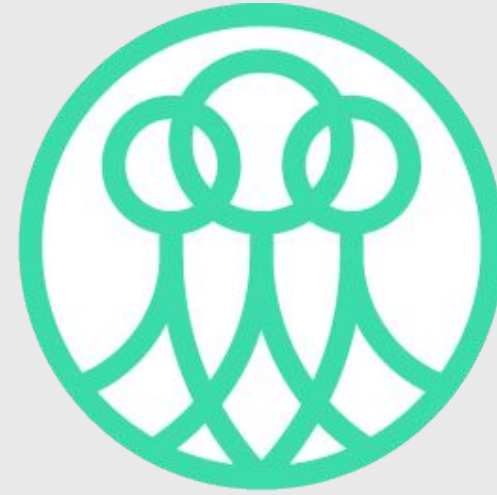


dRural



OPEN & AGILE SMART CITIES & COMMUNITIES



CONTEXT

Predominantly, rural areas make up half of Europe and represent **around 20 % of the population**. However, most of them are also among the least favored regions in the EU, with a GDP per head significantly below the European average.

- lower incomes and less opportunities
- a shrinking and older population
- poor access to healthcare and education:

this is the stereotypical picture of the European rural areas.

In this context, dRural will inject **new chances for the development of European rural areas and communities**.

The project aims to co-develop and roll up a digital marketplace of services for people living in those areas, while creating jobs and opportunities for economic growth and quality of life improvement





THE REGIONS

The service marketplace will be firstly launched in four EU rural regions

 Extremadura

 Jämtland Härjedalen

 Dubrovnik-Neretva

 Gelderland Midden





EXPECTED IMPACTS

To improve the quality of life in rural areas through the digital transformation in the service delivery

The attain to this impact through the following action:

- Validate the services marketplace by an increase of cross-cutting applications and services
- Demonstrate the benefits of data sharing across platforms from different sectors
- Demonstrate and show-case sectorial platforms interoperability
- Explore and validate new industry and business processes and innovative business models in the pilots
- Overcome the digital divide between rural and urban areas by developing the potential offered by connectivity and digitalisation of rural areas

Beyond the end of the project (june 2024) - Sustainability & Replicability

dRural





omega-x

START
05/2022



FUNDING
8M€

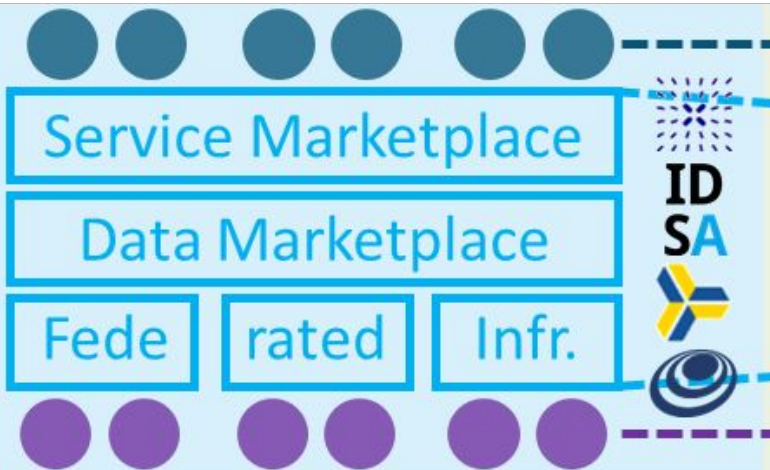
END
04/2025



LEADPARTNER
Atos

PARTNERS
30

OMEGA-X



4 Business Use case families

-  10 pilot sites. 7 countries
-  25+ services (10+ new)
-  18 Service providers
-  17 Data providers

