

PLAN.
INNOVATE.
ENGAGE.



ETIP SNET

EUROPEAN
TECHNOLOGY AND
INNOVATION
PLATFORM

SMART
NETWORKS FOR
ENERGY
TRANSITION

Handing over to ETIP SNET: Plans for the preparation of R&I activities within the scope of the ETIP

Konstantin Staschus, Chair of the ETIP SNET

From a focus on electricity to a focus on the energy system



- To transmit and distribute up to 35% of electricity from RES by 2020 and a completely decarbonized **electricity production** by 2050
- To integrate national networks into a market-based, truly pan-European network
- To anticipate new developments such as the **electrification of transport**;
- To substantially reduce CAPEX and OPEX for the networks while fulfilling the objectives of a high-quality, low-carbon, pan-European, market based **electricity system**



- To integrate **energy storage** into grid research and innovation activities, both at electricity transmission and distribution levels



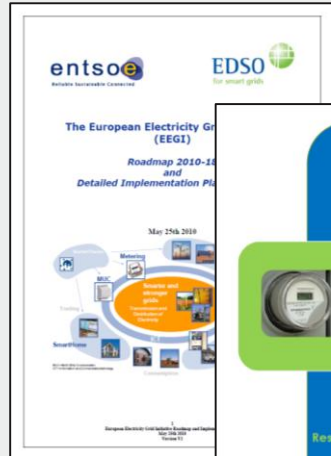
- To guide R&I activities to support Europe's **energy transition**
- To elaborate a vision and an R&I roadmap for **smart networks, storage and other sources of flexibility, and integrated energy systems**, engaging all stakeholders
- To look at **customer participation** and the impact of **digitisation**



