Investing
in your future

Operational Programme

Research and Development for Innovation

ELIXIR - EXCELERATE
structural funds workshop

October 8-9, 2015
Brno

Jan Radoš
OP RDI Managing Authority
Ministry of Education

MINISTRY OF EDUCATION, YOUTH AND SPORTS

EUROPEAN UNION
EUROPEAN REGIONAL DEVELOPMENT FUND
INVESTING IN YOUR FUTURE

2007–13
OP Research and Development for Innovation

Global objective

The global objective of the OP R&DI is

…to strengthen the research, development and innovation potential of the Czech Republic that shall contribute to its economic growth, competitiveness and to the creation of highly qualified workplaces so that the Czech regions can become important locations for the concentration of these activities within Europe.

•Programming / eligibility period: 2007-2015

•Total sources: 2.1 bn. EUR (67.7 bn. CZK) 85% ERDF, 15% National

•Eligible beneficiaries: research organisations according to the„*Community Framework for State Aid for Research and Development and Innovation*“

Eligible costs

- reconstruction and extension of the R&D capacities, or economically reasoned building of new capacities,
- purchase of instrumentation, laboratory and information equipment and infrastructure for research and technological development, including training for the use of new facilities
- personnel and running costs (if full cost methodology approved) and costs of research activity linked to the new infrastructural investment (up to 20% of total eligible expenditures)
- conferences, workshops, study stays, membership fees, promotional and networking events

Priority axis (PA)

- **PA 1: European Centres of Excellence**
- Specific objective: To create a limited number of centres equipped with a unique and high-quality R&D infrastructure that will be able to get involved in the international cooperation within the ERA and ESFRI and create results that can be utilized in application sphere.
- **Source: 681 mn. EUR**

- **PA 2: Regional R&D Centres**
- Specific objective: To provide regional R&D capacities intended for creation and transfer of findings and for strengthening the collaboration of R&D institutions with the application sphere.
- **Source: 733 mn. EUR**

Selected project with a strong int. dimension

- **ELI** – Extreme Light Infrastructure (Institute of Physics, AS CR)
- **CEITEC** – Central European Institute of Technology (MUNI, Brno)
- **BIOCEV** – Biotech & Biomed Research Centre (IMG, AS CR, Vestec)
- **IT4Innovations –** Supercomputing (Ostrava)
- **SUSEN** – Sustainable Energy (private entity, Řež)
- **FNUSA-ICRC** - St. Anne's University Hospital in Brno – International Clinical Research Centre
- **CzechGlobe** – Climate change research (Brno, multi-sited, AS CR)
- **BIOMEDREG** – biomedicine and translational medicine (PU, Olomouc)

ICRC - International Clinical Research Centre

- **FNUSA-ICRC** - St. Anne's University Hospital in Brno – International Clinical Research Centre
- **Total eligible costs**: 2 365 000 000,- CZK *(87 269 372,- EUR)*
- **Grant Award Decision**: 17. 6. 2011
- **End of the Realisation Phase** (expected): 31. 12. 2015

- The goal of the FNUSA-ICRC project is to **establish a top-quality international centre for applied medical research**, which will use the most contemporary methods for cooperation in order to speed up the development of breakthrough medical and diagnostic techniques, new technologies (including biotechnologies and nanotechnologies), and new medications by at least 50%.

