

# European Research Infrastructure supporting Smart Grid Systems Technology Development, Validation and Roll Out

<sup>1</sup>Thomas Strasser, <sup>1</sup>Cyndi Moyo, <sup>2</sup>Mihai Calin, <sup>2</sup>Maria Sosnina, <sup>3</sup>Marita Blank, <sup>3</sup>Sebastian Lehnhoff

<sup>1</sup>AIT Austrian Institute of Technology GmbH, Energy Department – Electric Energy Systems, Giefinggasse 2, 1210 Vienna, Austria

<sup>2</sup>European Distributed Energy Resources Laboratories (DERlab) e. V., Königstor 59, 34119 Kassel, Germany

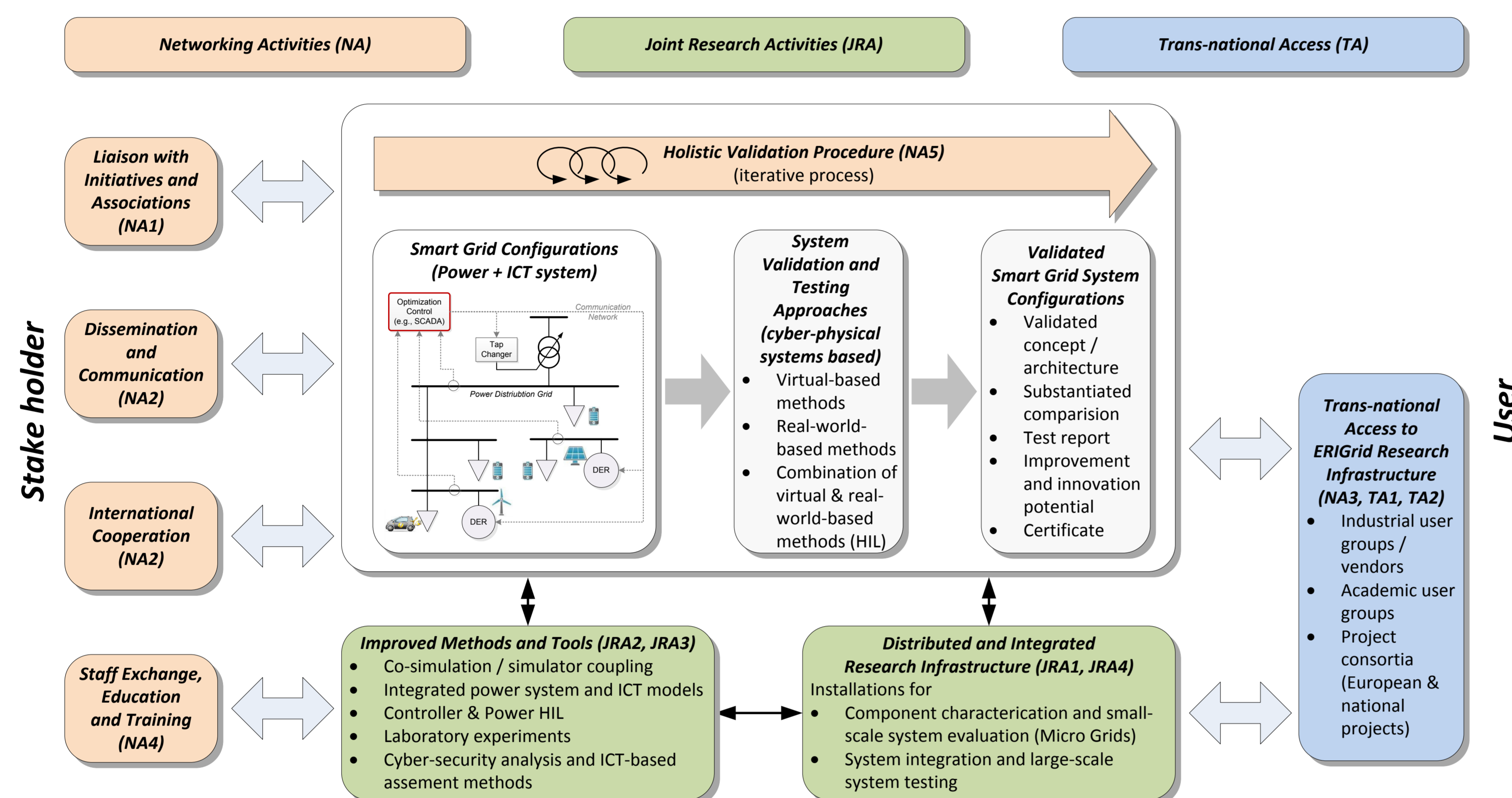
<sup>3</sup>OFFIS e. V., Escherweg 2, 26121 Oldenburg, Germany

thomas.strasser@ait.ac.at

*The ERIGrid project aims to provide to scientists and companies involved in the development of smart grid concepts and solutions with access to concentrated know-how and European research infrastructure to*

## Motivation and Main Goals

- Support the technology development as well as the roll-out of smart grid approaches, solutions and concepts in Europe with a holistic, cyber-physical systems approach
- Integration of major European research centres with outstanding smart grid research infrastructure to jointly develop common methods, concepts, and procedures
- Integrate and enhance the necessary research services for analysing, validating and testing smart grid configuration
- Provide system level support and education for industrial and academic researchers in smart grid research and technology development



