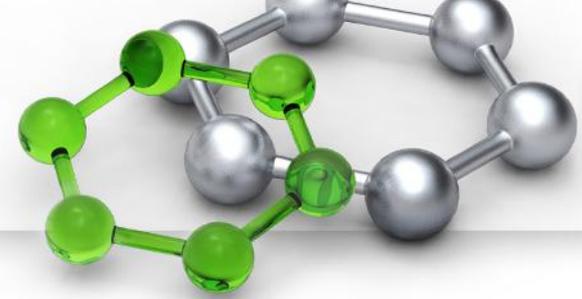


## Technology transfer - projects

- Technology transfer point
- Innovation vouchers
- Proof of concept fund



# Regional Innovation Strategy 3

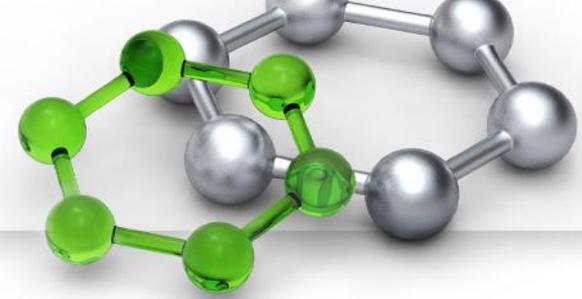


Advisory and other services – projects

- CEITEC Science Park (10 000m<sup>2</sup>)
- Competence centers – electrotechnics, machinery
- Financial fora – find your investor
- Patent and licensing fund, microfinance fund, seed fund
- Clusters in key sectors – machinery, electrotechnics, information technologies, biotechnology, ...
- Innovation academy



# Regional Innovation Strategy 3

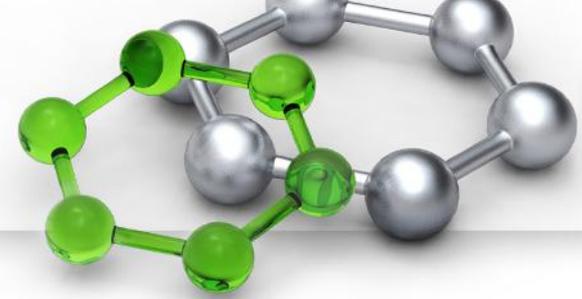


## Human resources - projects

- Moravian Science Center Brno
- Support to talented youth
- PhD scholarships
- SoMoPro – regional mobility fund co-financed by FP7-COFUND
- EURAXESS



# Regional Innovation Strategy 3

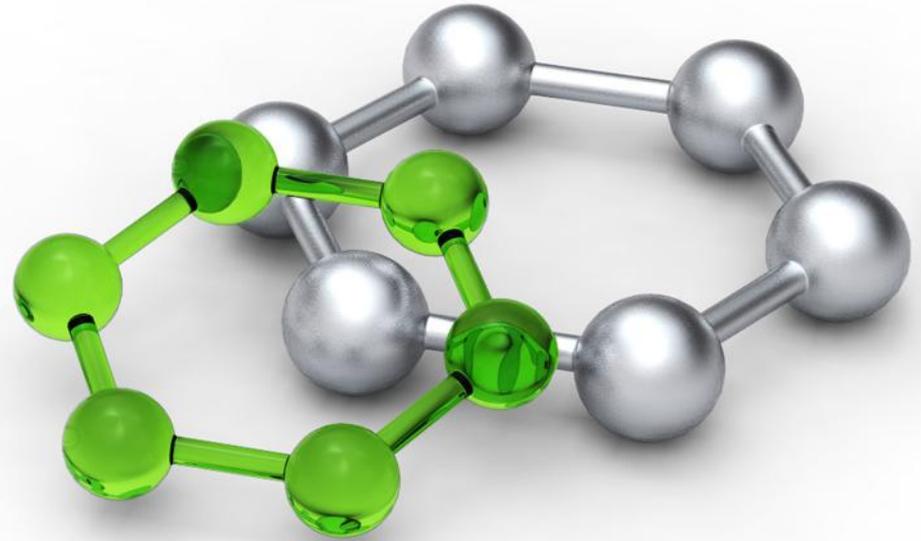


## Internationalization - projects

- Brokerage events - 2009 ICT, 2010 life-science
- Sectoral conferences – 2010 – Gate2BrnoBiotech
- Company missions
- International secondary school



# Thank you for your attention



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c/o Masaryk University

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