

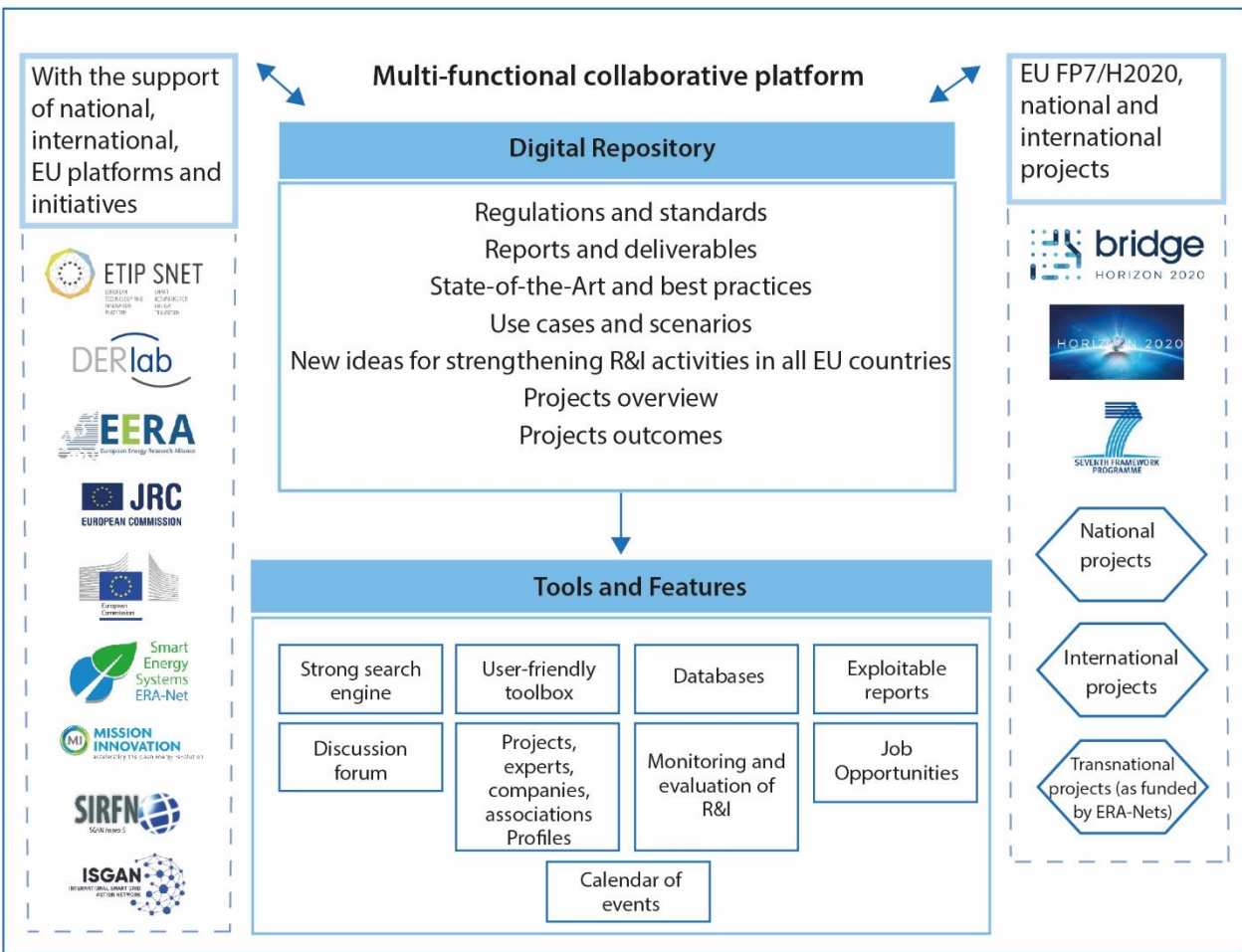


PANTERA project-A Pan European Technology Energy Research Approach towards synergies facilitation on smart grids

The PANTERA project: Multifunctional Platform a link of Regions + R&I community in EU

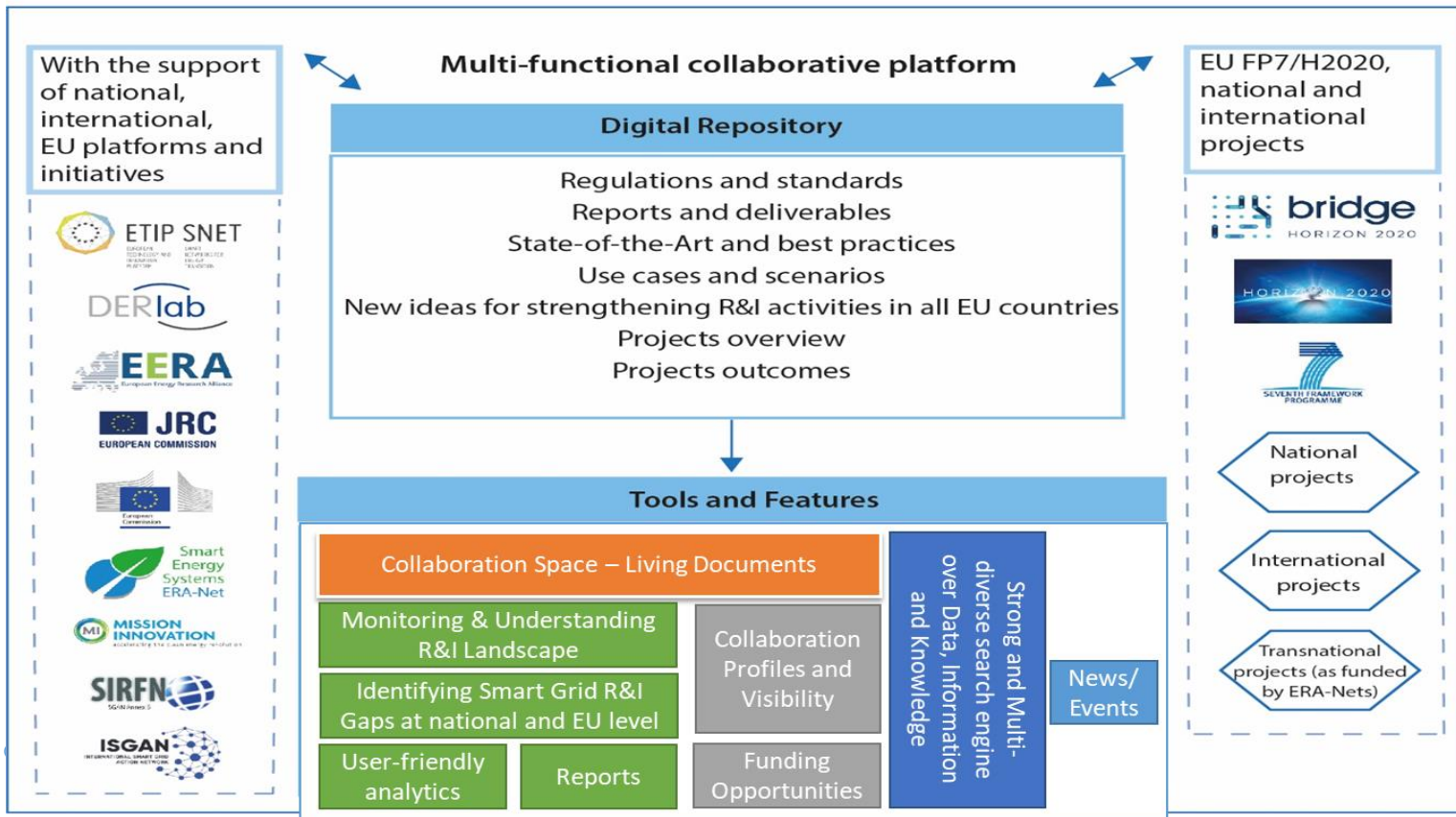
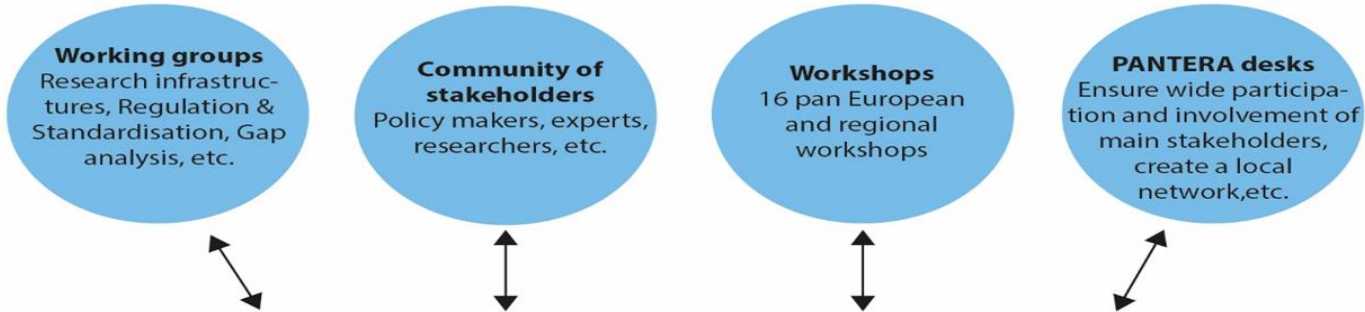
Dr. Venizelos Efthymiou
efthymiou.venizelos@ucy.ac.cy



