PLAN.
INNOVATE.
ENGAGE.

ETIP SNET
EUROPEAN TECHNOLOGY AND INNOVATION PLATFORM
SMART NETWORKS FOR ENERGY TRANSITION

ETIP SNET (European Technology and Innovation Platform for Smart Networks for Energy Transition): for an innovative and successful European energy transition

Third ETIP SNET regional workshop, Brussels, 11 October 2018

Norela Constantinescu

Outline

- Presentation of the ETIP SNET
- Presentation of the ETIP SNET Vision 2050
- Purpose of the workshop
- Presentation of the Agenda of the workshop

Outline

- **Presentation of the ETIP SNET**
- Presentation of the ETIP SNET Vision 2050
- Purpose of the workshop
- Presentation of the Agenda of the workshop

From a fragmented EU advisory to an integrated framework

EEGI
EUROPEAN ELECTRICITY GRID INITIATIVE

SMARTGRIDS

GRID+

GRID+ STORAGE

A new focus on innovation / implementation and on sector coupling

2016

ETIP SNET
EUROPEAN TECHNOLOGY AND INNOVATION PLATFORM
SMART NETWORKS FOR ENERGY TRANSITION

Main objective is to address the innovation challenges in **energy system** and **market evolution** necessary for achieving climate protection and **renewables integration** with affordability and security of supply ... beyond smart electricity grids (whole energy system)

ETIP SNET's Missions

- **Set-out a vision for RD&I for Smart Networks for Energy Transition** and engage stakeholders in this vision.
- **Prepare and update the Strategic Research and Innovation Roadmap**.
- Report on the **implementation of RD&I activities at European, national/regional and industrial** levels.
- Provide **input to the SET Plan action 4** which addresses the technical challenges raised by the transformation of the energy system.
- **Identify innovation barriers**, notably related to regulation and financing.
- Develop enhanced knowledge-sharing mechanisms that **help bring RD&I results to deployment**.
- Prepare **consolidated stakeholder views** on Research and Innovation to European Energy Policy initiatives.

ETIP SNET PLAN. INNOVATE. ENGAGE.

ETIP SNET's Stakeholders

- Transmission System Operators (TSOs)
- Distribution System Operators (DSOs)
- National Representatives
- Research & Academia
- Storage (technology and services providers)
- Consumers (aggregated and not aggregated)
- Thermal Generation (flexible)
- Renewable Energy Sources Generation
- ICT, Network and Software providers
- Equipment manufacturers and suppliers (non-ICT)
- Interface to Other Energy Carriers (Heat, Transport, Gas, ...)
- Regulators

ETIP SNET's Organisation

European Commission

Governing Board
(30+ members representing key European stakeholders)

Exco (9 members)

ETIP SNET Secretariat
(Intensys4EU)*

Experts coordination
via Working Groups
(5 permanent WGs)

National stakeholders coordination
(Ministry representatives, funding agencies, regulators, national platforms)

* Intensys4EU is a coordinating consortium formed under the European Commission's Horizon2020 initiative which supports ETIP SNET in delivering RD&I monitoring reports, Roadmaps and implementation plans.

