

Project Presentation

Orchestrating an interoperable sovereign federated Multi-vector Energy data space built on open standards and ready for GAia-X



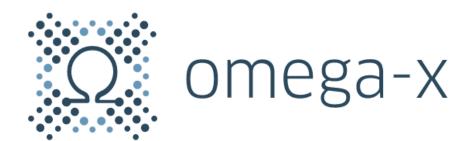


Agenda

- 1. Project in a nutshell
- 2. Partnership
- 3. Objectives
- 4. Relevance
- 5. Use Cases
- 6. Time Plan
- 7. Technical Activities
- 8. Interoperability



In a nutshell



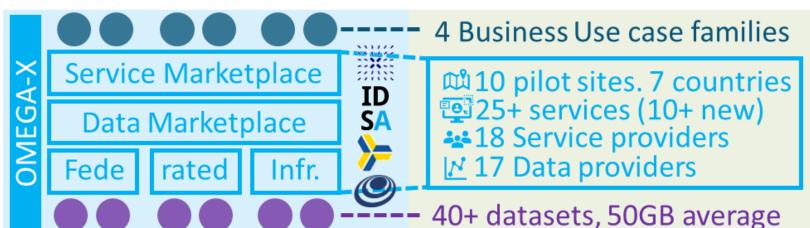




LEADPARTNER Atos

PARTNERS

30

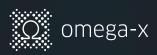


Quantifyiable improvements in all 4 UC families (decarbonization, efficiency, Renewable penetration, engagment)

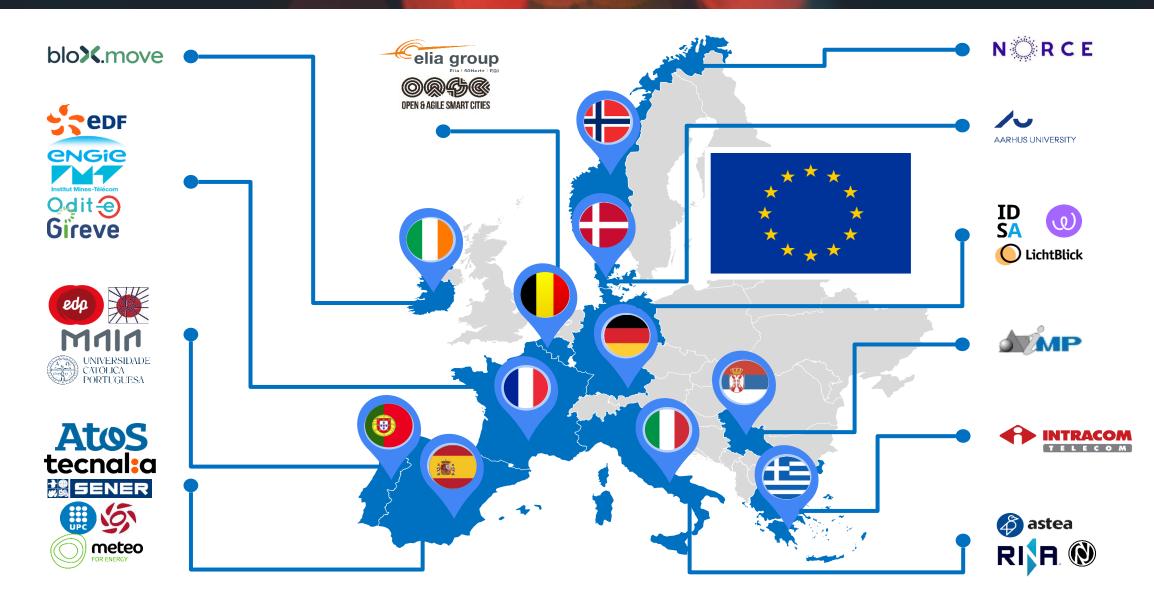
Full Interoperability, new governance models, new services, new business models, industry and cross-industry alliances.

