Data Spaces Symposium

Eclipse Dataspace Working Group

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Meeting Point

Standardization

Interoperability
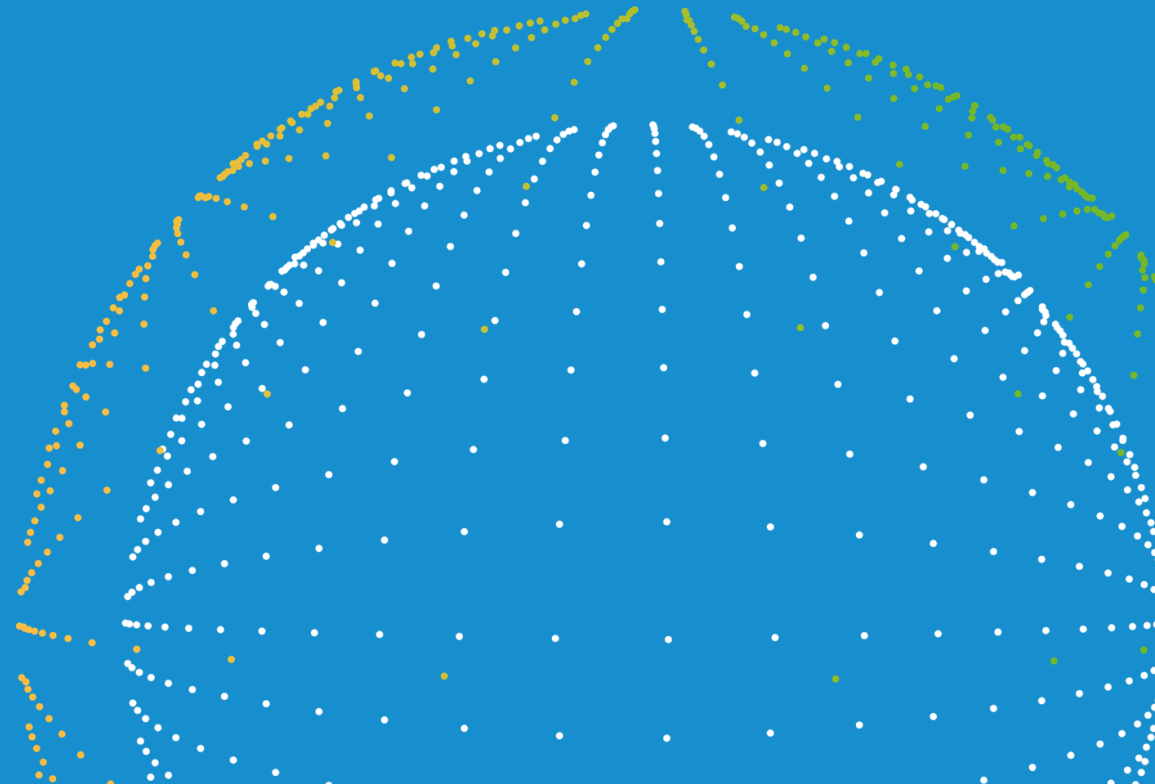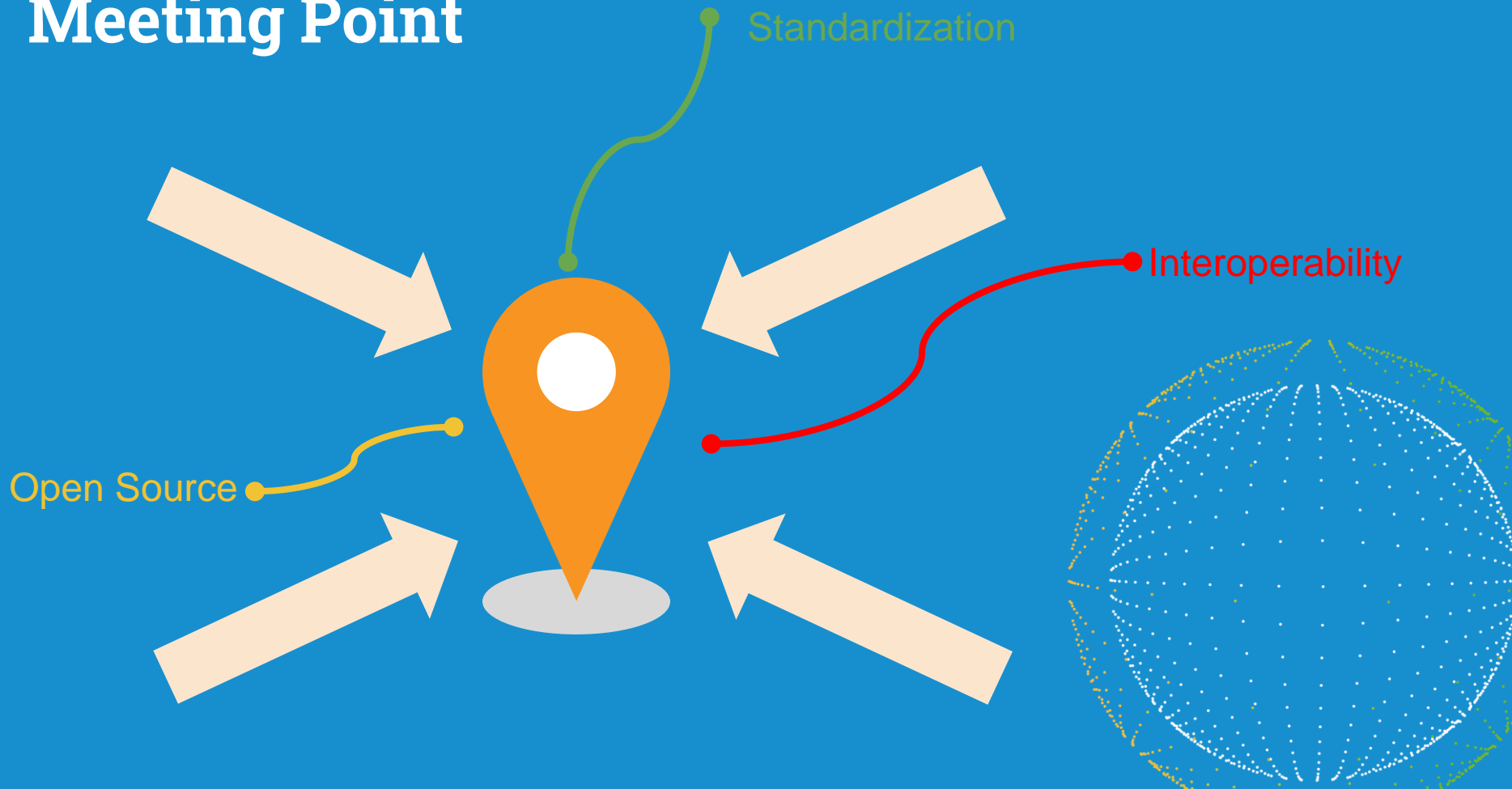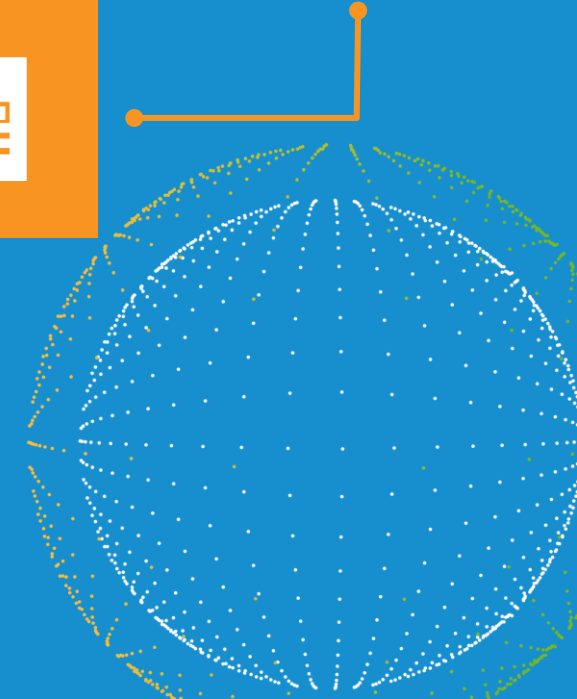
Open Source
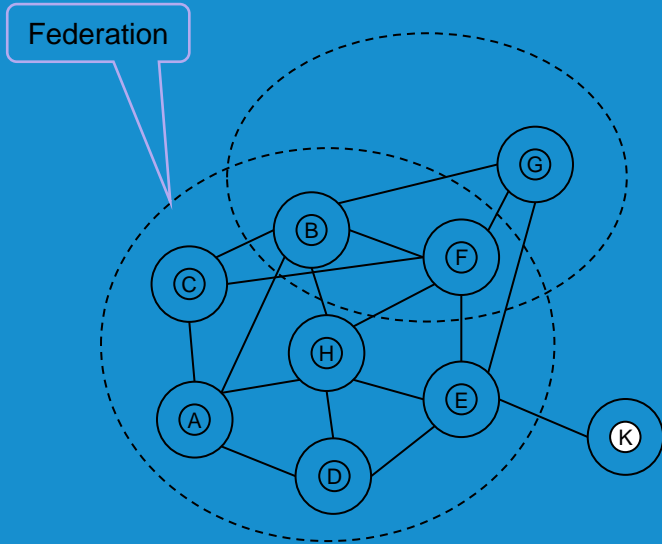
The big picture