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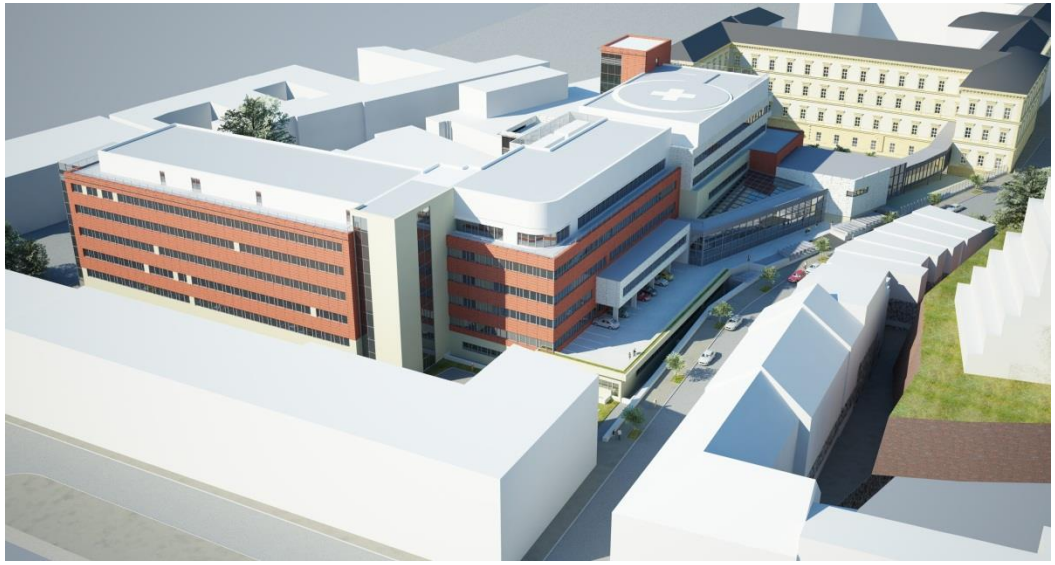
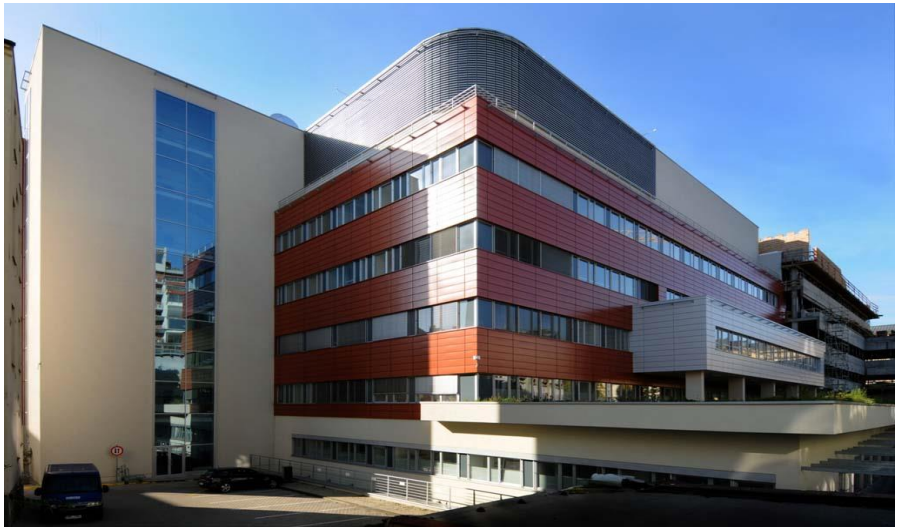
ICRC - International Clinical Research Centre





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BIOCEV – Biotech & Biomed Research Centre

- **BIOCEV –** Biotech & Biomed Research Centre
- **Total eligible costs**: 2 305 086 161,- CZK *(85 058 529,- EUR)*
- **Grant Award Decision**: 31. 1. 2012
- **End of the Realisation Phase** (expected): 31. 12. 2015

- This project for creating a **biotechnological and biomedical centre** has ambitions of becoming a European centre of excellence, which will concentrate teams of renowned experts, who have thus far been scattered across several partnership workplaces of the Academy of Sciences of the Czech Republic and Charles University, and will supplement them with teams of young scientists and experts from abroad. **BIOCEV will help to close the gap that currently exists in the professional environment for developing the advanced biotechnological industry in the Czech Republic**.

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BIOCEV

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Priority axis (PA)

- **PA 3 Commercialisation and Popularisation of R&D**
- Specific objective: To ensure conditions for technology transfer, protection, spreading and application of R&D results, popularization of R&D, increasing the availability of scientific information as well as increasing the efficiency of R&D policy.
- **Source: 192.5 mn. EUR**

- **PA 4 Infrastructure for University Education Related to Research**
- Specific objective: To support the infrastructure for university education related to research, with impact on the growth and quality of human resources for R&D activities and a better preparation of graduates for practice.
- **Source: 433.3 mn. EUR**

Techmania Science Center

- **Total eligible costs**: 576 987 447,- CZK *(21 291 050,- EUR)*
- **Grant Award Decision**: 13. 12. 2011
- **End of the Realisation Phase**: 30. 6. 2015

- **Techmania is based on explanations of particular physical or mathematical principles by means of game-like activities**. The interactivity involves visitors making the exhibits move, so the natural principle will be demonstrated by the particular process. In these cases, learning is based on personal experience.

