

OneNet – One Network for Europe: The Northern Flexibility Market

E-Redes Annual European Project Day
“Real progress along the road to Flexibility”
Panel 2: Flexibility in Action

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May 10th, 2022



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 957739

OneNet Vision

- Create a fully replicable and scalable architecture
- Enable the whole European electrical system to operate as a single system
- Design a variety of markets
- Allow the universal participation of stakeholders (regardless of their physical location – at every level from small consumers to large producers)

Three Pillars



Definition of a **common market design for Europe**



Definition of a **common IT Architecture** and **common IT Interfaces**



Verification of the proposed solutions in large field tests

European consortium

OneNet brings together more than 70 partners

- Including E.DSO and ENTSO-E
- Together with a large set of TSOs and DSOs
- Leading IT companies and
- Renowned research institutions

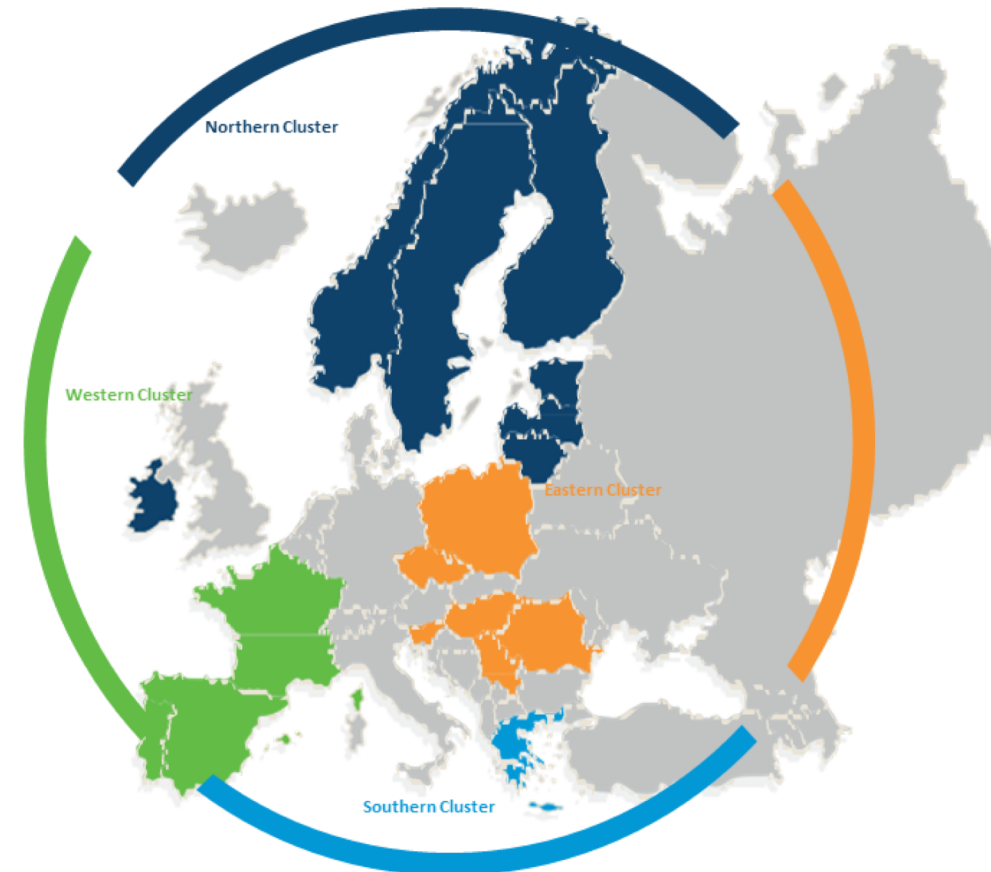
Knowledge base

- Project funded in the last call for **TDO-DSO-Customer** cooperation
- OneNet brings together the **large base of knowledge and technology** developed so far in **H2020 projects** like **CoordiNet** and **INTERFACE**.
- OneNet aims to create a **standardized pan-European system of systems approach** combining existing and new solutions

