



int:net

Interoperability Network for  
the Energy Transition

# The Energy Data Spaces Projects Cluster

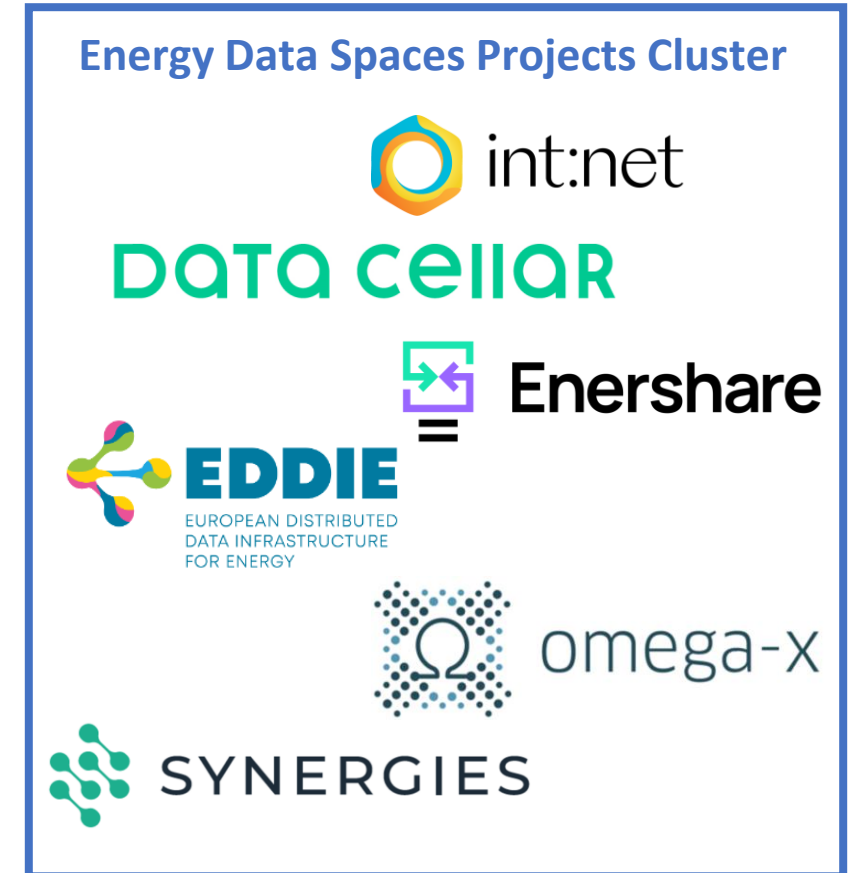
Antonello Monti

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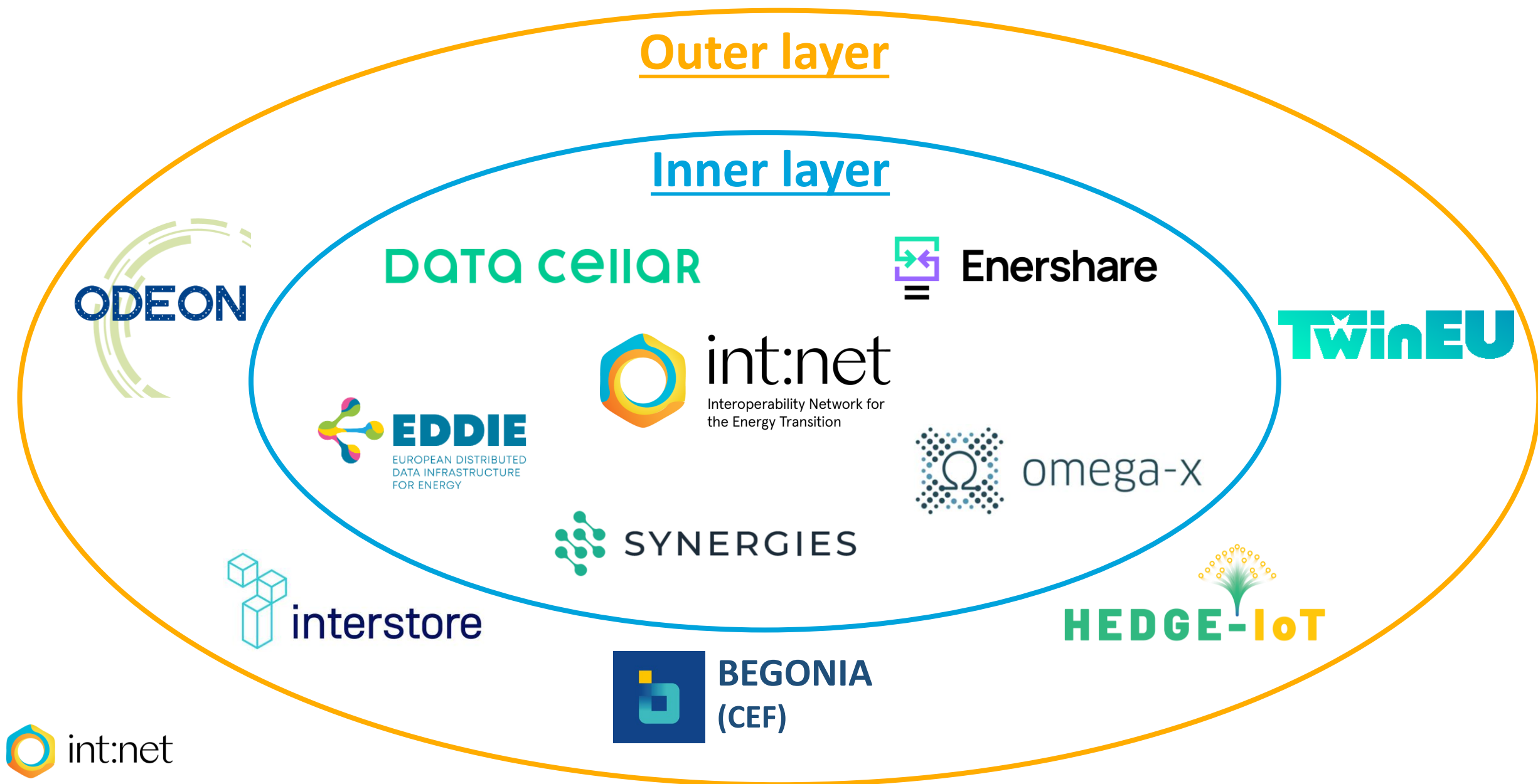
11.03.2024

