Romanian expectations from the 2014 – 2020 multi-annual financial period

OPERATIONAL PROGRAMME COMPETITIVITY PRIORITY AXIS 1: RD&I TO SUPPORT ECONOMIC COMPETITIVITY AND BUSINESS DEVELOPMENT

- I would like to present <u>some of the important elements</u> of the programme Axis 1 R & D and innovation to sustain economic competitiveness and business development, Program operation competitiveness.
- I promise to be as <u>concise</u> as possible;
- Go into details in follow up question;
- I will <u>not go</u> into too much <u>details</u> which will be coverted in <u>following presentation;</u>
- Presentation will be focus on the topics

Simpozion FESI, 23

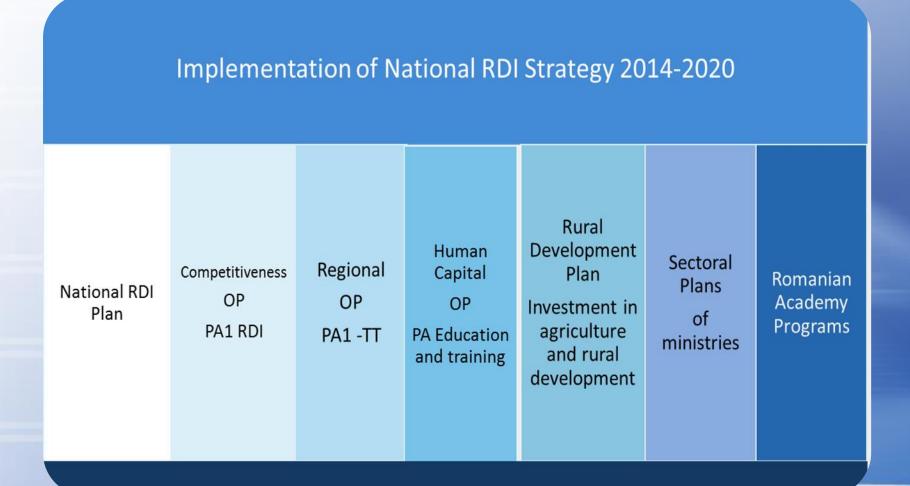
Topics:

- PA1 RD&I Competitiveness OP- Implementation of national RDI Stategy 2014-2020- Funding instruments of Natioal RDI Stategy;
- 2. PA1 RDI- SMART specialization areas identified in the National Strategy of RDI 2014-2020
- 3. Tactical Directions for the new Programme 2014-2020
- 4. Logic of intervention
- 5. Actions for RD&I :
 - Type of projects/competition
 - Launching
 - Buget of competition/project
- 6. Develop RD&I capacities- **synergy**: creating synergies with RD&I action of Horizon 2020 and other international RD&I programme/Complementarities OP Competitiveness and NP III
- 7. Summary /calendar/results PA1 POC
- Strategic approach/expectations

OPERATIONAL PROGRAMME COMPETITIVITY Axis 1 - RD&I

Funding instruments of the National RDI Strategy

Funding instruments of the National RDI Strategy



Funding instruments of the National RDI Strategy

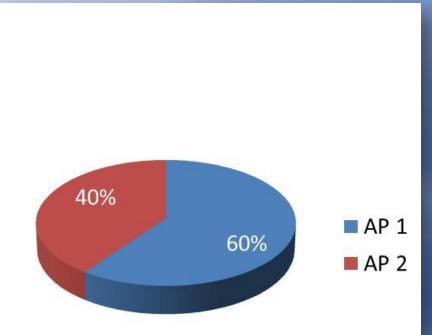
- Priority Axis 1 of OP Competitiveness is the main channel of structural funds for research and innovation but not the only one.
- The Regional OP has a small ERDF allocation for funding technological transfer entities both for infrastructure investment and service support based on smart specialisation areas identified regionally.
- <u>The Rural Development Programme</u> has allocated about 80 million EUR for <u>supporting innovative</u> <u>initiatives at local level.</u>
- <u>The Human Capital OP</u> also supports the thematic objective 1 through actions targeting doctoral and postdoctoral researchers, but the allocation from the European Social Fund to research is much smaller in this financial period than it was in 2007-2013.

