

# Review on the participation of Romanian organisations in EU funding schemes with regard to regional development policies

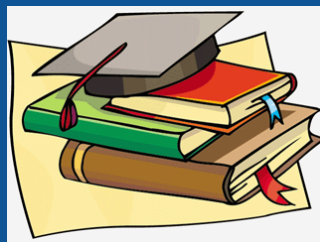


**Viorel VULTURESCU**

Directorate International Relations

**National Authority for Scientific Research and  
Innovation**

# CONTENT



**FP7**  
**Regions of Knowledge**  
RO participation

**H2020**  
**WIDENING**  
RO participation

**Success stories**







## FP7 Research Work Programme **Regions of Knowledge**

### **RE-POT**

**PRO-WOOD** Promoting and linking Wood Industry and Research in Romanian Regions using good practice from acknowledged wood clusters in the EU

2008/05/01-2010/04/30

Designed to support an emerging wood cluster in the County of Brasov-Covasna in Romania. This partnership comprises the needed stakeholders on the Romanian side and the knowledge about cluster policy tools, wood research and business on the other side.

RO partners: Consult Inno Consult SRL, Asociatia antreprinzatorilor Mici si Mijlocii Covasna – ASIMCOV, Universitatea Transilvania din Brasov, Covasna Consiliul Judetean

**CLUSTHERM** Creating a Central European Thermal Water Research Cluster

2008/05/01–2010/04/30

Aiming to set up a new research driven cluster in Central Europe on thermal water utilization that will develop the capacity and research potential of Central Eastern Europe's rural economies rich in thermal water to access and benefit from research on the exploitation.

RO partners: Universitatea Din Oradea, Agentia de Dezvoltare Regionala nord Vest, Transgex SRL



## RE-POT (II)

**RENERG EUREG Renewable Energy Resources** - a solution for a sustainable development of two European Regions

2008/01/01–2010/12/31

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The main objective of this project is to enhance the capacity of CENTRU and Lusatia regions and of its stakeholders in planning and using the local and regional renewable. The applicant Consortium is an association of two research clusters from Brandenburg-Germany and CENTRU region of Romania, representing local and regional authorities, research institutes and companies with activities in the field of renewable energies.

RO partners: Agentia pentru Dezvoltare Regionala Centru (Coordinator), Univ. Transilvania din Brasov, Centrul De Tehnologii, Inventica si Business, Camera De Comert, Industrie si Agricultura Sibiu, Consiliul Judetean Alba. Sc Finex Srl

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**WESTEER Support Actions for the Emergence of a Research Driven Automotive Cluster in West Romania**

2008/03/01- 2010/02/28

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The main objective of this project is to put in place a set of tailor-made support activities and to create an appropriate institutional framework which will help catalyze the emergence of a research-driven automotive cluster in West Region Romania.

Consortium (entire RO): Regional Development Agency of The West Region Romania, Universitatea Politehnica din Timisoara, Interpart Production, Asociatia TEHIMPULS



## RE-POT (III)

### **REDICT Regional Economic Development by ICT/New media clusters**

2008/01/01–2009/12/31

The objective of the project is to map, analyse and exchange all critical issues in the field of ICT/New Media cluster-development in the regions involved, in order to compose the best strategy and related practical Action Plans to strengthen the economic competitiveness, with a clear focus on role and potential of SMEs.

RO partners: Centrul National de Management Programe, Universitatea Politehnica din Bucuresti, Beia Consult International SRL

### **TOUREG Competitiveness and knowledge in the tourist sector.**

2008/01/01-2010/12/31

The strategic objective of this proposal is to establish a platform for developing a competitive tourist industry based on the generation and application of knowledge revolving around a new international research-driven cluster in the tourist industry

RO partner: Intelligent Technology Fund Applied Research SRL

### **AMI-4EUROPE Advanced, Cross-Disciplinary & Integrated Medical Imaging for all Europeans through a Network of Regional Clusters and Development Strategies**

2010/10/01-2013/10/31

The challenge is to build expertise in the development of integrated systems that address unmet clinical needs while providing a solid and consistent network of R&D + Innovation groups

RO partners: Agentia pentru Dezvoltare Regionala Nord-Est, Universitatea de Medicina si Farmacie Gr.T.Popa Iasi, Spitalul Clinic Judetean de Urgenta "Sf. Spiridon" Iasi, Romsoft SRL



## RE-POT (IV)

EDIGIREGION: Realising The Digital Agenda Through Transnational Cooperation Between Regions  
2014/04/01–2017/03/31

Enhancing regions' sustainable competitiveness by exploiting their strengths and smart specialisations to realise the Digital Agenda within a regional domain. This will be achieved by increasing the interoperability between the triple helix of regional actors (government, research centres and universities, and industry).

