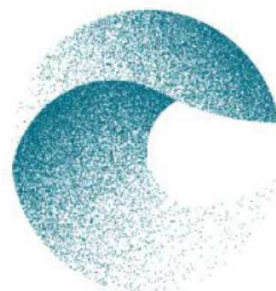




***Towards a sustainable "EU-Black Sea
Cooperation Programme in STI***

Prof. Adrian Curaj



BLACK SEA
HORIZON



Bi-regional STI Dialogue

uefiscdi

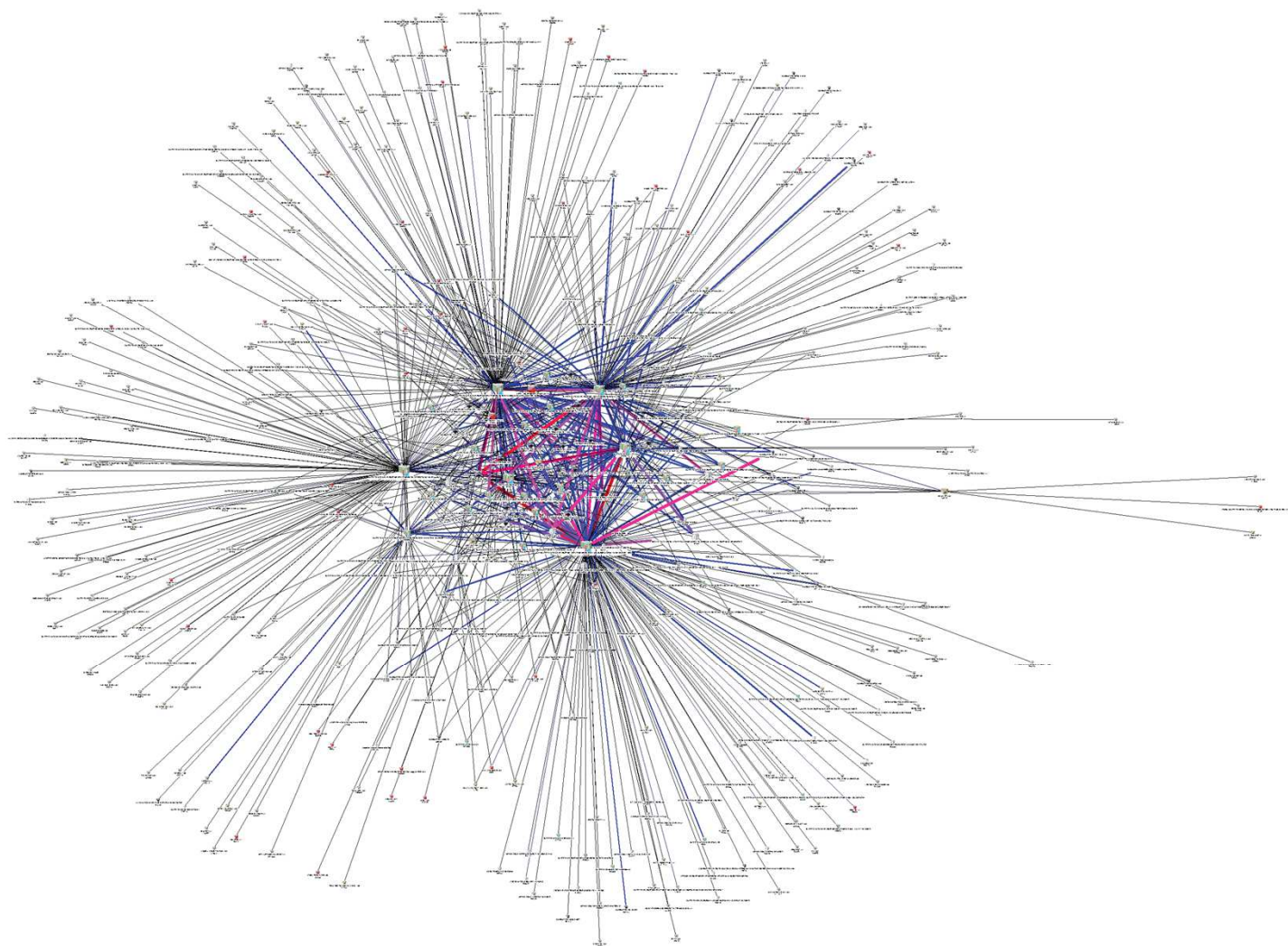
May 8, 2017, Athens



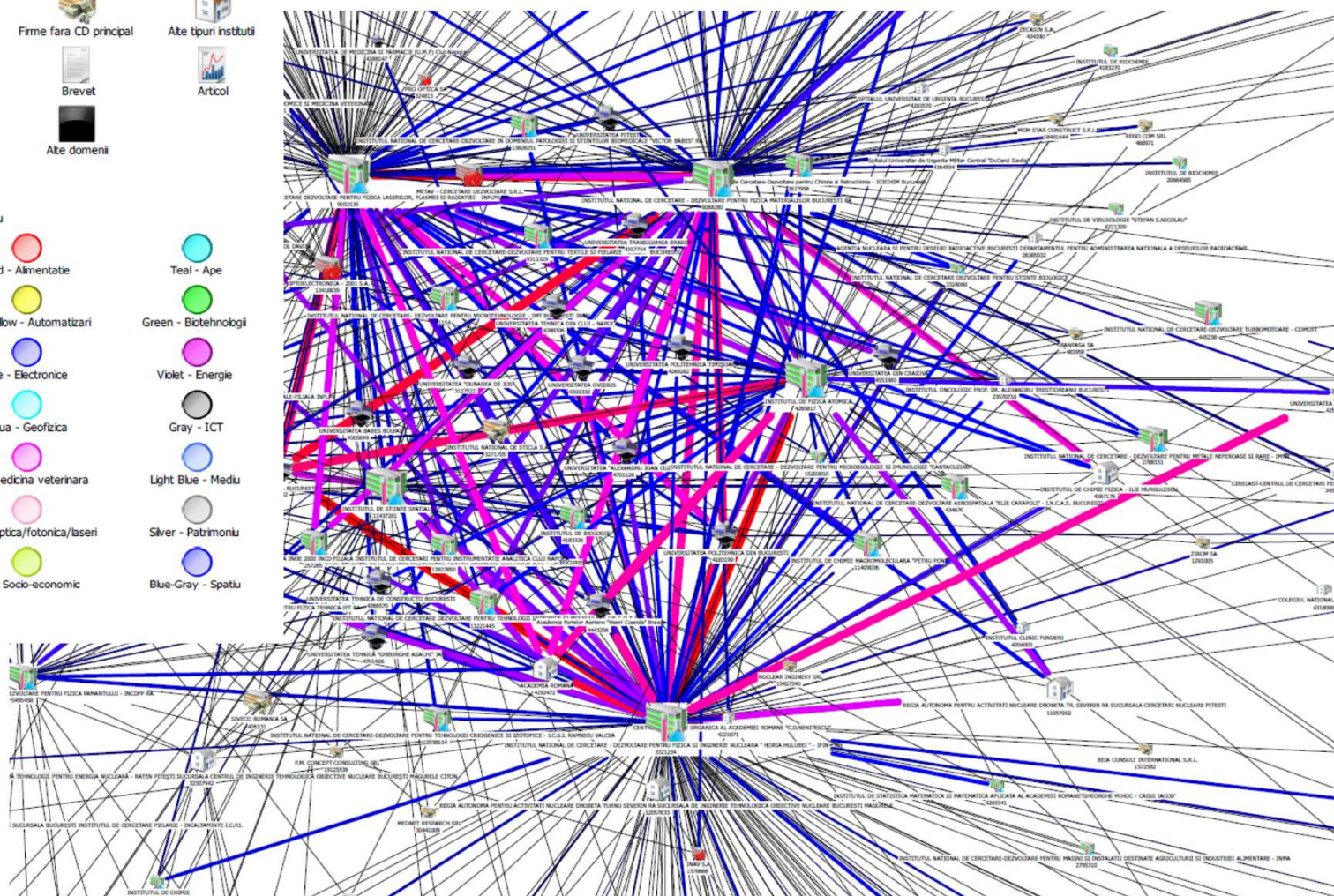
The project BLACK SEA HORIZON has received funding from Horizon 2020, the EU Framework Programme for Research and Innovation, under the Grant Agreement 645785 (H2020-INT-INCO-2014).