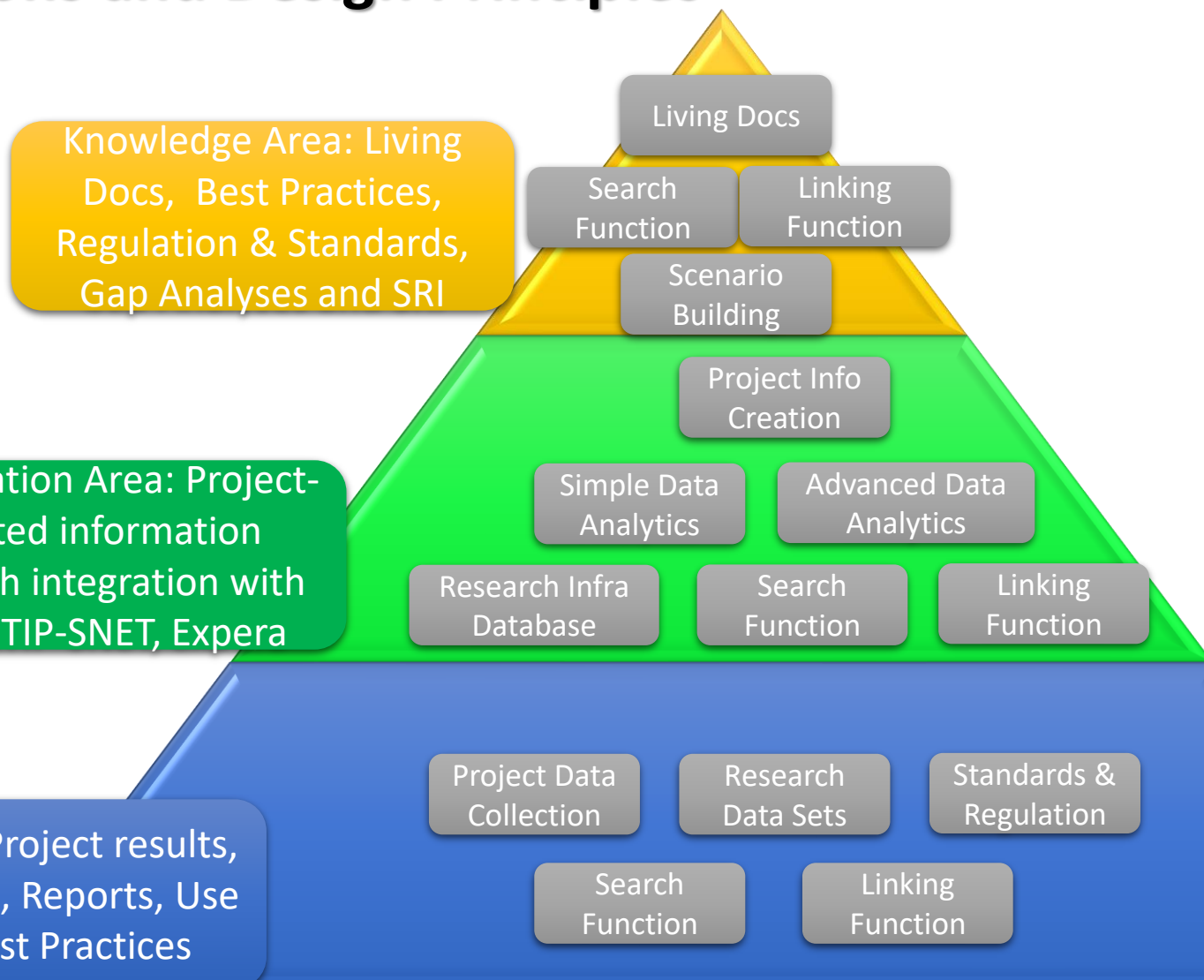


Vision for a multifunctional collaborative platform to serve R&I in EU in support of the energy transition and more specifically energy systems

PANTERA Platform Conceptual Representation



PANTERA Platform Data Provisions and Design Principles



Knowledge Area: Living Docs, Best Practices, Regulation & Standards, Gap Analyses and SRI

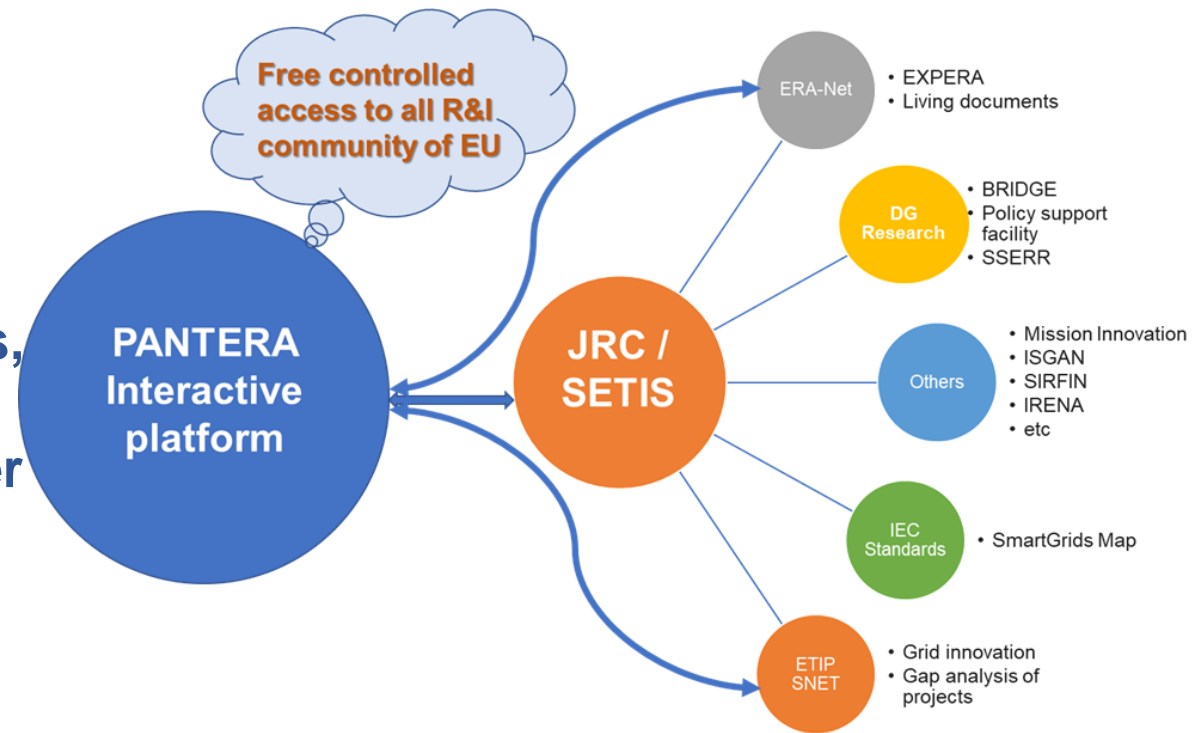
Information Area: Project-related information through integration with JRC, ETIP-SNET, Expera

