



MINISTRY OF EDUCATION,  
YOUTH AND SPORTS

**ELI Beamlines and ELI-ERIC**  
*Role and perspective of the Ministry  
of Education, Youth and Sports  
of the Czech Republic*

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**Ministry of Education, Youth and Sports**



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## **Contents**

- 1. Ministry of Education, Youth and Sports – mission**
- 2. ELI Beamlines and ELI-ERIC – financial instruments**
- 3. Large research infrastructures – funding scheme**
- 4. Current state-of-play and next steps**





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# 1. Ministry of Education, Youth and Sports – mission

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- Major body/office participating in making the Czech **national research, development and innovation policy** and strategies for respective fields
  - **National R&D Policy** of the Czech Republic for the years 2016-2020 (jointly with the Research, Development and Innovation Council)
  - **National Research and Innovation Strategy for Smart Specialization** of the Czech Republic (main responsibility of the Research, Development and Innovation Council)
  - **National ERA Roadmap** of the Czech Republic for the years 2016-2020
  - **Operational Program Research, Development and Education** (EU cohesion policy period 2014-2020)
  - **Roadmap of Large Research Infrastructures** of the Czech Republic for the years 2016-2022
  - **Action Plan for International Cooperation** of the Czech Republic in R&D and internationalization of R&D environment in the Czech Republic for the years 2017-2020
  - **Action Plan for Human Resources Development and Gender Equality in R&D** in the Czech Republic for the years 2018-2020



- **Largest R&D funding provider** in the Czech Republic
  - Institutional funding for higher education institutions
  - “Specific university research“ performed by Master / Ph.D. students
  - “Large research infrastructures“ (regardless of their founder)
  - National sustainability programs I and II
  - International cooperation in R&D
  
- **In charge of international cooperation in R&D** of the Czech Republic
  - COMPET, RWP, ERAC, ESFRI, GPC, SFIC, Horizon 2020 PC, etc.
  - Membership in international R&D organizations and ERIC
  - Participation in international R&D programs (EU / non-EU)
  
- **Responsible for European Structural and Investment Funds** dedicated to public R&D sector of the Czech Republic
  - Operational Program Research and Development for Innovation (EU cohesion policy period 2007-2013)
  - Operational Program Research, Development and Education (EU cohesion policy period 2014-2020)



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## ELI Beamlines



### **ELI Beamlines**

*Dolní Břežany near Prague*

*Institute of Physics*

*Academy of Sciences of the Czech Republic*



**The Czech Academy  
of Sciences**





## **2. ELI Beamlines and ELI-ERIC – financial instruments**

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### **● Preparation phase**

- 7th EU Framework Program for Research, Technological Development and Demonstration Activities (2007-2013)

### **● Implementation phase**

- Operational Program Research and Development for Innovation (EU cohesion policy period 2007-2013) – 1st phase until 2015
- Operational Program Research, Development and Education (EU cohesion policy period 2014-2020) – 2nd phase until 2018



- **Operation phase**
  - **“Large research infrastructures“** funding instrument
    - Operation costs
    - ELI-ERIC membership fees
  - **ELI Beamlines host research organization's institutional funding**
    - Cover of financial shortfalls in the “start-up“ period
    - Consolidation support for the years 2018-2020
  - **Operational Program Research, Development and Education**
    - “In-kind“ deliveries of technologies to ELI-ERIC
    - Management development, international cooperation, mobility
  - **National Sustainability Program II**
    - Funding for “in-house“ R&D performed by the host institution
    - Sustainability instrument up to 2020
  - **Other funding instruments** of competitive nature
    - National support providers, Horizon 2020, etc.

### 3. Large research infrastructures – funding scheme

- Legal definition of the so-called “**large research infrastructure**“ is stipulated by the national legislation on the support of research, development and innovation from public funds of the Czech Republic
  - *“A research infrastructure, which is a research facility essential for comprehensive research and development with heavy financial and technological demands and which is approved by the Government of the Czech Republic and established by one research organization for the use of other research organizations.“*
- Common characteristics criteria of “large research infrastructures“
  - **Uniqueness**
  - **Open access**
  - **Excellence**
  - **National impact**
  - **International overlap**





## ● **Uniqueness**

- Large research infrastructure represents an exceptional and unique facility gathering critical mass of technological devices and knowledge expertise necessary for performing world-class research, technology development and innovation

## ● **Open access**

- Large research infrastructure is operated by a research organization for the use of other entities from the research community and provides external users with services on basis of tenders evaluated by experts

## ● **Excellence**

- R&D results reached by using the large research infrastructure respond to socio-economic challenges and are of high-quality and highly relevant from the “value for money“ point of view

## ● **National impact**

- Large research infrastructure has at least national importance, significance and impact within the Czech Republic

## ● **International overlap**

- Large research infrastructure is inter-linked with other research infrastructures within macro-regional, pan-European or global networks having significant international impact