Policy, Regulation and Legislation

Usage specs and requirements

Open Source Implementation

Data Sharing...2

Federation

Open and dynamic data exchange with dataspaces

Dataspaces…
- Participants decide to trust based on many factors, including context and particular scenario
- Connections in a dataspace are always peer-to-peer
- Multiple participants can cooperate, but data is always exchanged 1:1
- Dataspaces are an example of a multi-cloud federated environment
- Participants can have multiple roles
  - E.g. data holder, data processor, data recipients
- Dataspaces can be completely decentralized

[Source: IDSA]

Why Dataspaces? Takeover messages

- We are currently very efficient in harvesting and using data

- There are working business cases we should not alter

- Checklist for Dataspace participation - **Data Owner**
  - > Datasets that make sense (for me) and are valuable (for others)
  - > Clear access and usage rules

- Checklist for Dataspace participation - **Data User**
  - > Clear idea on data needed
  - > Business model for the involved actors to thrive
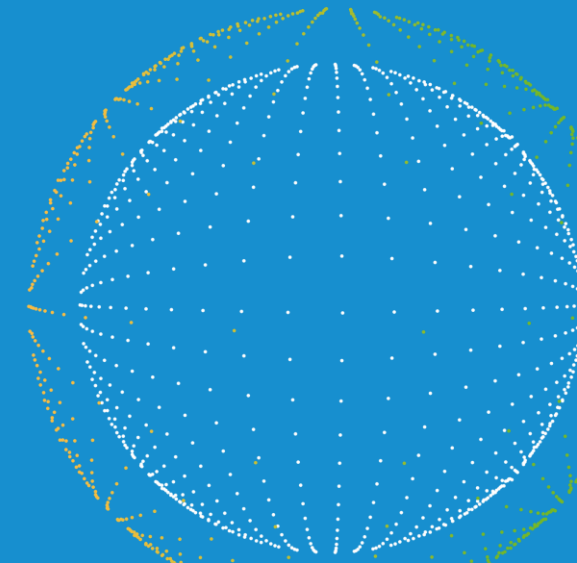
Mission, objectives and focus

The mission of the Eclipse Dataspace Working Group is to provide a forum for individuals and organizations to build and promote **open-source software, specifications, and open collaboration** models needed to create **scalable**, **modular**, **extensible, industry-ready** open-source **components** based on open **standards** for dataspaces.