Cooperation Pattern

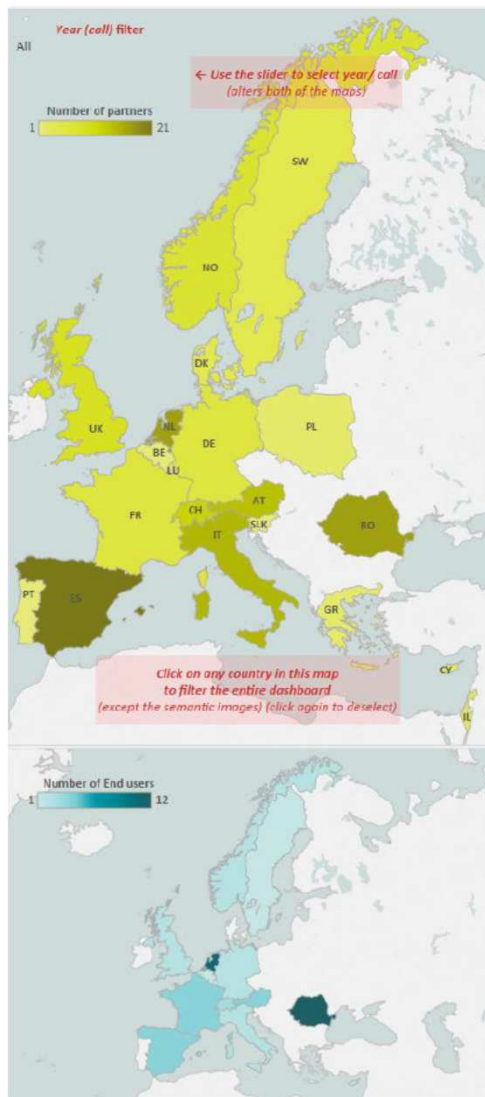
- Do we know areas of bilateral projects, multilateral projects (ERA-NETs / COST), JPs ?
- Are they thematic areas of concentrations?
- How much public-public cooperation, how much public-private cooperation?
- What are the already cooperating groups/institutions?



Legenda



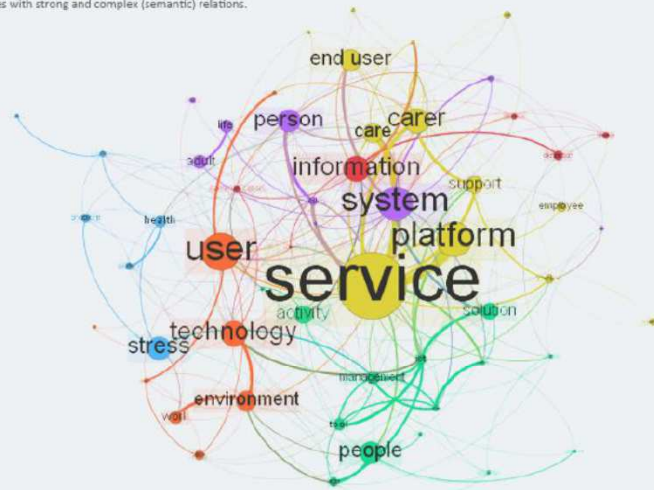
INTERNATIONAL PARTNERSHIPS



PROJECTS AND THEIR SEMANTICS



Below, the visualization shows the semantic network built by analyzing the abstracts (Section 1.1) of the 21 project proposals. The words are "references" defined in Tropes [semantic analysis software] as main themes of the text. The semantic ontology was exported and processed in Gephi [network analysis software]. The colors illustrate six modularity classes, i.e. semantic networks consisting in nodes/ references with strong and complex (semantic) relations.

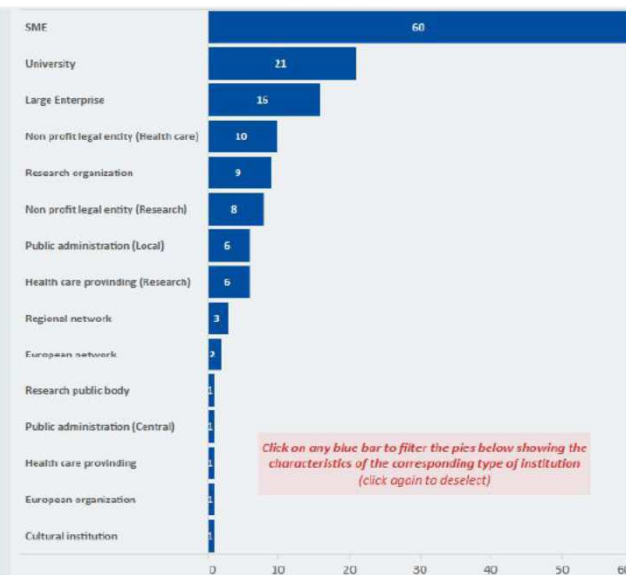


To the right, the visualization shows the six weakly connected components (by six colors) within the semantic network of the texts. Each color counts for 1.75% of the words in the network, while the majority of words/ nodes (89.47%) illustrated with the close-to-background color represent the strongly connected component of the network. (The network has been contracted and rearranged to accommodate tags, but the distribution of sizes and relations is the same as above.)

Interpretation: A weakly connected component (subgraph) contains nodes that have undirected paths to other nodes from the subgraph, i.e. the references of the texts have, in this case, weak semantic connections, i.e. there are references that are not described through another reference, i.e. 'marginal' concepts/ terms vaguely referred to. Since the total weakly connected components count for approximately 10% of the references, the homogeneous overall discourse of the texts/ projects describes concerted approaches.

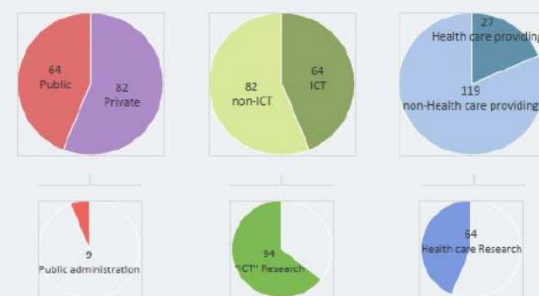


TYPES OF INSTITUTIONS



Below:

- the first row of pies show further types of institutions by their "public/ private" status and by their main sector of activity, relevant to AAL, either "ICT", or (and) "Health care providing".
- the second row of smaller pies show an additional relevant breakdown by "public administration" sector and by "ICT" and/ or "Health care" research activities. The categories are not exclusive across the two rows of pies.



