

# ENTSO-E R&D activities

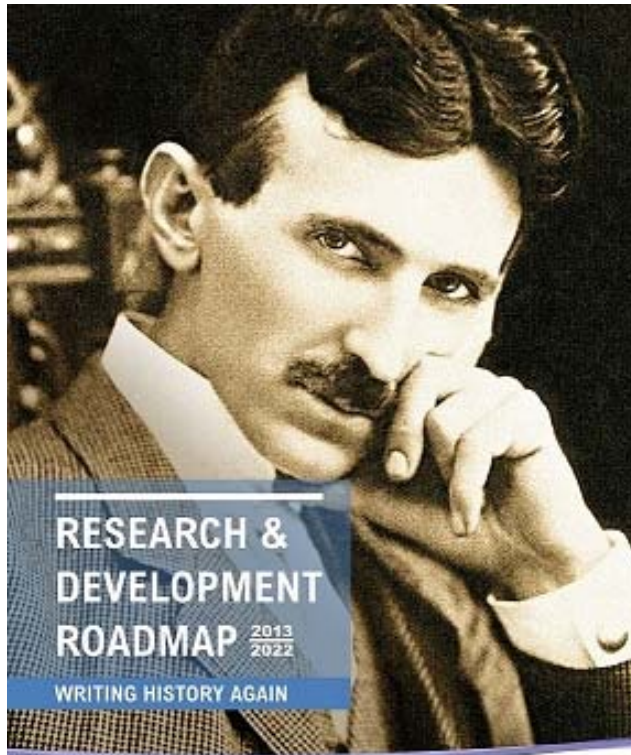
iTesla & Umbrella workshop  
Innovative Tools for the Future Coordinated Operation of  
the Pan-European Electricity Transmission System  
14 January 2014, Brussels

Chavdar Ivanov, PhD

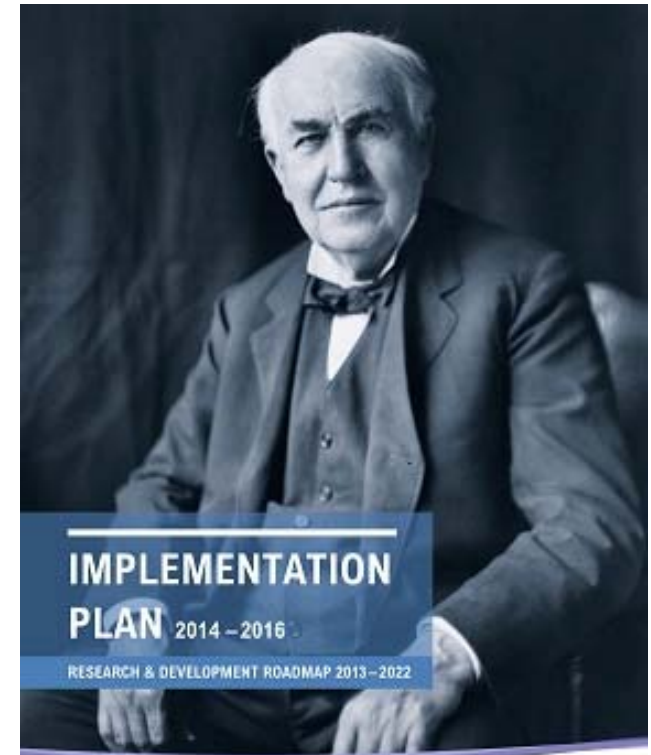
Research and Development Senior Advisor, ENTSO-E



