


ERIGrid – A European Research Infrastructure for Integrating and Validating Smart Grid Systems

Thomas I. Strasser 
(Coordinator H2020 ERIGrid)

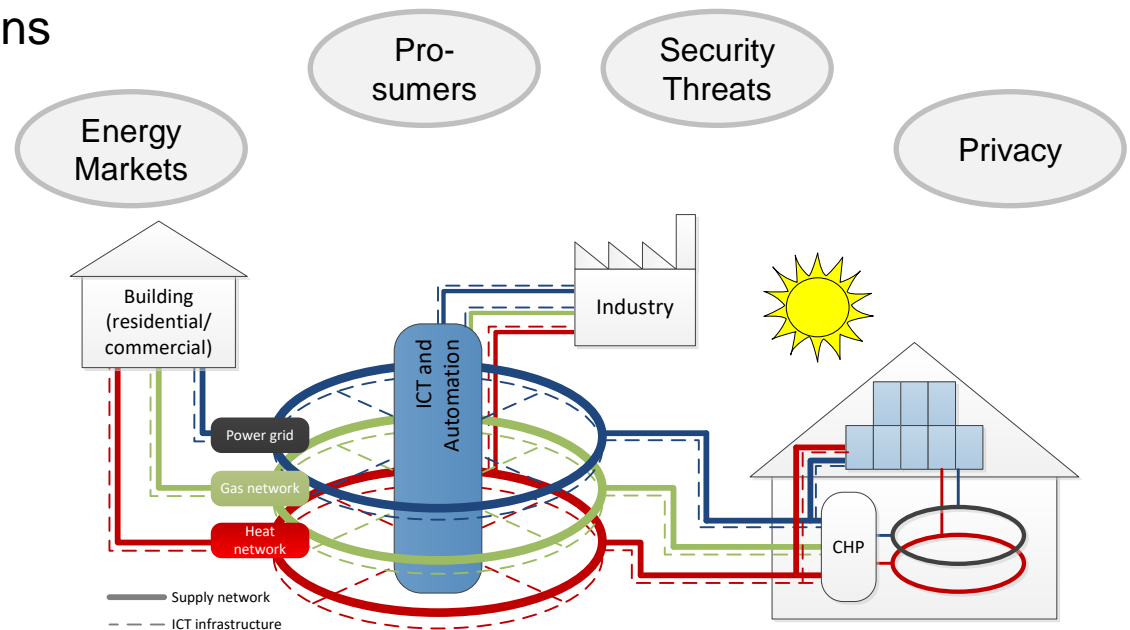
Center for Energy – Electric Energy Systems
AIT Austrian Institute of Technology, Vienna, Austria

*ICT 2018 Conference
Networking Session
December 4, 2018, Vienna, Austria*



Higher Complexity in Cyber-Physical Energy Systems

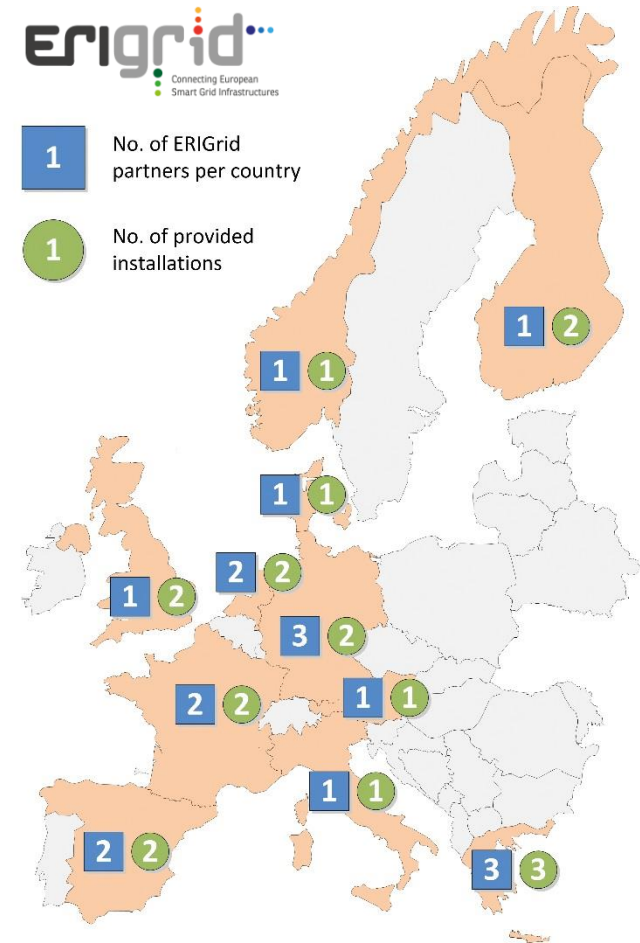
- Planning and operation of the energy infrastructure becomes more complex
 - Large-scale integration of renewable sources (PV, wind, etc.)
 - Controllable loads (batteries, electric vehicles, heat pumps, etc.)
- Trends and future directions
 - Digitalisation of power grids
 - Deeper involvement of consumers and market interaction
 - Linking electricity, gas, and heat grids for higher flexibility and resilience