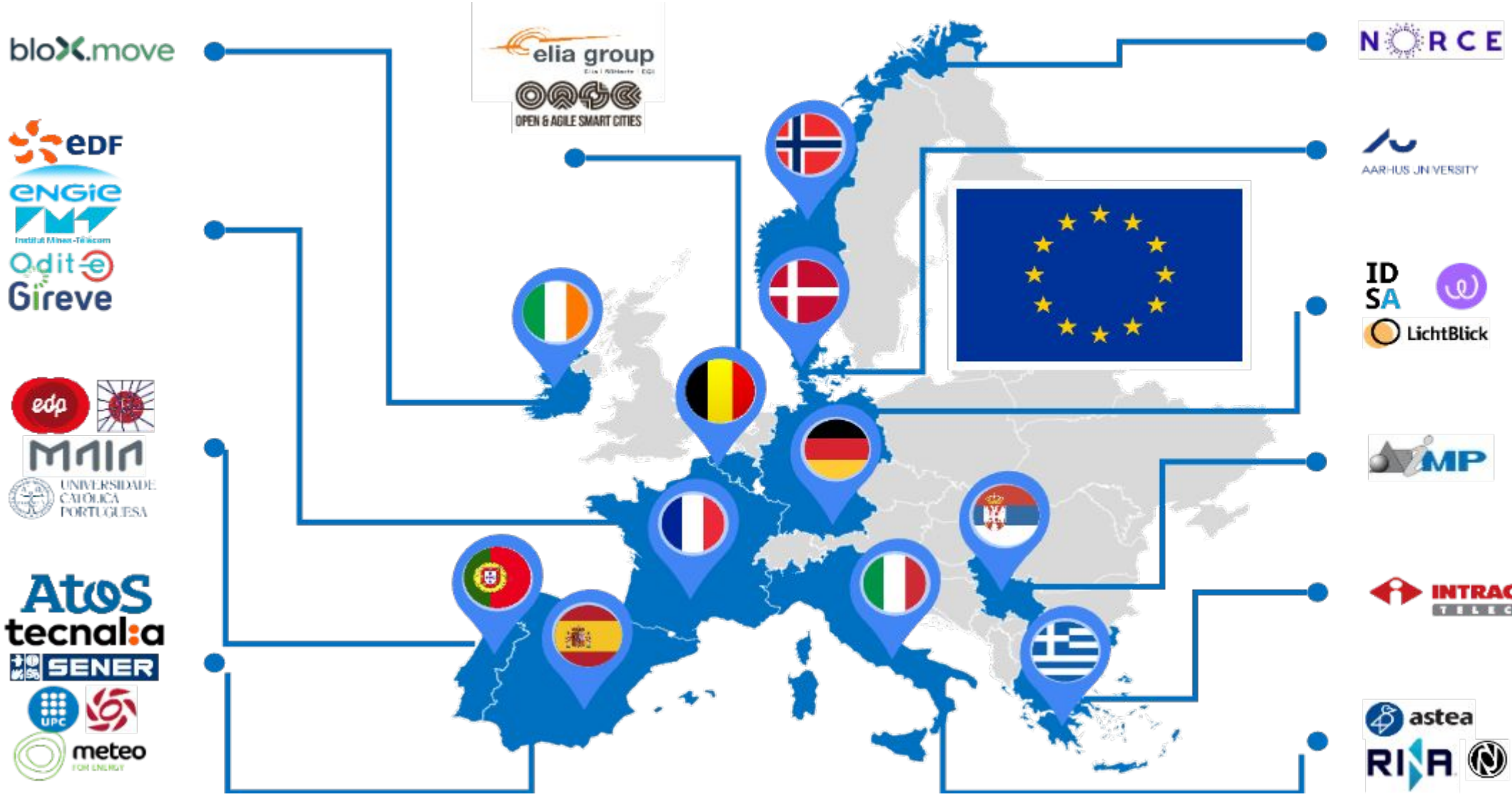
40+ datasets, 50GB average

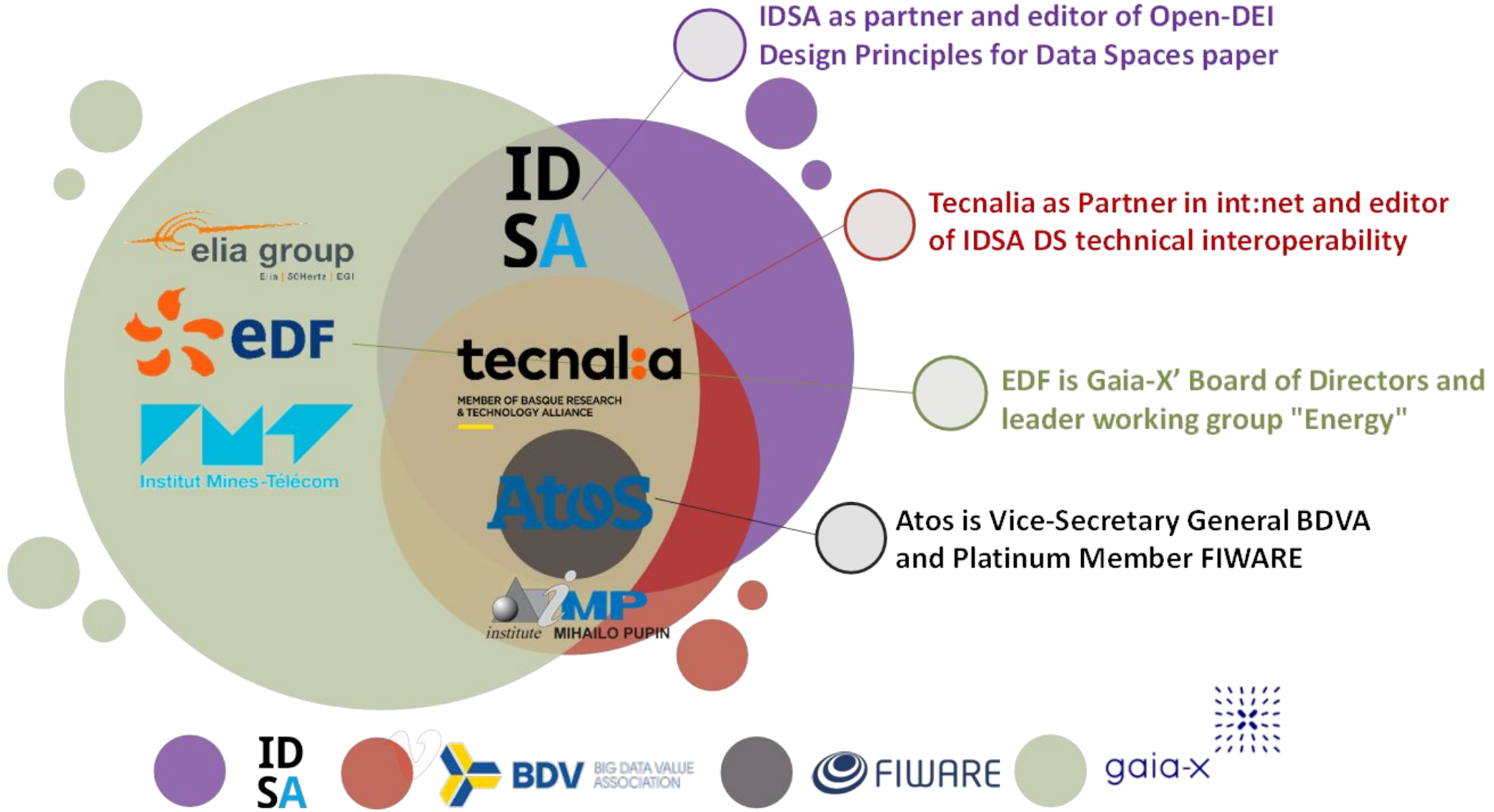
Quantifiable improvements in all 4 UC families (decarbonization, efficiency, Renewable penetration, engagement)

Full Interoperability, new governance models, new services, new business models, industry and cross-industry alliances.

Safe data trading, break data siloes, lower costs of data usage, increase data availability

29 Partners - 11 EU Countries





Use cases

RENEWABLES

3 pilot sites, 2 countries (Spain, France)
7 partners involved (3 data owners, 4 service providers)
Intra-pilot: O&M and smart grid data-driven services