# ENTSO-E R&D Roadmap and R&D Implementation Plan



European Network of  
Transmission System Operators  
for Electricity **entsoe**

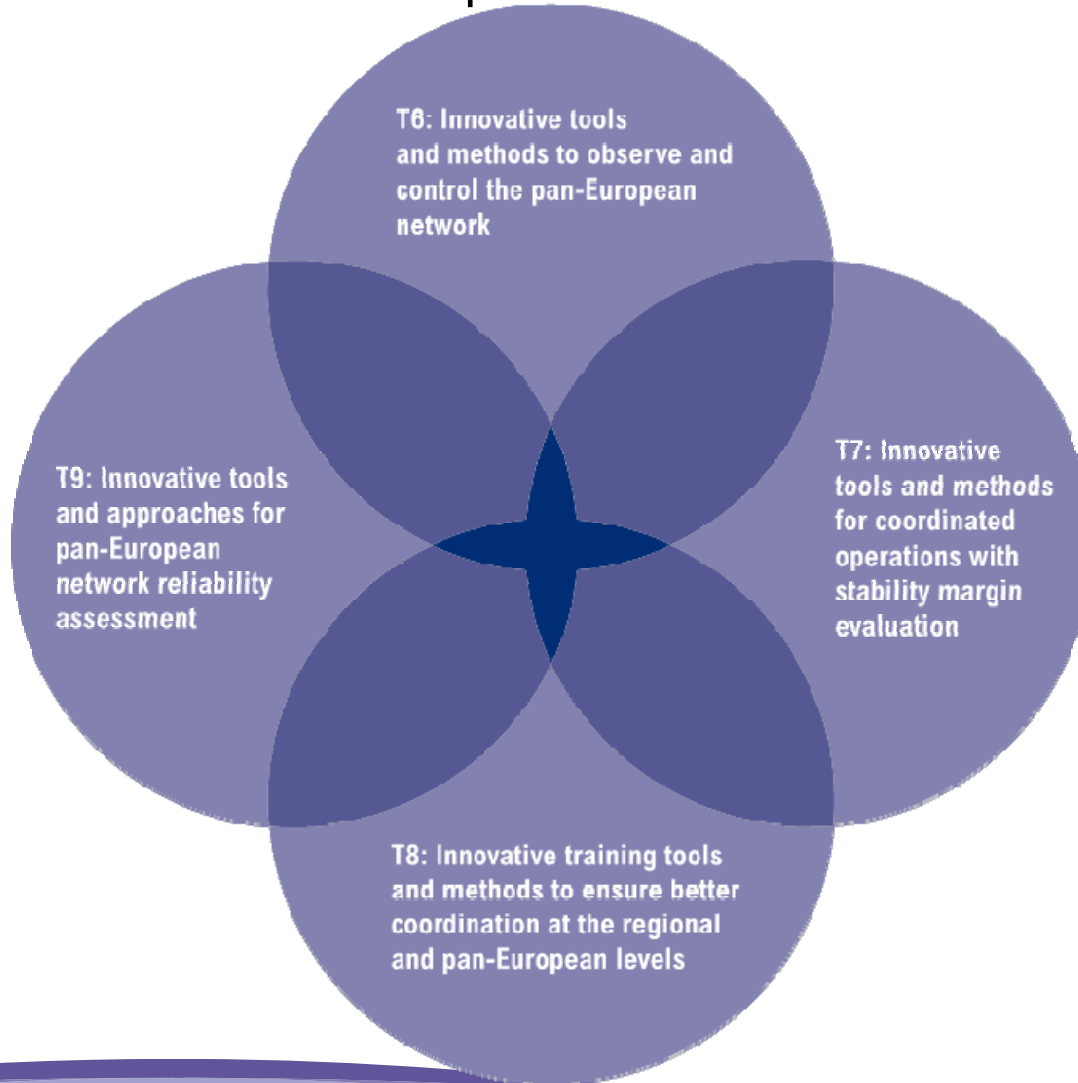


European Network of  
Transmission System Operators  
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**All basis for the EC Integrated Roadmap and EEGI R&I Roadmap**



## ➤ Cluster 3: Network Operation





# Importance of the work and deliverables – role of R&D projects

- **New challenges for system operation**
- **Network codes requirements**
  - **CACM : Capacity Allocation and Congestion Management**
  - **FCA : Forward Capacity Allocation**
  - **OS : Operational Security**
  - **OPS : Operational Planning & Scheduling**
- **New standards put in place, e.g.**
  - **ENTSO-E Common Grid Model Exchange Standard (based on IEC CIM16)**
  - **IEC wind turbines/plants modelling**
  - **IEEE excitation systems modelling standard – 421.5**

**R&D Projects have to look forward demonstrating and/or developing new solutions. Based on this providing feedback to current business processes.**



## **InnoGrid2020+**

### **The European transmission and distribution research and demonstration seminar**

Organized by: ENTSO-E, EDSO for Smart Grids  
and the EU-funded GRID+ project  
on 25-26 March 2014, in Brussels

Additional details and link for registration:

<https://www.entsoe.eu/news-events/events/3rd-innogrid2020-25-26-march-2014/>