# The Energy Data Spaces Cluster

- General objective: **prepare the ground for the Common European Energy Data Space (CEEDS).**
- Specific objectives :
  1. **Priority use cases**
  2. **Target data sets** and the respective providers of data.
  3. **Common building blocks**
  4. **Interoperability** requirements
  5. Key **data hubs/platforms** that should be federated.
  6. **Governance arrangements**, involving key stakeholders and investment needs.



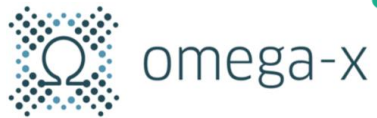
## The two layers of the cluster:





## Energy Data Spaces Projects

**DATA CELLAR**



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Interoperability Network for the Energy Transition



And other domains:



**Energy Interoperability Task Force**

**INTERNATIONAL DATA SPACES ASSOCIATION**

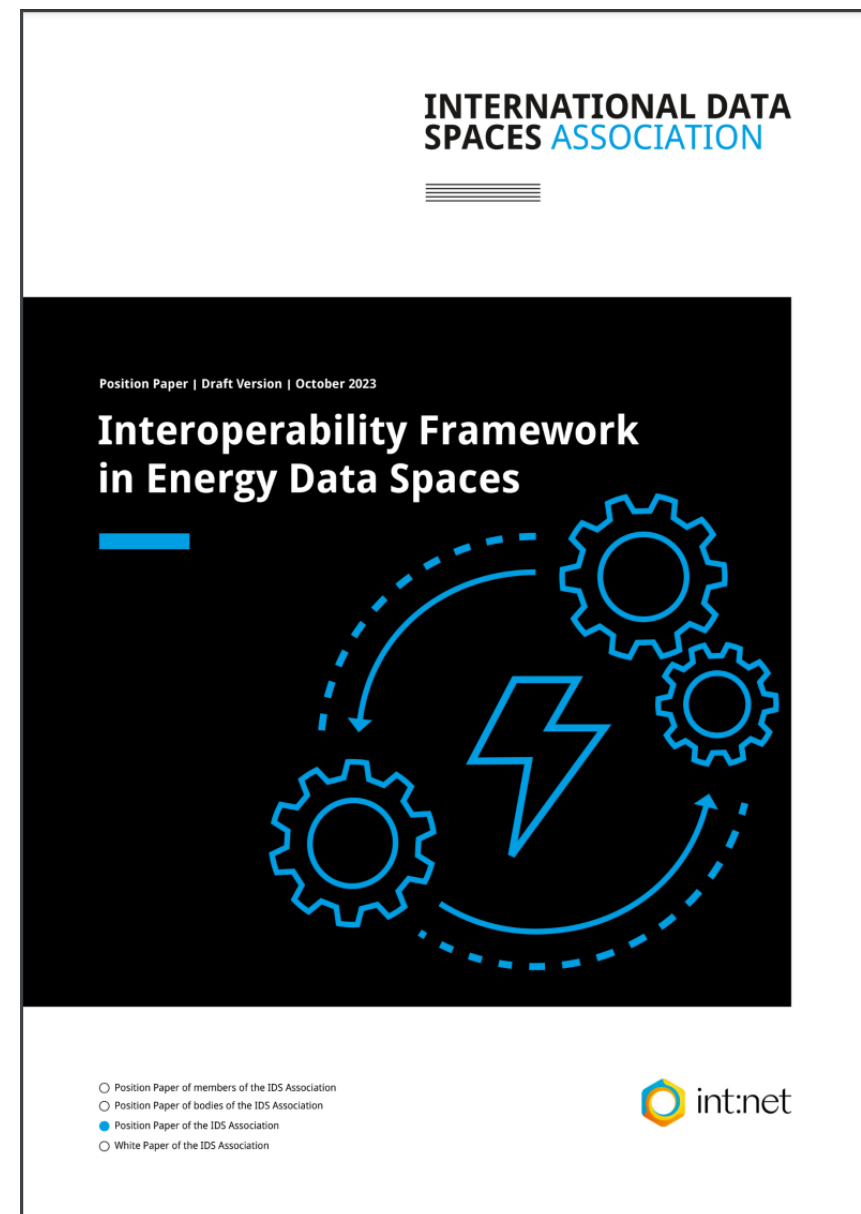
**Data Management WG + other WGs**



**ETIP SNET**  
PLAN. INNOVATE. ENGAGE.

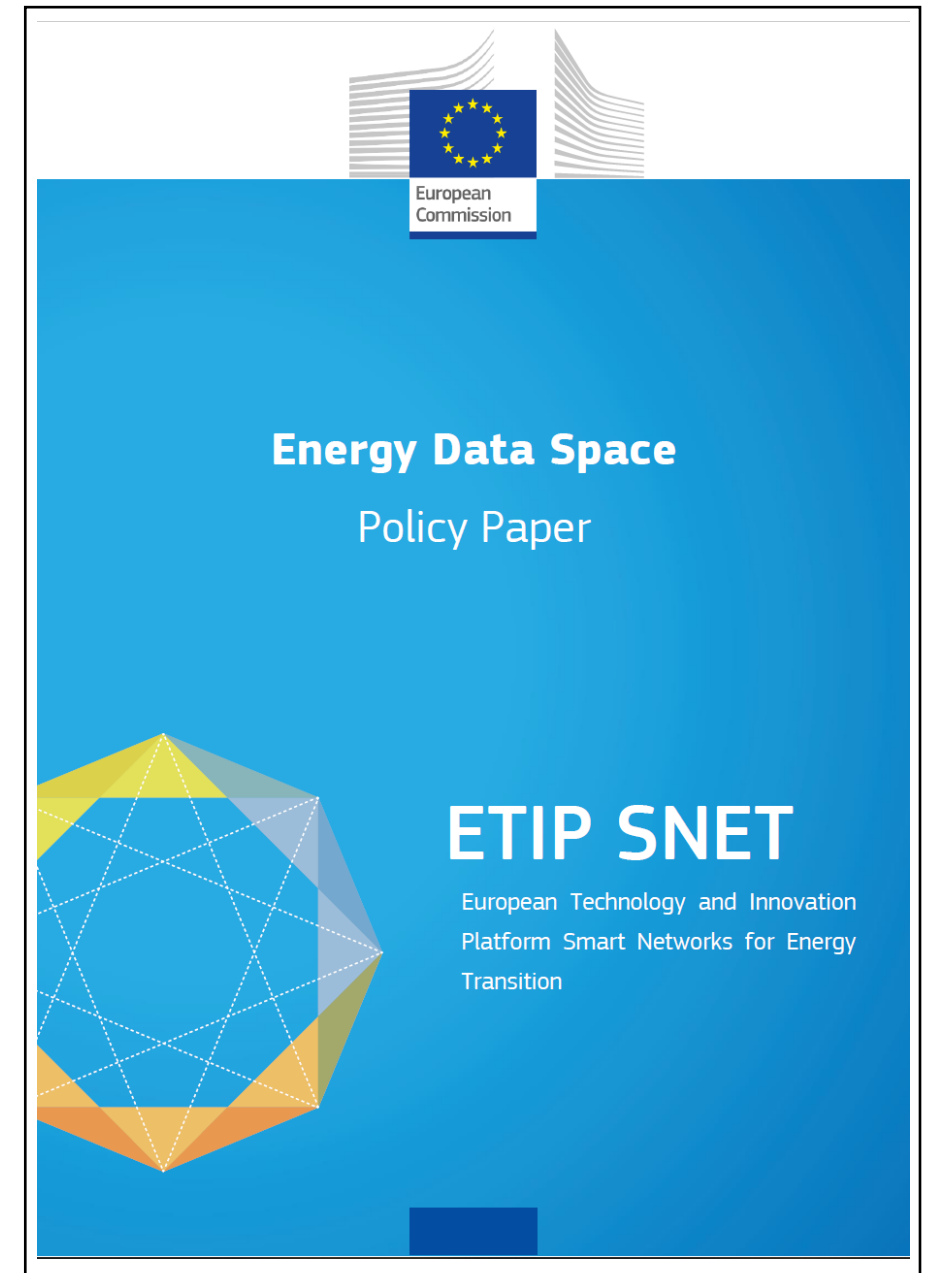
## The Energy Interoperability Task Force

1. Led by IDSA and int:net, involving all the energy data spaces cluster projects
2. The first position paper, “**Energy Interoperability Framework**”, has been published in November 2023
3. Content:
  1. State of the Art and Standards
  2. Data space governance and interoperability
  3. Definition of energy interoperability framework:
    - a) Technical interoperability
    - b) Semantic interoperability
  4. Existing interoperability tools and platforms
  5. Use case needs



