



# Extreme Light Infrastructure- Nuclear Physics (ELI-NP),

Example of using Structural Funds for the construction  
of the ESFRI Infrastructures:

- Main elements of the investment
- Assessment of the major project
- Main challenges of the assessment
- Sensitive aspects in implementation

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## ELI in European context

- Extreme Light Infrastructure on **ESFRI roadmap**
- Emerging **state-of-the-art laser technologies**
- EUR **1 billion invested** in

ELI Nuclear Physics (Romania) – EC decision

ELI Beamlines (Czech Republic) – EC decision

ELI Attosecond (Hungary)

## ELI – NP: main elements of the investment

- **Two main components:** very high intensity laser and very intense  $\gamma$  beam
- Combined **experiments** between the high-power laser and  $\gamma$  beam or stand-alone experiments
- **34 000 m<sup>2</sup> of new buildings**
- **Total cost:** EUR 356 million
- **ERDF contribution:** EUR 250 million

## ELI NP major project-assessment process (I)

- **Start of the informal discussions:** May 2011
- **Sensitive issues**
  - Connection with the RDI system
  - Connection with the education system
  - Impact on the business environment
  - Impact on the local development
  - Institutional set-up
  - Financing sustainability in the operational phase

## ELI NP major project-assessment process (II)

- **Official submission:** February 2012
- **EC Decision** (1<sup>st</sup> phase): September 2012
- **Commitments taken** by the RO authorities
  - ELI-NP linked to the 2014-2020 national RDI strategy
  - ELI-NP cluster fostering regional and national competitiveness
  - ELI-NP integrated into the local socio-economic environment
  - Securing the financial sustainability in the operational phase
  - Compliance with state aid provisions in the operational phase

## Main challenges for REGIO

- **Expertise** of the national public authorities
- (Different) **institutional set-up** for the three ELI investments (RO, CZ, HU)
- Significant **resources** used by the Commission
- **Cooperation** REGIO/RTD/COMP

## **Sensitive aspects in the implementation phase and after**

- Complexity of the project requires particular attention for
  - Eligibility rules
  - Public procurement
  - Monitoring the execution of the project
  - Monitoring the state aid elements