HORIZON 2020

UEFISCDI

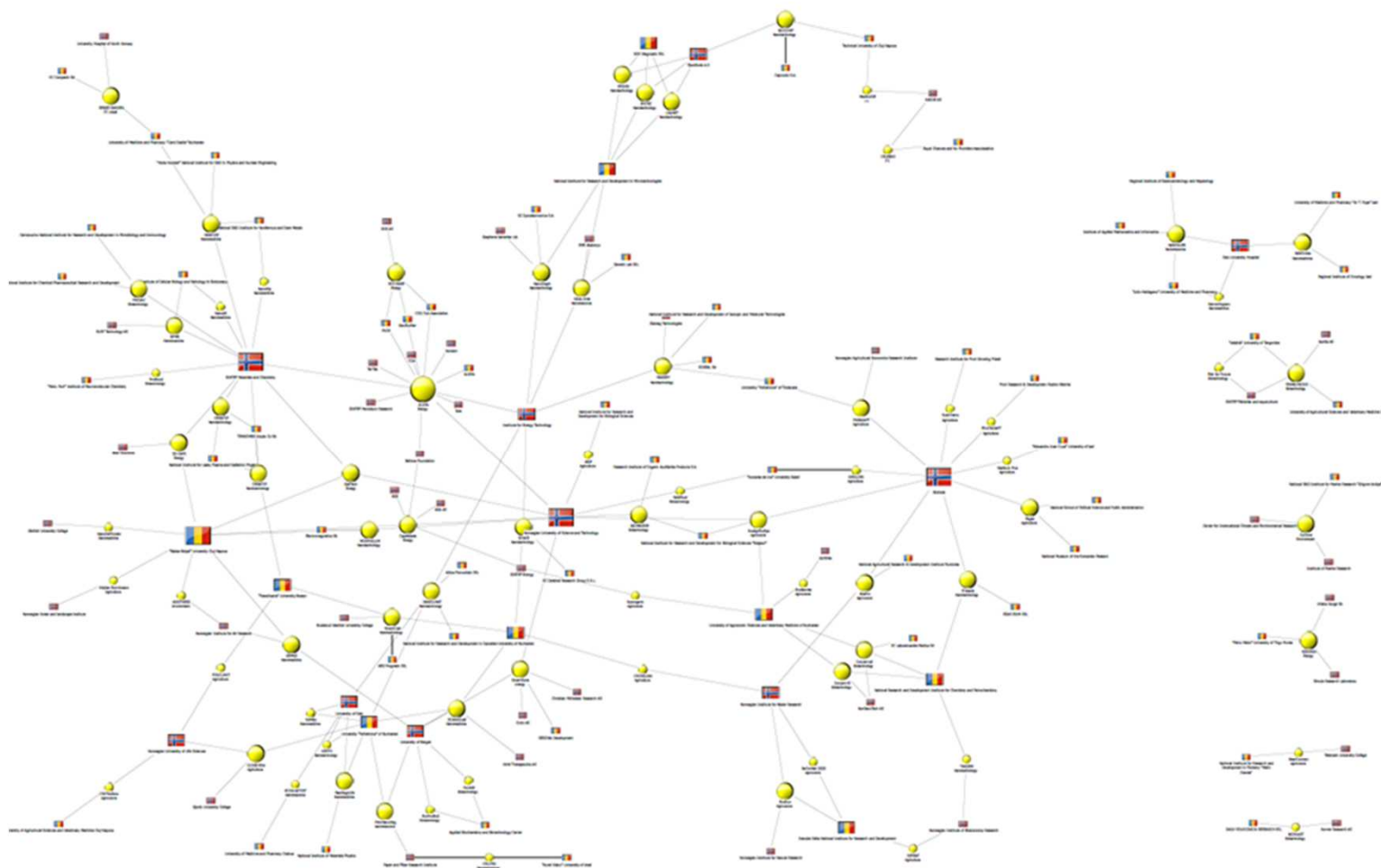
33

ERA-NET
calls



- 2014 → 1st place (EU-13) in ERA-NET COFUND (Horizon 2020)
 - 2015 → 1st place
 - 2013 → 2nd place
 - 2012 → 1st place
- in the list of Romanian entities accessing FP 7 projects (European Research Ranking)

Norway – Romanian partnerships in ERA_NET and AAL



Research Infrastructures

- Do we know what we have nationally, regionally ?
- Do we have information about research infrastructures, equipment, contact point persons and host institutions?
- Can we “walk the talk” and do something immediately?
- Is it any “up and running mechanism” to be used?

ENGAGE in the
ROMANIAN
RESEARCH
INFRASTRUCTURES
SYSTEM

<http://erris.gov.ro>



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ENGAGE IN THE ROMANIAN
RESEARCH INFRASTRUCTURES
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Search using MAP



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Selectați limba



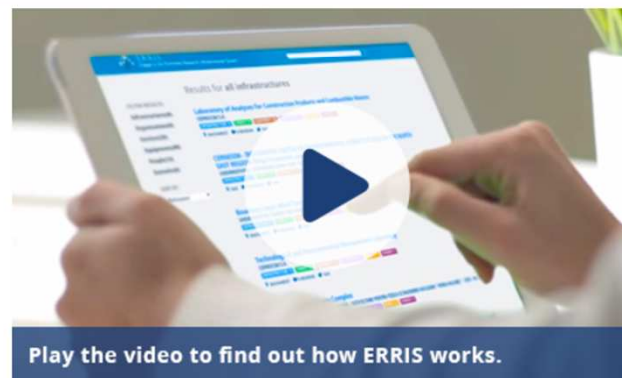
Welcome to ERRIS

Registry of Romanian Research Infrastructures,
the booking gate for **research infrastructures**,
research & technological services.

INFRASTRUCTURES MAP


BROWSE REGISTRY

1.398 Infrastructures with **7.457** Research Services, **52** Technological Services, **19.770** Equipments



Are you a service provider?

Register your organization to promote your infrastructures and the related services.


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ENGAGE IN THE ROMANIAN RESEARCH
INFRASTRUCTURES SYSTEM


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Boundary Layer Wind Tunnel 1 (TASL 1)

TECHNICAL UNIVERSITY OF CIVIL ENGINEERING BUCHAREST


Length: 27 m;
Test section dimensions: 1.75 * 1.75 m;
Maximum speed: 25 m/s;
Variable roughness;
Variable speed fan (200 kW).

Domains of activity
- Civil Engineering Research Infrastructures
- Wind Engineering





Infrastructure direct public Link: <https://erris.gov.ro/Boundary-Layer-Wind-Tunnel-1-TAS>

944 VISITS 0 REVIEW(S) ★★★★★ [Share](#) [Share](#) 1

SCIENTIFIC & TECHNICAL TEAM:




Coordinator:
Prof. Dr. Andrei-Mugur GEORGESCU

CONTACT:

Tel. +40 21 242.12.08
Fax. +40 21 242.07.81

Lacul Tei bvd, 122-124
Zip code: 020396
Bucharest - Bucuresti - Sector 2, ROMANIA



SERVICES:

- Experimental and numerical evaluation of wind induced structural loads
- Estimation of pedestrian comfort in urban areas
- Aeroelastic structures
- Evaluation of snow deposits and snow drift at ground level

EQUIPMENT:

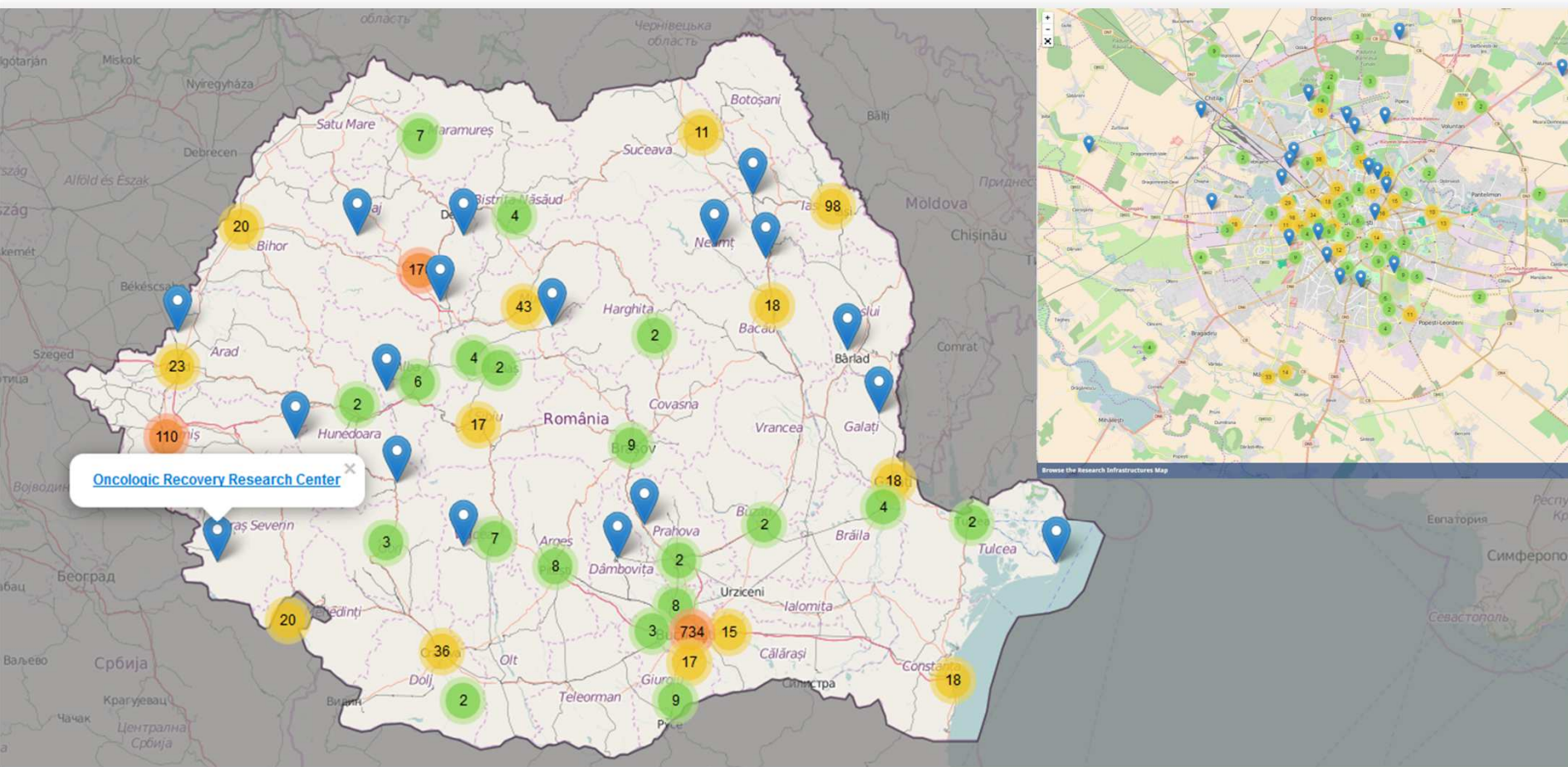
- Variable roughness
- Controlled turbulence
- Large scale
- 3D roughness
- Partial roughness
- Internal roughness
- Large scale