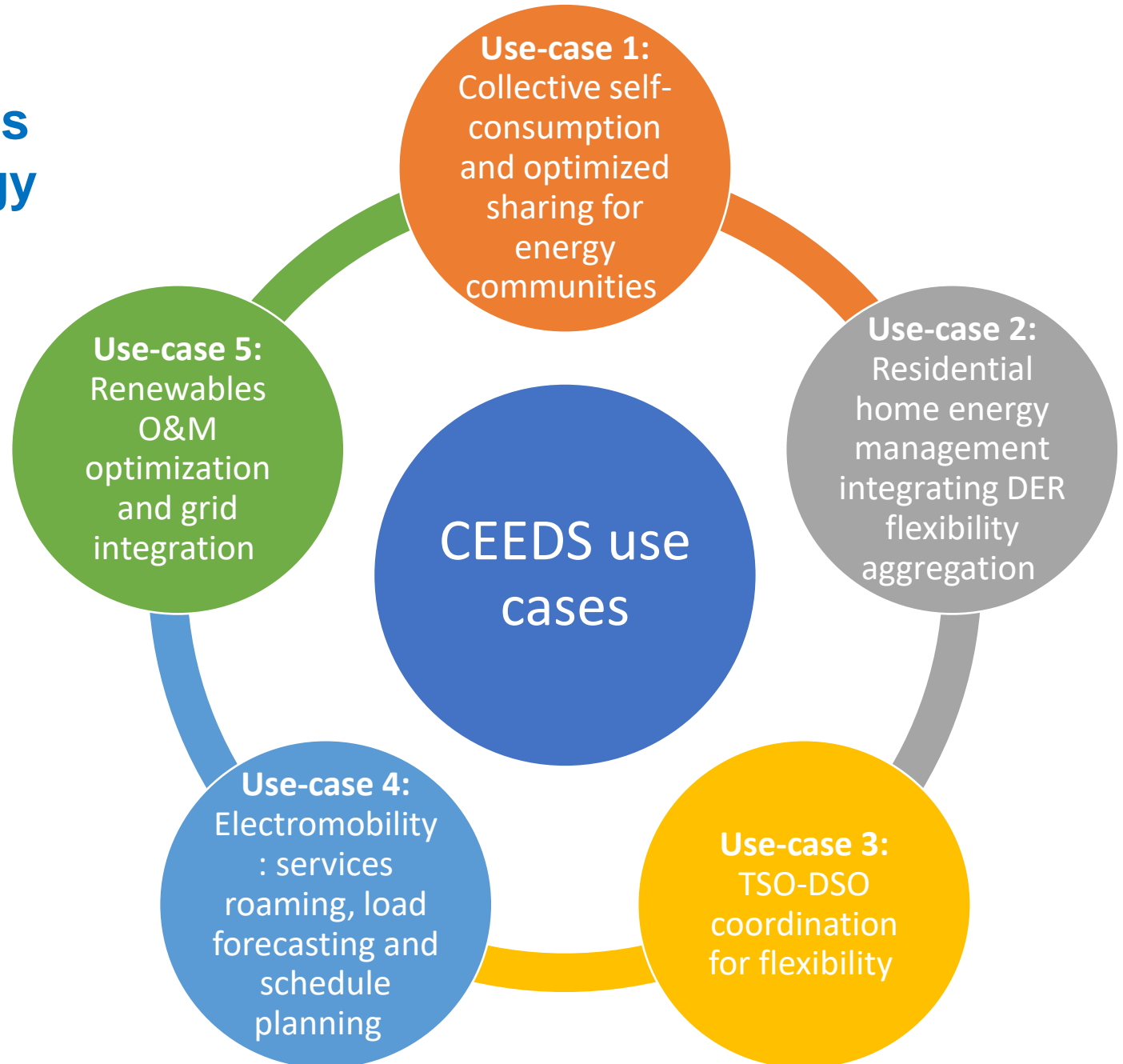
## ETIP SNET policy paper on Energy Data Spaces

1. Led by the ETIP SNET Working Group 4 “Digitalization of the electricity system and customer participation”
2. Scopes of the policy paper are:
  1. To assess the **current status** and **evolution** of energy data spaces
  2. To provide suggestions, in terms of policy and regulation, to facilitate the **large deployments in Europe**
3. Int:net coordinated with the Energy Data Spaces HEU projects to collect the **key challenges, policy and regulation recommendations**
4. Published in December 2023

