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LIMITE

RECH

WORKING PAPER

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WORKING DOCUMENT

From: ERAC Secretariat
To: ERAC (European Research Area and Innovation Committee)
Subject: PowerPoint presentation: Research and Innovation in Romania

Delegations will find attached the PowerPoint presentation "Research and Innovation in Romania" given under item 3 of the ERAC Plenary agenda of 21 March 2019.



RESEARCH AND INNOVATION IN ROMANIA



Viorel VULTURESCU

**Director of European and International Affairs Directorate
Ministry of Research and Innovation
ROMANIA**



THE R&I NETWORK

➤ **Research performing organisations**

- 56 public and 35 private universities
- 47 national R&D institutes (technological research)
- 65 research institutes and centers of the Romanian Academy
- Around 1.000 private companies performing R&D
- The network for technology transfer and innovation (ReNITT):
 - 50 specific organizations (technology transfer centres, technology info centres, technology and business incubators)

➤ **RDI governance framework**

▪ **Ministry of Research and Innovation - MCI**

- Advisory Bodies:
 - Advisory Council for RDI
 - National Council for Scientific Research
 - National Committee for Research Infrastructures
 - National Council for Technology Transfer and Innovation
- Implementation Agencies: UEFISCDI, ROSA, IFA

➤ **The National RDI Strategy and Plan 2014-2020:** RDI objectives, priority fields, resources

The National RDI Strategy (2014-2020)

Priority areas

Smart Specialization

Bioeconomy

Energy, Environment and Climate Change

Information Technology and Communication, Space and Security

Eco-nano-technologies and Advanced Materials

National Priorities

Health

Heritage & Cultural Identity

New & Emerging Technologies

The National RDI Strategy

Implementation Instruments

PN RDI III	POC	POR	POCU	Sectoral Plans of ministries	Romanian Academy Programmes
<ul style="list-style-type: none">• National RDI Plan 2015-2020• national budget	<ul style="list-style-type: none">• Operational Program Competitiveness (POC)• structural funds + national budget• RDI stimulating economic competitiveness and business development	<ul style="list-style-type: none">• Regional Operational Program (POR)• structural funds + national budget• Promoting technological transfer	<ul style="list-style-type: none">• Operational Program Human Capital (POCU)• structural funds + national budget• Education and development	<ul style="list-style-type: none">• national budget	<ul style="list-style-type: none">• national budget• Plans of the Romanian Academy - <i>14 scientific programmes</i>



 **P1** Development of the National Research and Development System

 **P3** European and International Cooperation

 **P2** Increase the Competitiveness of the Romanian Economy through Research, Development and Innovation

 **P4** Fundamental and Frontier Research

 **P5** Research in Areas of Strategic Interest

PNCDI
2015 - 2020



Strategic Projects for Research Infrastructures

ELI – NP – *ELI Nuclear Physics* at IFIN - HH, in Măgurele, near Bucharest

One of the three pillars of ELI - THE EXTREME LIGHT INFRASTRUCTURE



10 PW – ACHIEVED !!!!

Strategic Projects for Research Infrastructures

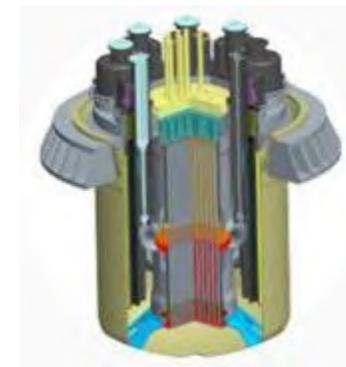
The International Centre for Advanced Studies on River-Sea Systems (DANUBIUS – RI)