Inter-pilot: Benchmarking and synthetic data generation

5

LOCAL ENERGY COMMUNITIES

4 pilot sites, 3 countries (Spain, Italy, Serbia)
9 partners involved (5 data owners, 5 service providers)
Intra-pilot: multi-vector optimization/planning, engagement
Inter-pilot: Benchmarking

1
2

ELECTROMOBILITY

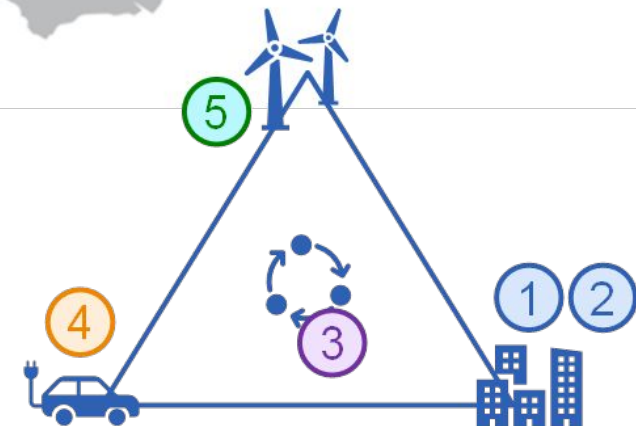
2 pilot sites, 2 countries (Germany, Belgium)
8 partners involved (4 data owners, 5 service providers)
Intra-pilot: Roaming of booking and self-consumption
Inter-pilot: TSO-DSO collaboration

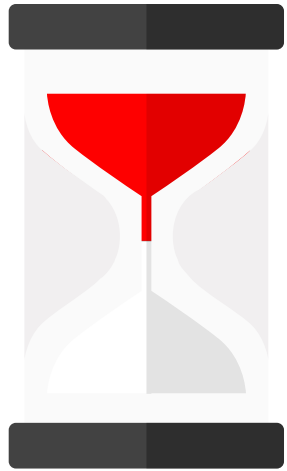
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FLEXIBILITY