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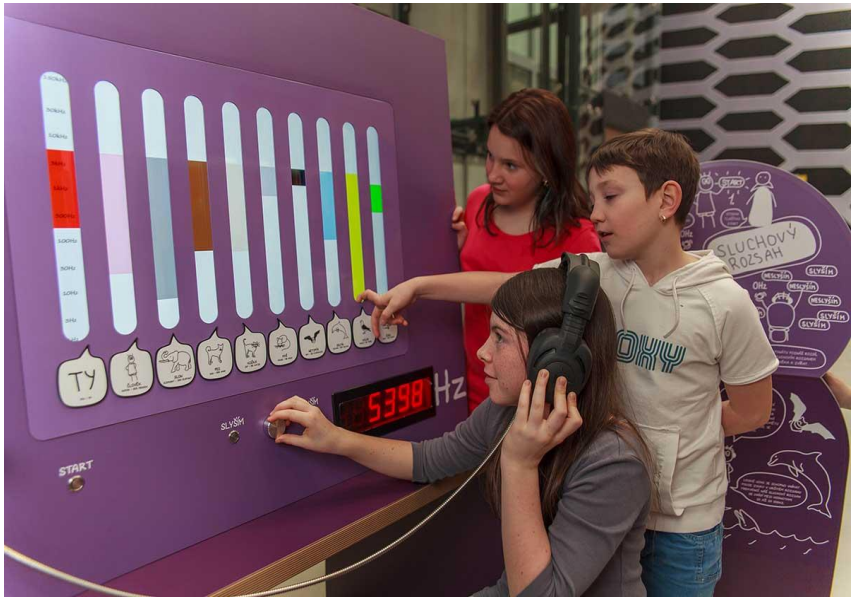
Techmania Science Center



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OP R&DI in numbers

Priority axes	Projects with grant decision		Completed projects	
	no.	CZK	no.	CZK
European centres of excellence	8	20 051 581 338	3	1 642 406 834
Regional research centres	40	20 302 530 597	32	13 455 484 620
Commercialization and popularization of R&D	62	5 185 454 958	42	4 641 763 841
Infrastructure for universities	65	12 541 729 422	47	10 753 475 783
Technical assistance	17	1 602 705 152	7	416 310 840
OP R&DI total	**192**	**59 684 001 467**	**131**	**30 909 441 918**

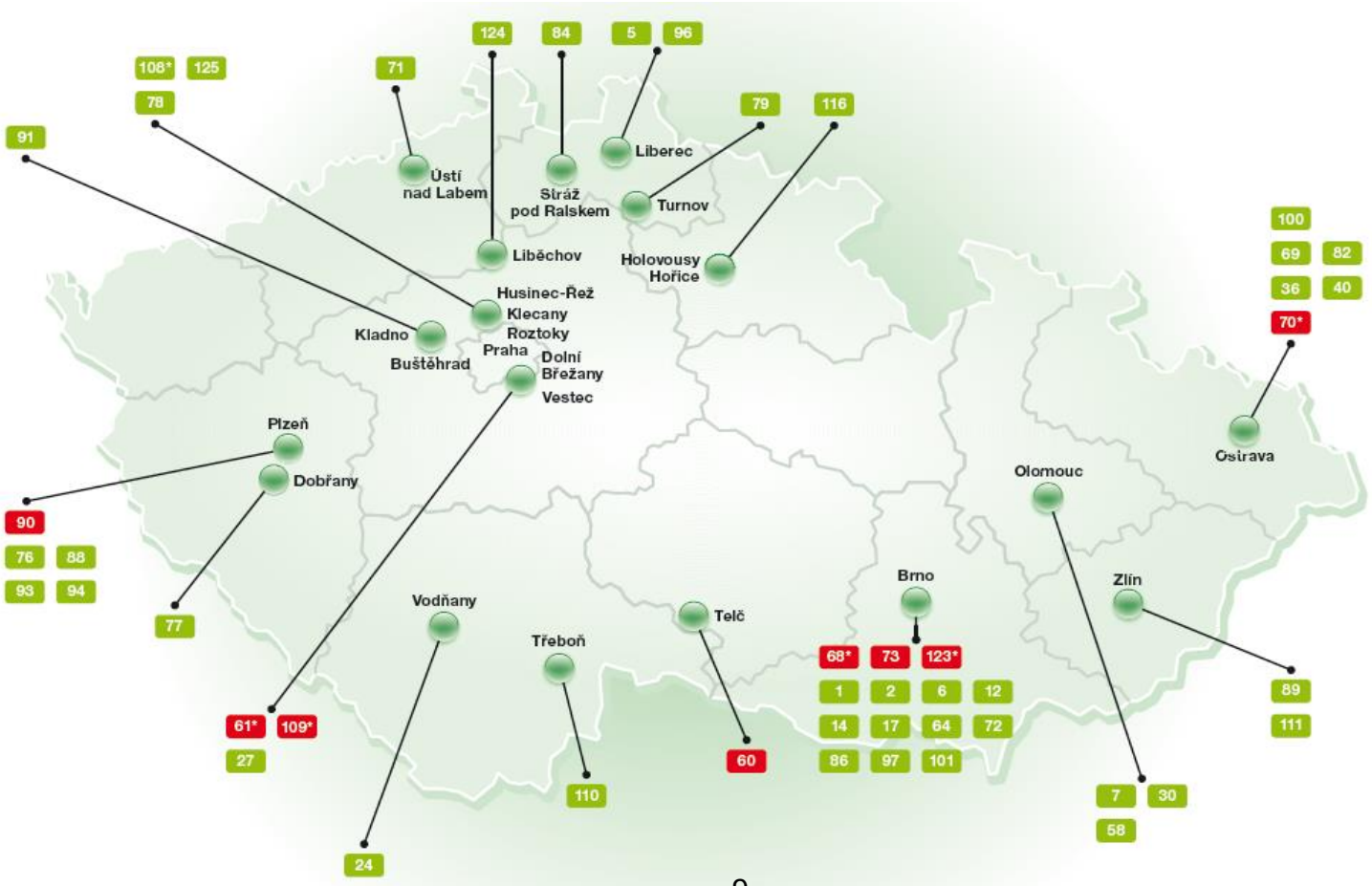
Financial progress in programme implementaion