Integrated Cyber-Physical Energy System (CPES)

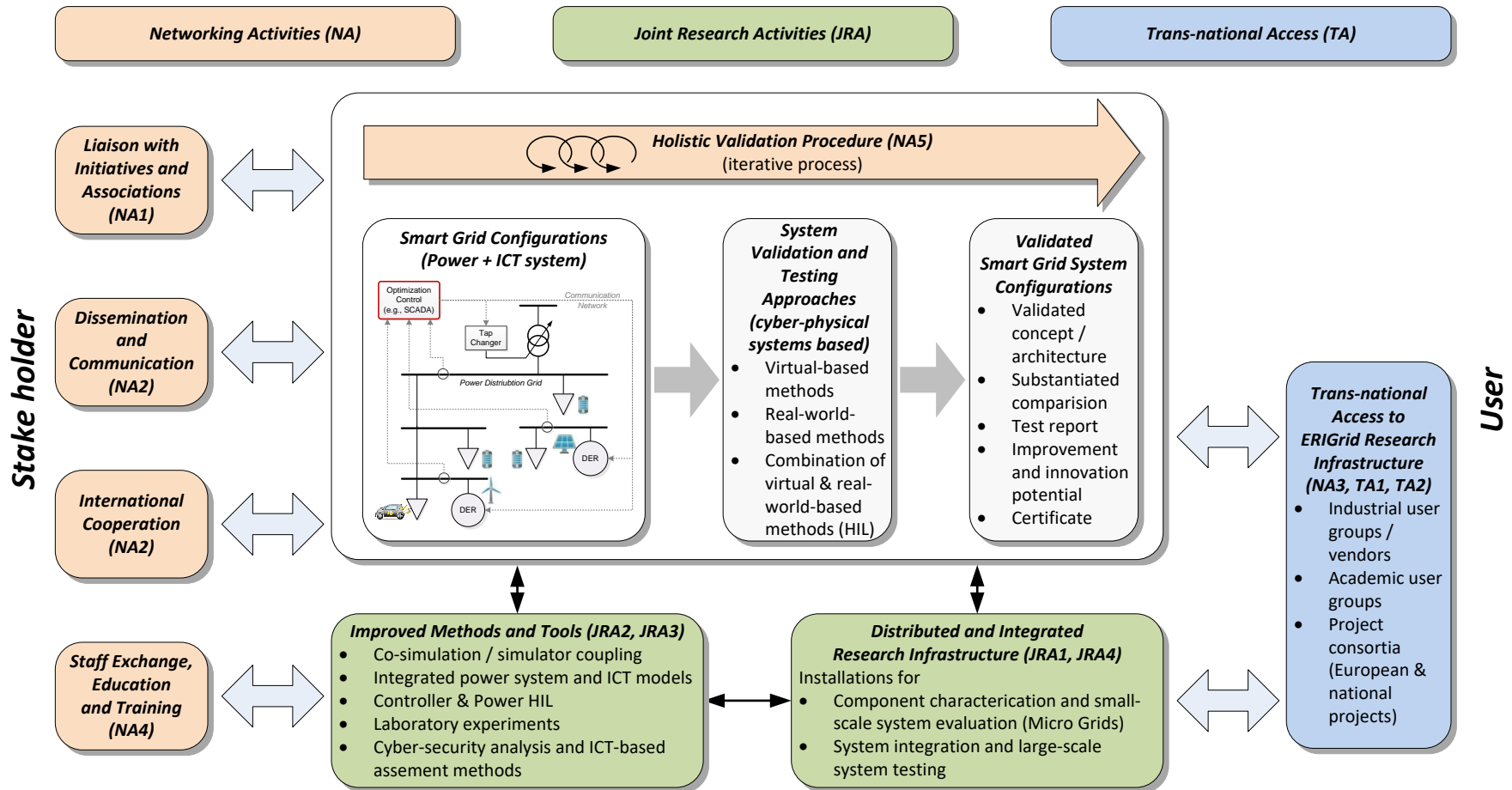
The integrated Pan-European ERIGrid Research Infrastructure Approach

- Research Infrastructure for validating CPES
- H2020 Call “INFRAIA-1-2014/2015”
 - Integrating and opening existing national and regional research infrastructures of European interest
- Funding instrument
 - Research and Innovation Actions (RIA)
 - Integrating Activity (IA)
- 18 Partners from 11 European Countries
- Involvement of 19 first class Smart Grid labs
- 10 Mio Euro Funding from the EC (~1000 Person Month)



Involved ERIGrid partners and labs

The integrated Pan-European ERIGrid Research Infrastructure Approach



Coordinator Contact

Privatdoz. Dipl.-Ing. Dr. THOMAS STRASSER

Senior Scientist

Electric Energy Systems – Center for Energy

AIT Austrian Institute of Technology

Giefinggasse 2, 1210 Vienna, Austria

Phone +43(0) 50550-6279

thomas.strasser@ait.ac.at | <http://www.ait.ac.at>

<http://www.ait.ac.at/profile/detail/Strasser-Thomas>

<https://orcid.org/0000-0002-6415-766X>

