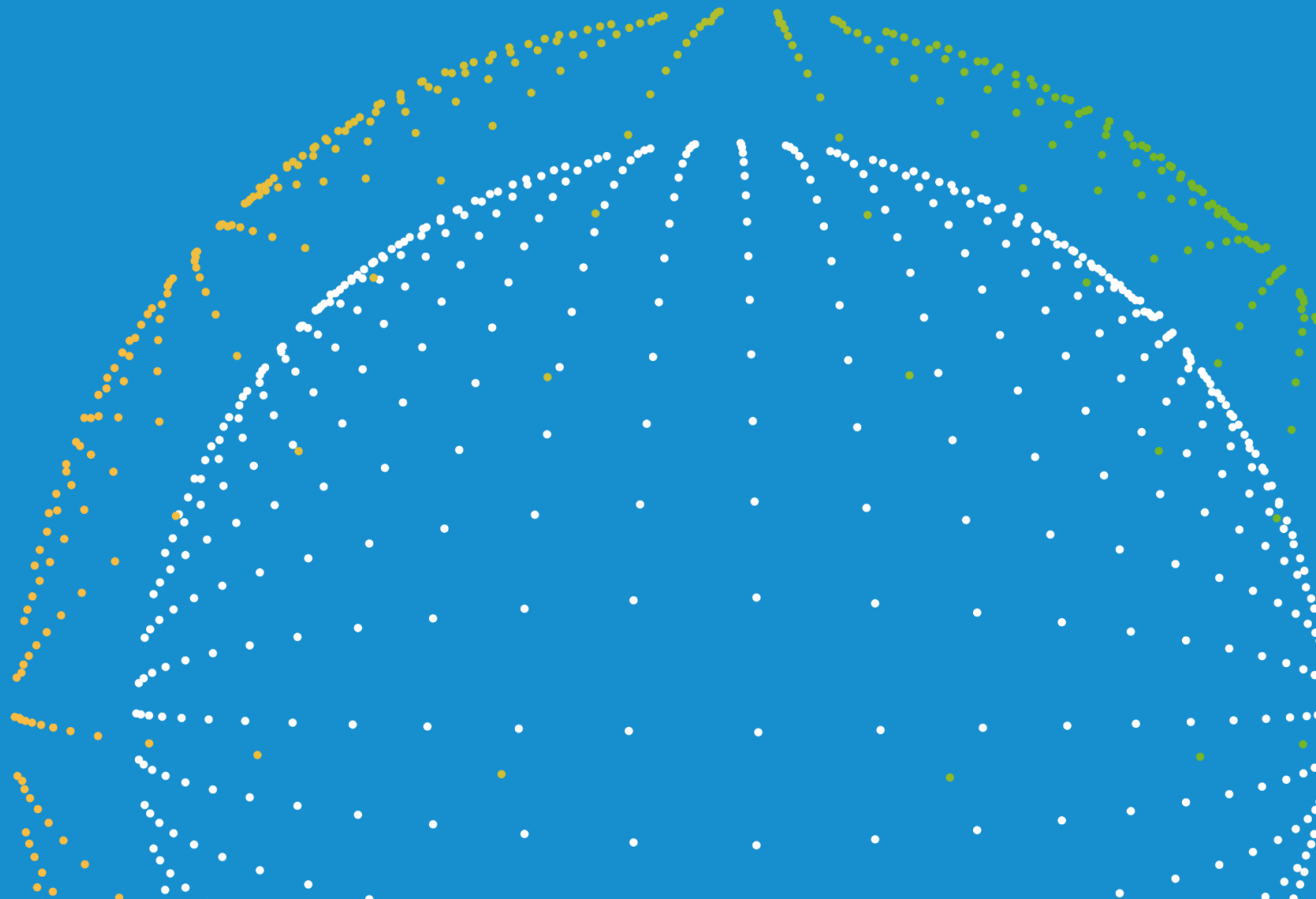
Data Spaces Symposium

Building the Common European Agricultural Data Space



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Benefits & challenges of sharing data in agriculture

Businesses: exploitation of data will enhance EU industry; create B2B marketplace; increase access to digital single market, innovative solutions

Governments & Public authorities: sector analysis; data can be used for policy monitoring