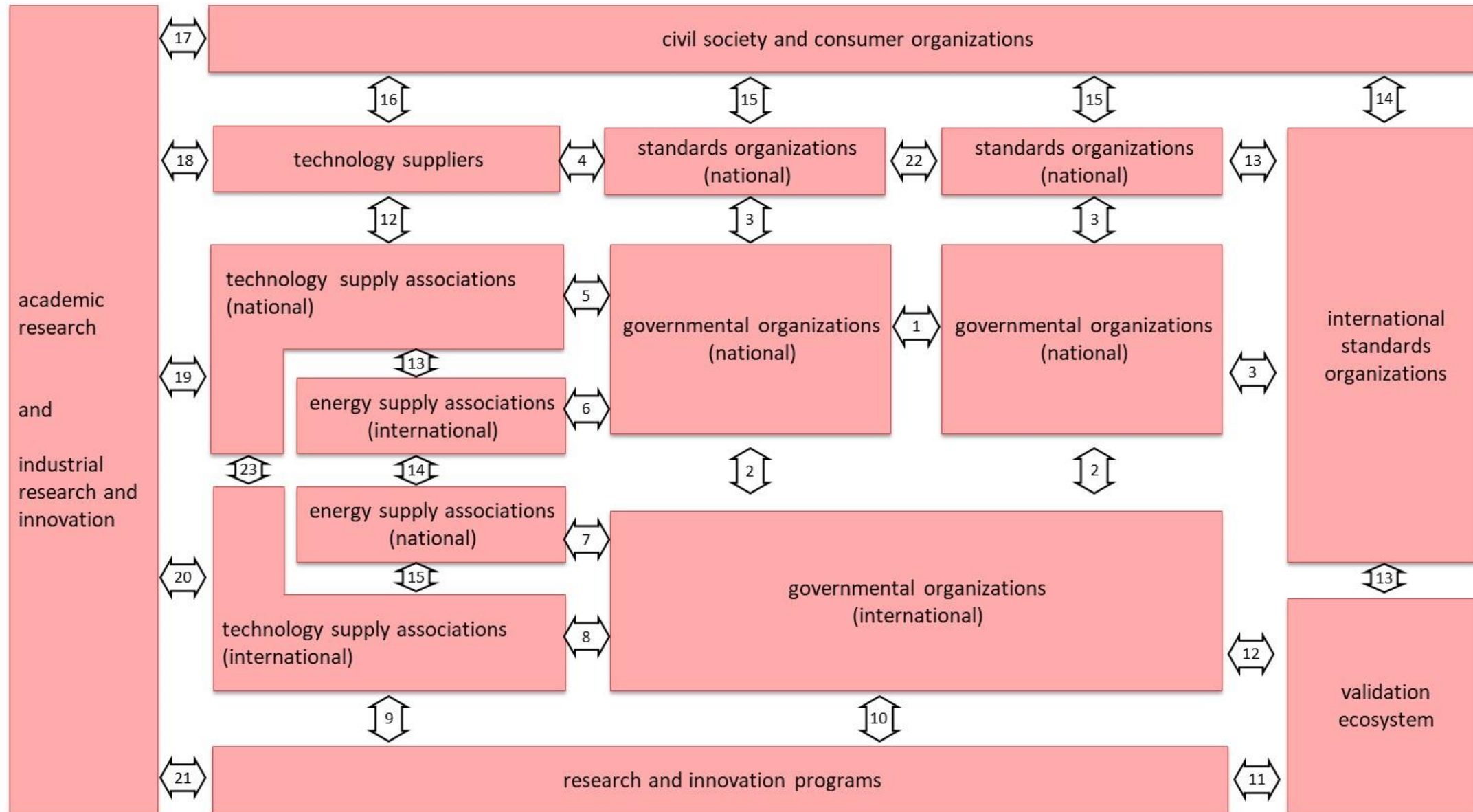


## Identified reference use-cases for Common European Energy Data Space (CEEDS)

- Described with scenarios, actors and data sets
- Presented in the energy data spaces workshop (CINEA) in September 2023