From a focus on electricity to a focus on the energy system



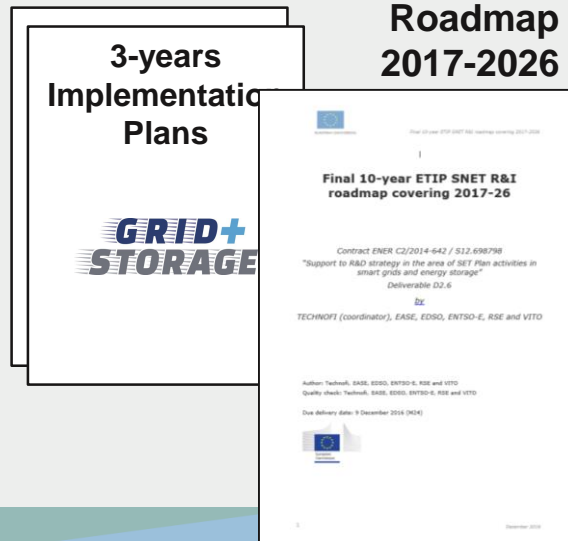
Roadmap
2010-2018



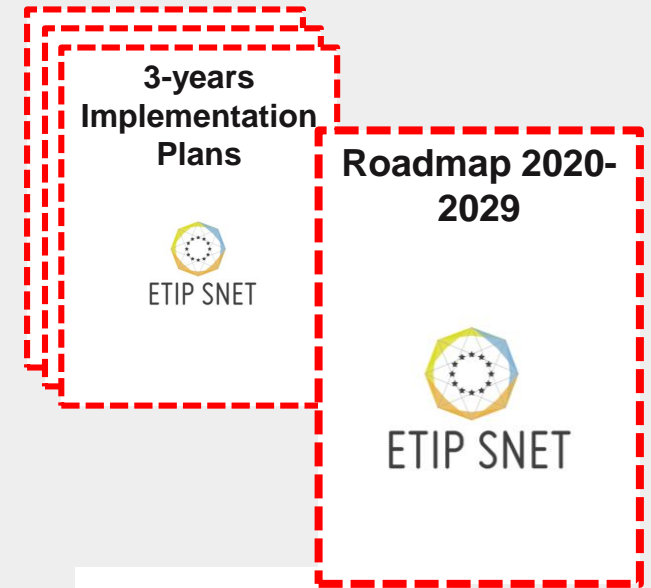
Roadmap
2013-2022



Roadmap
2017-2026



*Endorsement
of the
roadmap
planned on 9
December
2016*

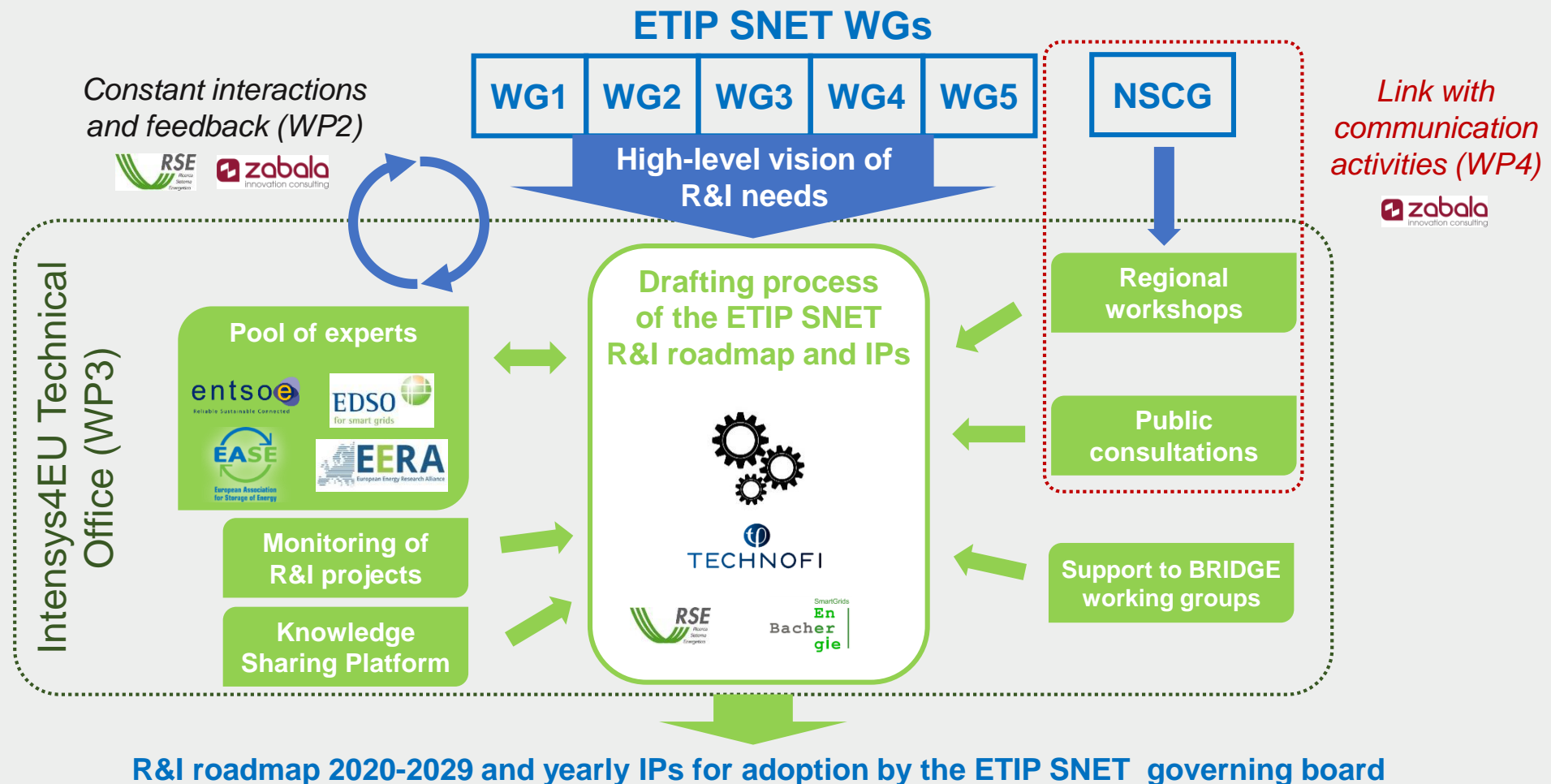


Structure of the ETIP SNET

- Working Groups set up to ensure the **involvement** and **contribution** of **all the stakeholders** of the **energy system**
- Aim of the WGs: to provide **vision**, **inputs**, **guidance** and **continuous feedback** for the development of the integrated R&I Roadmap
 - WG1: Reliable, economic and efficient smart grid system
 - WG2: Storage technologies and sector interfaces
 - WG3: Flexible Generation and integration of new functionalities of the Renewable Energies
 - WG4: Digitalisation of the electricity system and Customer participation
 - WG5: Innovation implementation in the business environment
 - WG6: National Stakeholders Coordination Group

Domain	Working groups			
System	WG1: Reliable, economic and efficient smart grid system	WG2: Storage technologies and sector interfaces	WG3: Flexible Generation and integration of new functionalities of the Renewable Energies	WG4: Digitalisation of the electricity system and Customer participation
Technology				
Market				
Society				

Intensys4EU: a CSA selected by the EC to support the work of the ETIP



ETIP SNET objectives for 2017

1. Launch of WGs activities
2. Support development of the SET Plan Action 4.1
Implementation Plans development
3. Develop the R&I implementation plan 2018-2020
4. Set itself as reference body for R&I in Europe
5. Strengthen link to national level

1. Launch of WGs activities

- Recruitment of WGs expert until mid Jan 2017
- Launch of first WGs meetings by end Jan 2017
- Development of ad-hoc recommendations and reports per WGs
- Set the basis for an enhanced ETIP SNET R&I Roadmap 2020-2029 (Scenario 2030)

2. Support development of the SET Plan Action 4.1 Implementation Plans

- Select number of ETIP SNET repres. in Temporary WG to support National representatives
- Provide feed-back on SET Plan Action 4 IPs
- Organise a workshop with key stakeholders on Action 4 in March-April 2017

3. Develop the R&I implementation plan 2018-2020

- Select topics within WGs from the roadmap 2017-2026 which
 - Have not been addressed yet (or only partially addressed) by past or ongoing projects at EU or national levels (monitoring activity)
 - Have to be tackled within the next 3 years based on the system needs (urgency, timeliness for availability, system impact)

4. Set itself as reference body for R&I in Europe

- Disseminate ETIP SNET activities in selected occasions in Europe at main stakeholders' events
- Launch promotion campaign (Online & Media)
- Become visible at international level

5. Strengthen link with National level

- Launch National Stakeholders Coordination Group
- Organise 6 regional workshops to monitor national projects
- Organisation of quarterly webinars to exchange best practices on national actions
- Consult national level on R&I Implementation Plan

Conclusion

- Unique and timely opportunity to look at the transition of the entire energy system holistically
- Central role of the European power grid to progress towards an energy system approach
- Effective new setup of the ETIP SNET
 - Cooperative spirit in the Governing Board
 - Working Groups fairly representing the energy system stakeholders