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- **Requirements for funding** of a “large research infrastructure“
  - Compliance with **general qualitative criteria** stipulated by the national legislation of the Czech Republic on support of research, development and innovation from public funds
  - Positive outcome of an **international peer-review evaluation** organized by the Ministry of Education, Youth and Sports (being responsible for “large research infrastructures“ funding)
  - Recommendation for funding issued by **Research, Development and Innovation Council** (expert advisory board to the Government of the Czech Republic)
  - Adoption of funding proposed by the Minister of Education, Youth and Sports on the **Government of the Czech Republic** session (i.e. by Prime Minister and all other Ministers)



- **“Large research infrastructures“ evaluation procedure**
  - Methodology in line with rigorous ESFRI evaluation standards and based on international peer-review assessment principles
  - International evaluation committee composed of a Chair and 6 Scientific Boards per 5 Members formed by reputable international experts on research infrastructures
  - Two in-person meetings of Scientific Board, external inputs delivered by another 3 experts, interview with management of a “large research infrastructure“ = comprehensive 6 months assessment procedure
  
- **“Large research infrastructures“ evaluation criteria**
  - Organization and management structure
  - Knowledge and technology expertise provided
  - Technology and human resources development plans
  - Cooperation at national/international level with public/private sector
  - Open access policy/arrangements and capacity use
  - Scientific and technology development results achieved by users
  - Costs and budget



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- **Once approved by the Government of the Czech Republic**
  - Inclusion of the respective “large research infrastructure“ in the **Roadmap of Large Research Infrastructures** of the Czech Republic for the years 2016-2022
  - Funding of the **operation costs** of the respective “large research infrastructure“ by using the state budget expenditures on R&D within the budgetary chapter of the Ministry of Education, Youth and Sports
    - Personal costs – costs of management, researchers and technicians operating the “large research infrastructure“
    - Operation costs – materials, energy, services (public tenders), international mobility, overheads (flat rate / full-cost), etc.
    - Membership fees – participation in international research infrastructures networks and legal frameworks (ERIC, etc.)







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- **Once approved by the Government of the Czech Republic**
  - Eligibility for particular call of the Operational Program Research, Development and Innovation for covering the **investment costs** of “large research infrastructures“ of the Czech Republic
    - Complementary use of state budget expenditures of the Czech Republic on R&D and European Structural and Investment Funds
  - Mandate for the Minister of Education, Youth and Sports to enter – on behalf of the Czech Republic – the **international legal framework** (e.g. ERIC) that a “large research infrastructure“ is coordinated within







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## 4. Current state-of-play and next steps

### ● Monitoring of ELI Beamlines

- ELI Beamlines successfully passed through the comprehensive international evaluation of “large research infrastructures“ of the Czech Republic, firstly in 2014, secondly in the 1st half of 2017
  - ELI Beamlines on the Roadmap of Large Research Infrastructures of the Czech for the years 2016-2022
  - Fulfilment of principal pre-condition for financing ELI Beamlines from public funds of the Czech Republic and for entering the ELI-ERIC

**QUALITY  
PROCESS**





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## ● Funding of ELI Beamlines and ELI-ERIC

- Proposal for public funding of ELI Beamlines – being a part of the future ELI-ERIC, based on the pre-final version of ELI-ERIC step 2 documentation – has been submitted to Research, Development and Innovation Council
- Statement of the Research, Development and Innovation Council as an expert advisory opinion for the Government of the Czech Republic shall be adopted in September 2017
- Proposal for public funding of ELI Beamlines will be submitted by the Minister of Education, Youth and Sports for the final adoption by the Government of the Czech Republic in October 2017

A red, rectangular stamp with a distressed, ink-like texture. The word "PROCESSED" is written in bold, uppercase, sans-serif letters across the center of the stamp. The stamp is tilted slightly to the right and is placed on a white rectangular background.



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## ● Founding of ELI-ERIC

- Internal approving procedures of the Czech Republic regarding public funding of ELI Beamlines and entering the ELI-ERIC have been developed in line with the timeline of preparation of the ELI-ERIC founding documentation
- Completion of the ELI-ERIC budgetary outlook as a part of the ELI-ERIC business plan is supposed to be made by ELI DC AFC in September 2017
- Completion of the ELI-ERIC step 2 documentation package is expected to be made by the ELI DC GA in October 2017





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## ● Conclusions

- Ministry of Education, Youth and Sports – on behalf of the Czech Republic – shall be prepared to become the founding member of ELI-ERIC once
  - ELI Beamlines is adopted by the Government of the Czech Republic for public funding – expected in October 2017
  - ELI-ERIC step 2 documentation is finalized by ELI DC and adopted by ELI DC GA – expected in October 2017



**...in October 2017?**





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**Thank you for your attention!**

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For info or further questions on this seminar and the activities of the JASPERS Networking Platform, please contact:

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