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

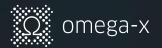




Partnership





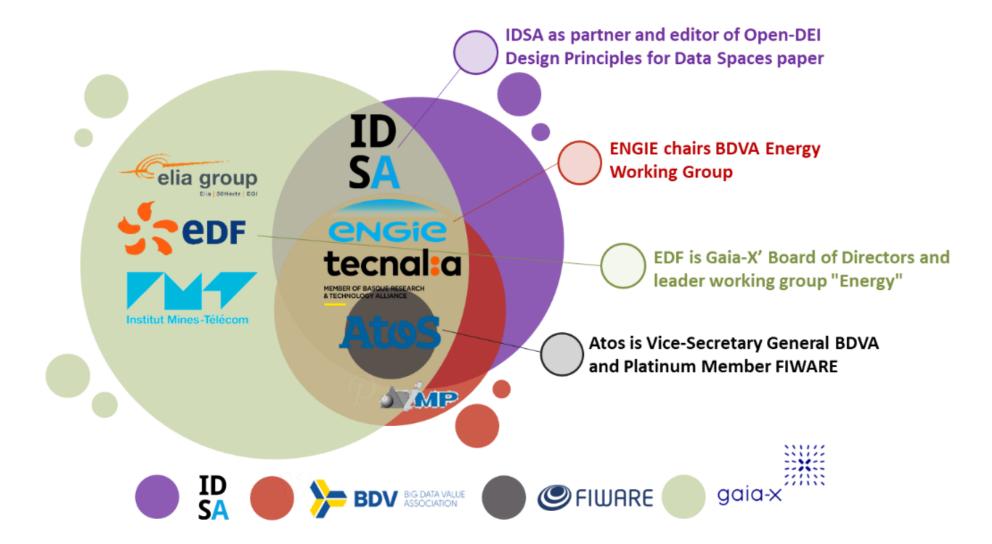


Objectives

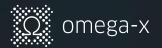
#	Name	KPI #1	KPI #2	KPI #3
1	Standard Architecture	4 EU Initiatives	Liaise >3 projects	
2	Data Marketplace	3-5 Data Providers / UCF	Collaboration with sister projects	
3	Service Marketplace	4-5 Service Providers / UCF	Collaboration with sister projects	25 services with 10 new
4	Data Governance Models	2 Models	Tested in at least 1 UCF	E2E data security and governance in all UCs
5	Demonstration	7 stakeholders in different locations / UCF	Guarantee of data availability/quality	Demonstrated value of data sharing
6	Data Space Interperability	Vertical interoperability (semantic)	Horizontal interoperability (other DS/Projects)	Open Source, standard protocols and APIs
7	Multi-vector Approach	5 different Energy Vectors	Electricity and Mobility	
8	Iteration and Cooperation	Three cycles	Continuous feedback loop	
9	User Centricity	Alignment with BRIDGE	Pilot level handbook	



Relevance







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



LOCAL ENERGY

COMMUNITIES

ELECTROMOBILITY

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



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



1 pilot site, 1 country (Portugal)