RO partners: Unitatea Executiva pentru Finantarea Invatamantului Superior, a Cercetarii, Dezvoltarii si Inovarii, Universitatea Politehnica din Bucuresti, Asociatia Romana Pentru Industria Electronica si Software, Agentia pentru Dezvoltare Regionala Bucuresti -Ilfov

DOROTHY- Development of Regional clusTers for research and implementation of environmental friendly urban logistics  
2013/07/01- 2016/06/30

Targeteing to develop the potential of innovation and research in the four Regions Tuscany (Italy),Valencia (Spain),Lisbon and Tagus (Portugal) and Oltenia (Romania) composing the Consortium in the field of Urban Logistics, one of the main focus of attention of the Flagship Initiative.

RO partners: Agentia Pentru Dezvoltare Regionala Sud-Vest Oltenia,Consiliul Local Al Municipiului Craiova, Universitatea din Craiova, Sc Ipa Sa, Asociatia Romana Pentru Transfer Tehnologic

TRANS REG NCP Coordination action to improve trans-national co-operation of NCPs REGIONAL  
2008/01/01–2012/12/31

Aiming to create trans-national network of National Contact Points (NCP) for the FP7.

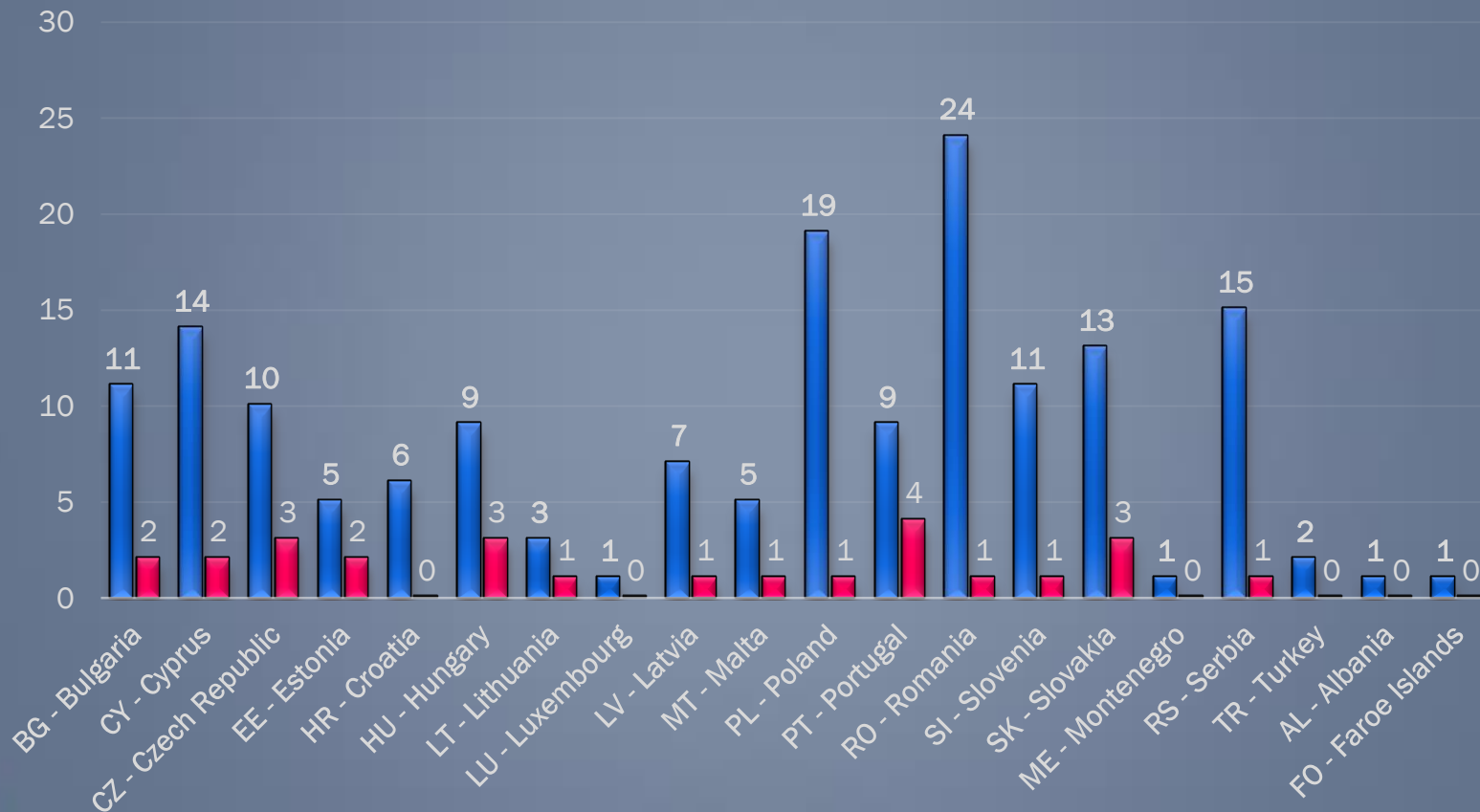
RO partner: Autoritatea Nationala pentru Cercetare Stiintifica