Strategic Projects for Research Infrastructures

ALFRED - Advanced Lead Fast Reactor European Demonstrator

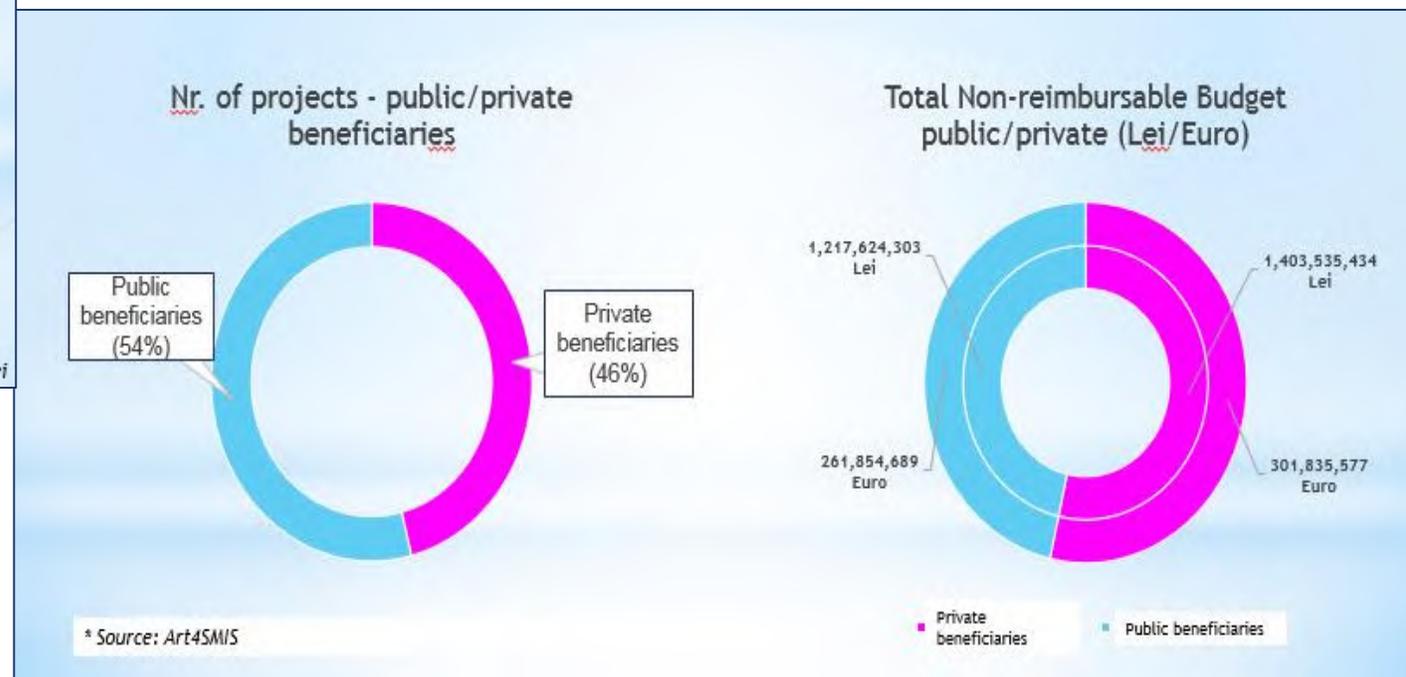
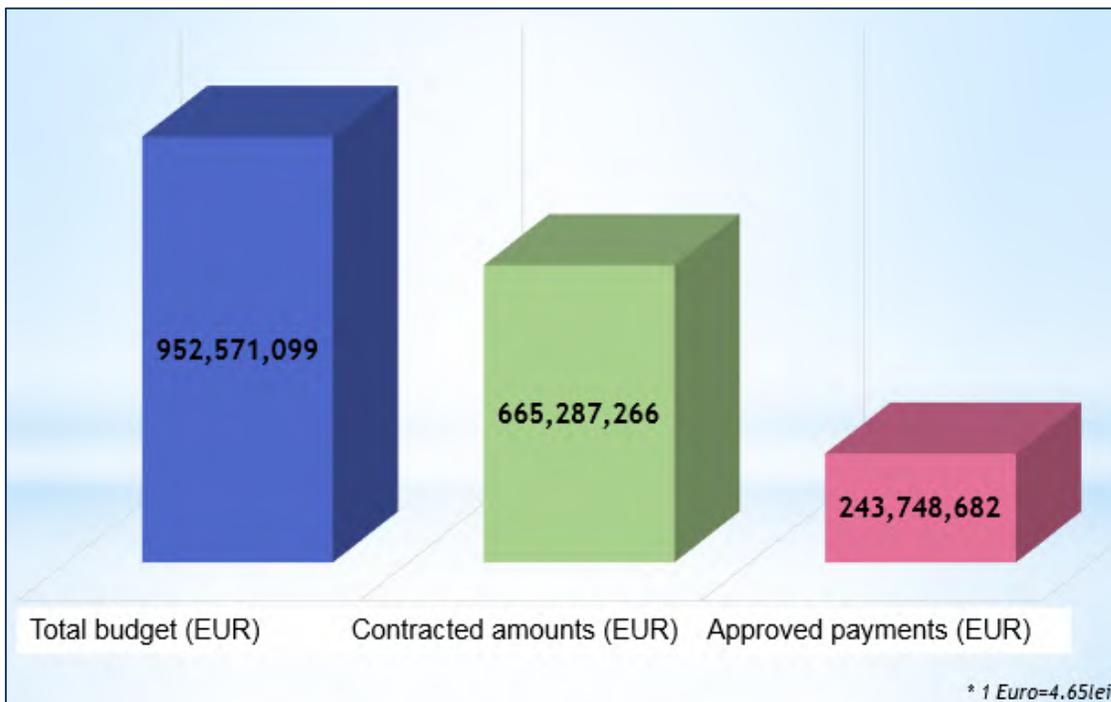
- IV-th generation nuclear reactors technology
- Total power: 300 MWth
- Minimizing radioactive waste
- Higher economic efficiency, higher operations security
- Location: The Nuclear Research Institute (ICN) – Pitești



