



PANTERA project - A Pan European Technology Energy Research Approach

The PANTERA platform in support of the R&I community in EU and much more

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PANTERA Platform Conceptual Representation



Working groups Research infrastructures, Regulation & Standardisation, Gap analysis, etc.

Community of stakeholders Policy makers, experts, researchers, etc.

Collaboration Space – Living Documents

Reports

Monitoring & Understanding

R&I Landscape

Identifying Smart Grid R&I

Gaps at national and EU level

User-friendly

analytics

Workshops 16 pan European and regional workshops

PANTERA desks Ensure wide participa-

tion and involvement of main stakeholders. create a local network,etc.

With the support of national, international,



Multi-functional collaborative platform **Digital Repository** Regulations and standards Reports and deliverables State-of-the-Art and best practices Use cases and scenarios New ideas for strengthening R&I activities in all EU countries Projects overview **Projects outcomes Tools and Features**

Funding

over Data, Information diverse search engine Collaboration **Events** projects National projects International projects Transnationa projects (as funded) by ERA-Nets)

EU FP7/H2020,

national and

international

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 Data Provisions and Design Principles



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

Living Docs

Search Linking
Function Function

Scenario Building

> Project Info Creation

Simple Data Analytics Advanced Data Analytics

Research Infra Database Search Function Linking Function

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

Information Area: Project-

related information

through integration with

JRC, ETIP-SNET, Expera

Project Data Collection

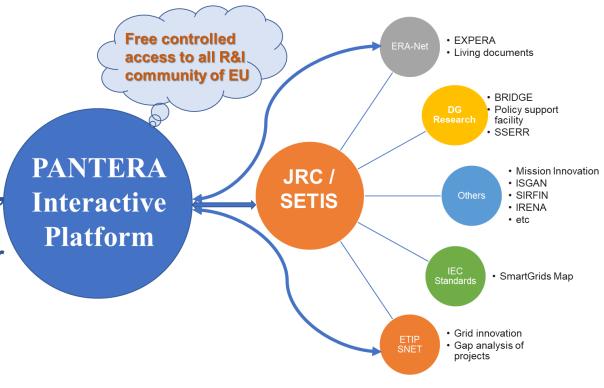
Research Data Sets Standards & Regulation

Search Function Linking Function

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



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.





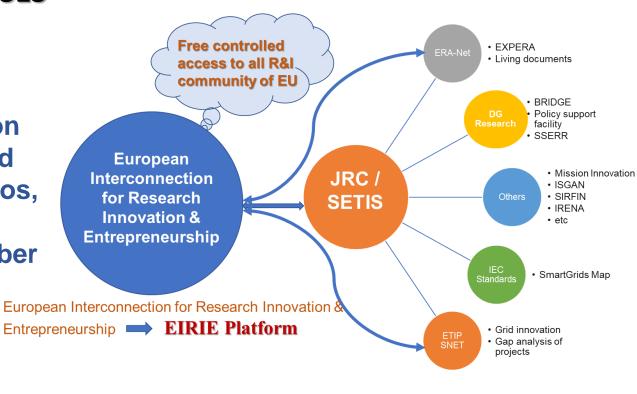
All contributing entities get benefit through the enhanced connectivity to beneficiaries and users



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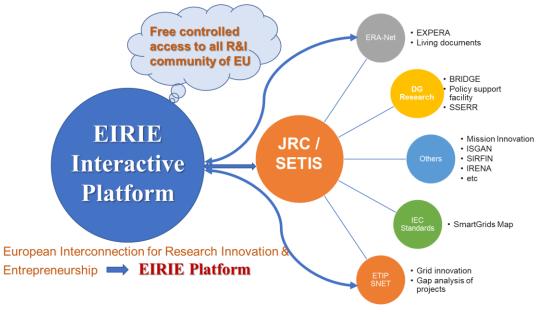
EIRIE will be hosted on the Smart Energy System servers of JRC and sustainability is guaranteed by DG Ener through a dedicated Service contract to take over from the PANTERA consortium on completion of the 4 years



