



Energy Data Space of Gaia-X

—
The path to an European approach for energy

April 2022

4 key figures on the Energy Data Space



36 participants of 22 organizations

A mix of energy players on the whole value chain:
energy companies, academic and technological partners



10 countries are working together
on a European scale



Identification and qualification of **+25**
business oriented energy use cases

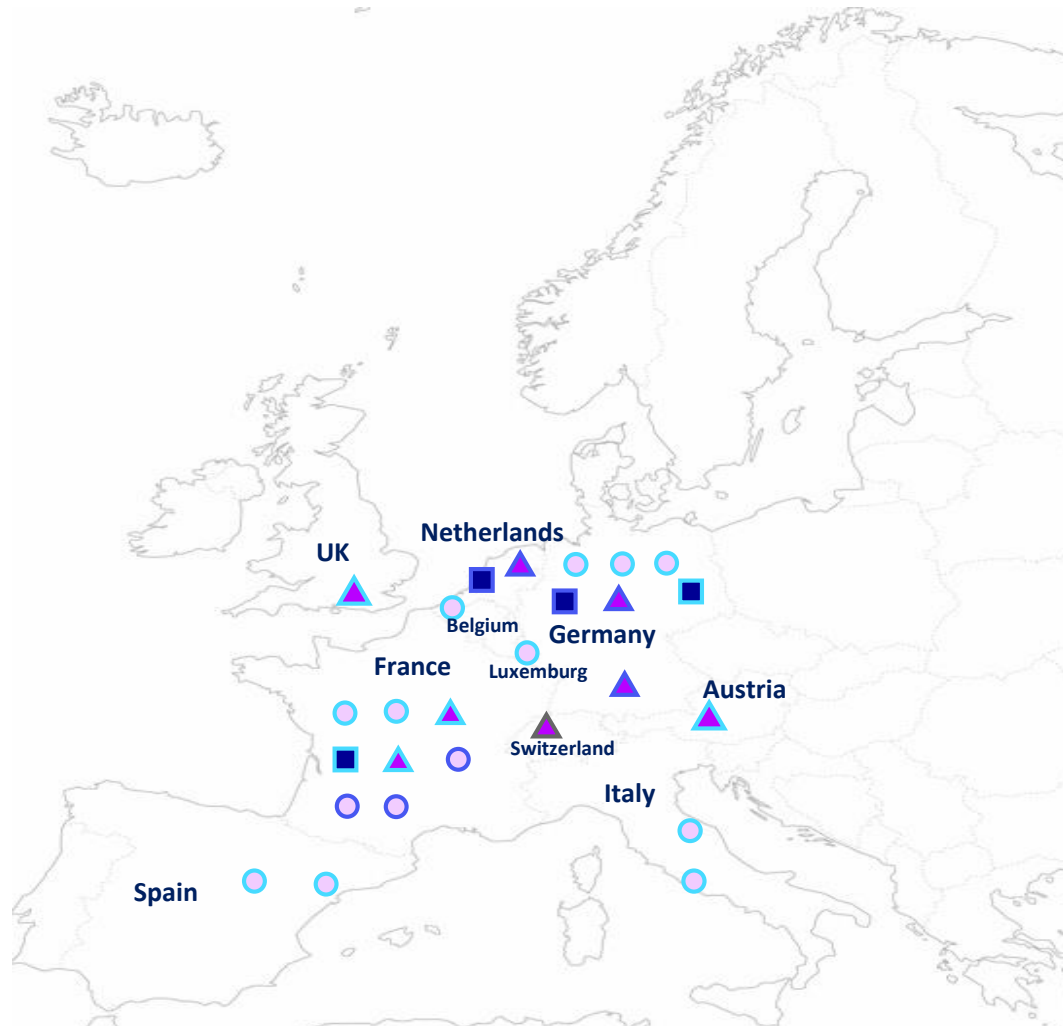


3 funding projects are aligned with
the principles of Gaia-X

The ambition of the Energy Data Space:

- Provide an ecosystem for the development of use cases on a European scale to foster the energy transition and reach carbon neutrality.
- Sharing data in a trusted, secure and sovereign way, reaching a significant size becoming a reference for the energy sector.

A plurality of European players are gathering to shape the Energy Data Space and create value thanks to data sharing



Lead: EDF – Martine EDF

36 participants from 22 organizations across the energy sector value chain

Type of organisation



Energy company



National public/academic organisation



Technological partners

Type of membership in the Gaia-X Energy Data Space



Core team members



Steering Committee members

Key energy themes with high potential for UC & projects



RENEWABLES

A photograph of a person standing in a field of solar panels, with a blue tint overlay.

LOW-CARBON HYDROGEN

A photograph of large industrial hydrogen storage tanks with the text "HYDROGEN H2" visible, with a blue tint overlay.