REVIEWS:

★	0%	0
★	0%	0
★★	100%	1
★	0%	0
★	0%	0

Latest Reviews

<http://erris.gov.ro>



- ❖ 1384 research infrastructures;
- ❖ 7406 research services;
- ❖ 49 technological services;
- ❖ 19633 equipments;

<http://erris.gov.ro>

ENGAGE in the
BLACK SEA
RESEARCH
INFRASTRUCTURES
SYSTEM

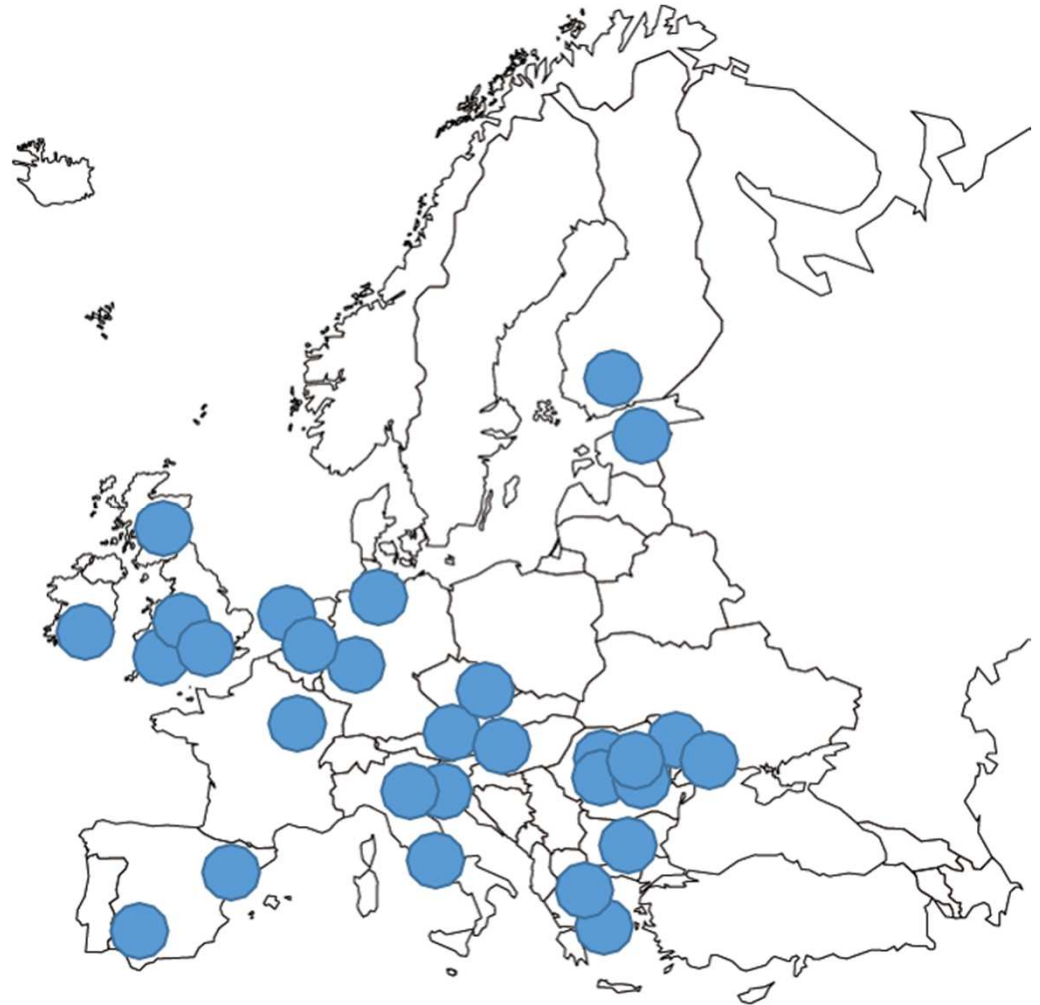
Strategic projects for Romania ESFRI Roadmap

DANUBIUS-PP/2015



Austria(1), Bulgaria(1), Czech Republic(1),
Estonia (1), France (1), Germany (2), **Greece (2)**,
Hungary(1), Ireland (1), Italy (2), **Moldova (1)**,
Netherlands (1), **Romania (4)**, Spain (2),
Ukraine (1), United Kingdom(4)

+international(3):
EMSO-ERIC, ICOS-ERIC, UNESCO-IHE



Strategic projects for Romania



Extreme Light Infrastructure - Nuclear Physics facility (ELI-NP)

Pan European distributed infrastructure



ELI-Beamlines Facility (CZ)



ELI-Attosecond Facility (HU)



ELI-Nuclear Physics Facility (RO)

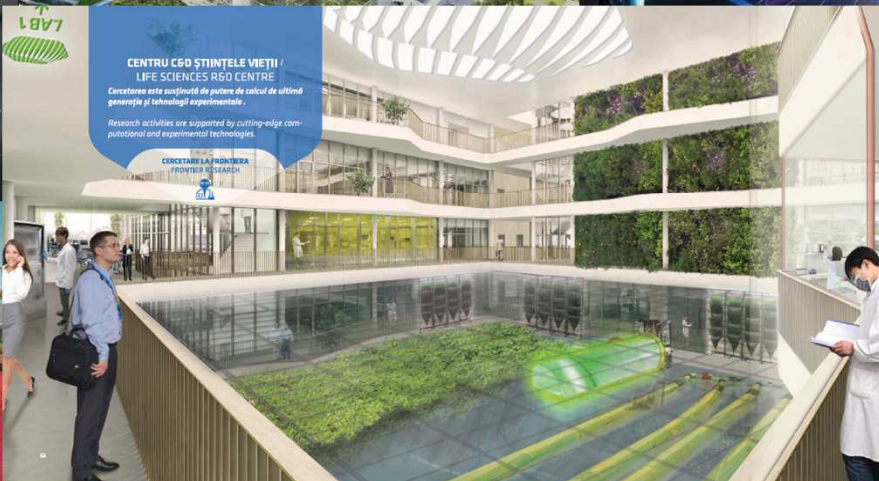
A revolution in laser science

SOURCE: EC

Extreme Light Infrastructure - Nuclear Physics facility (ELI-NP)