Data Area: Project results, Deliverables, Reports, Use Cases, Best Practices

Development of an Interactive multi-functional platform in collaboration with PANTERA, JRC, ERA-Net SES and ETIP SNET



To connect the R&I community of EU to enhance collaboration, wider interest and use on the project results, avoid duplication and lost euros, strengthen the participation of all Member States in support of the fifth pillar of the Energy Union (RIC) and energy transition.



All contributing entities get benefit through the enhanced connectivity to beneficiaries and users



*CONNECTING THE R&I EU
COMMUNITY*

*CREATING A STRONG AND
EXPANDABLE NETWORK*

*BUILDING UP THE FUTURE OF
SMART GRIDS*

*ENHANCING COLLABORATION AND
KNOWLEDGE SHARING*

Collaboration with ETIP

SNET WG5: status

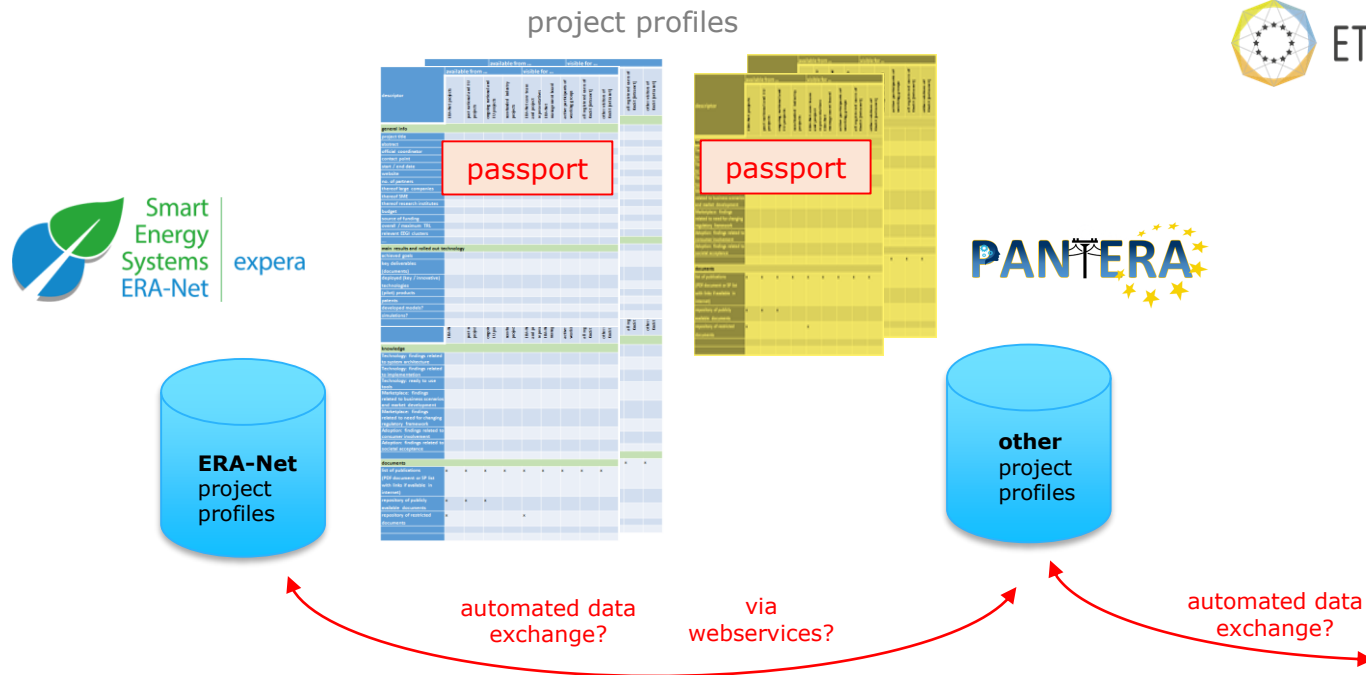


- ❖ The WG5: willingness to develop a collaborative platform with a wider scope than the one of Gridinnovation online:
 - Relevant energy projects including smart grid projects and their results to be presented to the public as well as to investors, potential customers, potential demo sites, ... by keyword search or via a map
 - Promising energy solutions presented to the public as well as to investors, potential customers, potential demo sites, ... by keyword search or via a map
 - Background and content of these projects and solutions explained
 - Guidance on how to exploit well, on how go to the market, on how to write a business plan, ... can be provided
 - Promoters can upload their project/solution information (for validation by an expert team)
 - Links to dedicated finance / funding programmes can be provided
 - A member zone gives access to a SharePoint / collaborative working tool (proposals for hosting such a working site are welcome)