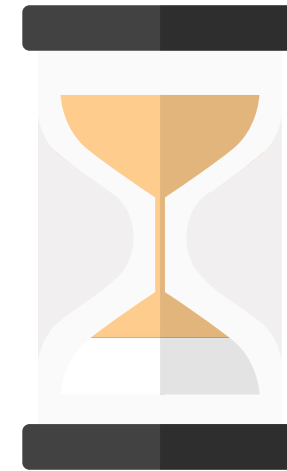
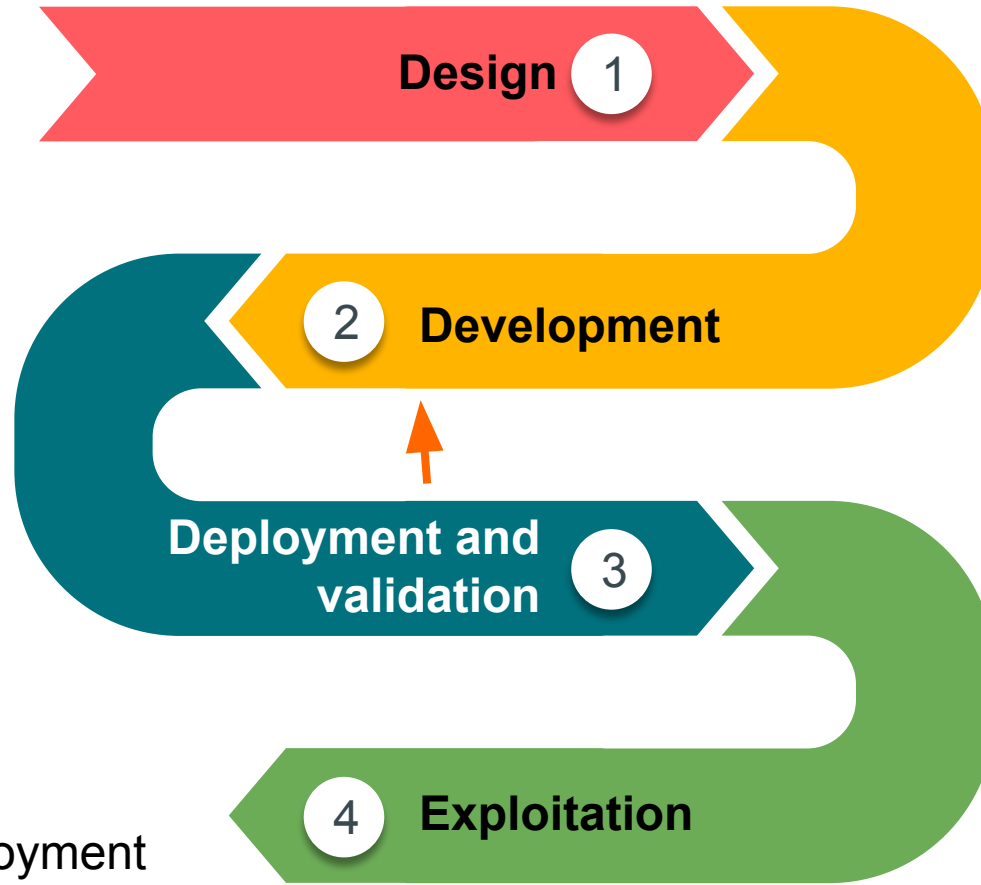
1 pilot site, 1 country (Portugal)
7 partners involved (5 data owners, 4 service providers)
Intra-pilot: Advanced data-driven flexibility

3





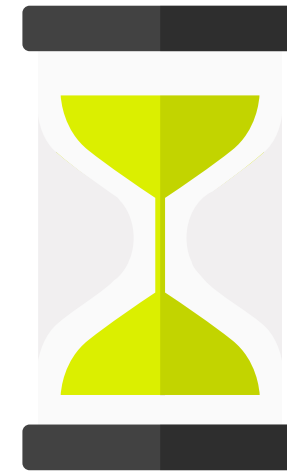
- Use Cases
- Architecture
- Specifications



- Component development
- Integration



- Pilot site deployment
- Validation



- Performance
- Impact assessment

Vertical Interoperability:

- Open definition of protocols and standards
- Alignment with IDSA/Gaia-X federation services (GXFS) and roles

Horizontal Interoperability

- Open Source Standardized protocols and APIs
- Information Models based on standards such as IEC CIM, IEC 61850 and IEC COSEM

Use case Interoperability

- Multiple stakeholders (both for data provision and service provision)
- Multiple locations (at least 2 per use case family)
- Interaction with sister projects