The primary objective of the Eclipse Dataspace Working Group is to **encourage**, **develop**, and **promote open-source solutions** that will enable the **development**, as well as the **participation** in **dataspaces** for organizations of all types and sizes. It does not favor a specific industry or type of organization and is fully dedicated to enable **global adoption of dataspace technologies** to foster the creation and operation of **trusted data sharing ecosystems**.

The working group will have a strong focus on participating in **standards** development, implementation and onboarding of existing **open-source projects** and providing **guidance** to associated projects on **alignment** with the overarching goal of supporting a broad ecosystem of **interoperable dataspaces**.

Core Objectives

Core & Protocols

- Core protocol specifications
- Standardization
- Alignment between specifications and OSS projects

Data Planes & Components

- Data plane implementations
- Advanced technology integration
- Additional (optional) components

Authority & Management

- Tools and workflows for dataspace management
- policy management
- member management
- starter kits

Relation to other initiatives

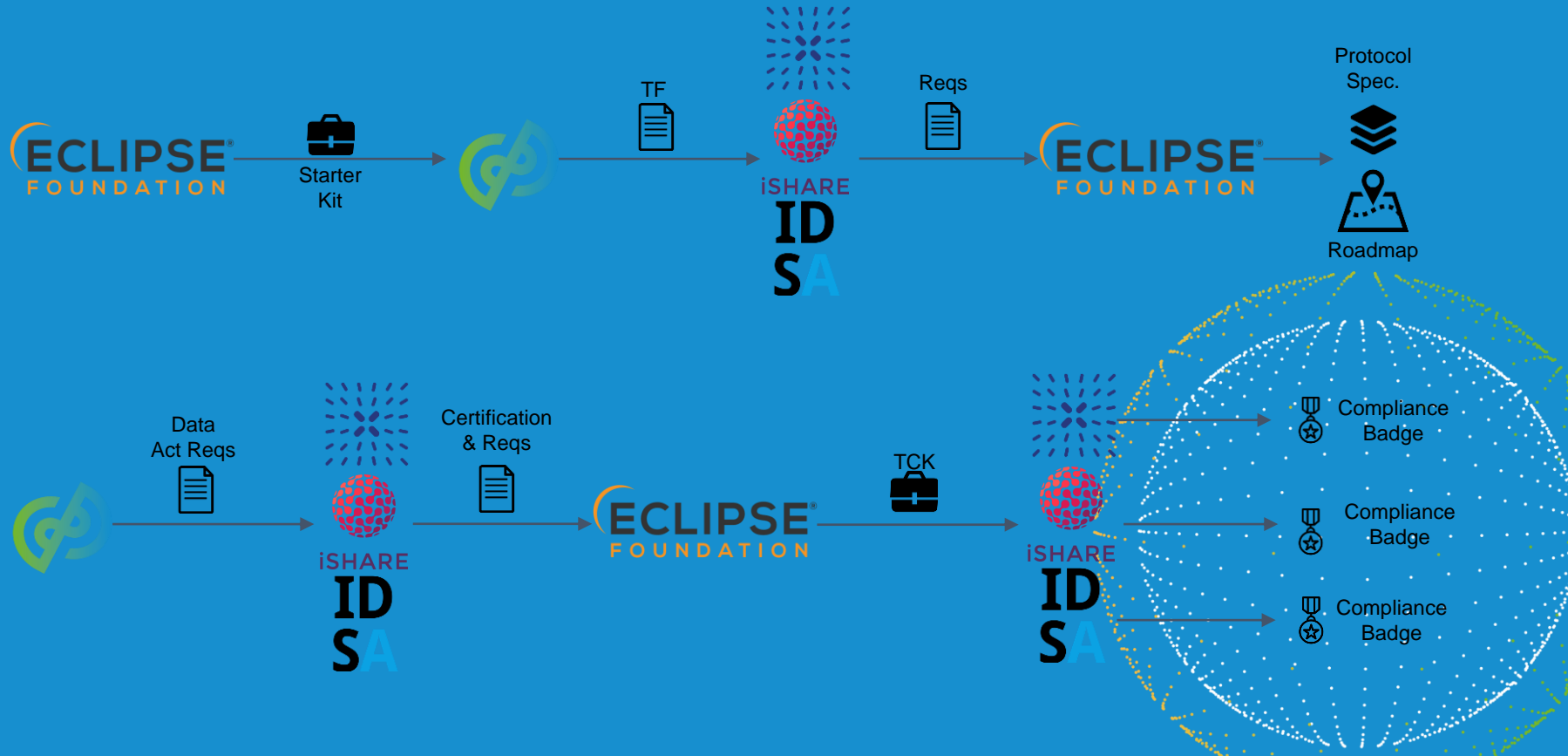**INTERNATIONAL DATA SPACES** ASSOCIATION

