

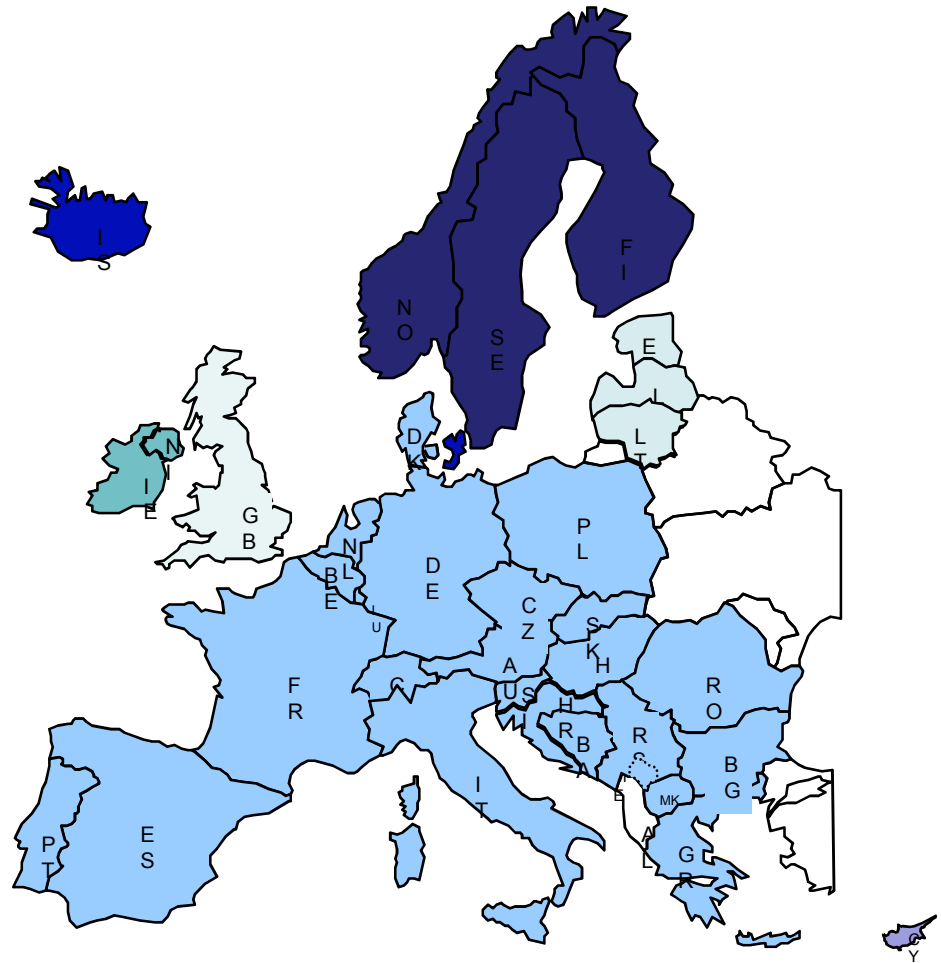


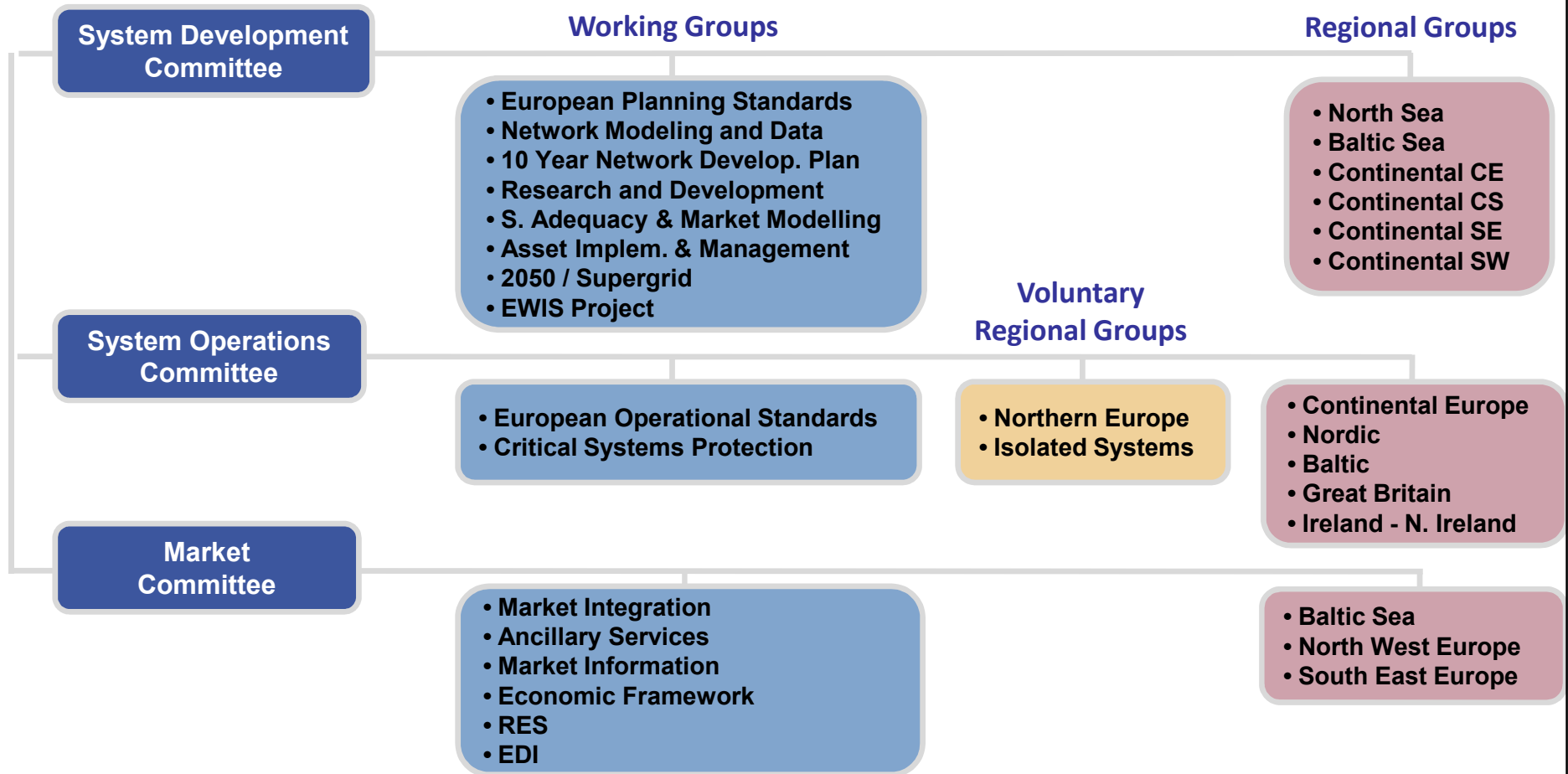
entsoe

Reliable Sustainable Connected

**Research & Development**  
**Terje Gjengedal**

- Fully operational since 1 July 2009
- Represents 42 TSOs from 34 countries
  - **525** million citizens served.
  - **828** GW generation.
  - **305.000** km of transmission lines managed by the TSOs.
  - **3.400** TWh/year demand.
  - **400** TWh/year exchanges.
- 5 synchronous regions.



