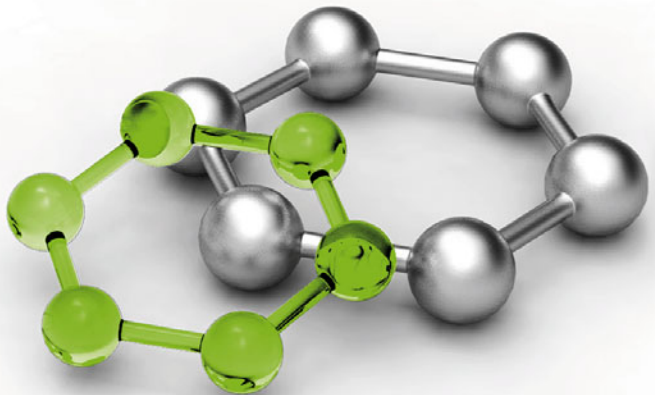


CEITEC

central european
institute of technology

BRNO | CZECH REPUBLIC



CEITEC



EUROPEAN UNION
EUROPEAN REGIONAL DEVELOPMENT FUND
INVESTMENT IN YOUR FUTURE



2007-13
**OP Research and
Development for Innovations**

CEITEC Project

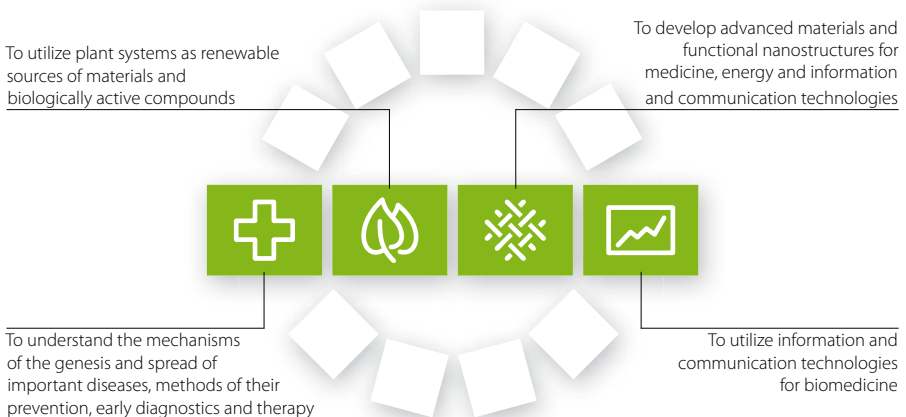
CEITEC – the central european institute of technology is a project to develop a European centre of excellence in the fields of life sciences and advanced materials and technologies, which is being jointly undertaken by the most prominent Brno universities and research institutes, and which is being supported by the South-Moravian Region and the City of Brno. It is an establishment of modern laboratories with state-of-art instrumentation and technologies that will ensure suitable conditions for conducting both basic and applied research.

Excellent research will be carried out within the CEITEC scientific centre as well as advanced post-graduate and post-doctoral education that will be provided in the fields of nanotechnologies and microtechnologies, structural biology, genomics and proteomics going into advanced materials and medicine. The high-tech technologies installed will enable synergic study in the subjects of life and traditional sciences on all currently available levels of complexity, starting with individual atoms, through molecules, molecule groups and cells to whole organisms.

Project Vision

*We will create a centre of scientific excellence whose results will contribute to the **improvement of quality of life and human health.***

Research Goals



Project Strategy

- To attract and support the best scientists (local and international)
- To build-up the best infrastructure (a network of shared and specialized laboratories)
- To focus on scientific excellence (supported by a system of management and regular evaluation)
- To set transparent and effective rules for the cooperation with the application sphere

The uniqueness of the project is based on inter-connection and targeted cooperation of the best research teams of partner institutions. This cooperation is further supported by the best infrastructure, international mobility and a system of management stemming from the experience of the best world research institutes. Within the project, modern instruments and equipment, including the construction of structures to house the eleven central laboratories, will be conceptually added to the existing infrastructure of the partner institutes. The joint use of the state-of-the-art infrastructure will enable, in addition to narrowly specialized research, intensive cooperation among fields and a higher-quality environment for tuition.

Research Programmes

CEITEC is based on the synergy of nine research programmes, whose research and development activities aim to reach the four research goals that CEITEC aspires to achieve in the future. The variety of fields necessary for meeting the given goals determines the need for cooperation of individual teams during the different stages of the research and development.