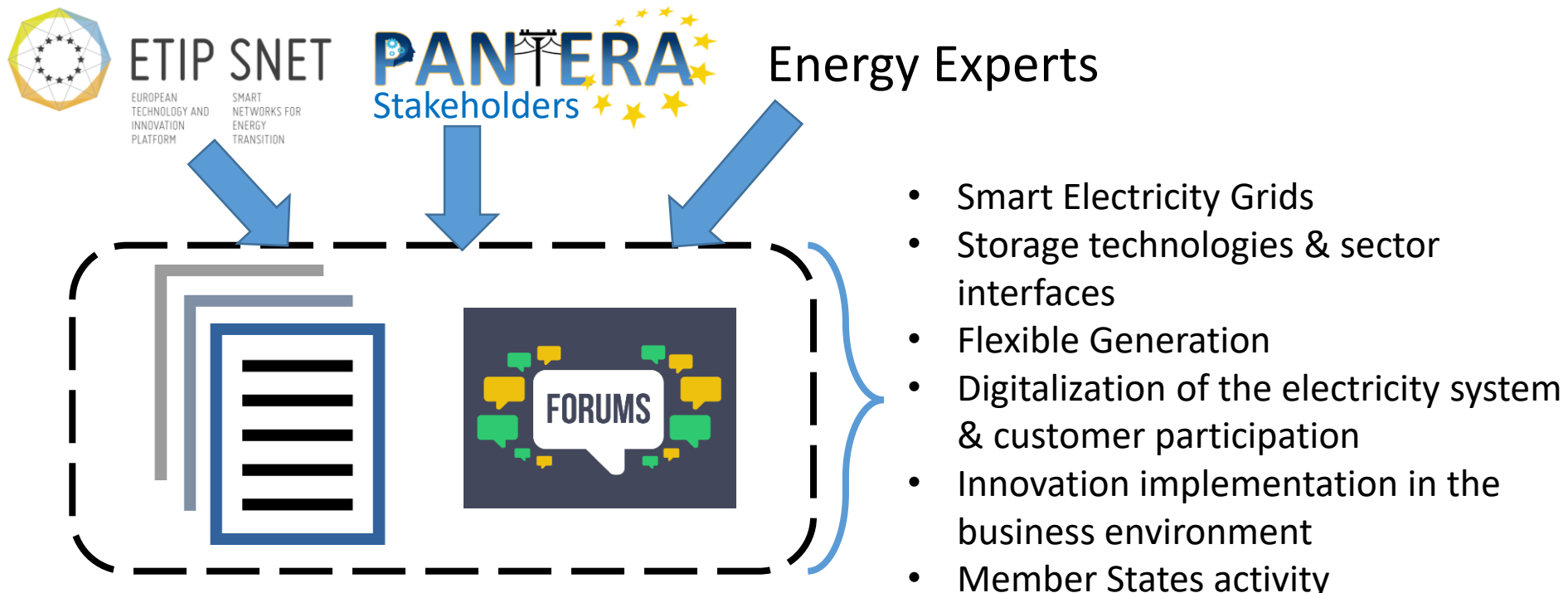
Connecting Project Repositories

Emphasis on the first phase on knowledge sharing through the compilation of living documents



Living document repository

- Online documents that capture the joint know how of the PANTERA community.
- Content is created by the PANTERA working teams/desks, in collaboration with the ETIP SNET working groups.



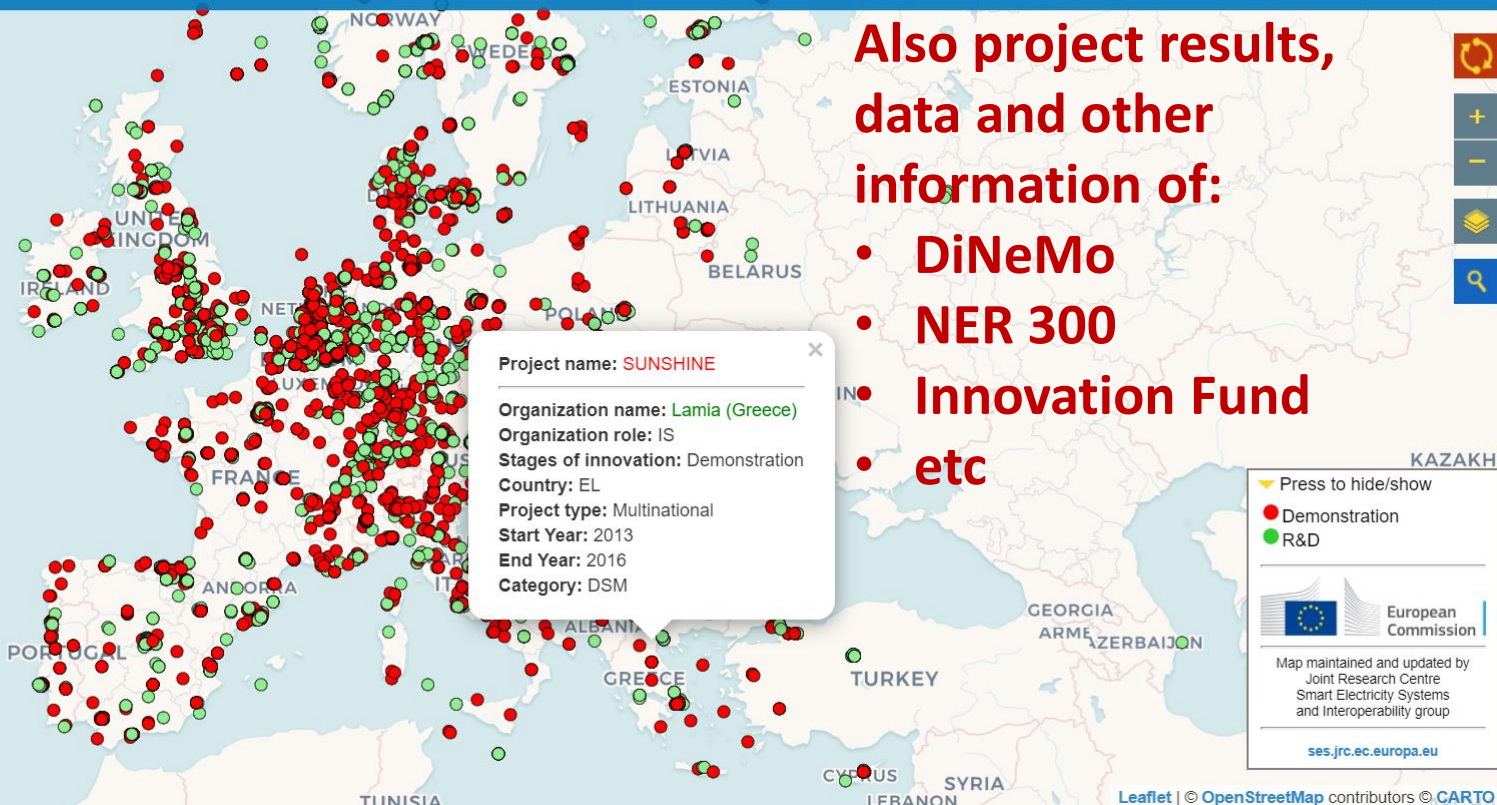
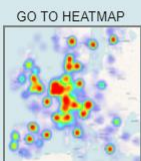
This mapping is carried out by JRC on a regular basis and it represents the most comprehensive inventory of Smart Grid projects in Europe



SMART GRID PROJECTS MAP: ORGANISATIONS AND IMPLEMENTATION SITES

+ MAP FILTERS

MARKERS: 6702



Also project results, data and other information of:

- DiNeMo
- NER 300
- Innovation Fund
- etc



The Smart Grids Innovation Accelerator (SGIA)

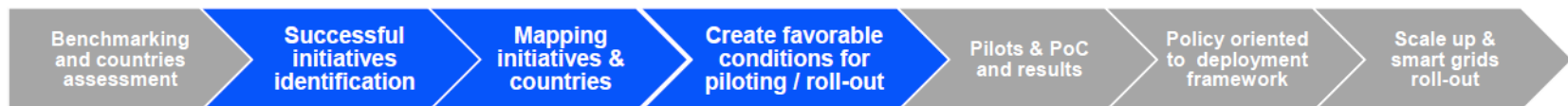


The SGIA Platform: Main Objectives



MI Smart Grids

1. To foster and accelerate the smart grids deployment through the implementation of clean and sustainable energy technologies, leveraging on pilot project results and best practices sharing among different stakeholders.
2. To promote Public Private Collaboration creating a favorable framework to launch feasible projects/initiatives.
3. To foresee new upcoming enabling technologies and business models to plan long term investments.