## Overview of the main results/Lessons learned 2014/2015

### H2020-WIDESPREAD-2014-1-Teaming Call



Source:E-CORDA extraction date: 2015/07/15

167 evaluated/106 above threshold/26 funded proposals



## CENTRIC-Centre of Excellence in Territorial Management and Cadastre

### WIDESPREAD-2014-1 TEAMING

The main purpose of CENTRIC is to create a Centre of Excellence in scientific domains such as 3D/4D geospatial data, linked geospatial data, land classification, remotely sensed data etc.

**Coordinator:** Agenția Națională de Cadastru și Publicitate Imobiliară

#### **Partners:**

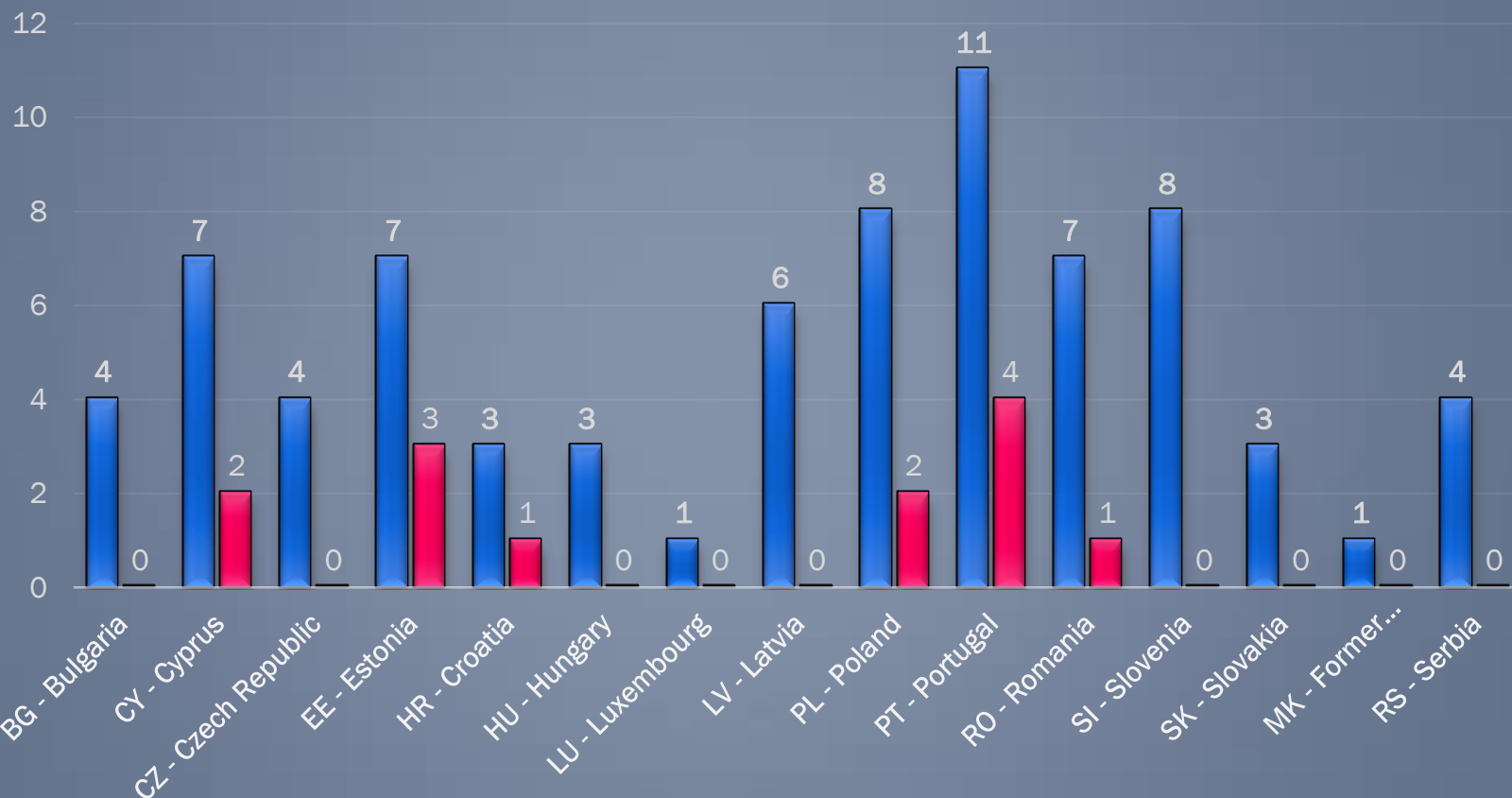
- + Provincia Autonoma Di Trento (Pat)- IT
- + Institutul National De Cercetare-dezvoltare In Constructii, Urbanism si Dezvoltare Teritoriala Durabila Urban-incerc (Urban-incerc) – RO
- + Fondazione Bruno Kessler (Fbk) – IT
- + Trilogis Srl (Trilogis) – IT
- + Ini-novation Gmbh (Ini-novation) – DE
- + Techoport Sa (Technoport) – LU
- + Katholieke Universiteit Leuven (Ku Leuven) - BE