NUCLEAR

A photograph of a nuclear power plant with cooling towers emitting steam, with a blue tint overlay.

ENERGY EFFICIENCY

A photograph of a hand pressing a light switch, with a blue tint overlay.

ELECTRIC VEHICLES

A photograph of a hand plugging a charging cable into an electric vehicle, with a blue tint overlay.

LOCAL ENERGY
COMMUNITY

An aerial photograph of a residential neighborhood with various colored roofs, with a blue tint overlay.

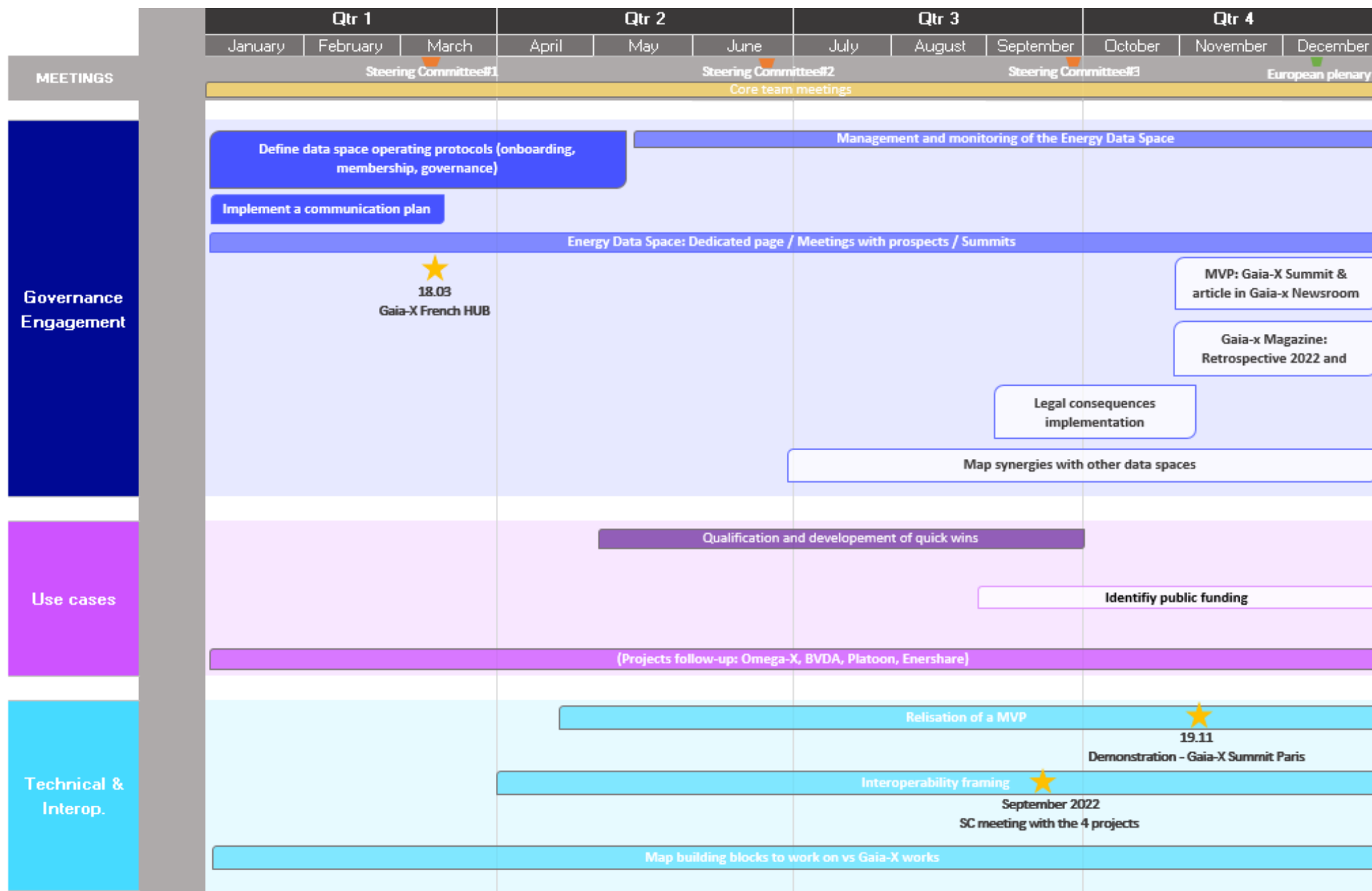
NETWORKS

A photograph of a high-voltage electrical transmission tower, with a blue tint overlay.

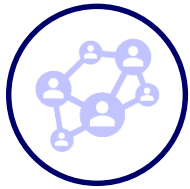
COMPLIANCE &
TRACEABILITY

A photograph of the Earth from space, showing the horizon and clouds, with a blue tint overlay.