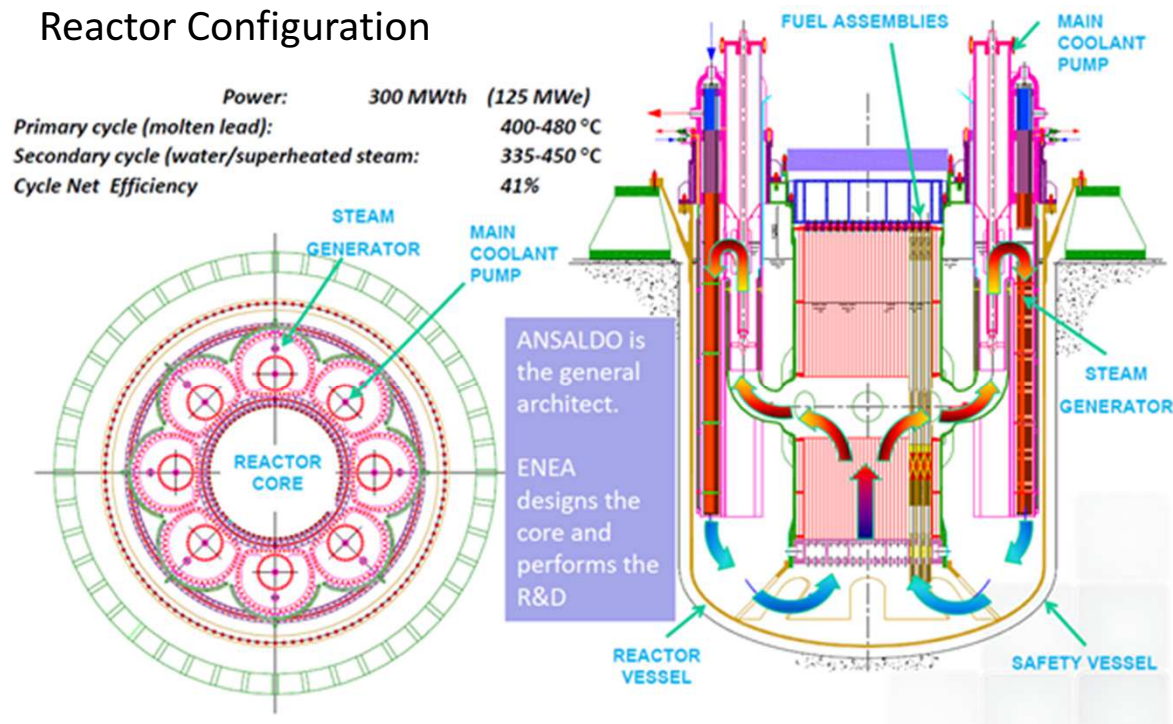




Strategic projects for Romania

ALFRED

Reactor Configuration



Talents

skills and competences

- From the evaluation platform to the understanding of the “arena”!
- Do we know “who is who” nationally, regionally ?
- To make visible the existing expertise;
- Not duplicating the existing social or epistemic platforms!
- We may start from a few hundred, maybe thousand of persons already evaluating or/and implementing projects!



The online community for Research, Innovation and Entrepreneurship.

We connect your expertise to Romania for your voice to matter.

Search for an expert by name...



**Mr. Romeo Florin
SUSAN-RESIGA**

Professor, PhD

Professor
UNIVERSITATEA POLITEHNICA TIMIȘOARA
Romania

mechanical engineering
hydrodynamics
hydraulic machinery and systems
computational fluid dynamics

Copy this link to share the profile via
a public share link.

Institution/lab web page: [🔗](#)

Personal web page: [🔗](#)

Ph.D. degree award: 1996

Experience as research project coordinator: ✓

Experience as project evaluation expert: ✓

Experience as researcher (years): 10



Download CV

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(763.86 kb)
27/05/2016

Projects

Publications

Patents

Entrepreneurship

Domains of expertise

FILE DESCRIPTION

DOCUMENT

List of research grants as project coordinator

Download (55.93 kb) 21/05/2016

List of research grants as partner team leader

Download (48.39 kb) 21/05/2016

Significant R&D projects for enterprises, as project manager

Download (61.73 kb) 21/05/2016

R&D activities in enterprises

Peer-review activity for international programs/projects

Hirsch Index (ISI): 7,00

Citizenship: Romania

5/15/2017

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Ion Andea Pop

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The era of Big Data has begun. Will data analytics help make people's access to information more efficient and effective? Or will it transform how we study the palette of research options and alter what...

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AAL Forum 2014

The Executive Agency for Higher Education Funding (UEFISCDI) is a member of the Association, actively participating in research funding of the Romanian p... Innovation in the field of AAL.

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Ion Adrian Popescu, PhD

National Institute of Research and Development in Biological Science

București

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121 COLLABORATORS

RESEARCH TEACHING CAREER EDUCATION

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SUMMARY

12 ARTICLES 27 Views 21 Downloads 19 Citations 17 CHAPTERS 30 Views 14 Downloads 11 Citations 5 PATENTS 27 Views 7 TECHNOLOGIES 27 Views 21 PROJECTS 27 Coordinated

FEATURED ITEMS

Force Sensing and Control during Movement and Object Manipulation in TRIPS Walking Robots

Appeared in: Nature-Inspired Mobile Robotics: Proceedings of the 16th International Conference on Climbing and Walking Robots and the Support Technologies for Walking Machines

Co-Authors: Ion Ion, Ion Adrian, Aurelian Pop, Iulia Don, Grigore Grigorescu

Request Full Text

Quality and Leadership for Romanian Higher Education

Appeared in: European Foresight Platform, EFP Brief No. 242

Co-Authors: Liviu Andreescu, Adrian Ion, Marius Gheorghiu, Iulia Oanea, Alexandra Dinca, Iulian Zulean

Thus, the project designed a web-based collaborative platform. The Foresight Wiki. The name indicates that the platform uses the wiki technology for developing collaborative websites and Web 2.0 technologies. This allows members of the future studies and foresight communities.

Read Full Text

Force Sensing and Control during Movement and Object Manipulation in MERO Walking Robots

Emitted by: European Patent Office

Co-Authors: Ion Ion, Adrian Curaj, Aurelian Vasile, Iulia Dumitru, Grigore Stamatescu

Read Full Text

Ion Adrian

National Institute of Statistics

Bucharest, Romania

100 Publications | 329 Views | 52 Citations | 231 Downloads

Followed Connections Profile Analytics

Skills & Interests

Topics of Interest

Neuroscience BETA Software

Skills & expertise

Software Design Win Foresight HTML5 Javascript

Following

See All (10)

Followers

See All (10)