- 192 Grant Award Decisions were issued in the total amount of CZK 59.5 billion (EUR 2.1 billion) - 104 % of the total OP RDI allocation (without 2 new calls)
- Reimbursed funds total CZK 50.1 billion (EUR 1.85 billion) - 88 % of the OP RDI allocation
- Funds included in summary payment claims equal CZK 40.1 billion (EUR 1.48 billion) - 70 % of the OP RDI allocation
- Certified expenditure equals CZK 39 billion (EUR 1.5 billion) - 68 % of the total OP RDI allocation

Selected monitoring indicators

Code	Name of the indicator	Unit of measurement	Baseline value (2005)	Target value/ Obligation of recipient 2015	Achieved value (most up-to-date values approved by MA - year 2014)
110300	Number of newly created jobs, R&D employees – total (programme level)	Number of jobs	0	2 500	**4 443**
110501	Increase in the total number of recognised R&D results for supported workplaces (programme level)	Number	0	10 000	**11 922**
110710	Number of projects involving cooperation of the application sector with excellence centres (PA 1)	Number	0	60	**85**
111200	Revenue from contract research (PA 1, PA 2)*	CZK	0	1 919 160 863	**909 074 530**
110720	Number of cooperation projects of application sphere with regional R&D centres (PA 2)	Number	0	450	**576**
132010	Number of subjects using the service for commercialization support (PA 3)	Number	0	500	**708**
132100	Number of visitors centers projects and science learning centres for popularization of R&D (PA 3)	Number	0	5	**8**
110511	Renovated, expanded and newly build capacities (PA 1, PA 2, PA 4)	m^2	0	480 000	**404 410**
132110	Number of visitors in supported visitors centres and science learning centres per year (PA 3)	Number	0	1 044 200	**130 529**

Map of the projects (PA 1 and PA2)



Priority Axis 1

60. Telč Centre of Excellence
61. Extreme Light Infrastructure (ELI)
68. Central European Institute of Technology (CEITEC)
70. IT4Innovations Centre of Excellence
73. CzechGlobe – Centre for Global Climate Change Impacts Studies
90. New Technologies for the Information Society (NTIS)
109. Biotechnology and Biomedicine Centre of the Academy of Sciences and Charles University in Vestec (BIOCEV)
123. St. Anne's University Hospital in Brno – International Clinical Research Centre (FNUSA–ICRC)