## Overview of the main results/Lessons learned 2014/2015

H2020-WIDESPREAD-2014-2 ERA Chairs Call



77 evaluated/42 above threshold/13 funded proposals

Source:E-CORDA extraction date: 2015/07/15



## **SUPRACHEM -Lab-laboratory of Supramolecular Chemistry for Adaptive Delivery Systems**

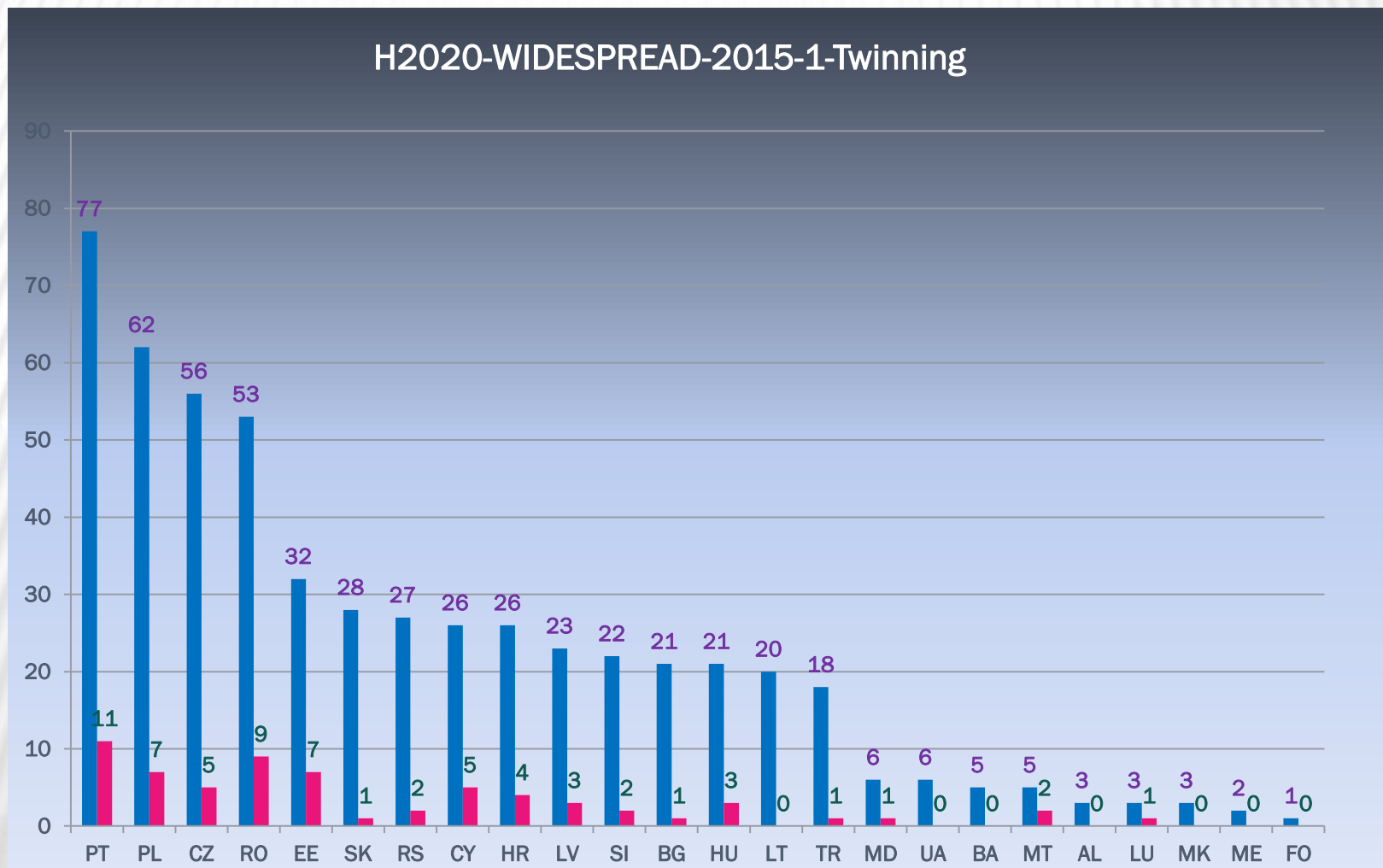
**Horizon 2020 WIDESPREAD 2-2014: ERA Chairs**