VISIONCRITICAL

Founded: 2014 Sold: 2015

Visit Website

Co-entrepreneurs

Antoni Pavlov Jari Rassy Daniel Marcu Daniel Gheorghe Stefanescu

Innovative contributions

Market Research

Samsung

Launched: 2014

Visit Website

Co-entrepreneurs

Antoni Pavlov Jari Rassy Daniel Marcu Daniel Gheorghe Stefanescu

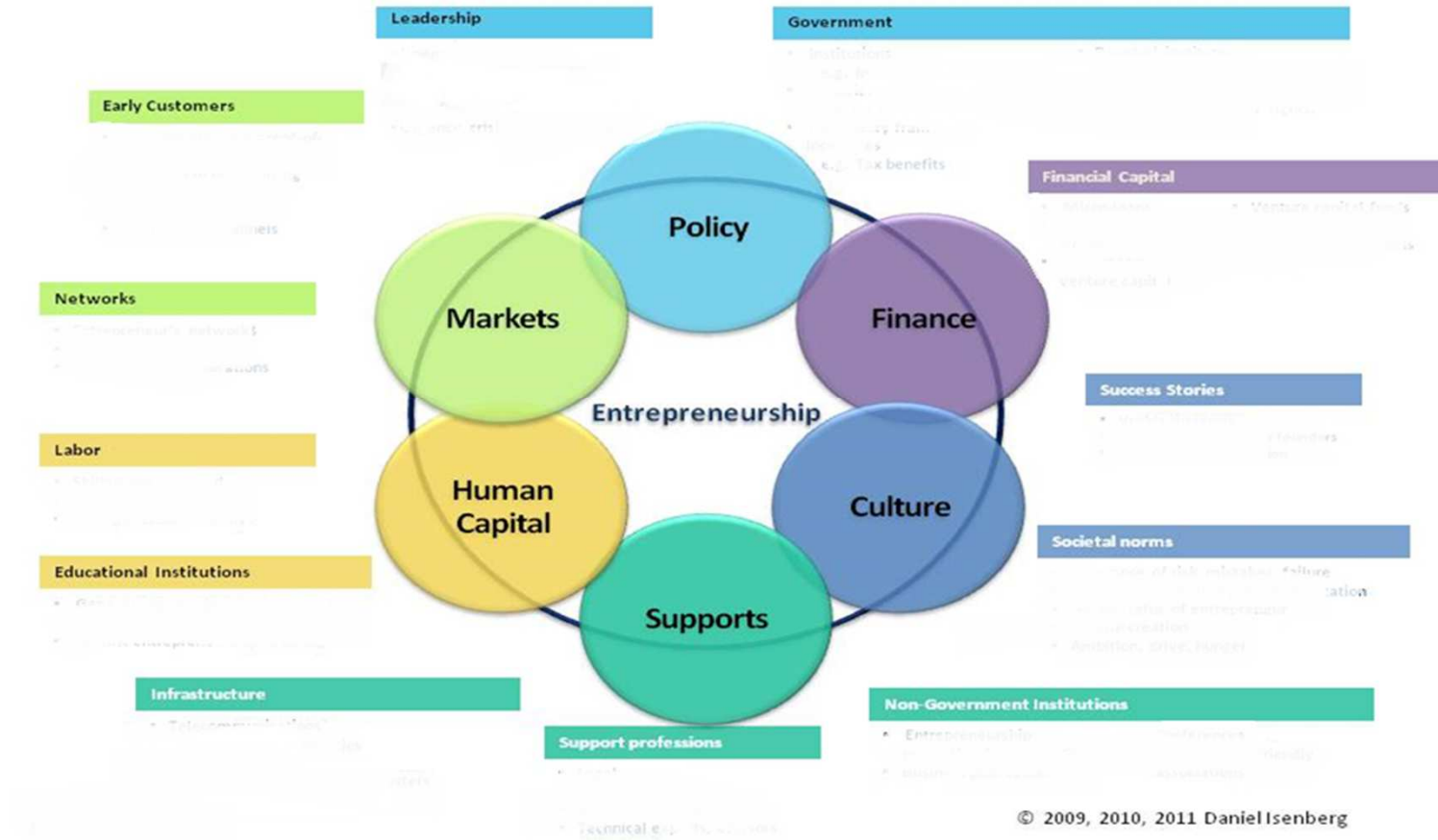
Innovative contributions

Electronics

Entrepreneurial Ecosystem



Domains of the Entrepreneurship Ecosystem



5 dimensions to an ecosystem-made entrepreneur

1. Inspiration



2. Work Experience



3. Consultancy



4. Mentorship



5. Investment

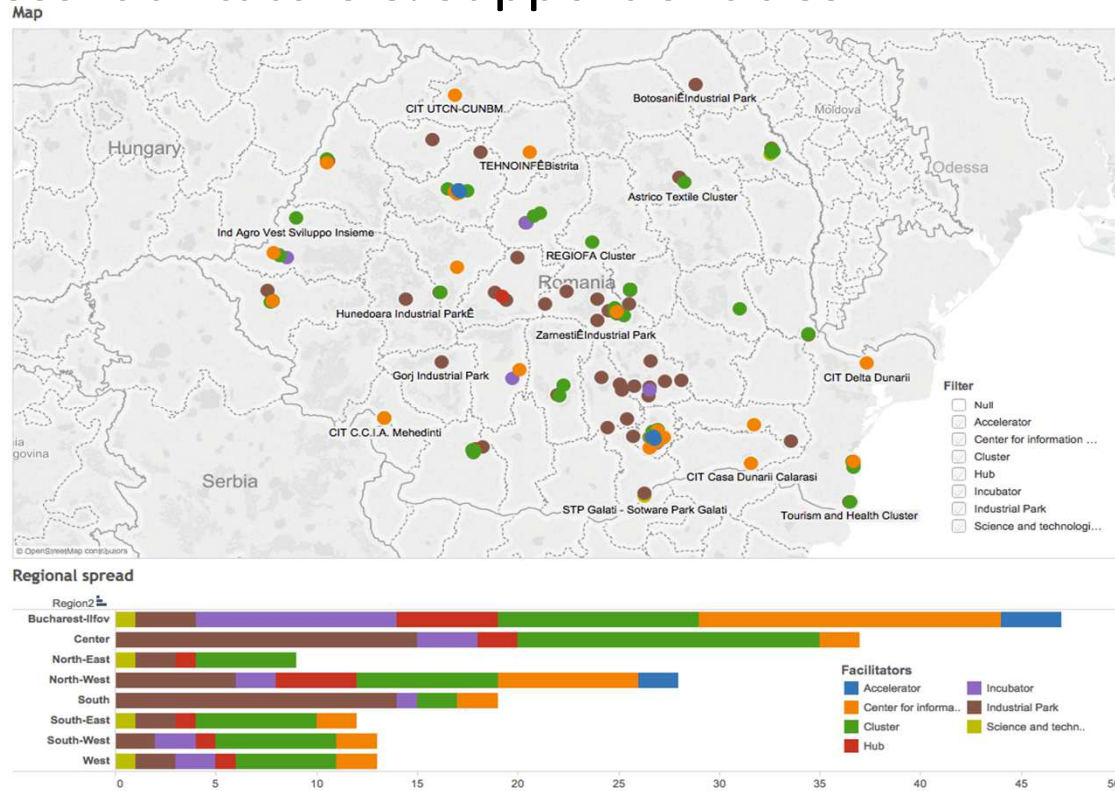


For more information

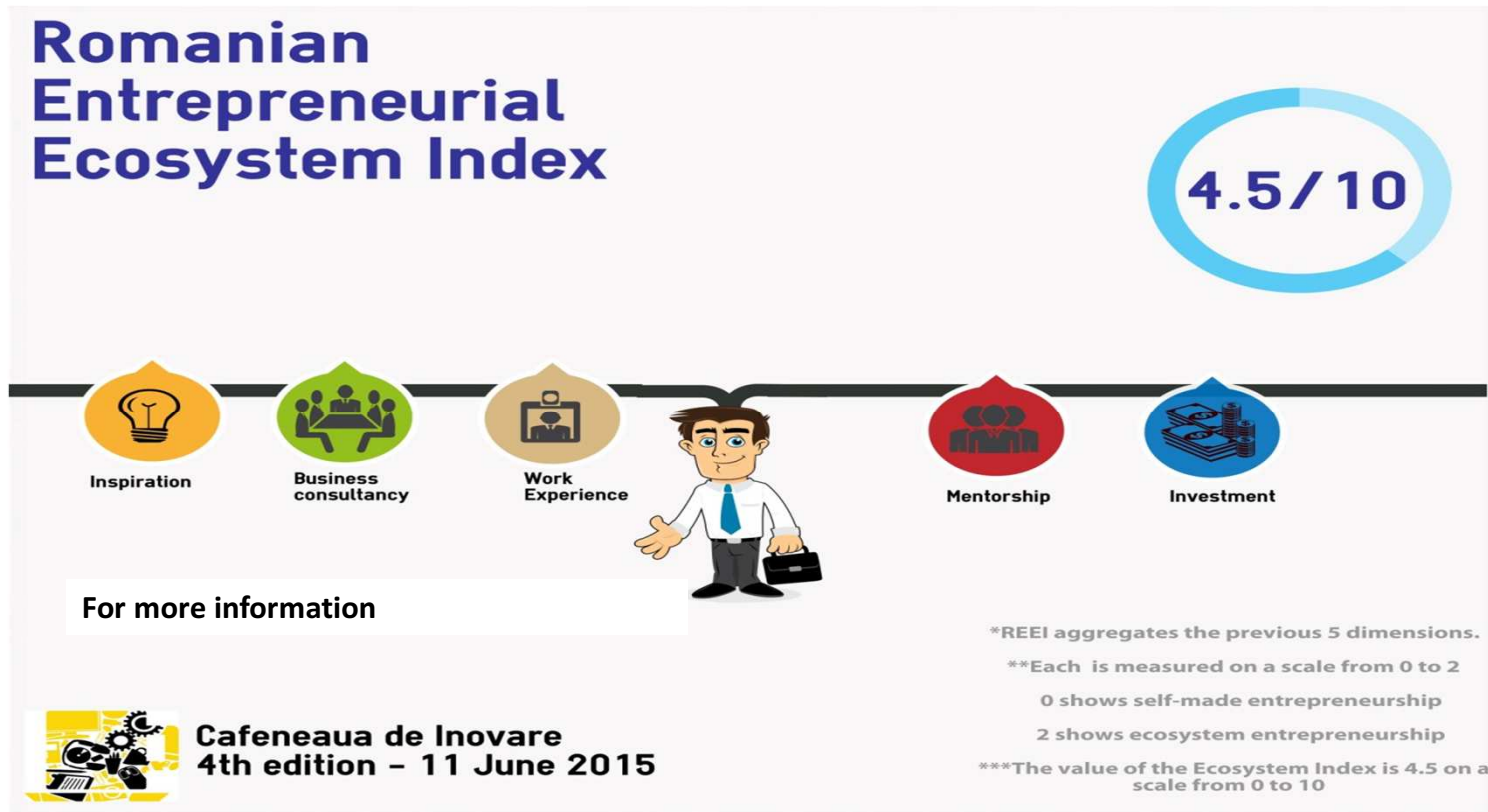


Cafeneaua de Inovare
4th edition - 11 June 2015

Business facilitators & support entities



Entrepreneurial Ecosystem Index:



EEI ranges from 0 to 10



Horizon 2020 Policy Support Facility

Start-ups, Scale-ups and Entrepreneurship in Romania

Draft recommendations of the PSF Panel

Specific Support to Romania under the H2020 - Policy Support Facility



EC-RO collaboration objectives

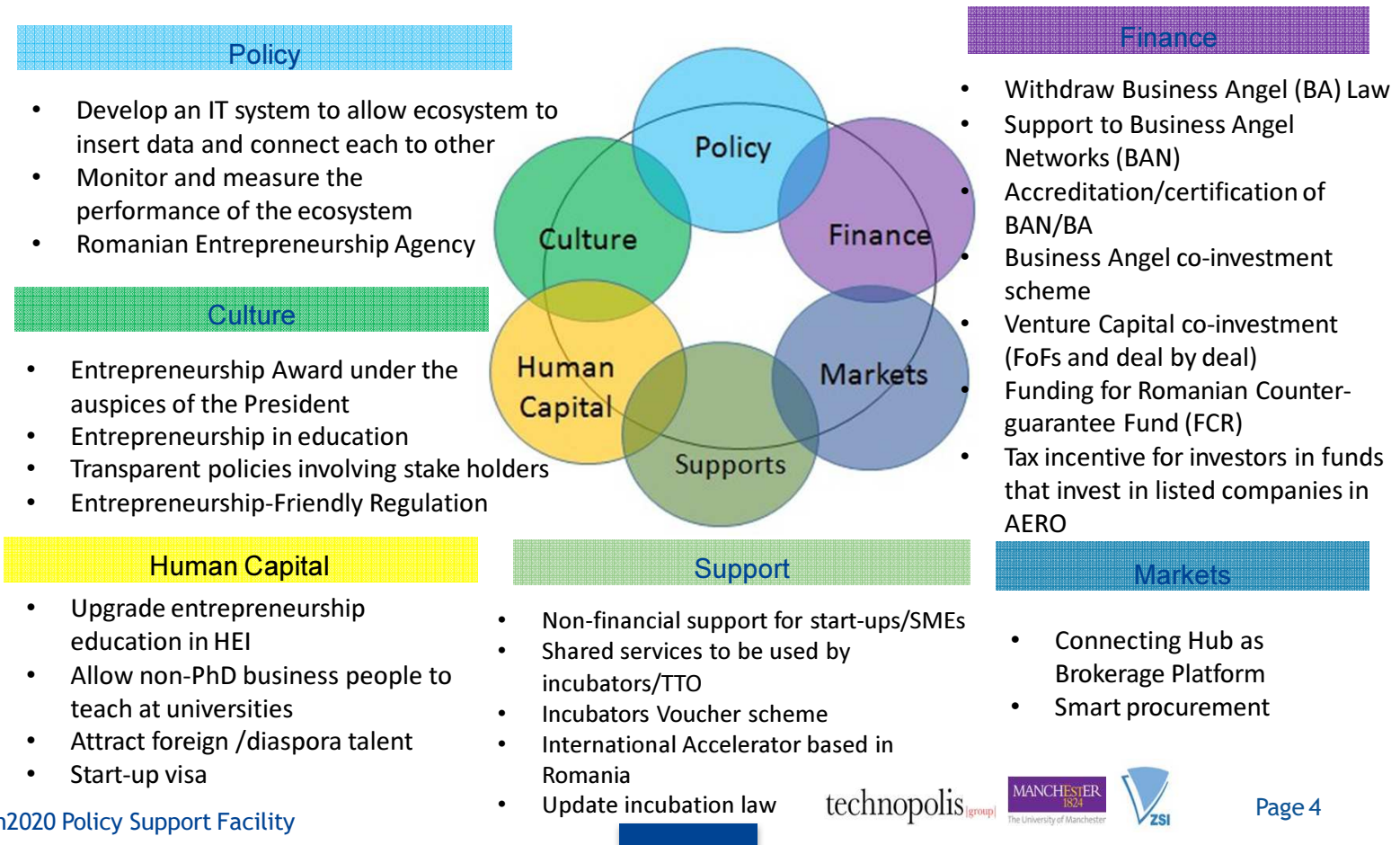
Assess the Romanian innovative entrepreneurship, start-up and scale-up ecosystem

Identify and recommend concrete measures to further develop, strengthen and improve the efficiency of the innovative entrepreneurship ecosystem, and the growth of Romanian start-ups.

Roadmap



Romanian Entrepreneurship Ecosystem recommendations



*Specialization
smart specialization strategies
and
entrepreneurial development process*

*...and
territorialisation of skills*

Why? (rationale)

- **R1 - Critical mass!**

- Scale and agglomeration : essential determinants of R&D productivity, creativity, innovation
