

# STRUCTURA-X



<b>Nature of the Initiative</b>	Lighthouse project	
<b>Mission</b>	To create an ecosystem of independent CSPs, orchestrated by a shared layer of federation certification and labelling services based on Distributed Ledger Technology (DLT).	
<b>Sector(s) addressed</b>	Cloud Services	
<b>Leading organisation</b>	GAIA-X	
<b>Members (approx.)</b>	28 members   10 countries	
<b>Founded (Year)</b>	2022	
<b>Web (URL)</b>	<a href="https://gaia-x.eu/news-press/structura-x-lighthouse-project-for-european-cloud-infrastructure-is-launched-concrete-implementation-and-alignment-with-the-gaia-x-roadmap-of-compatible-services/">https://gaia-x.eu/news-press/structura-x-lighthouse-project-for-european-cloud-infrastructure-is-launched-concrete-implementation-and-alignment-with-the-gaia-x-roadmap-of-compatible-services/</a>	
<b>Social Media Presence</b>	<a href="#">LinkedIn</a>	
<b>Relevance for Industry 4.0</b>	The industrial implementation of the Gaia-X standards by cloud and infrastructure providers is essential for functioning data sovereignty in Europe.	
<b>Key Information</b>	<b>Levels</b>	<b>Important Links</b>
<b>Data Space Technical Specifications</b>	★★	GitHub/Eclipse Link: NA
<b>Data Space Governance</b>	★★★	<a href="https://gaia-x.eu/wp-content/uploads/files/2021-10/Gaia-X%20Membership.pdf">https://gaia-x.eu/wp-content/uploads/files/2021-10/Gaia-X%20Membership.pdf</a>
<b>Data Space Demonstration</b>	★★	<a href="https://gaia-x.eu/wp-content/uploads/2024/05/Lighthouse-V14_08.05.2024.pdf">https://gaia-x.eu/wp-content/uploads/2024/05/Lighthouse-V14_08.05.2024.pdf</a>
<b>Data Space Adoption</b>	★★★	NA
<b>Connected Data Space 4.0 Initiatives</b>	<a href="#">Other Gaia-X Lighthouse Projects</a>	
<b>Additional Information</b>		
<b>Contact (Name/E-mail)</b>	Company Name: Gaia-X European Association for Data & Cloud AISBL Contact Person: Dr. Vassilia Orfanou, CMO Phone: +306974825327   Email: <a href="mailto:vassilia.orfanou@gaia-x.eu">vassilia.orfanou@gaia-x.eu</a>	

### What is STRUCTURA-X?

Around 28 European **cloud and infrastructure** providers have launched a **new initiative** to build joint Gaia-X-compliant infrastructure services.

### Mission

The **common goal** is to form an ecosystem for European data sovereignty based on their existing infrastructure, generating an overarching **European cloud infrastructure will be created**, while also enabling **users to test and roll out services and data spaces** in a Gaia-X-compliant infrastructure.

### Roles & Members

The **roles** involved in the flagship initiative include: Gaia-X AISBL, STRUCTURA-X, members and users.

1. **Gaia-X AISBL, among other things,**
  - **stipulates the technical framework** for data sovereignty,
  - **defines the technical framework** for data sovereignty,
  - **collaborates with the lighthouse partners** and coordinators through their common project teams through their lab in a joint Program scaling.
2. **Structura-X as a group will**
  - **create the necessary reach and scale** for new cross-industry and cross-border collaboration in the cloud, thus counteracting fragmentation of the European cloud market.
  - **adapt the Gaia-X framework**, including technical specifications, labels, and open-source software implementation to support the ongoing scaling of the lighthouse projects that share the common theme of creating a resilient, data-driven, and sustainable ecosystem.
3. The **members as individual organisations**
  - **bring infrastructure services** to the table,
  - equally **agree to utilise (open-source) technology** to make the cloud federation services viable, including interoperability respecting security and privacy-enabling by design.
4. **Users** can interact with STRUCTURA-X results and open-source software as well as members-provided infrastructure services.

**Current members** include: AssoSoftware, City Network, Cloud&Heat Technologies, CS Group, CSI, EBRC, Elmec, Fabasoft, International Dataspaces, IONOS SE, KPN, Luxinnovation, Mainstream, next layer, OpenNebula Systems, OSISM, ThreeFold Tech, Tietoevry, United Group, Vivacom.

**Structura-X is open for more cloud service providers (CSP) to join!**