## Networking Activities (NA)

- Integration of European smart grid research infrastructure
- Reinforced collaboration of key research institutions and industry and utilities
- Staff exchange of researchers, technicians and research infrastructure managers
- Training and education of power system and ICT professionals
- International collaboration

## Joint Research Activities (JRA)

- Technology development and roll-out support
- Development of advanced system validation method and tools
- Common models, harmonised validation and deployment procedures
- Implementation of advanced services in the integrated research infrastructure

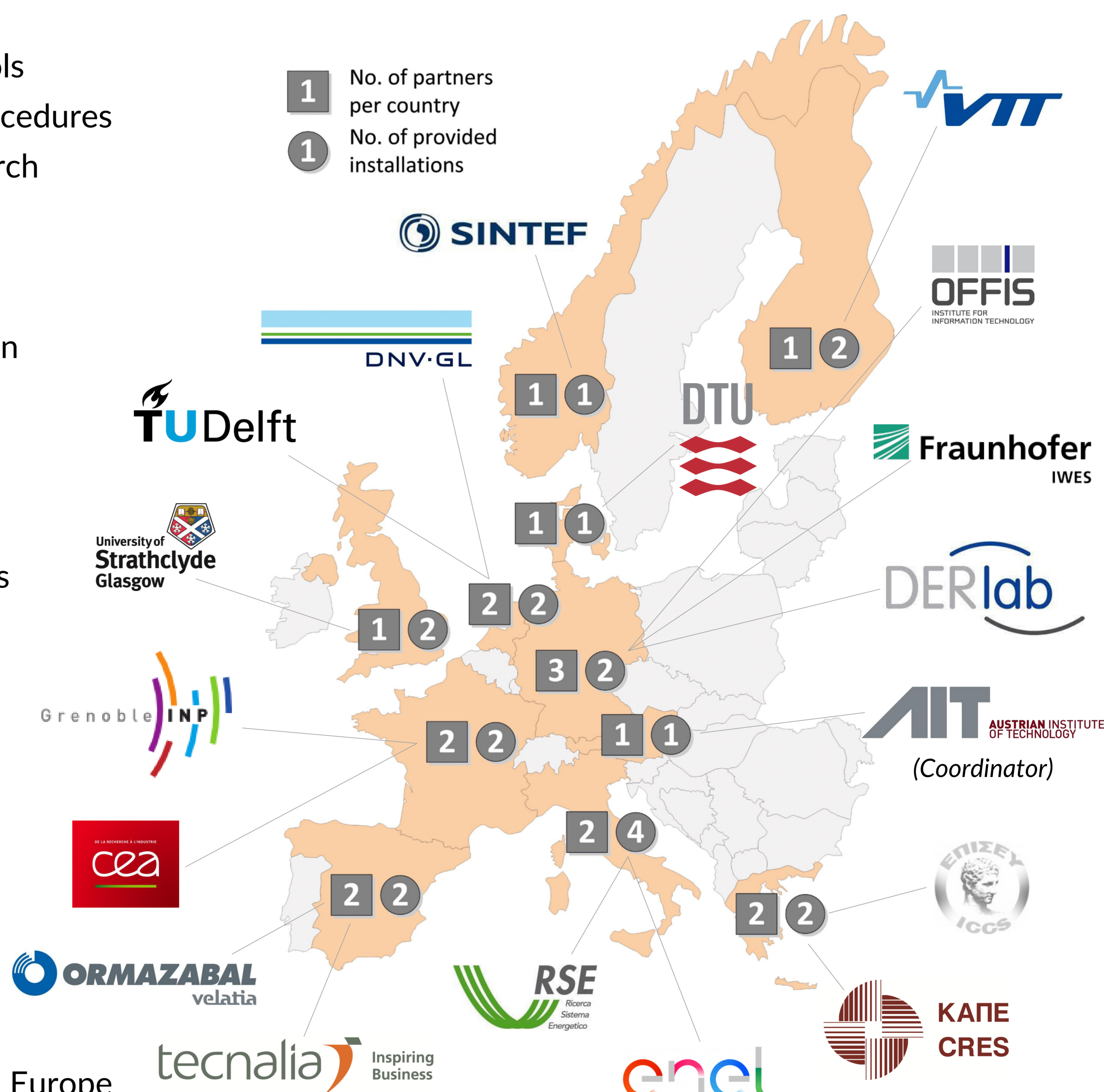
## Trans-national Access Activities (TA)

- Provision of user access to research infrastructure of the main players in the European smart grids research area
- Attraction of industry-related user projects

## Expected Results and Outcomes

- Extensive overview of various European research possibilities based on the services of ERIGrid partners
- Optimisation of laboratories interconnection
- Minimisation of testing services duplication in Europe
- Addressing the gaps in system integration and validation
- Harmonised procedures, common modelling approaches and standardised representation of results from simulation and laboratory-based experiments
- Dissemination of the gained data to external users and stakeholder groups
- Open access of the user projects' results to the public
- More efficient usage of smart grid research infrastructures in Europe

## Involved Partners and Laboratories



### Project Duration:

1 November 2015-  
30 April 2020

### Contact:

www.erigrd.eu  
erigrd-mgt@list.ait.ac.at

Supported by the H2020 Programme under Contract No. 654113. The content of this poster does not reflect the official opinion of the European Union. Responsibility for the information expressed therein lies entirely with the ERIGrid consortium.

