CM 2024-01 Call on Data Spaces and Interoperability

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About Data Spaces and Interoperability







• A Data Space

- An environment where data is exchange between multiple parties in a secure and controlled way
- Is based on rules and principles that ensure
 - ∎ Tr∪st
 - Data sovereignty
 - technical compatibility















Challenges in Interoperability

- Lack of common standards.
- Differences in data formats and models.
- **Compatibility issues** between various technological platforms.

Data Space Protocol (DSP)



- The Goal is to establish a unified protocol to ensure interoperability between different data spaces.
- Key principles
 - **Data sovereignty**: Each participant retains control over the use and access to their data.
 - Semantic interoperability: Use of common ontologies and data models.
 - **Security and trust**: Robust encryption and authentication protocols.







How does it work?

- Structured data exchange based on metadata and smart contracts.
- Data federation by multiple data spaces connected under a common framework.
- Distributed authentication with the use of decentralized verifiable identities.

Benefits of DSP for interoperability

- **Standardization**: Facilitates integration between diverse data platforms.
- Efficiency: Reduces cost and complexity in data exchange.
- **Security**: Maintains privacy and control over data at each entity level.









https://eclipse-tractusx.github.io/ LKS is participating as Committer in Eclipse Tractus-X Open Source project





https://baidata.eu/

LKS is a board member of BAIDATA BAIDATA is a basque association to foster IDSA



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