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

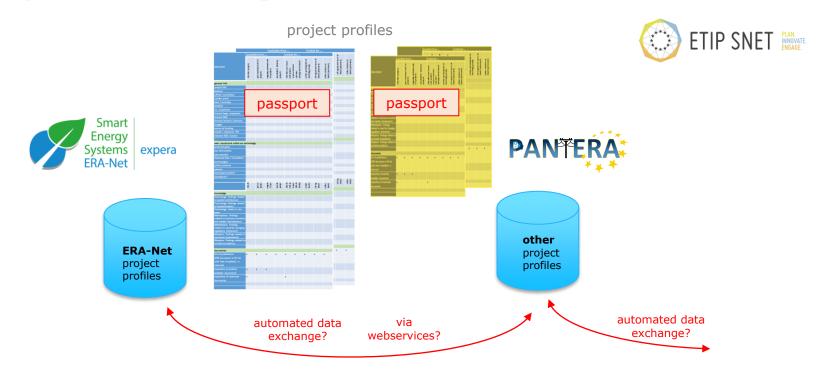






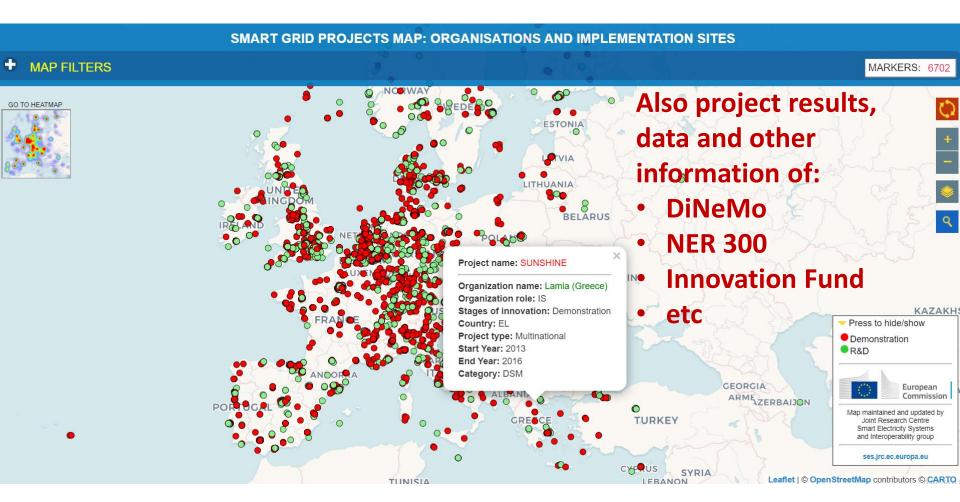
Connecting Project Repositories Emphasis on the first phase on knowledge sharing through the compilation of living documents





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





PANTERA Platform: In support of the R&I community in EU

The Smart Grids Innovation Accelerator (SGIA)



The SGIA Platform: Main Objectives



- 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.
- To foresee new upcoming enabling technologies and business models to plan long term investments.

Successful Mapping Create favorable **Benchmarking** Policy oriented Scale up & Pilots & PoC initiatives initiatives & conditions for and countries smart grids and results assessment identification countries piloting / roll-out framework roll-out





PANTERA aligned to host and utilise the rich content of SGIA



The SGIA Platform: Main Phases and Outcomes



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 constrains

EXPECTED MAIN OUTCOMES:

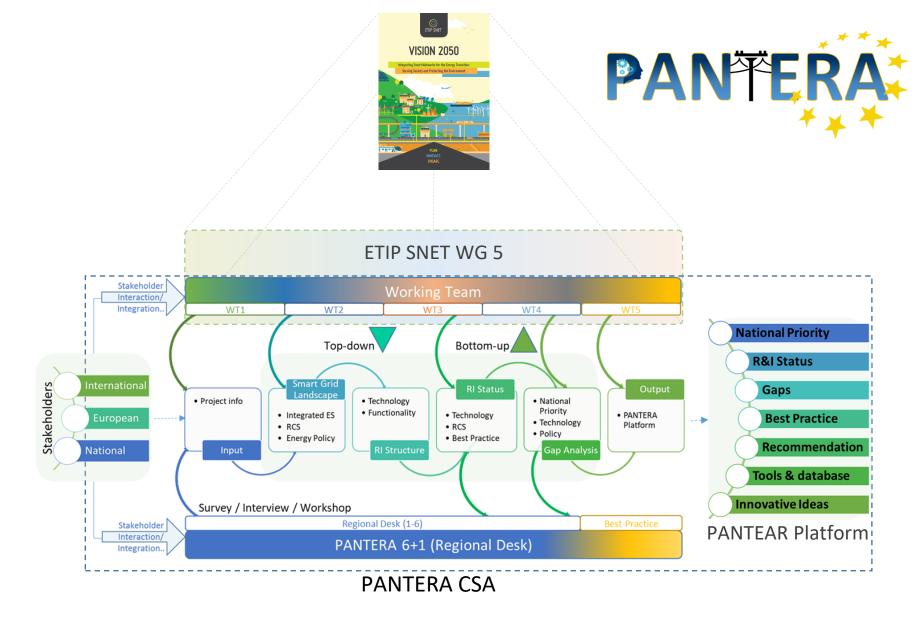
- WHITE PAPER: "Vision 2030" Collection of initiatives and best practices to be shared (innovative and disruptive technologies, strategic drivers, research, country context)
- TECHNOLOGY MAPPING Identification of most suitable smart grids technologies to be adopted according to specific target country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



L. Martini, "International activities update"

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

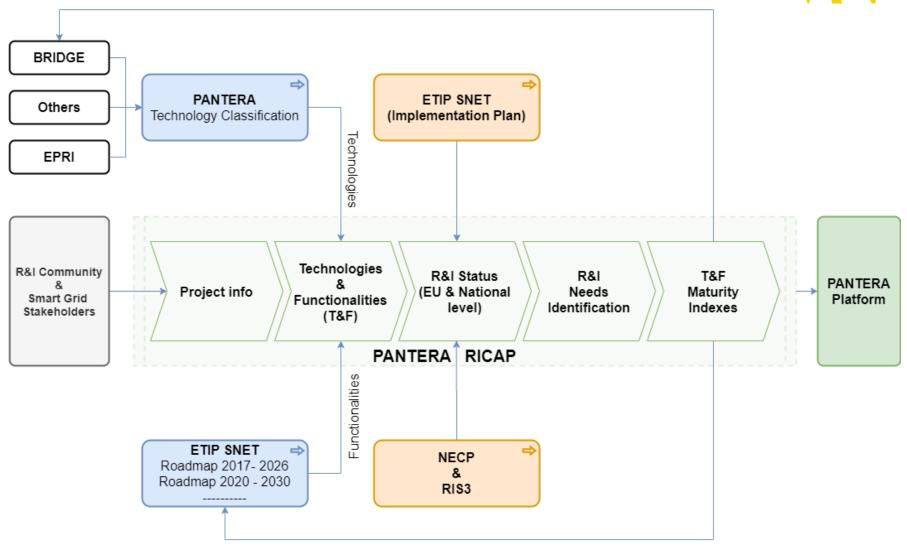
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PANTERA RICAP (Administrative Process)



