Al-Powered Semantic Hub for Data Spaces

Dawex proposal

BDVA & SEMIC Workshop "LLMs to support Semantic Interoperability"

April 10, 2025



Dawex at a glance: a European scale-up recognized worldwide for its expertise and achievements in data space technologies

Company profile

Founded in 2015

Offices: Paris, Lyon, Montreal, Tokyo

Global reach

- France & Europe
- Japan (2nd largest market)
- North America
- **■** Middle East





Leads Gaia-X Data

Recognized as a pioneer and innovator



11 awards & recognitions US, EU, ME

Tech Pioneer at the WØRLD ECONOMIC FORUM World Economic Forum

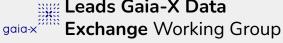
Speaker in **Davos**



Speaker at G7 Summit and other global events



Data Expert Group member at the **UN**



Customer references



















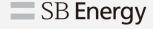






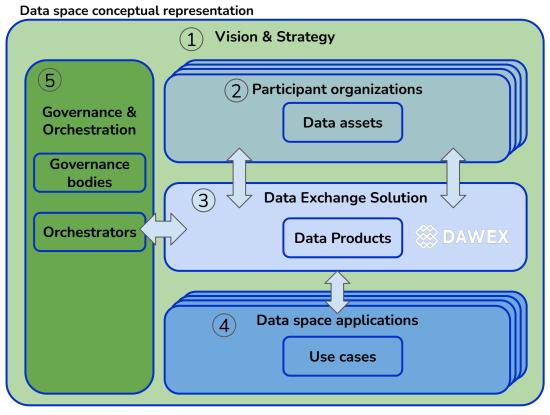








Data spaces are the data infrastructures of the data economy, set to reach €995 billion and 6.5% of EU27 GDP by 2030*

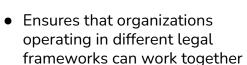


- **450+ data spaces** expected to be operational in Europe by 2028, and China aiming to launch 100 trusted data spaces by 2028**
- Data space scope spans from vision & strategy, to governance, ecosystem, technology and applications
- Dawex provides orchestrators with the underlying technology to operate data spaces
- **Target market for Dawex:**
 - Corporate Data Hubs: all major global corporations with revenue over 3 or 4 billion euros concerned
 - **Industry Data Spaces:** every leader in its industry sector
 - Data Marketplaces: companies of all types, especially those in sectors with typically small margins, such as retail. 3

Al: a powerful path to semantic interoperability enabling the re-use of data in European Data Spaces

Legal Interoperability

Done in EU: DGA (2023), DA (2025)

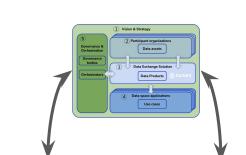


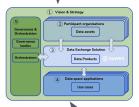
 Aligns legislation, policies to facilitate cross-border and cross-sector collaboration

Organizational Interoperability

Done: Thanks to DSGA and DSSC

- Ensure identities and claims are verified between organizations
- Establishes clear agreements, responsibilities, and coordination mechanisms







Semantic Interoperability to solve

- Ensures that exchanged data retains its meaning across different systems and organizations.
- Uses standardized vocabularies, metadata, and ontologies to achieve a common understanding

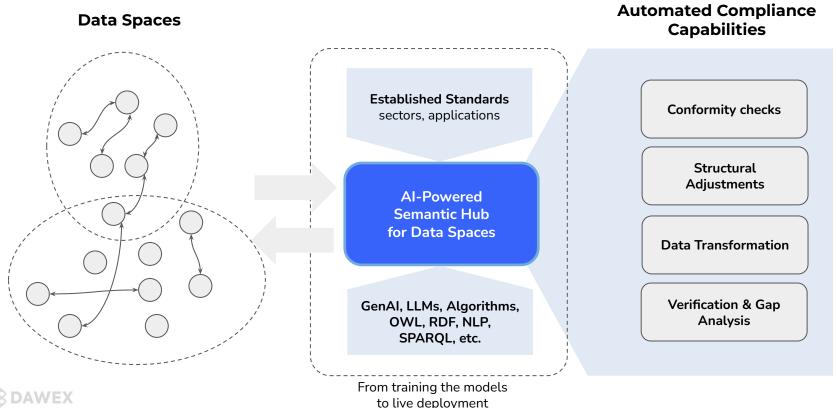
Technical Interoperability

Done : Gaia-X, Trusted Data Transaction,
Dataspace Protocol, Eclipse Dataspace WG

- Technical aspects of systems, incl. protocols, APIs, data formats, and security measures
- Ensures IT systems and applications can communicate effectively through agreed-upon standards



Automating the assessment and compliance of data conformity with standards, using AI models and automated control mechanisms



Benefits: Serving European Commission's high level goals while providing many concrete benefits to Data Spaces orchestrators

O1 Create a common language within your data space

Remove frictions for seamless data exchange

Facilitate interoperability with other data ecosystems



All-in-one Al-powered solution



Eliminates costly manual efforts in aligning data formats, vocabularies, and ontologies



Automates data compliance verification to regulation, lowers the risk of non-compliance penalties



Differentiates data space orchestrators by offering plug-and-play semantic compliance as a service.



AI-Powered Semantic Hub for Data Spaces

Open to working on it?

Contact Us