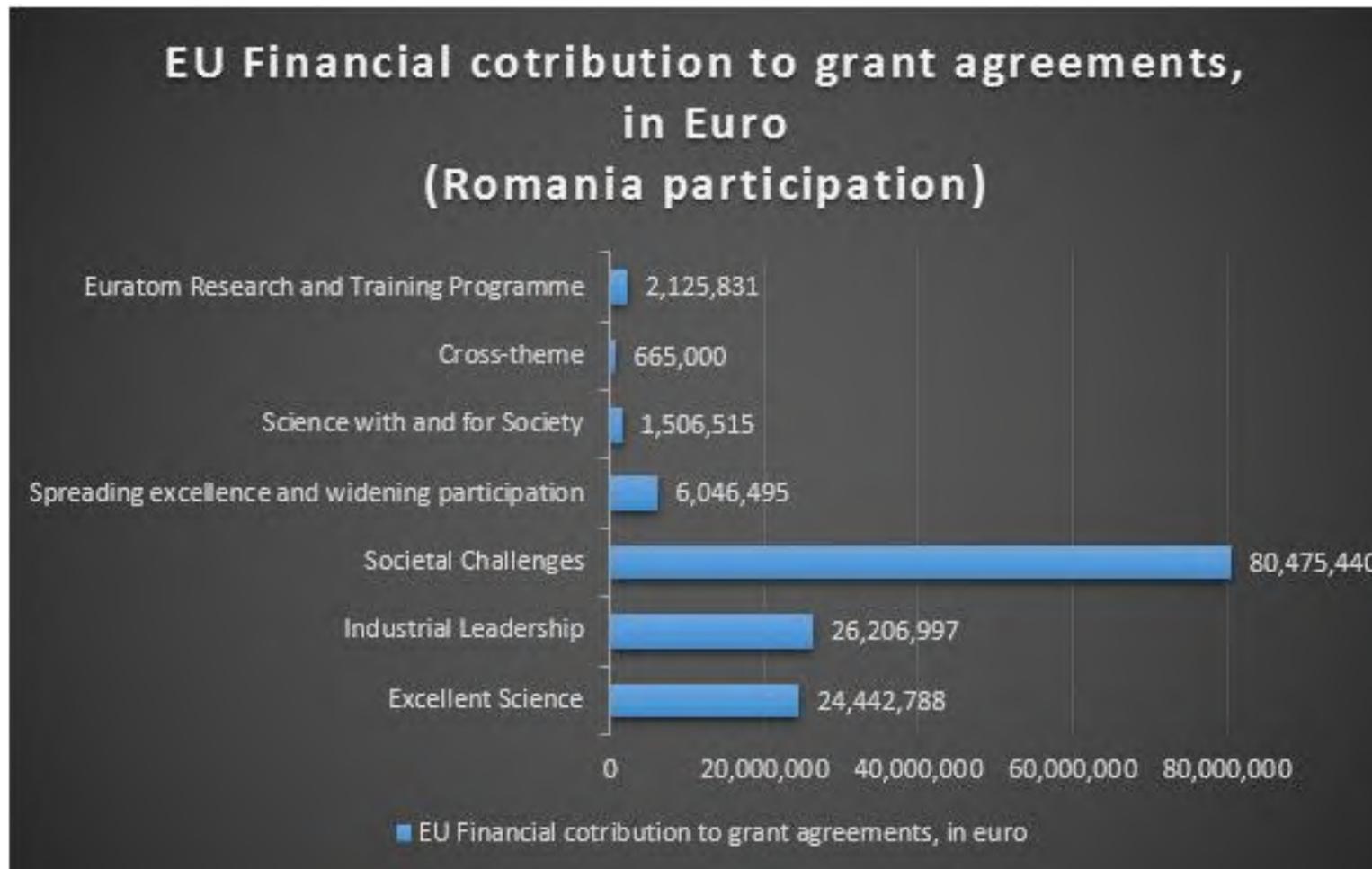
Romania Participation in CERN

- Romania had been working with the CERN for five years before the accession as full member of the organization.
- On 17 July 2016 Romania became CERN's 22nd Member State.
- Currently, Romania takes part in eight experiments at CERN's chief facilities: ALICE, ATLAS, LHCb and WLCG at the Large Hadron Collider (LHC), nTOF at the Proton Synchrotron (PS), at ISOLDE and NA62 at the Super Proton Synchrotron (SPS).
- Ten ongoing collaborative projects (2017) nationally funded for RTD activities on CERN experiments.

Structural Funds – *COMPETITIVENESS*



Romania Participation in H2020



Source: European Commission
January, 2019



ROMANIAN PRESIDENCY OF THE COUNCIL OF THE EUROPEAN UNION

- PRIORITIES AND EVENTS
-

- HORIZON EUROPE - NEGOTIATION STATUS

➤ PRIORITIES

- Supporting Europe's wide **excellence in research and innovation**
- **Reducing disparities in research and innovation performance** between Member States and regions
- **Promoting a European strategic framework** for cooperation in research and innovation **in the Black Sea region**

➤ FOCUS ON...

Horizon Europe, Euratom & ITER

KEY DATES

28 May 2019, Brussels

**EU Competitiveness Council
- Research -**

3 April 2019, Bucharest

Informal Meeting of Research Ministers

CONFERENCES

8-9 May, Bucharest

**European Conference "Sustainable
Development at the Black Sea"**

27-30 May, Bucharest

TandemAEROdays19.20

4-5 June, Bucharest

**MSCA 2019
Marie Skłodowska-Curie Actions Annual
Conference**

4-7 June, Pitești

**FISA & EURADWASTE
European Conference on Nuclear Safety and
Radioactive Waste Management**

CONFERENCES

**12-14 June,
Bucharest**

**EuroNanoForum2019 – The 10th European
Conference on Nanotechnology**

17-19 June, Bucharest

**The 3rd Symposium of the ECSEL Joint
Undertaking**

26-28 June, Iași

**WIREX 2019 Conference
The 10th Week of Innovative Regions in
Europe**

20-21 June, Bucharest

Innovative Enterprise Bucharest 2019



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Thank you!