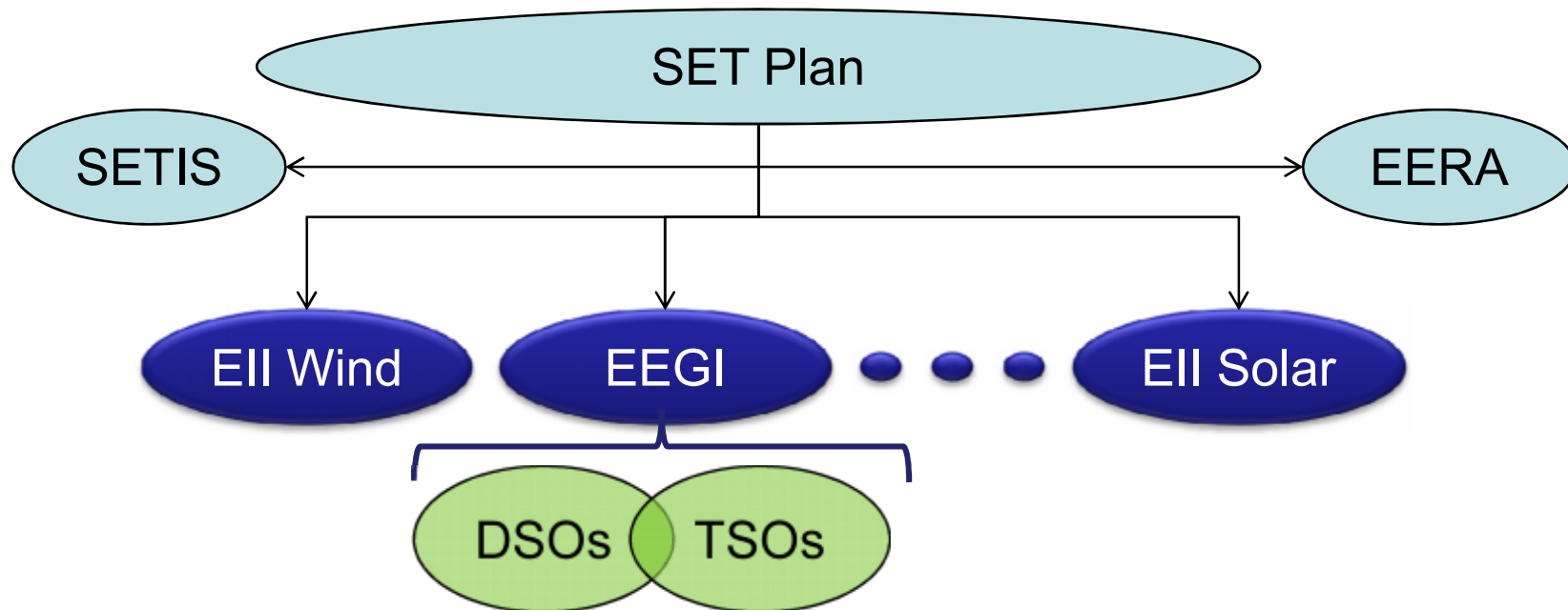


## Why are TSOs collaborating in R&D?

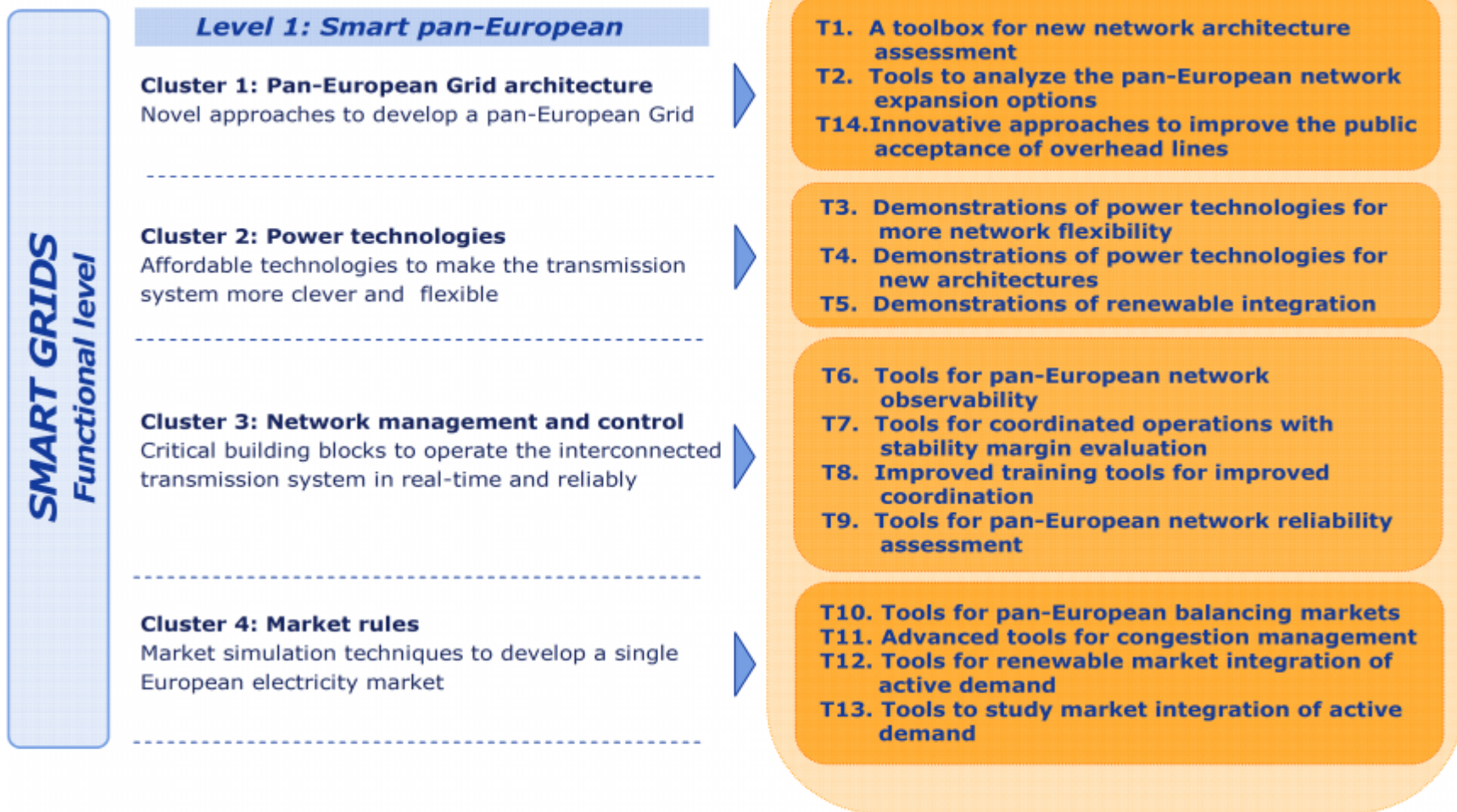
- Required by the 3<sup>rd</sup> Energy Package both in Directive EC/72/09 and in Regulation 714/09,
    - ↳ ENTSO-E shall adopt a R&D plan for common network operation.
  - Needed in order to find efficient solutions to face the new challenge of replacement aged assets and of integration renewable resources.
- TSOs have recognized the importance for the coordination of R&D activities in Europe.

## Which is the framework of this collaboration?

In the context of the SET Plan **E**uropean **E**lectricity **G**rid **I**nitiative (**EEGI**) as a common platform for Industry, Grid Operators, Administrations and other relevant stakeholders.



## SMART GRIDS MODEL



## Focus now:

- Define projects and establish consortiums under FP7
- TSO's want to take a lead role
  
- Increase the visibility and role of R&D by a new RDC
- Strong cooperation with EC