L. Martini, "International activities update"
12th ETIP SNET GB meeting, Oct. 24th 2019, Brussels

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PANTERA aligned to host and utilise the rich content of SGIA



The SGIA Platform: Main Phases and Outcomes



MI Smart Grids

SGIA Main PHASES:

- **Information gathering and analysis** for the elaboration of specific “White Papers” reporting national and global initiatives, key exploitable results and best practices to be shared among IC1 country members
- **Map and identify initiatives & best practices** to be replicated in selected regions and countries highlighting technical and non-technical barriers to be overcome.
- **Select the best deemed technologies and projects** by geographical area also considering regulatory framework and specific country’s constraints

EXPECTED MAIN OUTCOMES:

- **WHITE PAPER: “Vision 2030”** Collection of initiatives and best practices to be shared (innovative and disruptive technologies, strategic drivers, research, country context)
- **TECHNOLOGY MAPPING** Identification of most suitable smart grids technologies to be adopted according to specific target country
- **COUNTRY smart grids IMPLEMENTATION PLANS**

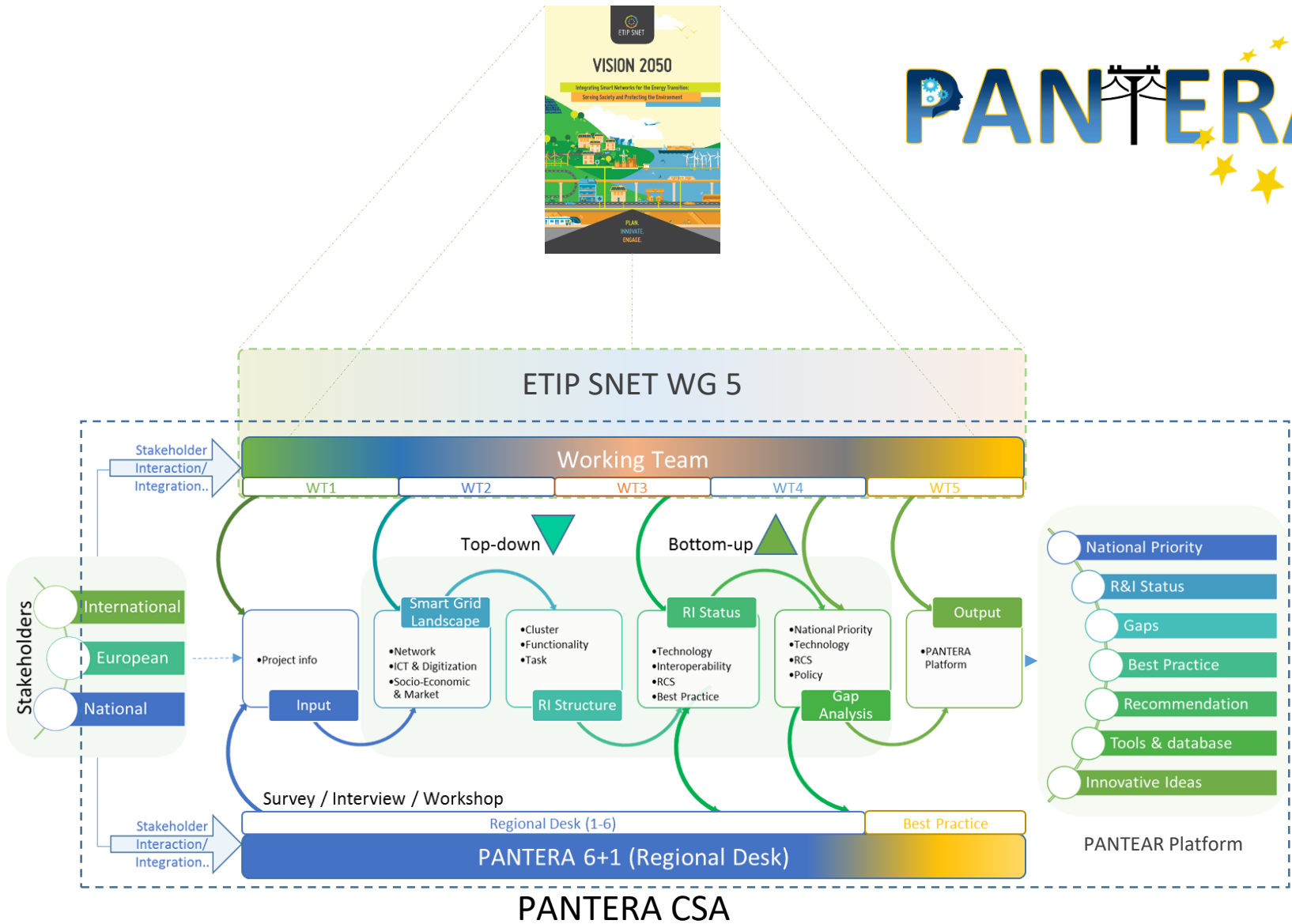


L. Martini, “International activities update”

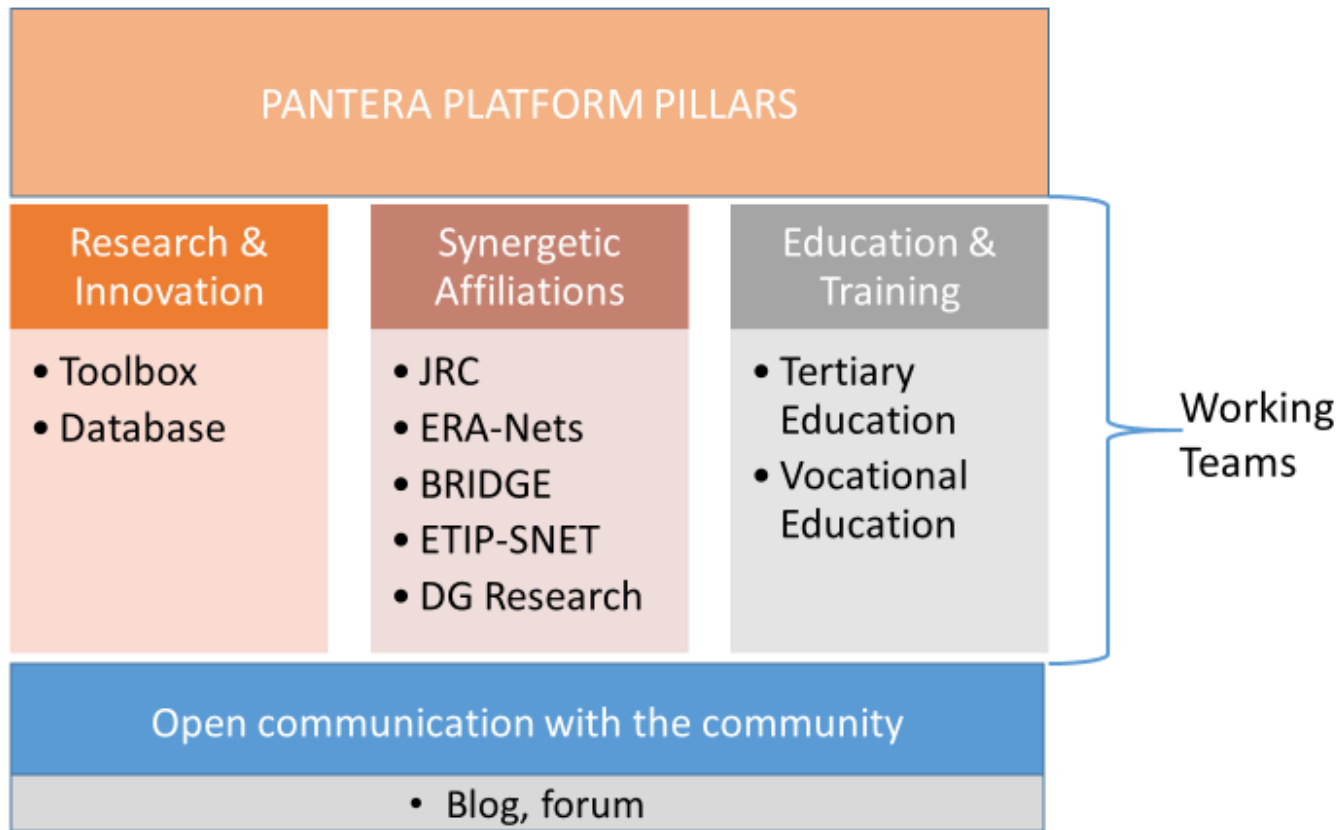
12th ETIP SNET GB meeting, Oct. 24th 2019, Brussels