gaia-x

iSHARE

DATA SPACES SUPPORT CENTRE

> Collaborate in discussions on dataspace characteristics and **trust framework** (+ validation process) definition and essential standardization (ISO)

> Certification scheme provider for dataspaces

> Funnel for feedback from multiple dataspace implementations into the EDWG and associated projects

> Driving adoption of Dataspaces

> Alignment on **political** & **strategic** dataspace topics **(Data Act)**

> **Strategic alignment** with multiple dataspace related organizations (IDSA, Gaia-X, DSBA, i-Share, X-Roads,…)

> Provide support and "**Quick Start**" help to dataspace projects

Potential Top-Down Value Chain

Protocols and standards

- **Category A** liaison with **ISO/IEC JTC 1/SC 38** (Cloud Computing and Distributed Platforms)

Data Space protocol

Trust Framework

Other potential interests:

Identity

Membership

amaDEUS

Fraunhofer

INTERNATIONAL DATA SPACES ASSOCIATION

Microsoft

T Systems

MTÜ Nordic Institute for Interoperability Solutions

tecnalia
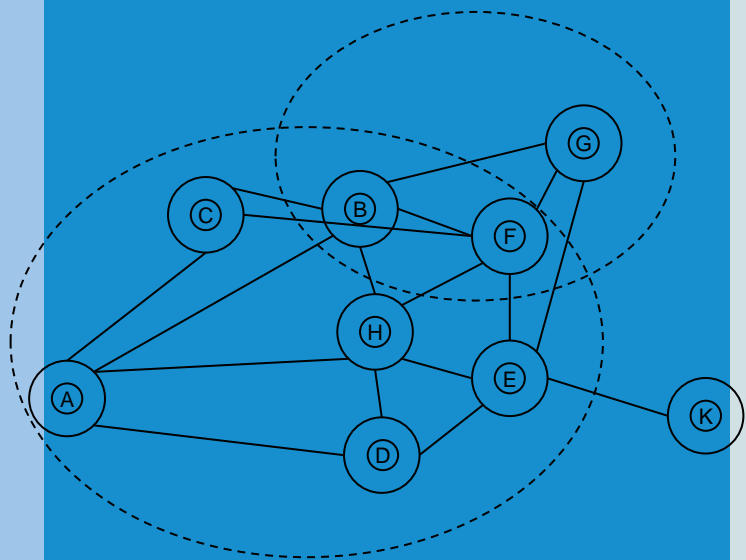MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

iSHARE

Catena-X

imec

TECHPARK SÜDTIROL / ALTO ADIGE

Enabling real Business cases

Automotive

Insurance

Thank you!