

EERA e3s and Energy Consumers

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www.eera-set.eu



EERA is an official part of
the EU SET-Plan.

<http://setis.ec.europa.eu/>

What is EERA?

European Energy Research Alliance

- **Public research alliance**
- **Cornerstone of the Strategic Energy Technology Plan (SET-Plan) and Integrated Roadmap**
- **Brings together 250 research organisations**
- **Works together in 15 Joint Programmes**
- **Collaborates with European Industry**
- **Aligns national research**
- **Global Outreach**





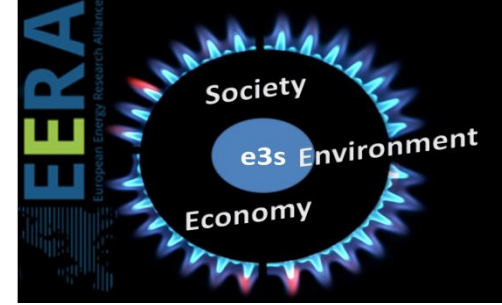
What is e3s?

Economic, Environmental and Social Impacts of Energy Policies and Technologies

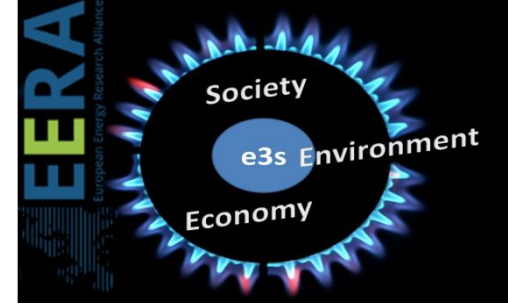
■ EERA e3s Joint Programme (JP)

Motivation:

- Europe has adopted ambitious energy policy objectives to achieve a low carbon world by 2050
- Re-orientation away from specific technological solutions and towards 'system' transformation.
- Enhanced policy advice is necessary to understand the complex interaction of a variety of socio-technical elements, such as consumer behaviour and acceptance, markets and technologies



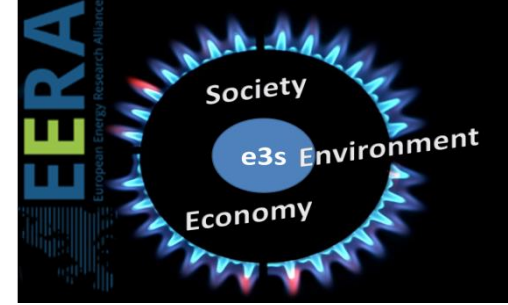
- **Relatively new EERA Joint Programme**
- **Initiated by TECNALIA in 2013**
- **Goal: *Promote cooperation in social, economic and environmental aspects, thereby contributing to the market success of emerging energy technologies***
- **e3s now has 48 members, mainly universities**
- **e3s has extended its geographical coverage with the incorporation of institutes from Cyprus and Turkey**



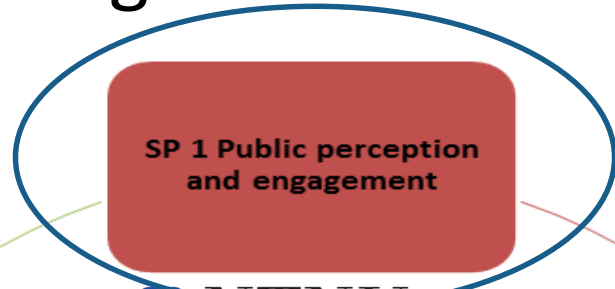
- **e3s organized a series of workshops in several European locations to discuss “hot topics” such as comparative impact assessments of the 2050 roadmap or the criticality of raw materials for the energy sector**
- **e3s is now entering a new phase, with a more formal structure and processes, e.g., joint proposal preparation**



e3s Subprogramme Organization



tecnalia
Coordinator

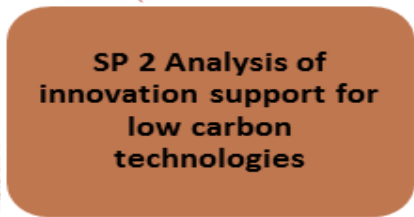


 **NTNU**
Norwegian University of
Science and Technology



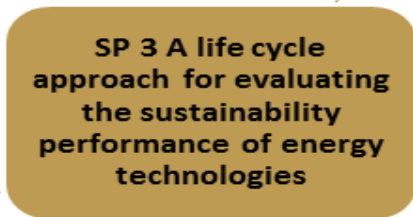
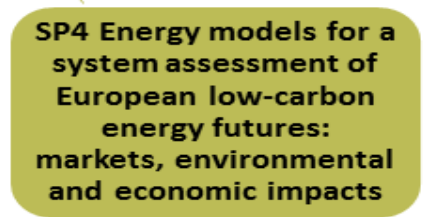