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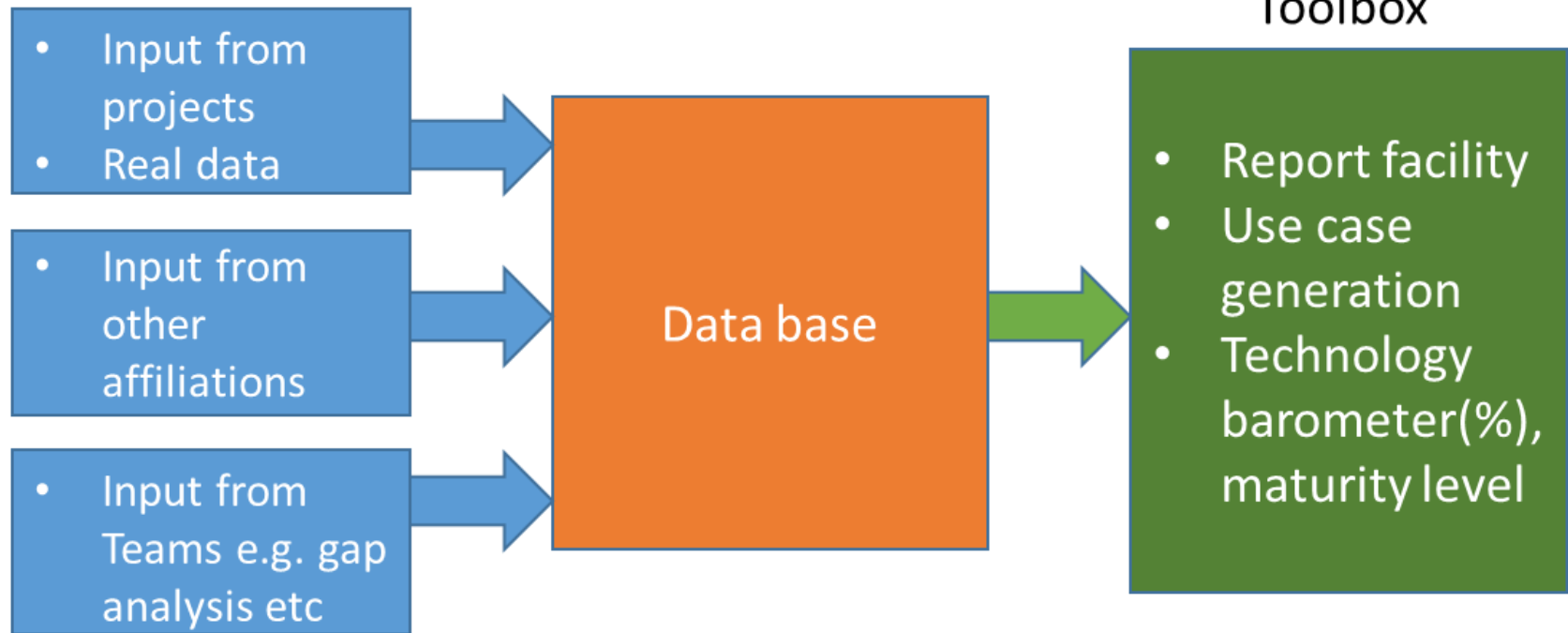




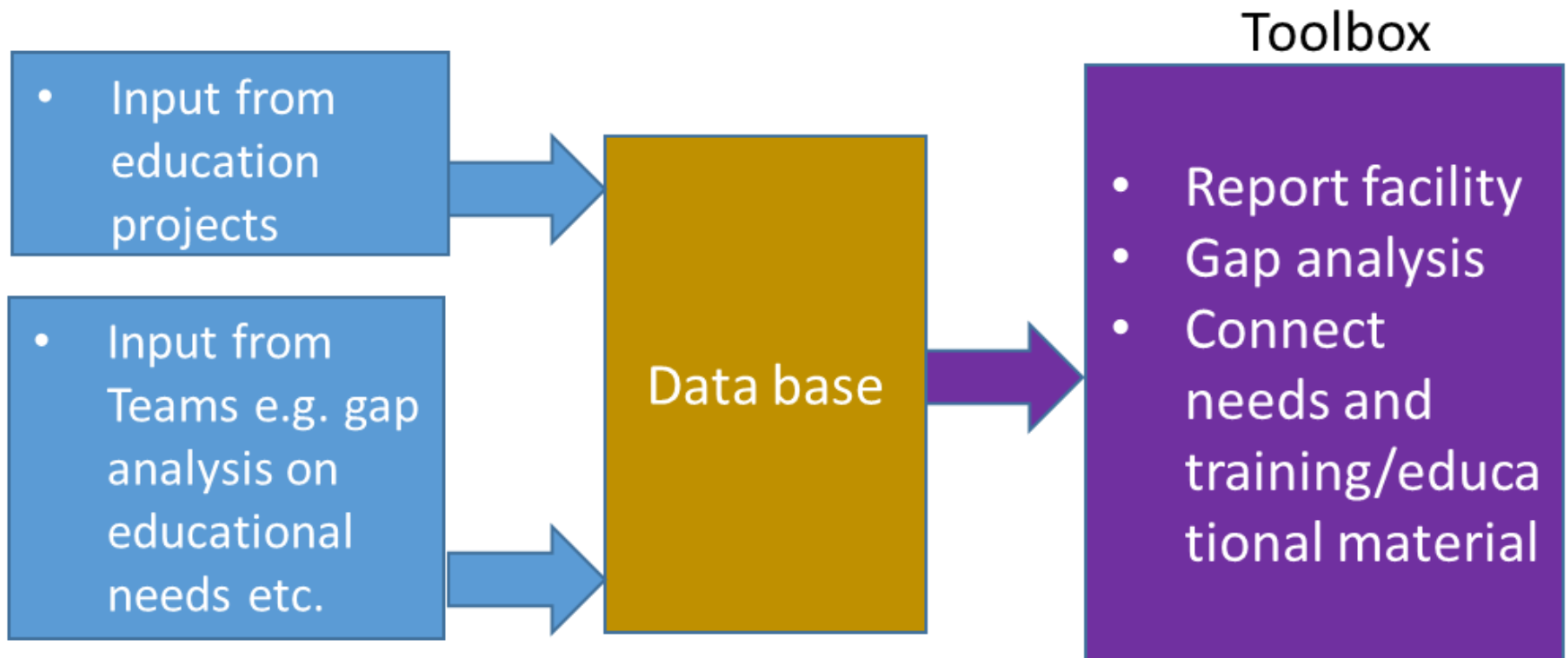
Collaborative platform of ETIP SNET WG5 + PANTERA: Main pillars and Working Teams