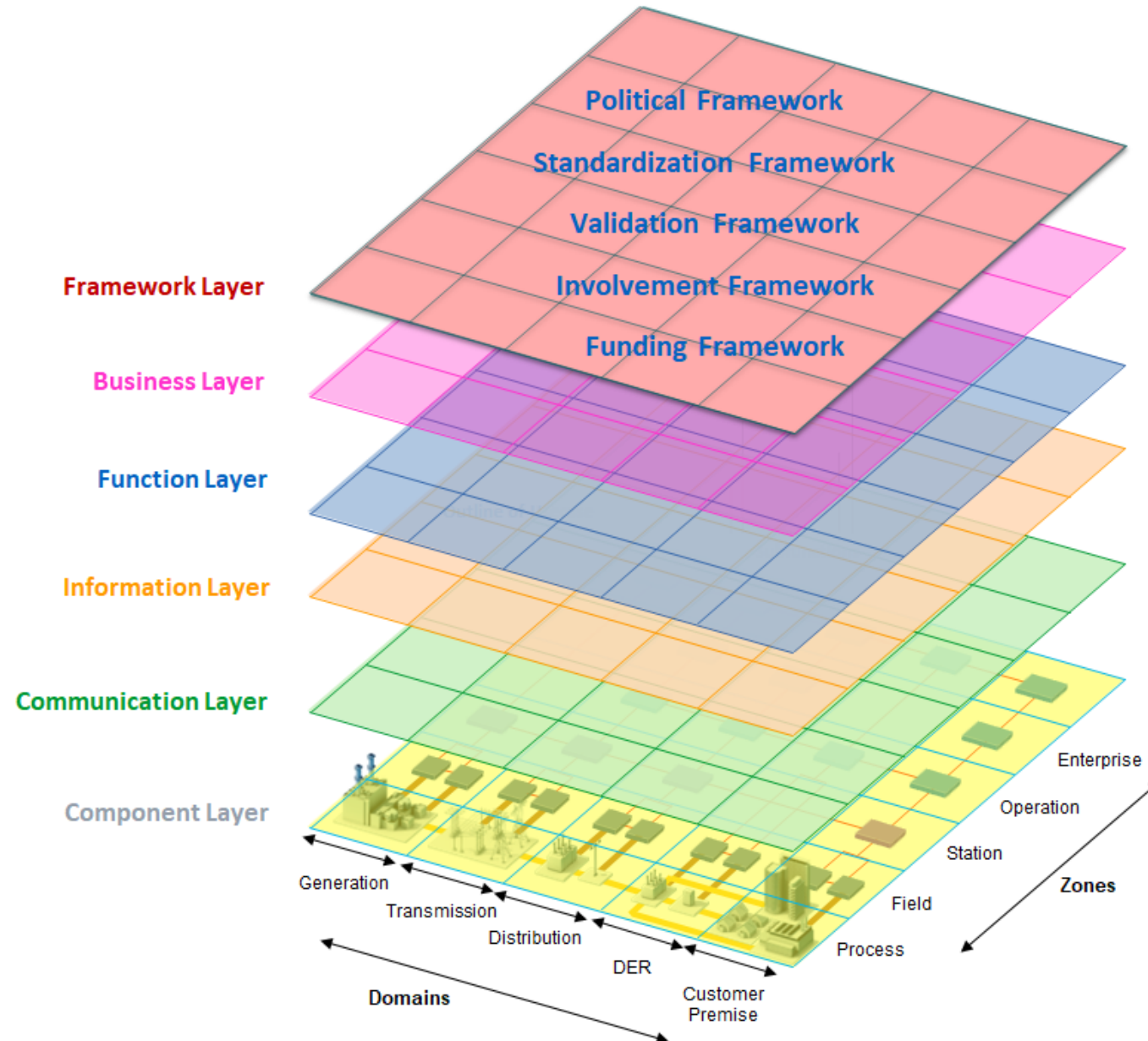


# Stakeholder Map for Interoperability in Governance