The strategic objective of the SupraChem Lab Project is to unlock and foster excellent research in PPIMC IntelCentre by setting up a strong research group in the field of hybrid materials for adaptive self-organized supramolecular structures.

Coordinator: “Petru Poni” Institute of Macromolecular Chemistry (PPIMC)



## Overview of the main results/Lessons learned 2014/2015



546 evaluated/321 above threshold/65 funded proposals

Source: EC





## H2020-WIDESPREAD-2015-1-Twinning (I)

**SUPERMAT** The Virtual Centre for Integration of Innovative synthesis and Processing methods for Sustainable advanced Materials operating under Extreme Conditions

2016-01-01-2018-12-31

Institutul National de Cercetare - Dezvoltare Pentru metale Neferoase si Rare - IMNR

The main objective of the proposal is to create a virtual centre to boost IMNR position in Bucharest-Ilfov region by increasing the knowledge and technology degree of innovation potential. The concept of the virtual centre SUPERMAT stands on improving scientific capacity of IMNR in **novel nano/micro structured materials under extreme conditions**.

**DATA4WATER** Excellence in Smart Data and Services for Supporting Water Management

2016-01-01-2018-12-31

Universitatea Politehnica Bucuresti

Enhancing the S&T abilities in the field of smart, data driven e-services in water management, with focus on the widening organization. The scientific strategy will be oriented towards inter/trans-disciplinary and practical applicability, **valorization and impact in water management**, which also fits to the Smart Specialization Strategy.

**ESPESA** Strengthening the Research potential of CAREESD in the field of Electromechanical Systems and Power Electronics for Sustainable Applications

2015-12-01-2018-11-30

Universitatea Tehnica Cluj- napoca

The mission of ESPESA project is to strengthen the research activity and to implement a **Transfer&Innovation Management strategy** at (CAREESD),



## H2020-WIDESPREAD-2015-1-Twinning (II)

### AMaTUC Boosting the scientific excellence and innovation capacity in additive manufacturing of the Technical University of Cluj-Napoca

2016-01-01-2018-12-31

Universitatea Tehnica Cluj-Napoca

The overall aim of the AMaTUC project is to boost the scientific excellence and innovation capacity in **additive manufacturing** of the Technical University of Cluj-Napoca (TUCN) and its high-quality Twinning partners for the benefit of the automotive industry and personalised products markets.

### ENHANCE Building an Excellency Network for Heightening Agricultural ecoNomic researCh and Education in Romania

2016-01-01-2018-12-31

University of Agronomic Sciences and Veterinary Medicine Bucharest (USAMV)

The aim is to develop the currently existing scientific potential of the **agricultural economists** of the USAMV, particularly with respect to quantitative methods like modelling, simulation, econometrics as well as mixed methods research like institutional economics.