Collaborative platform of ETIP SNET WG5 + PANTERA: Single point of reference with inputs from all active platforms



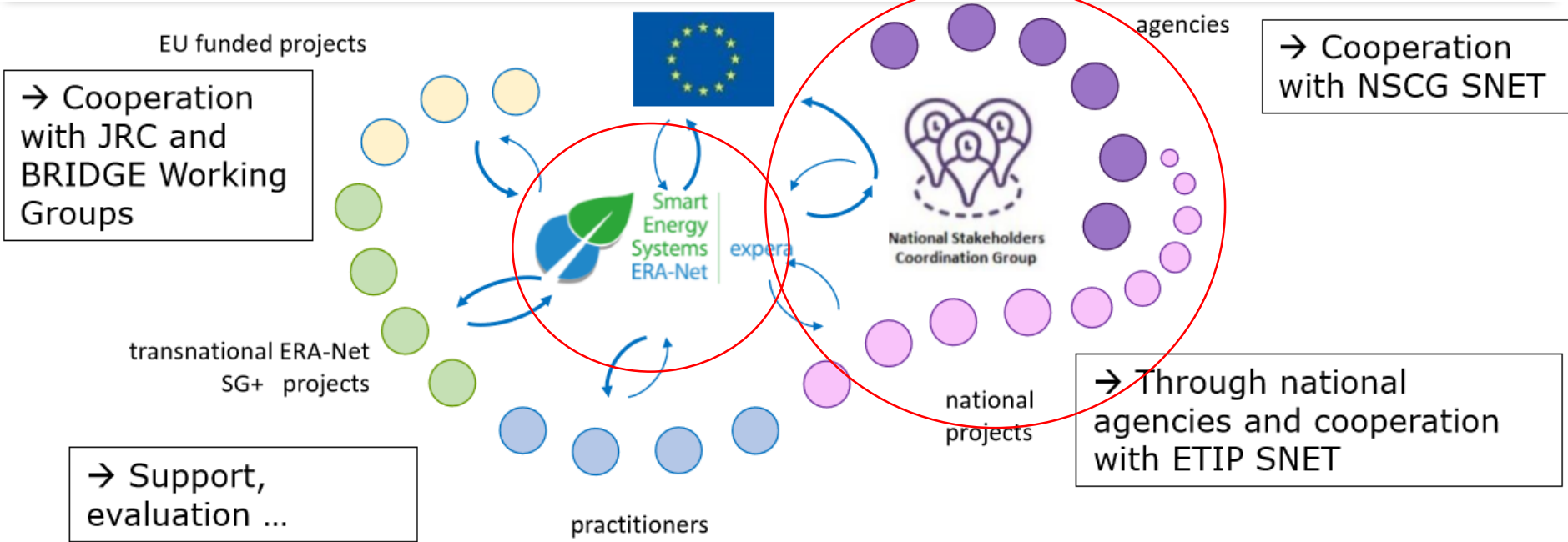
Collaborative platform of ETIP SNET WG5 + PANTERA: Education and training



Cooperation at the regional level



PANTERA Regional desks



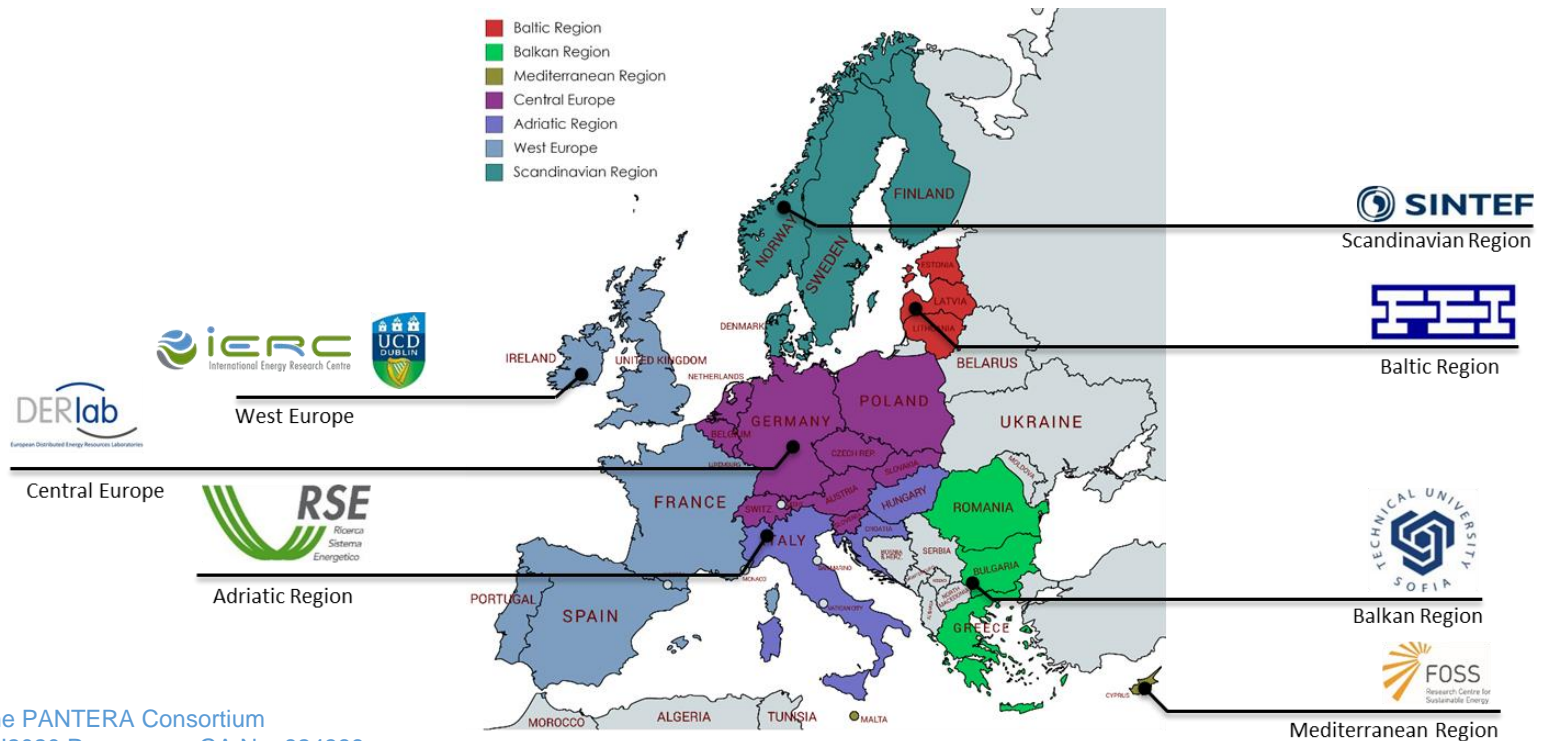
PANTERA Working Teams population



Regional desks



A Regional desk is a group of local stakeholders active in the relevant region aiming to ensure wide participation and involvement of main stakeholders throughout the project, create a local network to build on innovation the local strengths and provide inputs to PANTERA platform and working teams to raise impact and nurture their competitive advantage.