Priority Axis 2

1. CETOCOEN
2. NETME Centre (New Technologies for Engineering)
5. Centre for Nanomaterials, Advanced Technologies and Innovation (CxI)
6. Centre for Applied Microbiology and Immuno-logy in Veterinary Medicine (AdmireVet)
7. Haná Region Centre for Biotechnology and Agricultural Research
12. Centres for Materials Research at Faculty of Chemistry, Brno University of Technology (CMV)
14. Centre for Research and Utilization of Renewable Energy Sources (CVVOZE)
17. Application and Development Laboratories of Advanced Microtechnologies and Nanotechnologies (ALISI)
24. South Bohemian Research Centre on Aqua-culture and Biodiversity of Hydrocenoses (CENAKVA)
27. HILASE: New Lasers for Industry and Research
30. Biomedicine for Regional Development and Human Resources (BIOMEDREG)
36. Innovation for Efficiency and the Environment (INEF)
40. Regional Material Technology Research Centre (RMTVC)
58. Regional Centre for Advanced Technologies and Materials (RCPTM)
64. Transport R&D Centre (CDV PLUS)
69. ENET – Energy Units for the Use of Unconventional Energy Sources
71. Unipetrol Research and Education Centre (UniCRE)
72. Centre for Sensory, Information and Communication Systems (SIX)
76. Biomedical Centre of Medical Faculty in Plzeň (UniMeC)
77. West-Bohemian Centre of Materials and Metallurgy (ZMMC)
78. National Institute of Mental Health (NIMH)
79. Regional Centre for Special Optics and Opto-Electronic Systems (RCSOOES)
82. Institute for Clean Technologies in Extraction and Utilization of Energy Resources (ICT)
84. Membrane Innovation Centre (MIC)
86. Regional R&D Centre for Low-Cost Plasma and Nanotechnology Surface Treatment (CEPLANT)
88. Centre for New Technologies and Materials (NTC)
89. Centre for Security, Information and Advanced Technology (CEBIA – Tech)
91. University Centre for Energy Efficient Buildings (UCEEB)
93. Regional Technological Institute (RTI)
94. Regional Innovation Centre of Electrical Engineering (RICE)
96. Mechanical Engineering Research Development Centre in Liberec (CRSV)
97. AdMaS – Advanced Materials, Structures and Technologies
100. Institute of Environmental Technology (IET)
108. Sustainable Energy (SUSEN)
110. Třeboň Centre for Algal Biotechnology (Algatech)
111. Centre for Polymer Systems (CPS)
116. Pomological Research Institute
124. ExAM Experimental Animal Models
125. Acquisition of Technology for the Centre of Vehicles of Sustainable Mobility (CVUM)

Issues concerning realization of OP RDI

- Loss of allocation in consequence of non-fulfilment of n+2 rule at the end of 2014
- Delays in implementation of the projects mainly due to Public Procurement Law
- Achievement of the target values in some monitoring indicators (definition of „contract research“, external factors affecting results,…)
- State aid – new Community Framework adopted in 2014, limitation in using supported infrastructure for economic activities (no clear methods for calculation)
- Sustainability of research centres creates more pressure on national budget- National sustainability programme I, II 2015-2020 – 2,5 bn CZK / year

Positive effects of OP RDI

- Improvement in quality of research infrastructures through the country – potential to increase quality of R&D and to attract recognized scientists
- Evaluation activities based on international peer review
- Financial support of various spheres connected to R&D (complementary Priority Axes)
  - Popularization and promotion of science and technology (science learning centres)
  - Technology transfer and proof of concept activities
  - Support of university infrastructure related to research

2014-2020 OP Research, Development and Education

1) PA 1 Strengthening of capacities for high-quality research (ERDF) – 4 specific objectives (SO); support of excellent and pre-aplication research
2) PA 2 Development of Higher Education Institutions (HEIs) and human resources for R&D (ESF and ERDF) – 5 ESF SOs, 1 ERDF SO; support of HEIs and HR for R&D
3) PA 3 Equal access to high-quality pre-school, elementary and secondary education (ESF) – 7 SOs – support of education from preschool education till secondary school education
4) PA 4 Technical assistance (ERDF) – 2 SOs

Total allocation: 2.7 bn. EUR (ESF + ERDF)

BASIC FRAMEWORK OF OP RDE 1/2

- All the R&D project proposals must be **in accordance with RIS3 Strategy**
- Establishing of new research centres outside the region of the capital city of Prague **will not be supported**
- Building up, modernisation, reconstruction and upgrade of current research centres **will be supported in regions**
  - Building up is considered as widening or completing of existing capacity of an R&D centre linked to acquiring or using new technologies, in currently existing building if possible
- Infrastructure investments will be supported linked with investments in research and/or human resources

BASIC FRAMEWORK OF OP RDE 2/2

- Regulation of **co-financing ESI Funds** in programming period 2014 – 20
  - ✓ Gives the minimal limits for co-financing projects by beneficiaries from their own economic activities
  - ✓ Research organisation – min. 5% (within the Czech Republic)
- There is no limit for the number of project proposals submited by one organization (unless it is specified in a call for proposals)

Thank you for your attention!

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