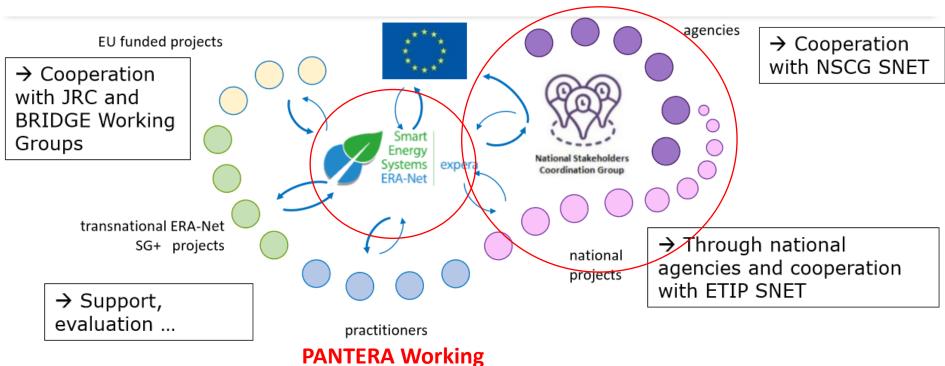




Cooperation at the regional level



PANTERA Regional desks

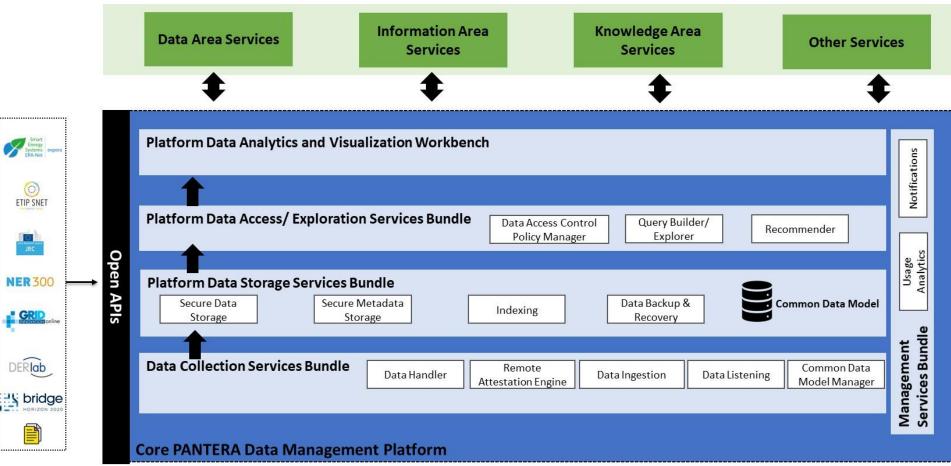


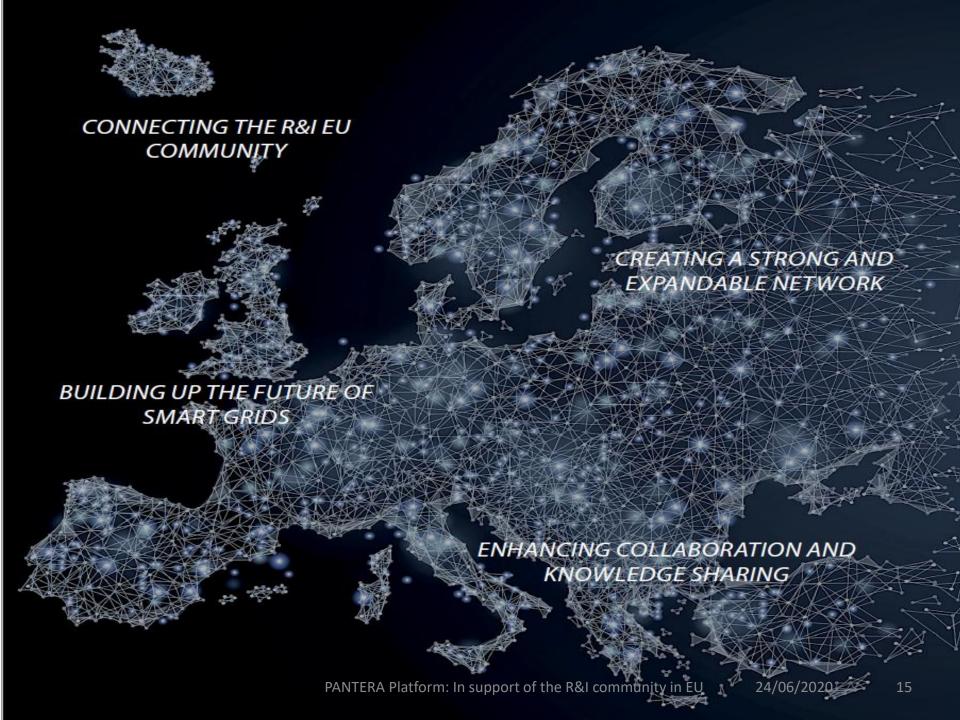
PANTERA Platform: In support of the R&I community in EU

Teams population

PANTERA Platform High-level Conceptual Architecture







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-Mar 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 – Apr to May 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 July 2020 to March 2021

- 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





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