Financial allocation: €1,582.76 million

out of which:

 ◆ Priority Axis 1: RD&I to support economic competitivity and business development
 €952.57 million (€ 136 million a year in average)

 Priority Axis 2: Information and Communication Technology for a competitive digital economy €630.19 million(€90 million a year in average)



Priority Axis 1 – RD&I Smart Specialisation Areas

identified in the National Strategy of RD&I 2014-2020:

- 1. Bio-economy
- 2. ICT, Space and Security
- 3. Energy, Environment and Climate Changes
- 4. Eco-nano-technologies and Advanced Materials
- 5. Health

Priority Axis 1 – RD&I Tactical Directions for the New Programme

- Continue the SOP-IEC successful projects (as implementation/outputs/sustainability)
- Develop new types of projects to maximize the financing impact in the previous period (support the exploit of RD infrastructures funded in 2007-2013)
- Finance several projects in synergy with Horizon 2020 projects

Priority Axis 1 – RD&I Logic of Intervention

Specifi C Objective	Actions	Budget (€mil.)	From Axis Budget
SO 1.1	Action 1.1.1 : Large RD Infrastructures	416	44%
SO 1.1	Action 1.1.2 : Developing networks of RD centres which are nationally coordinated and linked to international related, as well as ensuring researchers' access to scientific publishing and international databases	59	6%
SO 1.2	Action 1.1.3 : Creating synergies with RD&I actions of Horizon 2020 and other international RD&I programmes	39	4%
SO 1.2	Action 1.1.4: Attracting high-skilled personnel from abroad to foster RD capacities	97	10%
SO 1.3	Action 1.2.1: Stimulating enterprises' demand for innovation through RD&I projects carried out either by the enterprise itself or in partnership with RD institutes and universities, in order to innovate processes and products in economic sectors with growth potential	104	10%
SO 1.3	Action 1.2.2 : Credits, guarantees and risk capital measures for innovative SMEs and research organizations searching for market demands	59	6%
SO 1.4	Action 1.2.3: Knowledge Transfer Partnerships	179	20%

Actions for RD&I (I)

Develop RD&I Capacities – Infrastructures

- A1.1.1 Large RD Infrastructures
 - -(F) Creating new RD investment in public RD institutions Budget /project duration : RON 4.5 – 90 mil. 24/36 months
 - (A) Investment for RD departments in enterprises

Budget /project duration : RON 4.5 – 90 mil. 24/36 mo

- (B) Innovative clusters

Launching:2015 (ended) RON 365 mil.(F) RON 131 mil.(A) RON 156 mil.(B)

Launching: 2016 RON 333 mil.(F) RON 175 mil.(A) RON 86 mil.(B)

Budget /project duration : RON 4.5 – 20/30 mil. 60months

- (ELI) Fostering the building of research pan-European infrastructures (ELI-NP stage II and DANUBIUS Centre)

ELI-NP: €175 mil. ; DANUBIUS: € 47 mil.

A1.1.2 Developing networks of RD centres which are nationally coordinated and linked to international related, as well as ensuring researchers' access to scientific publishing and international databases

- GRID and RoEduNet

Launching: 2016 Budget: RON 80.60 mil.

- Facility access to scientific publishing (ANELIS)

Launching : 2016 Budget: RON 188 **mil.**

Actions for RD&I (II)

Develop RD&I Capacities- synergies

•A1.1.3 Creating synergies with RD&I actions of Horizon 2020 and other international RD&I programmes

Type of Project	Nature of Project	OPC Procedure	Beneficiaries	
COMPLEMENT (JTI)	Research- Innovation	eligibility	Research Organization /Enterprise	
RO-EIT	Research- Innovation	evaluation	Research Organization /Enterprise	
RO-ESFRI-ERIC	Research- Innovation	evaluation	Research Organization /Enterprise	
FINALIST-IMM	Research- Innovation	eligibility	SME	
CENTRE-SUPORT	Support	evaluation	Research Organization	
CATEDRE-ERA	Investment	evaluation	Research Organization	
TEAMING	Investment	evaluation	Research Organization	

NP III Complementarities OP	Priority Axis 1 of OP Competitiveness		
supports the national research	aims to develop the research capacities mainly		
policy	through investments in the research infrastructure		
aims to develop the research	and less thorough personnel funding.		
capacities primarily focusing on	structural funds will support the building and		
human resources,	equipment costs for the major projects ELI-NP and		
 inter-institutional and international collaborations, frontier research and programmes in strategic areas the research activities to be performed for the major projects ELI-NP and Danubius, 	Danubius, (supported the preparatory phase of these projects so these are good examples of synergies across three types of funds for research). support research and innovation in enterprises through a gradual project portfolio: from spin-off and start-ups, young innovative enterprises, research infrastructures to technological innovative projects and financial instruments		
ERA-NETs, joint programming,	finalists and support projects for a more successful		
national funds	0		