WG1
Reliable, economic and efficient smart grid system

WG2
Storage technologies and sector interfaces

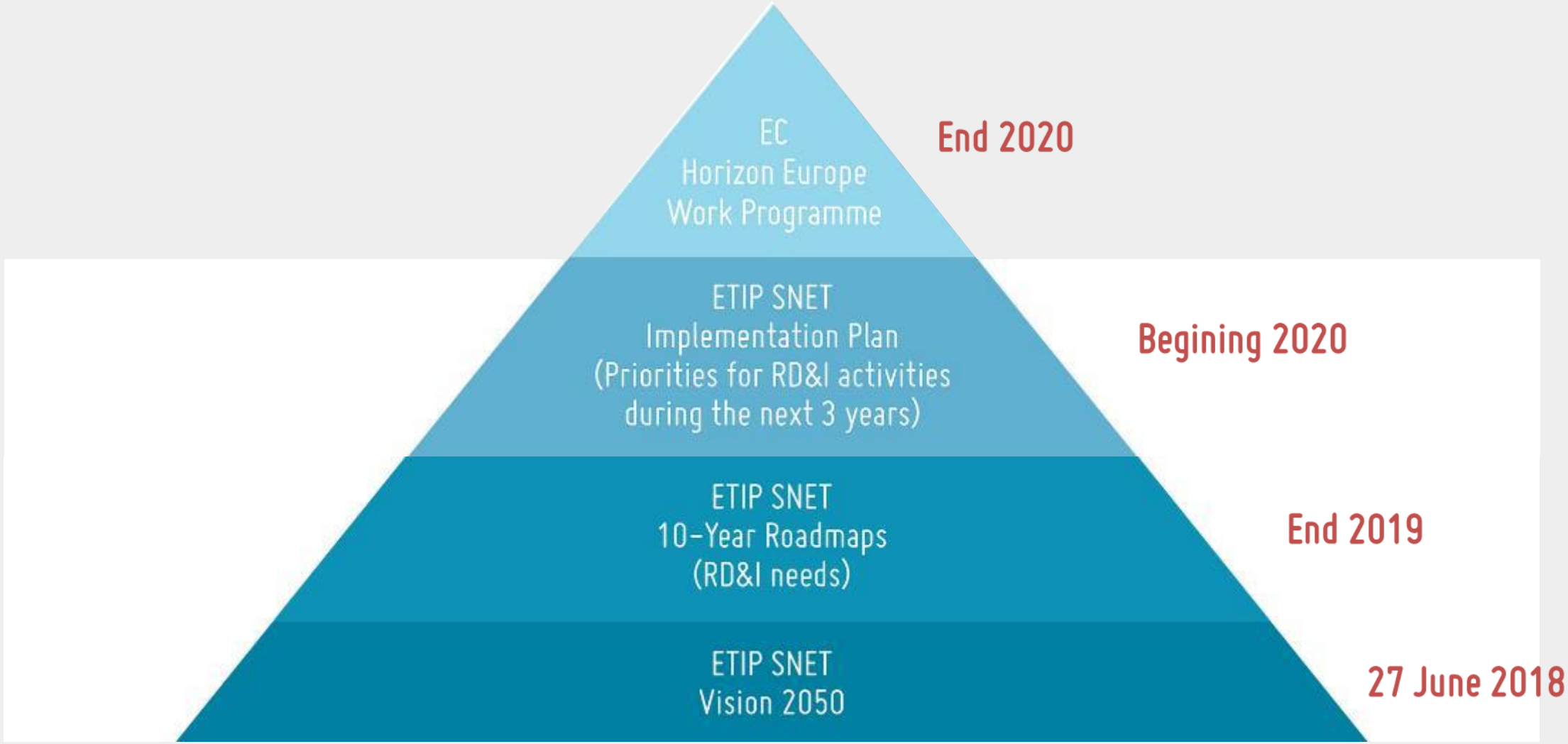
WG3
Flexible Generation

WG4
Digitisation of the electricity system and customer participation

WG5
Innovation implementation in the business environment

NSCG
National Stakeholders Coordination Group

ETIP SNET Process



Outline

- Presentation of the ETIP SNET
- **Presentation of the ETIP SNET Vision 2050**
- Purpose of the workshop
- Presentation of the Agenda of the workshop

ETIP SNET PLAN. INNOVATE. ENGAGE.

2050 Vision Goal

A low-carbon, secure, reliable, resilient, accessible, cost-efficient, and market-based **pan-European integrated energy system**

supplying the whole economy and paving the way for a **fully CO2-neutral and circular economy by the year 2050**,

while **maintaining and extending global European industrial leadership** in energy systems during the energy transition.

VISION 2050

A SYSTEM OF SYSTEMS

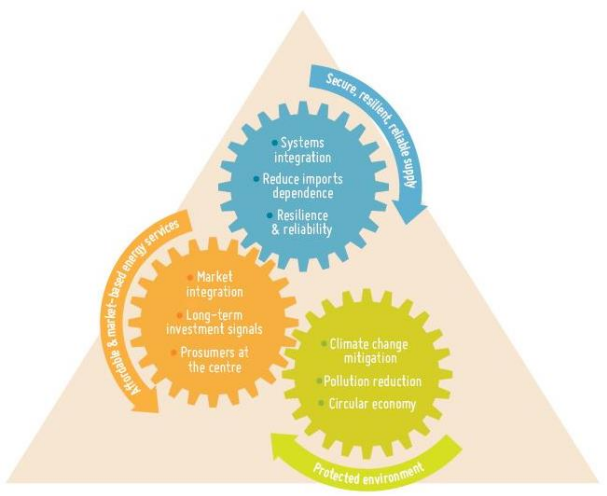
The ETIP SNET Vision 2050

ETIP SNET PLAN. INNOVATE. ENGAGE.