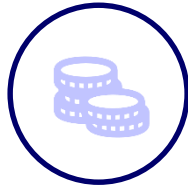
Energy Data Space of Gaia-X: Roadmap 2022



The main challenges to be addressed by the Energy Data Space



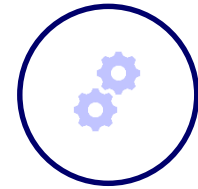
**Synergies with other
data spaces and
initiatives**



**Launching and
funding of new
projects**



**Develop valuable
projects & use cases**



Interoperability
(widely shared technical &
data standards)

Three main orientations to reach the ambition of the Energy Data Space



1.

GOVERNANCE & ENGAGEMENT:

Develop an open ecosystem allowing European energy players across the value chain to work together with a common vision and communicate easily and transparently.

2.

USE CASES AND PROJECTS:

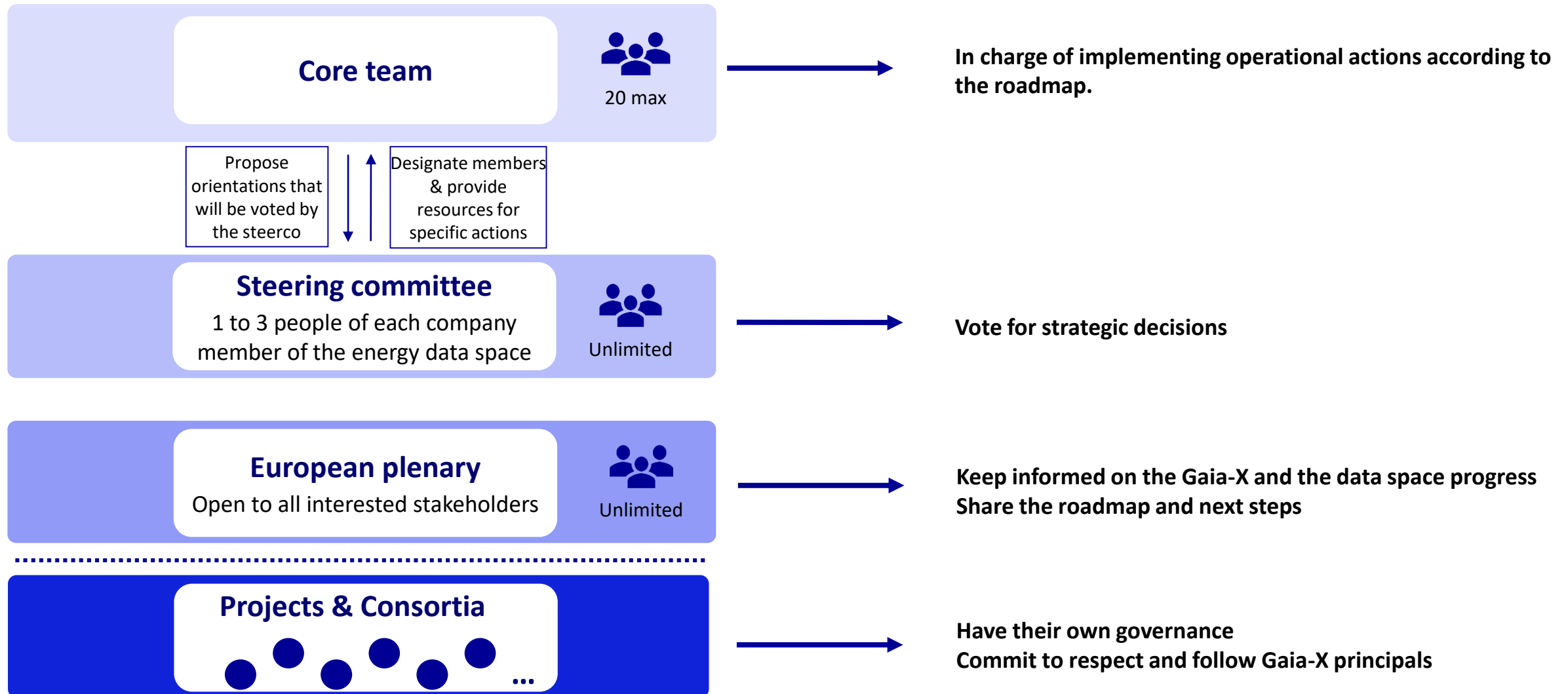
Identify and develop energy/cross sector use cases coming from this ecosystem, with clear business value and viable business models, fostering the energy transition.

3.

TECHNICAL AND INTEROPERABILITY STANDARDS:

Develop and share interoperability, architecture standards, common semantic data models between the energy value chain stakeholders and the different projects, but also with other domains when relevant.

A clear governance to ensure the definition and the implementation of the Energy Data Space strategy



You want to join Gaia-X Energy Data Space?



Please contact Olivier Dana (olivier.dana@edf.fr) & Marie-Lucie Huc (marie-lucie-externe.huc@edf.fr).