Biomedical Technologies

Neuroscience

Genomics and Proteomics
of Plant Systems

Molecular Veterinary
Medicine

Molecular Medicine

Advanced Nanotechnologies
and Microtechnologies

Advanced Materials

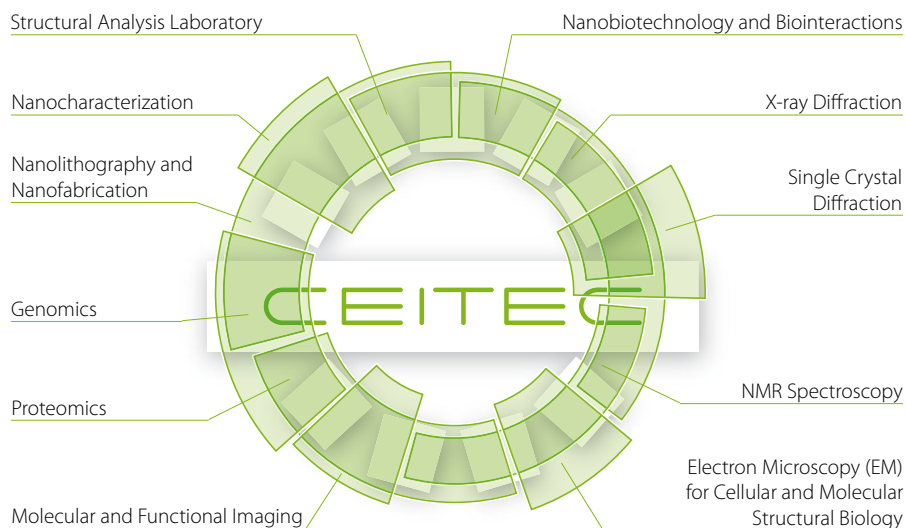
Advanced Communication
and Controlling Technologies

Structural Biology



Core Facilities

The main features of integration will be the central laboratories and maximizing synergies to be concentrated in two sites, the Bohunice campus and Pod Palackého vrchem campus. Laboratories in the Bohunice campus will focus on science and medicine and may benefit from being near to the Faculty Hospital in Brno and the biomedical incubator. At the Pod Palackého vrchem campus, which neighbours the Technological Park, there will be a centre for material science and advanced technologies. Both parts will operate as inter-disciplinary scientific workplaces used throughout the universities.



Financing

The European Regional Development Fund through the Operational Programme Research and Development for Innovations, priority axis 1 – European Centres of Excellence is considered a major source of funding for CEITEC – managed by the Ministry of Education, Youth and Sports.

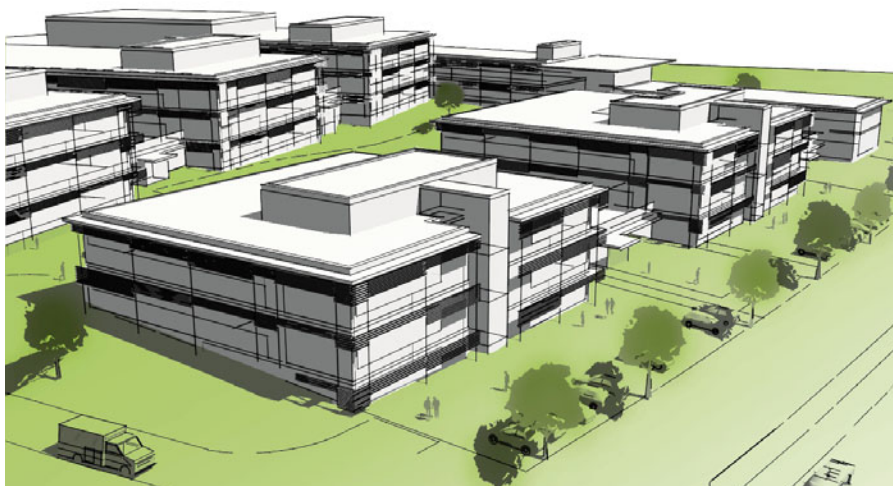
The total budget of the CEITEC project amounts to nearly EUR 242 mil.

Benefits to the Region

- long-term increase of the competitiveness of the region
- creation of new jobs in perspective fields
- building research laboratories for more than 1,600 students (annually) and nearly 800 scientists
- arrival of foreign experts and investors
- return of respected Czech scientists



CEITEC laboratories in Brno – Bohunice University campus



CEITEC laboratories in Brno - Královo Pole, Pod Palackého vrchem campus.

Project Participants



Masaryk University
www.muni.cz



Brno University of
Technology
www.vutbr.cz



Mendel University
in Brno
www.mendelu.cz



University of Veterinary
and Pharmaceutical
Sciences Brno
www.vfu.cz



Academy of Sciences
of the Czech Republic
www.avcr.cz
Institute of Scientific
Instruments, Institute
of Physics of Materials



Veterinary Research Institute
www.vri.cz

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