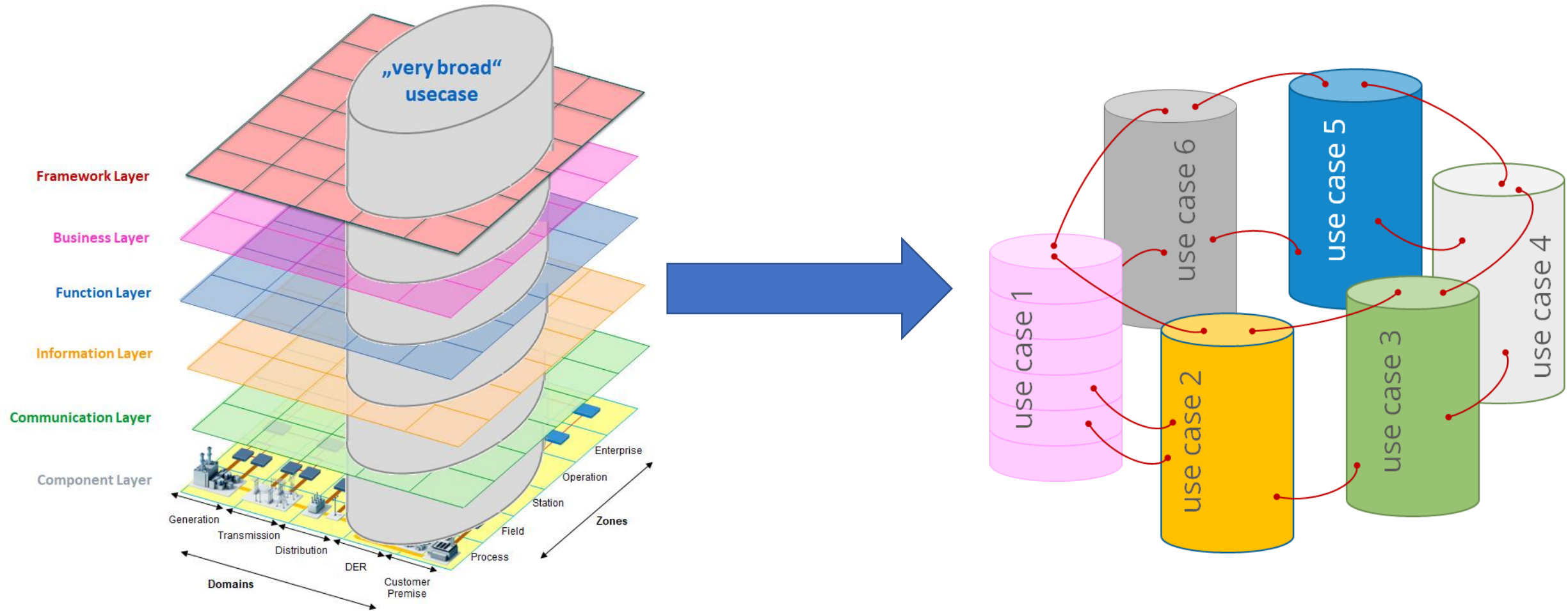




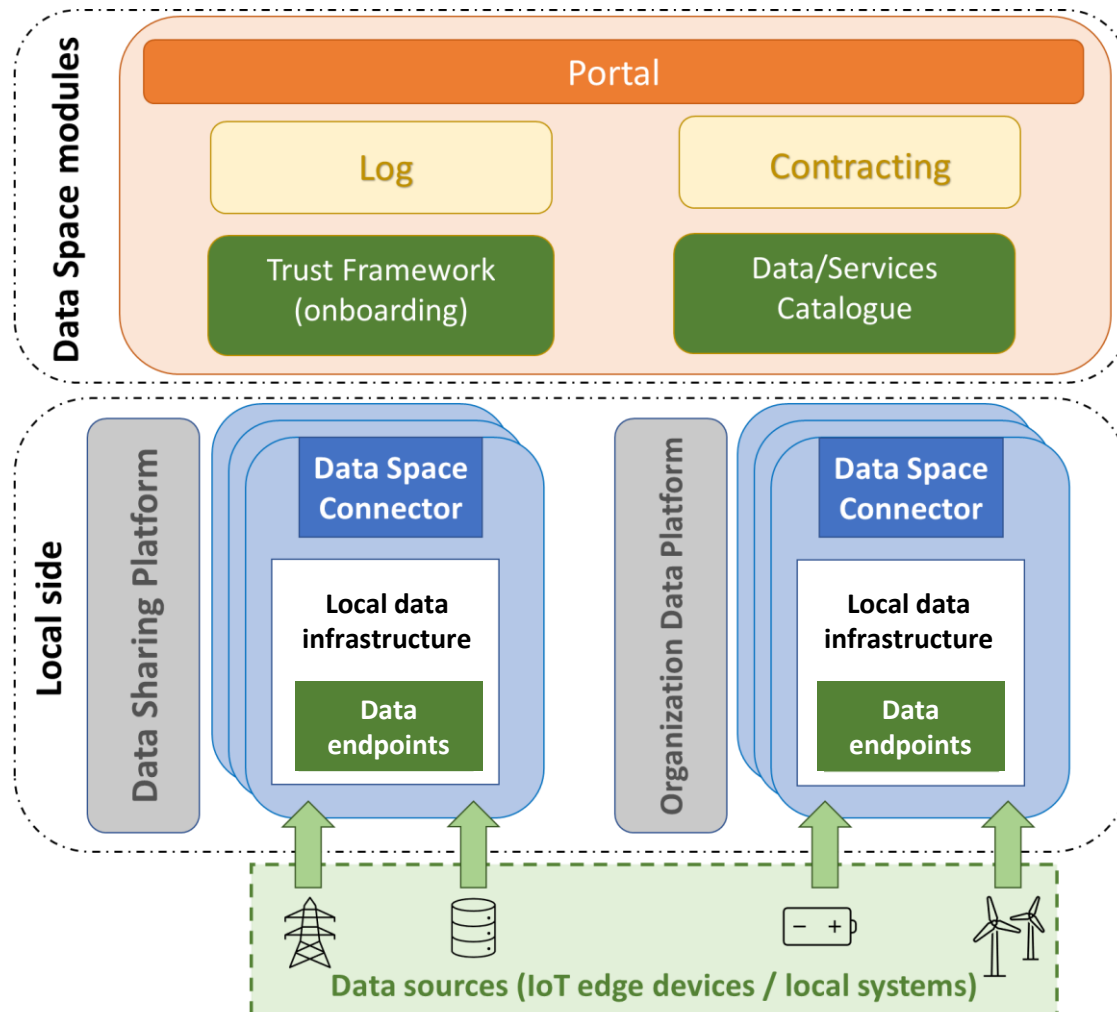
## 6<sup>th</sup> SGAM layer: Frameworks