7 partners involved (5 data owners, 4 service providers

Intra-pilot: Advanced data-driven flexibility







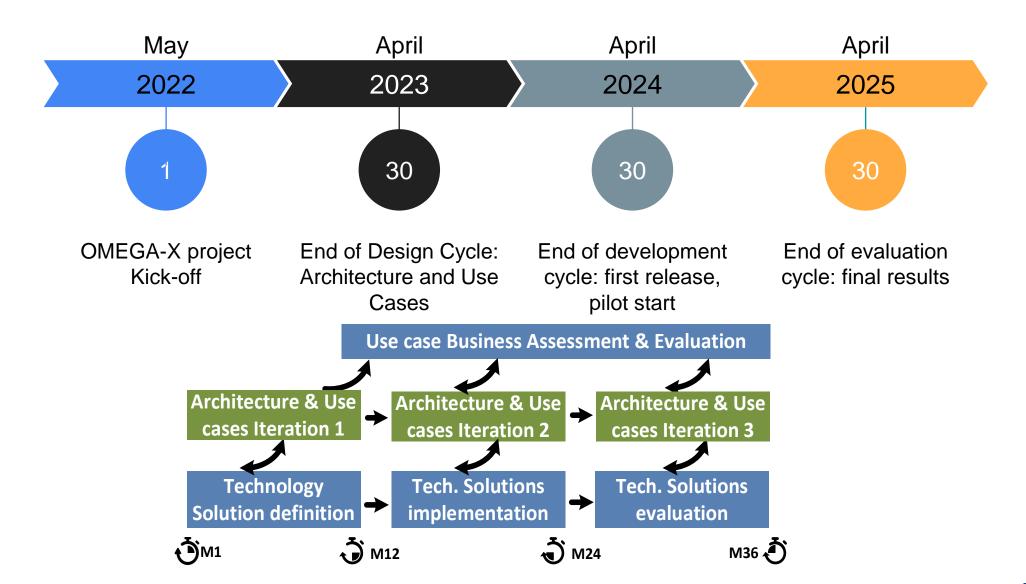




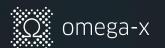




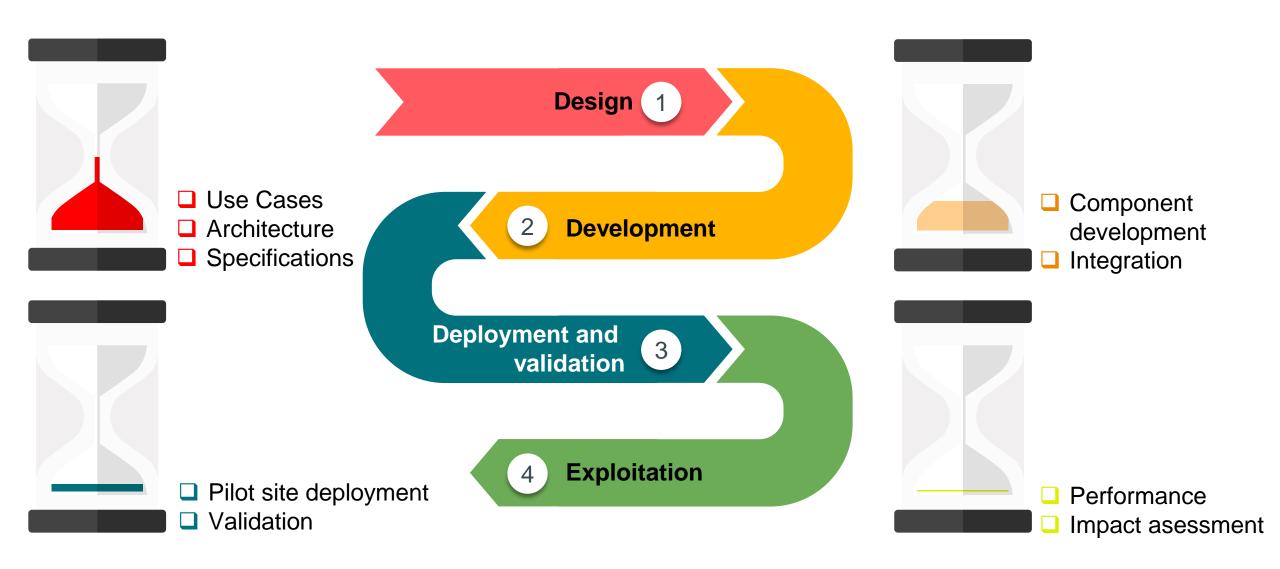
Time Plan



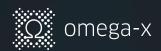




Technical Objectives







Technical/Semantic Interoperability

Compliance Service

Vertical Interoperability:

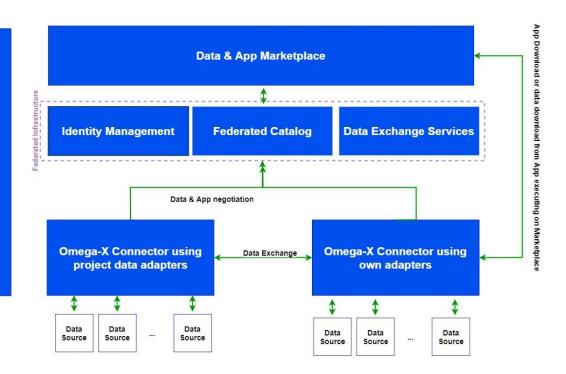
- Open definition of protocols and standards
- Alignemt with IDSA/Gaia-X federation services (GXFS) and roles

Horizontal Interoperability

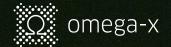
- Open Source Standardized protocols and APIs
- Information Models based on standards such as IEC CIM, IEC 61850 and IEC COSEM

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







Thank you!

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