PANTERA acting through regional desks

PANTERA 6+1

DESK 1
Responsible partner – IPE

Latvia
Estonia
Lithuania

DESK 2
Responsible partner – TUS

Bulgaria
Romania
Greece

DESK 3
Responsible partner – FOSS

Cyprus
Malta

DESK 4
Responsible partner – DERlab

Poland
Slovakia
Czech Republic

DESK 5
Responsible partner – RSE

Hungary
Croatia
Italy

DESK 6
Responsible partner – NUID-UCD

Ireland
Portugal

BEST PRACTICE DESK
Responsible partner – SINTEF



- Baltic Region
- Balkan Region
- Mediterranean Region
- Central Europe
- Adriatic Region
- West Europe
- Scandinavian Region



through

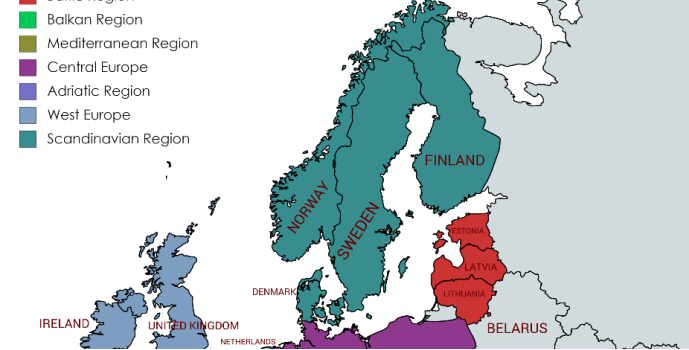


DESK 3
Responsible partner – FOSS

Cyprus
Malta

DESK 6
Responsible partner – NUID-UCD

Ireland
Portugal



PANTERA 6+1

DESK 1

Responsible partner – IPE

Latvia
Estonia
Lithuania

DESK 2

Responsible partner – TUS

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DESK 3

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Malta

DESK 4

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Czech Republic

DESK 5

Responsible partner – RSE

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Croatia
Italy

DESK 6

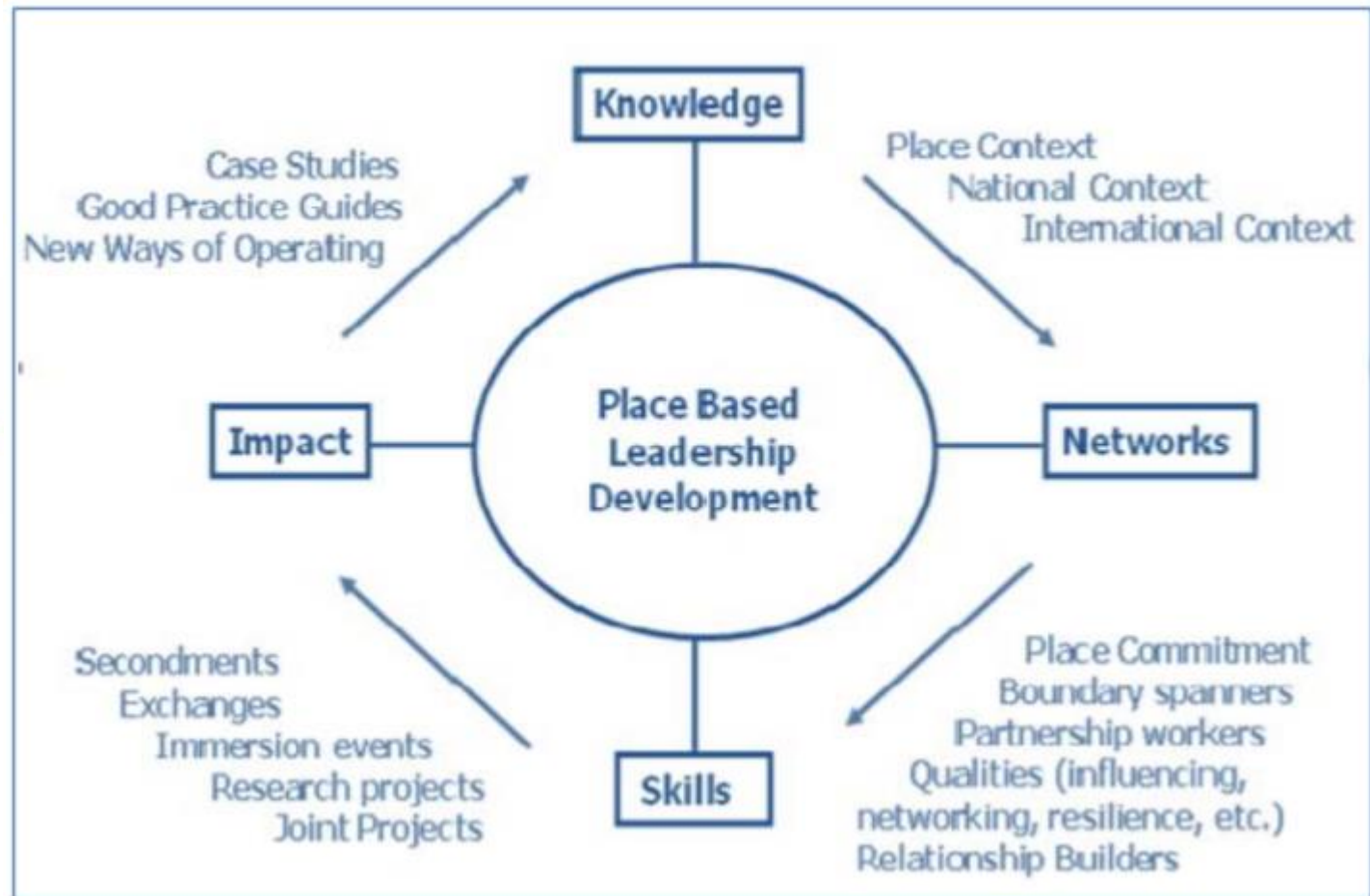
Responsible partner – NUID-UCD

Ireland
Portugal

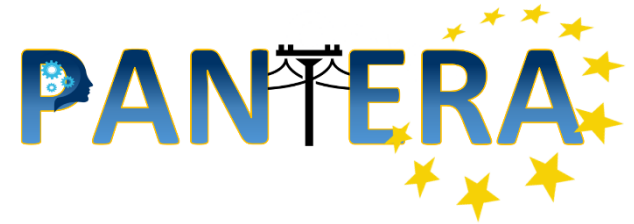
BEST PRACTICE DESK

Responsible partner – SINTEF

Build good working relations with RIS3 that JRC is managing in operating regions and the platform



PANTERA platform: Work progress



Stakeholders May –
Dec 2019

- Consultation meetings with ERA-NET
- Consultation meeting with ETIP SNET
- Consultation meeting with JRC with the support of DG Energy and DG RTD

Design Platform
Sep – Dec 2019

- Define Platform functionalities and requirements
- Design platform architecture
- Detailed specifications for required procurement for developing the platform

Agreement with
Stakeholders
Jan-Feb 2020

- Bilateral discussions with stakeholders (DG Energy, DG RTD, ERA-NET, JRC, ETIP SNET) to discuss and agree the detailed specifications and phases of development of the platform



PANTERA Platform: Work progress



Tender – Feb-Mar
2020

- Identification and agreement of capable tenderers that can undertake the development of the platform based on the detailed specifications
- Issuing of tender to 3 selected tenderers for receiving their technical and financial offers
- Decision on successful tenderer and signing of contract.

Development of
the Platform April
to November 2020

- Contract execution divided in 3 phases of delivery with identified milestones
- Service and maintenance 2 years following final hand over i.e. 2021 to 2022



Discussion



Thank you for your attention

Dr. Venizelos Efthymiou

Chairman of FOSS Research Centre for Sustainable Energy

efthymiou.venizelos@ucy.ac.cy

www.foss.ucy.ac.cy



Back up files



PANTERA Platform High-level Conceptual Architecture