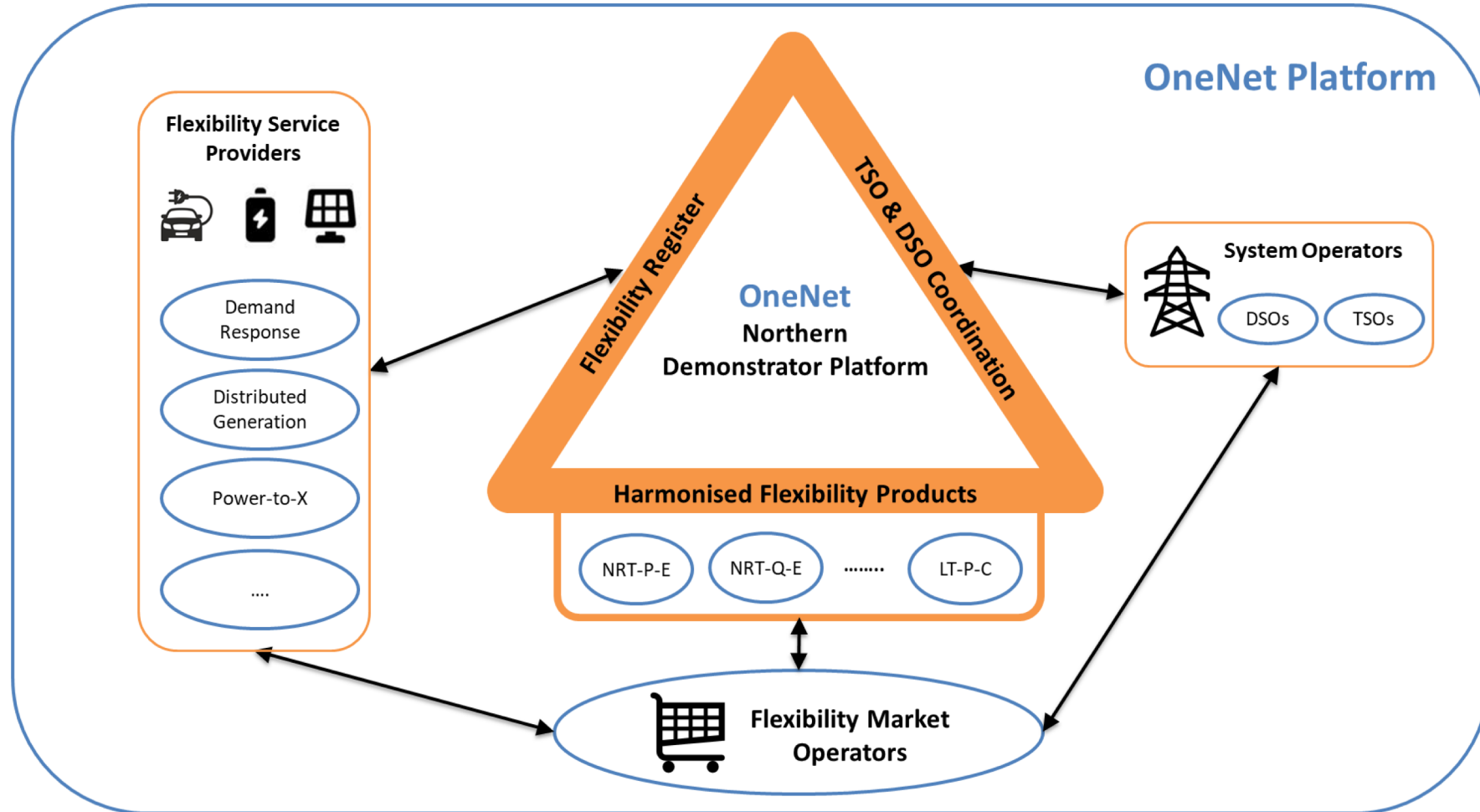


A pan-European system of systems approach:

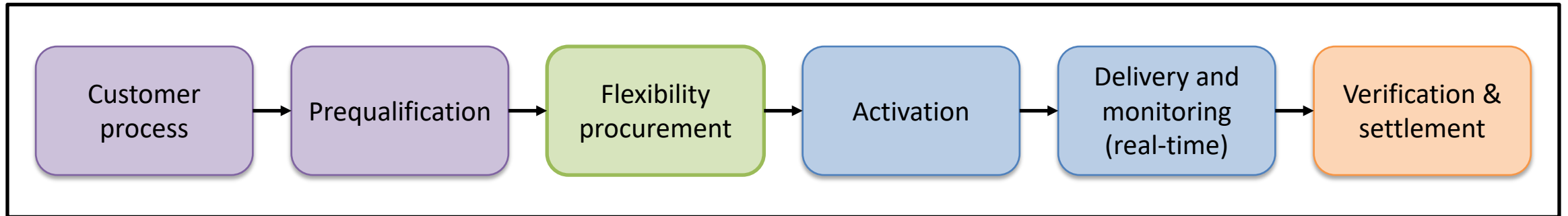
- Bringing together previous knowledge from other H2020 projects;
- Proposing **harmonized products**;
- Developing a **market framework** for the procurement of flexibility;
- Creating **different use cases** according to SOs needs for flexibility and approach to acquire service;
- Developing **OneNet architecture platform** in order to connect all stakeholders.



The Northern Cluster Platform



The Northern Cluster Business Use Case



Preparatory phase:

- Flexibility registration
- Product and grid qualification process
- Grid information

Market phase:

- Market-based procurement
- Joint TSO-DSO market clearing
- Best value stack solution (optimization)
- Constraint selection according to product

Activation phase:

- Request for activation
- Activation confirmation
- Baseline methodology

Settlement phase:

- Metering, trading and activation data
- Remuneration definition
- Invoicing



Thank You

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