### LASIG-TWIN Laser Ignition - A Twinning Collaboration for Frontier Research in Eco-Friendly Fuel-Saving Combustion

2016-01-01-2018-12-31

National Institute for Laser, Plasma and Radiation Physics, Magurele

The objective of LASIG-Twin is to create a networking collaboration between the INFLPR and Laboratory of Solid-State Quantum Electronics (ECS) and four other high renowned institutes to significantly increase their science excellence and visibility, technology innovation capacity and industrial exploitation capability in the fields of **laser spark plug for fossil fuel efficient combustion fundamentals and applications**.



## H2020-WIDESPREAD-2015-1-Twinning (III)

### ECARS East European Centre for Atmospheric Remote Sensing

2016-01-01–2018-12-31

National Institute Of Research and Development For Optoelectronics

The activity will consolidate INOE's links with four highly esteemed research institutions, each one having high-level expertise in specific areas: **MPI-M (ground-based remote sensing)**, **DLR (airborne remote sensing)**, **NOA (satellite remote sensing)** and **CNR-IMAA (data exploitation)**. Specific areas of atmospheric remote sensing where the expertise of INOE will be strengthen, increasing its innovation capacity and research profile.

### EBSIS EBSIS - Event Based Systems in Iași

2016-01-01–2018-12-31

Universitatea Alexandru Ioan Cuza

The main objective is to strengthen the research output at the Faculty of Computer Science at UAIC and close research ties with the performing organizations. The targeted field of research is **event-based systems**, an important and timely topic under the Big Data umbrella.

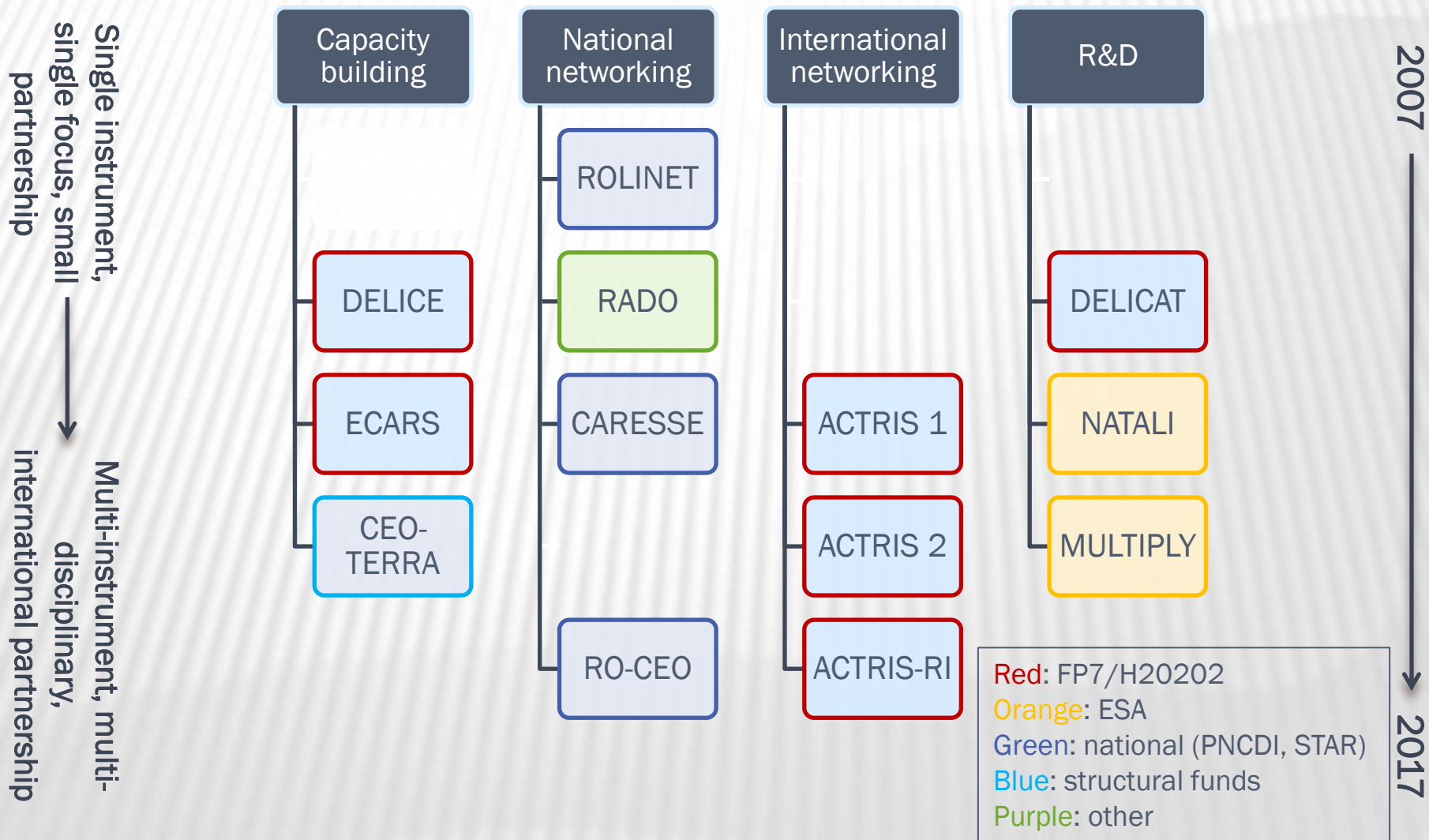
### eHERITAGE Expanding the Research and Innovation Capacity in Cultural Heritage Virtual Reality 2015-11-01–2018-10-31