- Most regions cannot reach critical mass in all industries
- Instead of *doing a little bit of everything*, let's specialise

- **R2 – Building critical mass involves supporting or providing the whole set of capabilities required to innovate in specific sectors (non neutral policy)**

- This is *haute couture* not ready to wear
- « *The idea that the government can disengage from specific policies and just focus on general framework conditions in a sector neutral way is an illusion based on the disregard for the specificity and complexity of the requisite publicly provided inputs and capabilities* » Hausmann and Rodrik, 2006
- Policy feasibility ... The local government cannot address all specific capabilities and infrastructure needs in all sectors : « *doomed to chose* »

- **Specialisation** : many benefits but a delicate game!

On what?

- RIS3 is not about sectoral prioritisation
 - Why?
- Specialisation is on **modes of transformation of sectors and ways to establish new ones**
- Priorities are *transformative activities*



How?

- These transformative activities are not known *ex ante*; they cannot be planned by the Government in a top down fashion
- They will be discovered through knowledge, interactions and dialogs between companies, research, public agencies and other communities
- The process of entrepreneurial discovery
 - Central to solve the information problem of the Govnmt

When?

- RIS3 has an experimental dimension : a few bets are placed on various domains and these are risky bets
- This is different from standard policy where the « bets » are safe and sure
- The good news : it should be taken as a living document!