BERA
Belgian Energy Research Alliance



Low Carbon Roadmap 2050

ENEA



Ciemat

SP 1 Public engagement and innovation

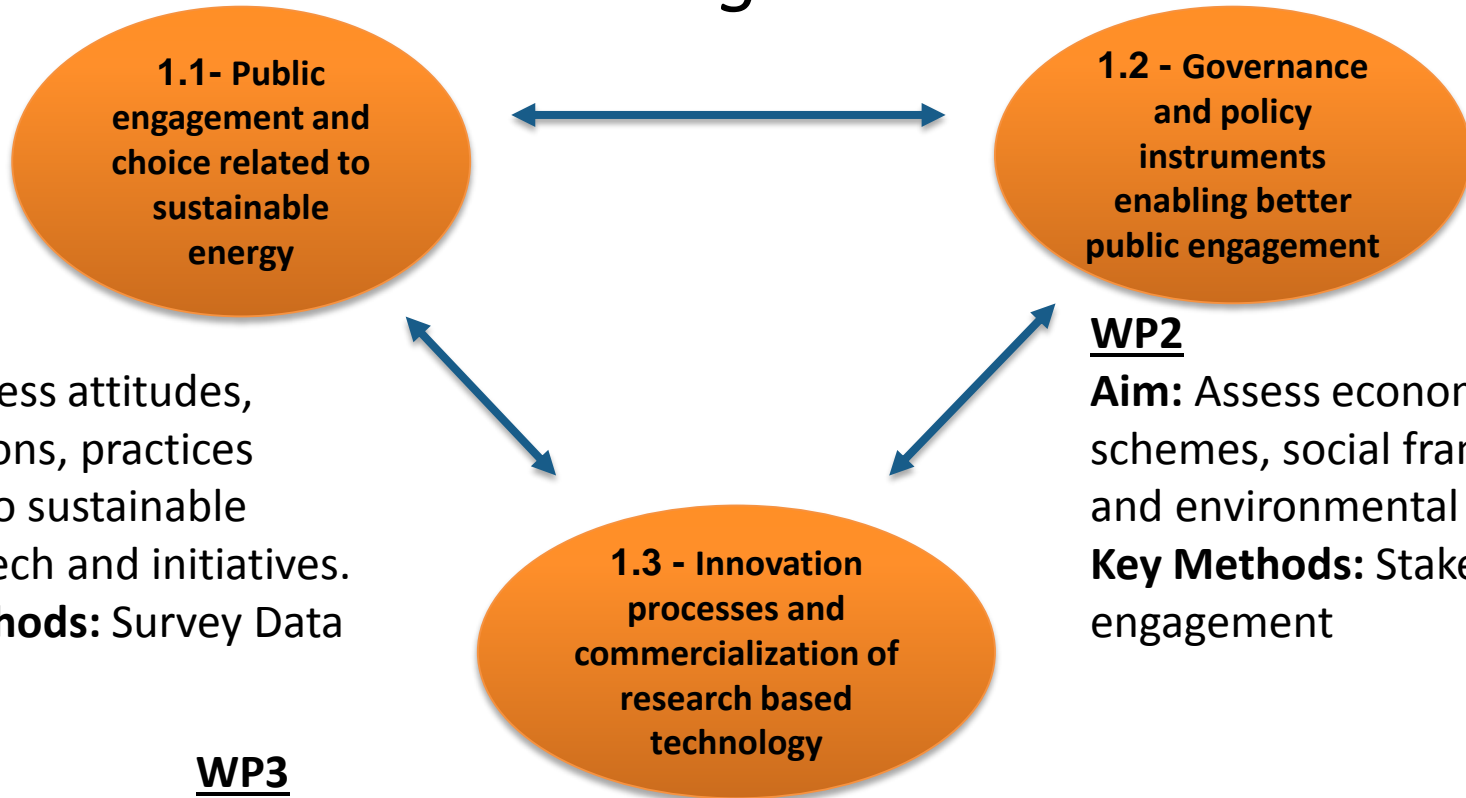
Objective:

- Provide a comprehensive and nuanced understanding of public involvement with environmentally friendly energy, including new renewable energy and carbon sequestration.
- Suggest effective strategies and tools of dialogue, brokering and collaboration between policy makers, industrial stakeholder and the public.



SP 1 Public engagement and innovation

Work Package Structure:



WP1

Aim: Assess attitudes, perceptions, practices related to sustainable energy tech and initiatives.

Key Methods: Survey Data

WP3

Aim: Understand factors that influence commercialization, innovation, and tech transfer

Key Methods: Social innovation and entrepreneurship, experimental knowledge transfer processes

WP2

Aim: Assess economic schemes, social framework, and environmental regulation

Key Methods: Stakeholder engagement

SP 1 Public engagement and innovation

Sample tasks:

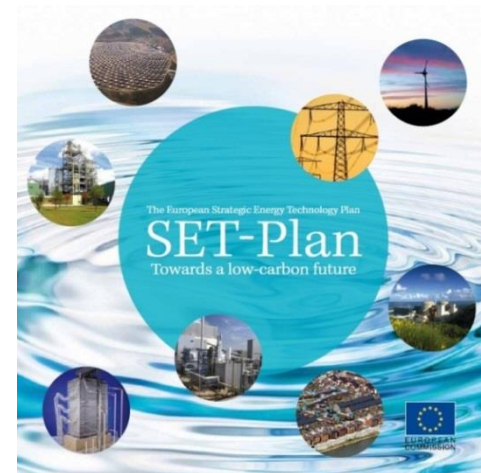
- Create workshops to organize research ideas and draft research proposals
- Draft position papers (current research summaries)
 - Relevance to EU
 - Define the state of the art
 - Use this as the starting point for a proposal
- Contribute to SET plan



SET-Plan (European Commission)

- **Declaration on Strategic Targets in the context of an Initiative for Smart solutions for energy consumers**

- **Move beyond just smart appliances**
 - self-learning smart devices
 - ICT-based plug-and-play consumer energy management solutions, allowing for RES home integration
 - interface standards
 - electricity price forecasting tools
 - measure consumer benefits
 - market penetration of sensors (cost reduction)





Thank you!