Universitatea Transilvania Brasov

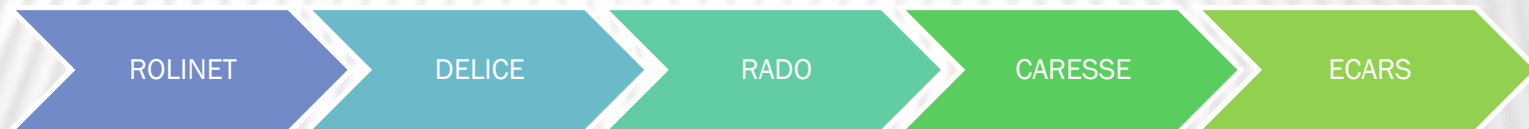
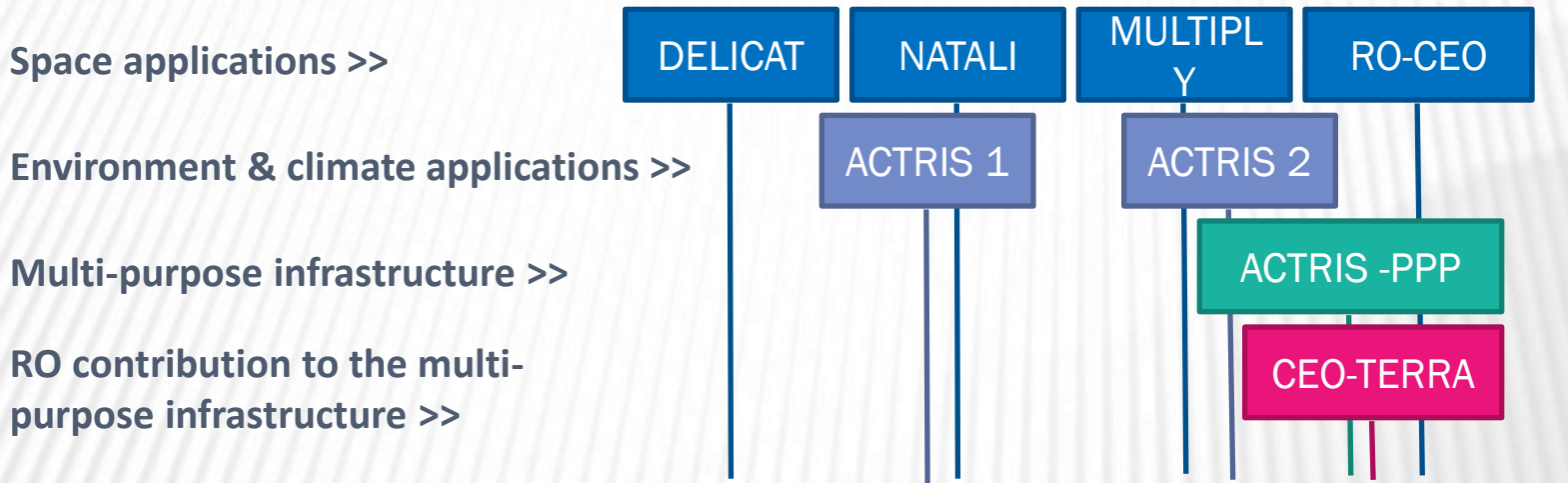
Enhancing the development of a center of excellence in virtual heritage. The Virtual Reality and Robotics Department (VRRD) of the UTBv has an affinity for designing and **developing applications of virtual reality for cultural heritage**. The partners of eHERITAGE are internationally leading entities.