Goal 2050

Energy systems for European society

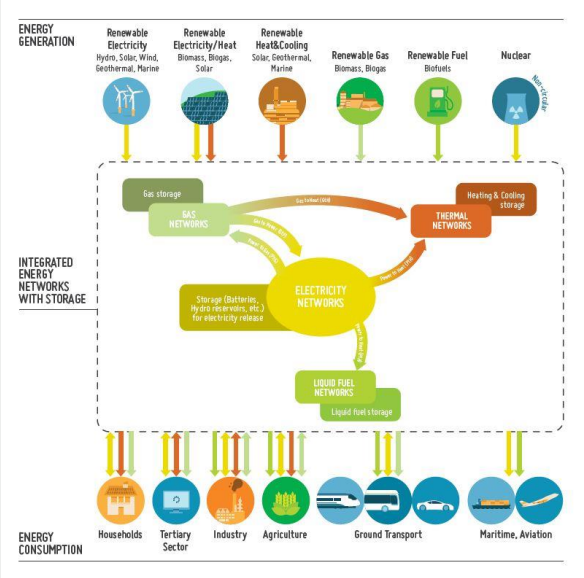
- Three pillars: environment, markets, security of supply
- The Vision statement



The transition

Towards integrated energy systems

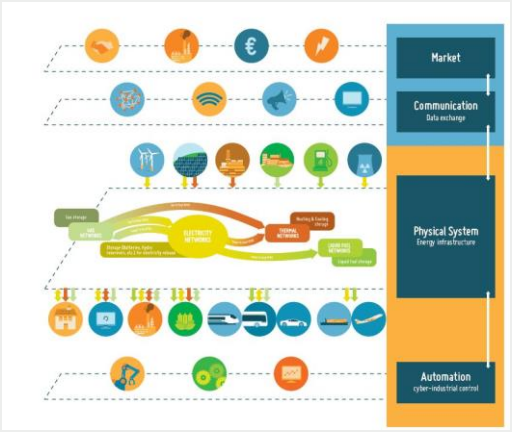
- Today … Tomorrow
- Challenges and opportunities
- Storage and conversion transition



RD&I Needs

Building Blocks

- Efficient organization
- Enabling energy markets
- Digitalization
- Infrastructure for integration



RD&I Environment

Framework

- European Industry
- Managing Economic Disruption
- Strategic Approach to RD&I

Outline

- Presentation of the ETIP SNET
- Presentation of the ETIP SNET Vision 2050
- **Purpose of the workshop**
- Presentation of the Agenda of the workshop

The regional workshops

Identity R&I topics needed for the future, lessons learned and deployment perspectives (focus on findings of significant EU added value and addressing energy system integration issues) to support the updating process of the ETIP SNET roadmap

- **South eastern region: Croatia 19-20 September (Zagreb university)**
- **Northern region: Finland 3-4 October (VTT)**
- **Central region: Belgium 11-12 October (Flux 50, service publique de Wallonie, cluster tweed)**
- **Western region: Spain 22-23 November (CIRCE)**

http://www.etip-snet.eu/regional-workshops/

Contribution expected from the workshop participants

- To foster networking and exchange of positive and negative experiences between projects at EU and national/regional levels.
- To help the ETIP SNET detect national projects with strong EU added value and feed the monitoring process to appraise the coverage of the existing knowledge.
- To help the ETIP SNET identify the need for further specific R&I activities to be specified in the updated roadmap and next IPs.
- To help the ETIP SNET identify barriers to innovation deployment.
- To inform the ETIP SNET about good practices gained in pilots and demonstration activities (monitoring process).
- To inform the ETIP SNET about the implementation plans for the innovations so as to support knowledge transfer to all stakeholders.

Outline

- Presentation of the ETIP SNET
- Presentation of the ETIP SNET Vision 2050
- Purpose of the workshop
- **Presentation of the Agenda of the workshop**

PLAN.
INNOVATE.
ENGAGE.

ETIP SNET
EUROPEAN TECHNOLOGY AND INNOVATION PLATFORM
SMART NETWORKS FOR ENERGY TRANSITION

Thank you for your attention

More information:

etip-snet.eu

info@etip-snet.eu

@etipsnet

linkedin.com/groups/8208338