Actions for RD&I (III)

Develop RD&I Capacities- people

A1.1.4 Attracting high-skilled personnel from abroad to foster RD capacities

Budget /project duration : RON 9 mil. 48 months

- Consolidating instrument O2.1.2 from 2007-2013

Launching: 2015 (ended) Budget: RON 438.35 mil. (Section E)

Actions for RD&I (IV)

Strengthen research and innovation capacity in enterprises

A1.2.1 Stimulating enterprises' demand for innovation through RD&I projects carried out either by the enterprise itself or in partnership with RD institutes and universities, in order to innovate processes and products in economic sectors with growth potential

- Innovative technological projects Budget /project duration : RON max.9 mil. 36 months

> Launching: 2015 - Budget: RON 80 mil. (C)ongoing - Budget: RON 107 mil. (D) ended

- Innovative spin-offs and start-ups

Budget /project duration : RON 840,000 24 months

- Innovative newly created enterprises

Budget /project duration : RON 4.5 / 6.75 mil. 24 months

Actions for RD&I (V)

Financial instruments for innovative enterprises

A1.2.2 Credits, guarantees and risk capital measures for innovative SMEs and research organizations searching for market demands

Accelerator and seed stage for innovative ideas
 Portfolio Risk Sharing Loan for innovative SMEs and research organizations answering market demands

Launching: 2016 Budget: RON 269 mil.

Actions for RD&I (VI)

Creating a research and innovation offer on business needs A1.2.3 Knowledge Transfer Partnerships

Fostering interactions between universities / RD institutes and business environment and enhancing the potential of developed or modernized RD infrastructures in Romania starting with 2007 in order to serve the enterprises' innovation needs.

Research organizations' offer shall include 4 categories of R&I activities:

- consultancy and expertise for knowledge transfer
- access to RD&I facilities
- transfer of research skills by providing RD&I services
- collaborative partnerships

Budget /project duration : RON 4.5-13.5mil. 60 months

Research organizations' role is the one of intermediate organizations. The indirect beneficiaries of this action are the enterprises which apply for the offer of the research organizations.

(Section G) Launching: 2015 ended Launching: 2016 Budget: RON 564 mil. Budget: RON 329.75 mil. **OP Competitiveness - first steps 2014-2016**

- First 7 calls launched in 2015
- 60% of the allocated funds already awarded to beneficiaries (contracts to be signed in 2016)
- The remaining actions/funds will be opened in 2016 (4 calls)
 - Technological innovative projects
 - Synergies H2020 (7 types of projects)
 - ANELIS 2
 - GRID projects and RoEduNet
- 3 actions run in 2015 to be launched again in 2016
- Second phase of ELI-NP approved (175 million EUR)
- Danubius and the Financial instruments in 2017

Priority Axis 1 – RD&I Strategic Approach

Thematic Objective 1: consolidation of research, technical development and innovation

Investment Priorities	Specific Objectives	Actions	Indicators	Target (2023)
IP1a: Improving research and innovation infrastructures and capacities of excellence	1.1. Increase scientific capacity as an engine of innovation	A1.1.1 A1.1.2	Scientific public- private co- publishing	18 per mil. inhabitants (8.3 per mil. inhabitants in 2011)
	1.2. Increase the involvement in research at EU level	A1.1.3 A1.1.4	H2020 contribution attracted	Double of contribution attracted in FP7
IP1b: Promoting investment in research and innovation, developing links and synergies between	1.3. Increase private investment in RD&I	A1.2.1 A1.2.2	Private RD&I expenditure as percentage of BERD	80% of BERD (66% of BERD in 2012)
enterprises, RD centres and high-education institutions	1.4. Increase transfer of knowledge, technology and personnel with RD&I skills between research public and private sector	A1.2.3	Innovative SMEs cooperating with others	6,6% of SMEs (2.9% of SMEs in 2011)

In conformity with EU Regulation no. 1303/2013 and Decision of adopting OPC

Given these inputs we could hope by 2020 to:

- Consolidate the R&D system (establish structural certainties at institutional and individual level)
- Attract and retain more talent in Romanian research
- Increase innovation uptake and R&D jobs in enterprises
- Increase success rate of Romania at H2020 competitions

Thank you for your attention!