Dominique Foray, **The economic fundamentals of smart specialisation strategies**; *Smart Specialisation in a comparative perspective: challenges and ways forward* - Berlaymont, June 27, 2016, Brussels



U&Fiscati

Advances in the Theory and Practice of Smart Specialization (2017, in print)

Editors:

*Slavo Radosevic (University College London)
Imogen Wade (UCL),
Liviu Andreescu
Radu Gheorghiu
Adrian Curaj*

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Ecole Polytechnique Fédérale de Lausanne
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Keun Lee, Professor of Economics, Seoul National University
Justin Yifu Lin, Peking University, former Chief Economist and Senior Vice President of the World Bank
Charles Sabel, Columbia University*

Technological RADAR

Objective:

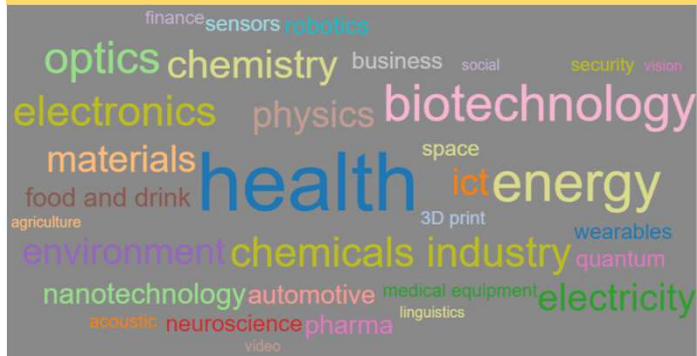
Identification of emerging global technologies for supporting the

1 million technological news

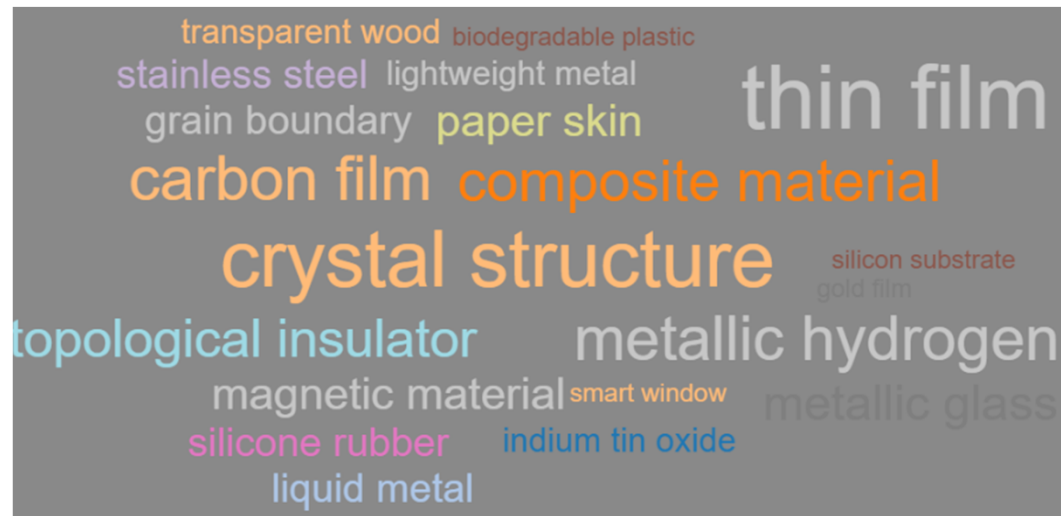
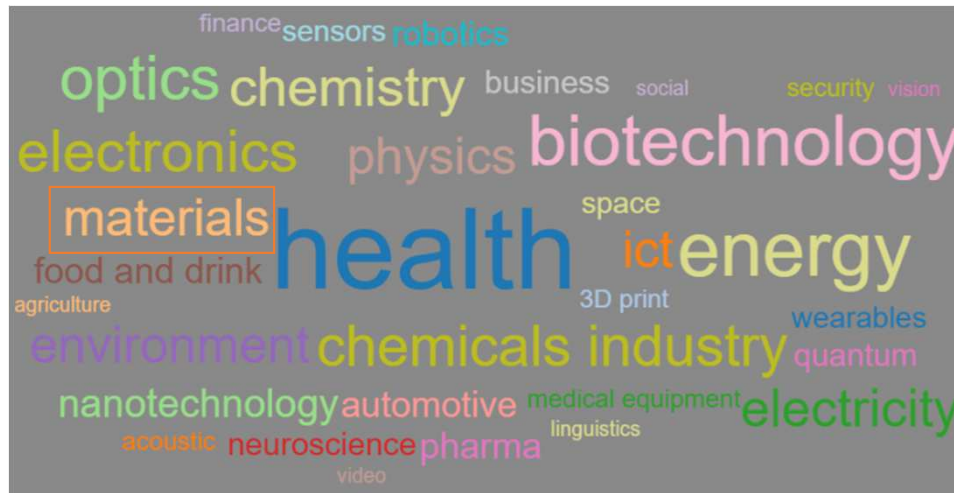
200+ on line platforms as primary sources of information

6000 “weak signals”

(NLP + human validation)



RADAR

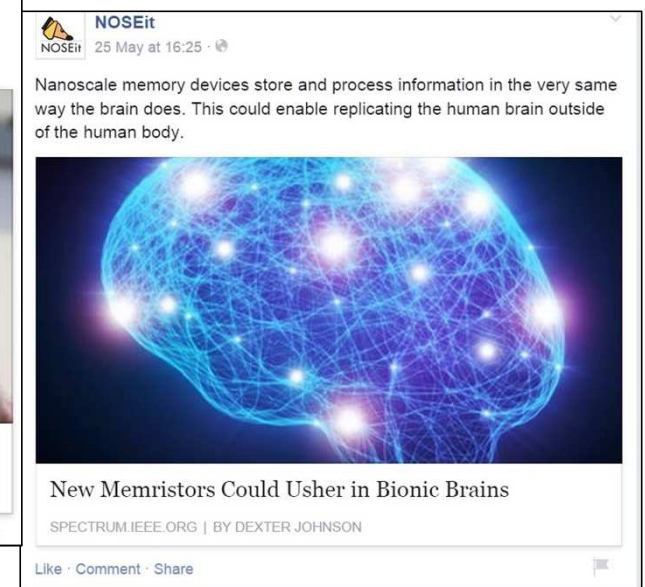


5/15/2017



RADAR- Identifying the emergent technologies

<https://www.facebook.com/NOSEit>



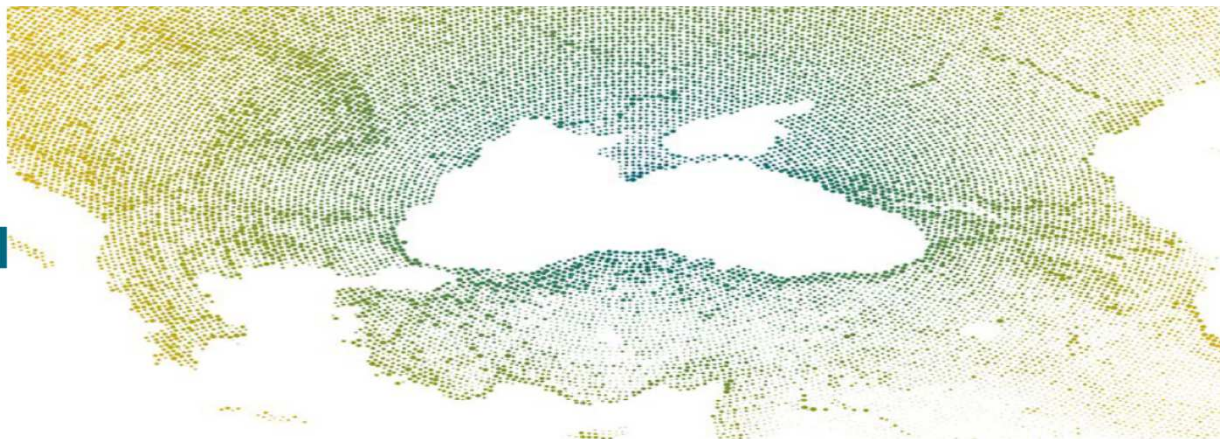
Policy Learning

- Foresight – Strategic policy Intelligence;
- Sharing experience
 - e.g PSF
 - Bulgaria and Moldavia
 - Romania : Start-ups, Scale-ups and Entrepreneurship in Romania
- Tax facilities and lessons learned;



Think outside the box
Be a visionary and act!

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Thank you very much!
Prof. Adrian Curaj



May 8, 2017, Athens



The project BLACK SEA HORIZON has received funding from Horizon 2020, the EU Framework Programme for Research and Innovation, under the Grant Agreement 645785 (H2020-INT-INCO-2014).