# INOE - SUCCESS STORY



# STEADY GROWTH AND BREAKS-THROUGH (II)



- PNCDI national programme
- set-up of the Romanian Lidar NETWORK
- 5 lidars at 5 stations: Magurele, Iasi, Cluj, Timisoara, Baneasa

- FP7 EC programme
- increasing capacity at INOE
- new instruments
- transfer of expertise from EU partners

- Norway Grants
- set-up of the Romanian Atmospheric 3D research Observatory
- same 5 stations
- upgrade of the lidars, new (complementary) instruments, campaigns
- science center

- ROSA-STAR national programme
- continue collaboration with national partners, build new links
- develop new applications
- space (Cal/Val of satellite instruments)

- H2020 EC programme
- increasing efficiency, impact & visibility of INOE
- joint research, joint publications with EU partners





## R&D MILESTONES (III)

### International, EC

- ✖ ACTRIS 1
  - + FP7 EC programme
  - + Set-up of a “network of networks”
    - ✖ EARLINET = aerosol profiling
    - ✖ AERONET-EU = aerosol column
    - ✖ EUSAAR = aerosol and trace gases, near surface
    - ✖ CLOUDNET = cloud profiling
  - + INOE: networking & TNA at Magurele site
- ✖ ACTRIS 2
  - + H2020 EC programme
  - + Foundation of the ACTRIS research infrastructure
    - ✖ Calibration centres
    - ✖ Joint research activities
  - + INOE: networking & TNA at Lidar Calibration Centre

### International, ESA

- ✖ NATALI
  - + ESA/ESRIN programme
  - + Development of a software for aerosol typing, based on Artificial Neural Networks
  - + INOE: single partner
- ✖ MULTIPLY
  - + ESA/ESTEC programme
  - + Build-up of the ESA's airborne multiwavelength, multi-depolarization High Spectral Resolution Lidar
  - + INOE: coordination + software + contribution to developments + testing



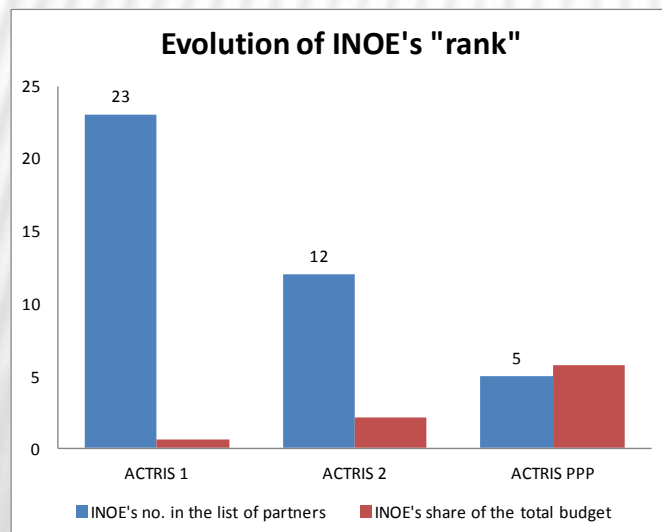
# PREPARING FOR THE FUTURE (IV)

## ✕ ACTRIS-RI + ACTRIS-PPP

- + ESFRI + H2020 programme
- + Set-up of the ACTRIS-RI
- + INOE: coordination of the Central Facilities WP + participation in all
- + ACTRIS-RO: 3 observation sites (Magurele, Iasi, Cluj)+ 1 exploratory platform (ATMOSLAB at INCAS) + Lidar Calibration Centre

## ✕ CEO-TERRA

- + ERDF research programme (large infrastructures for RDI): 12.7 mil. EUR investments
- + upgrade of 6 laboratories (environment)
- + set up of 3 new labs
  - ✕ the Lidar Calibration Centre (LiCal)
  - ✕ Magurele Atmospheric Remote Sensing (MARS) super-site
  - ✕ MARS Data Centre
- + links and pushes forward all activities
  - ✕ RO contribution to ACTRIS-RI (the Lidar Calibration Centre, ACTRIS super-site)
  - ✕ participation to ESA Cal/Vals (intensive campaigns, long-term observations)





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**THANK YOU!**

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