# Broad „use-case tube“ in the 6-layers SGAM



## MVP of CEEDS: test the projects interoperability



### Achieve interoperability of the projects:

1- Define the **minimum set of data spaces components** (MVP architecture)

2- Identify and apply the key functionalities: the System-Use-Cases (SUCs):

- **SUC1 - Onboarding**
- **SUC2 - Data Discovery and push into the catalogue**
- **SUC3 - Contracting**
- **SUC4 - Data Exchange and interoperability**

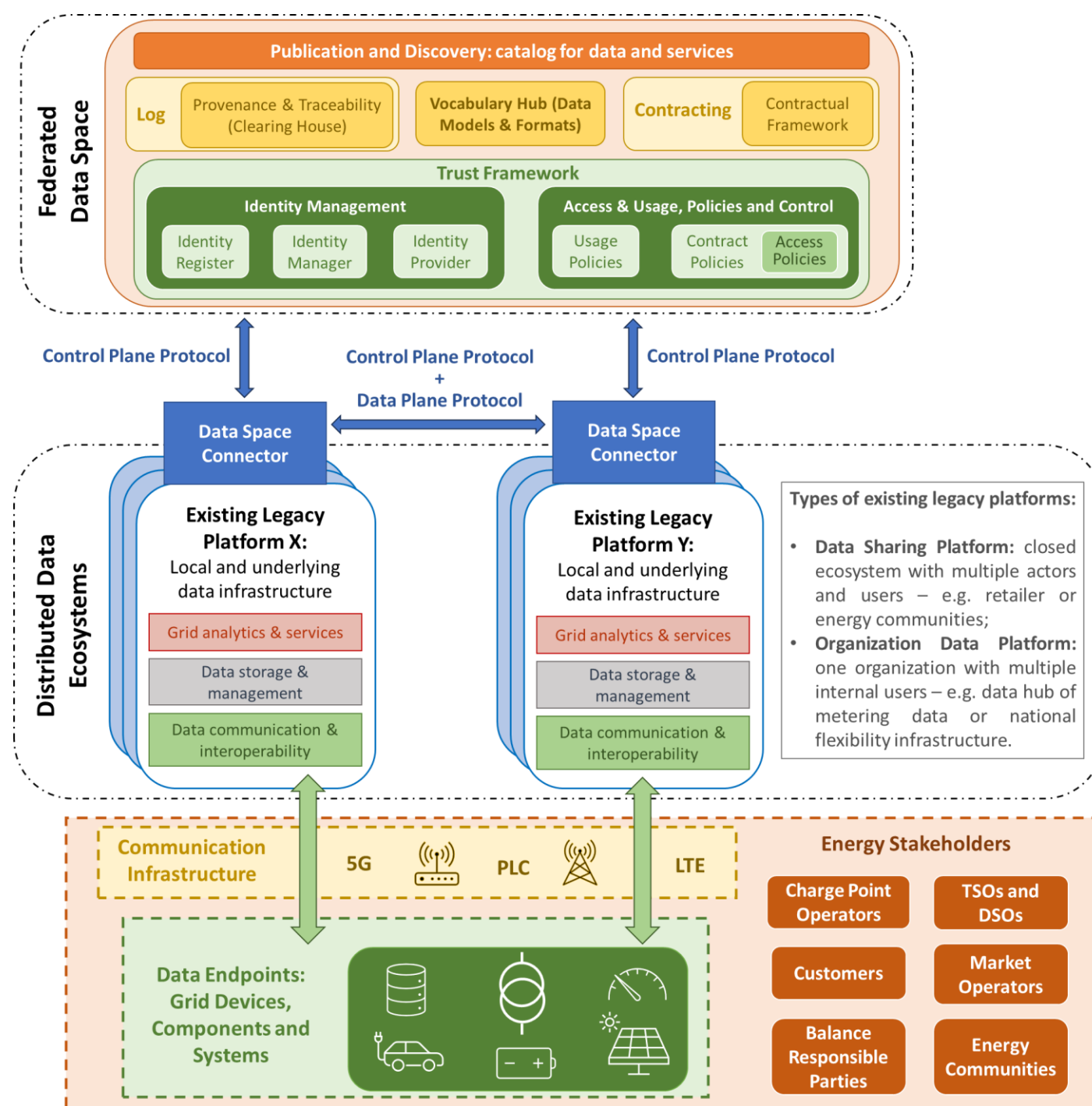
➤ **Ongoing cluster activity:** analyze the components used by each project to deploy the SUCs

# Blueprint of CEEDS

**Goal:** from Innovation Actions to **national initiatives** and **large-scale deployments** of data spaces

## Content:

- **Business use-cases** of CEEDS:
  - Scenarios, Actors, Exchanged Data
- **Architecture:** **not MVP version, but with complete set of components**
- **Interoperability:**
  - Technical
  - Semantic
  - Governance



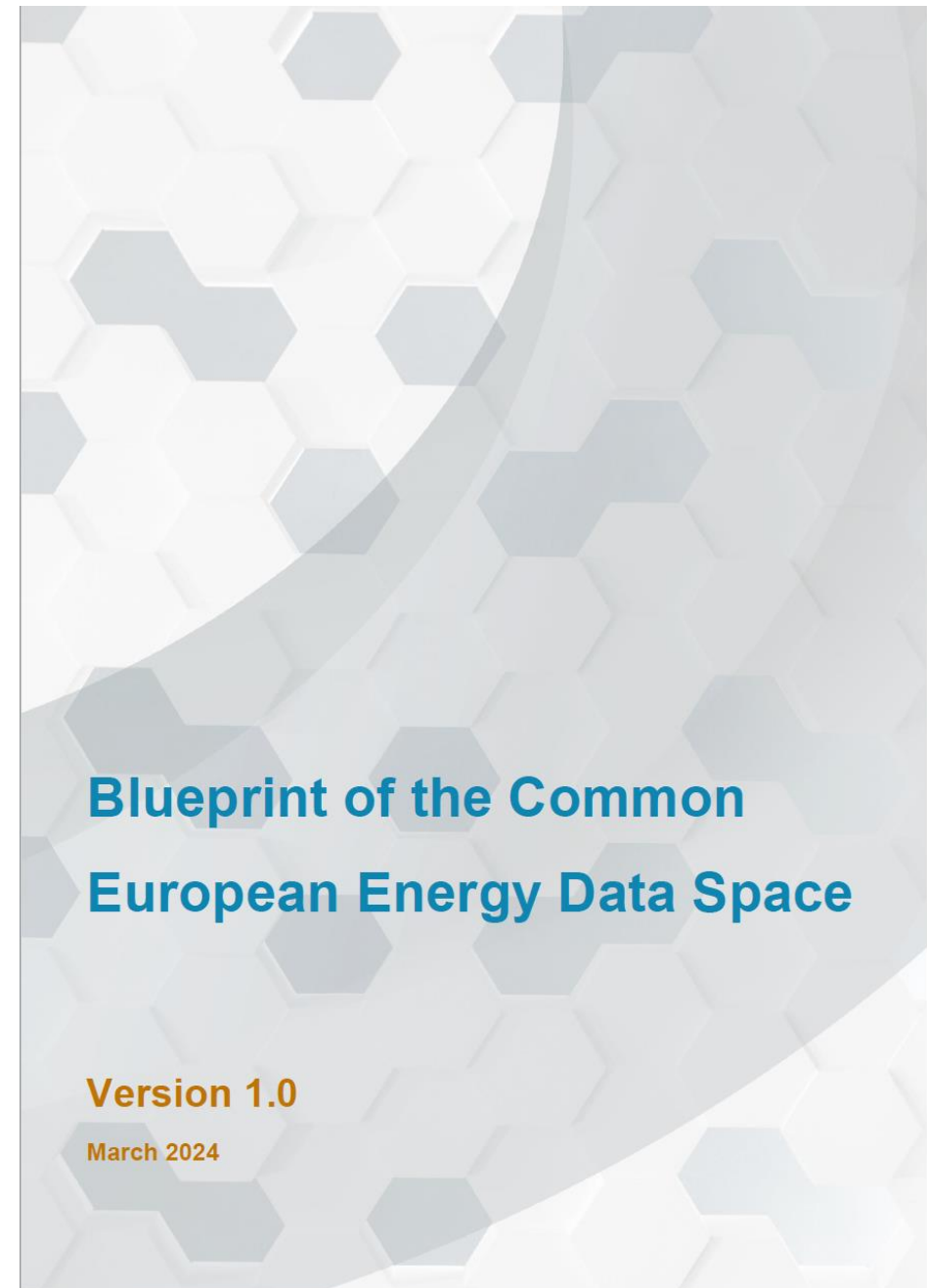
## Blueprint of CEEDS

Published and now available in the int:net website:

<https://intnet.eu/resources/technical-resources>



Work on the Blueprint is in progress: updated version 2.0 planned within June 2024



# Thank you for your attention

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<https://intnet-project.eu/>