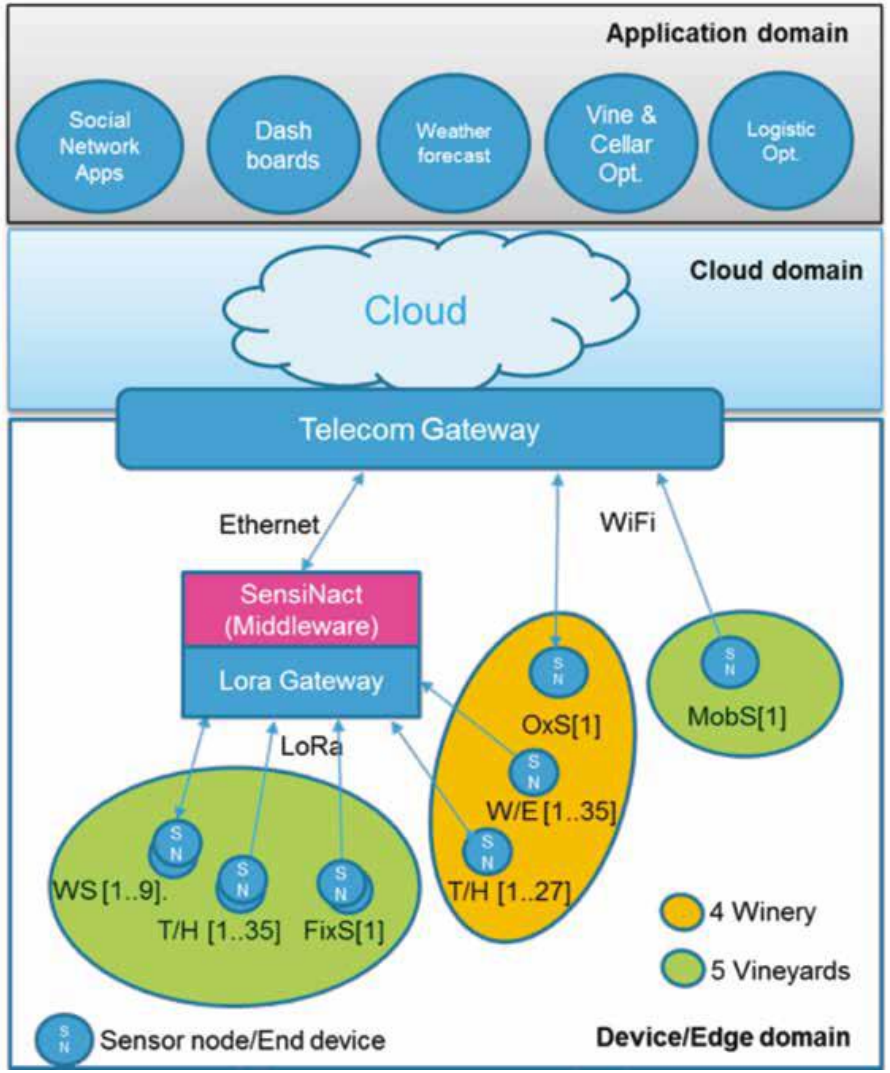
Farmers: Improve performance with decision support systems; data accessible from one entry point

Reluctance to share data: security, competition concerns, lack of trust

Dominance of large platforms: capturing increasing share of value –avoid vendor– lock-in

Fragmentation: lack of access to (big) data and of interoperability of data

The potential of agricultural data - Precision farming - Big Wine Optimisation



Horizon2020 project IoF (https://www.iot-catalogue.com)

Objective: Optimize the use of chemicals

Internet of Things (IoT) technology allows to monitor weather, vine conditions in real time; **150 sensor nodes** to gather data from 5 vineyards, covering 150 hectars
IoT System based on a LoRa private network:

- **Data gathering in real time** (weather conditions, vine phenological stages)
- **Big data analysis**
- **Decision-making** at anytime and anywhere through applications on **mobile devices**

Impacts

- Reduced pesticides costs - 20%, Reduced fertilizers costs - 20%,
- 3.4 liter portable water use reduction per liter product,
- Energy use reduction in processing stage, Reduction of GHG
- 400 Euro/ha Productivity gains
- Increased annual savings due to accident prevention

Data sharing in the agricultural sector

- B2B data sharing plays an important role
- Challenges to classify data (e.g. personal and non-personal data)
- Code of Conduct of Agricultural Data Sharing in the Agricultural Sector in place; interplay with Data Act to be assessed
- (Achieving) Trust in data sharing is a crucial factor
- Extent to which B2G data sharing, e.g., to reduce reporting obligations, is in place, varies across Member States

Objectives

- To facilitate the trustworthy sharing and pooling of data for the sector
- A "single data space", building on a set of data sharing initiatives
- Transparent control of data access and use
- Capitalisation of data for the sector in the private and public domains
- Boosting innovation and strengthening the portfolio of data-based solutions for famers
- Enhancing the performance of the sector

→ Lay the foundation for the effective and efficient capitalisation of agricultural/ agriculture-relevant data for various stakeholders

Supporting & complementary actions

- Horizon 2020 and Horizon Europe projects in the field agricultural data
- DEP funded action on data interoperability at EU level
- Testing and Experimentation Facilities for AI in Agri-Food
- Provision of High Value Data Sets

<u>Forthcoming</u>

- Horizon Europe partnership Agriculture of Data

Timeline

- Step 1: Preparatory action: Co-ordination and Support Action (CSA)- Project “AgriDataSpace” (Q4/2022 – Q2/2024)
  - Inventory of existing platforms
  - Taking stock of experiences with the Code of Conduct
  - Proposed design approach based on scenarios
  - Governance scheme
  - Blue-print for the data space
  - Interim results used for the development of the implementation action
  - Input to the work of the data space support centre

CSA follows a participatory approach involving stakeholders and Member States

- Step 2: Deployment Action for the Common European Agricultural Data Space
  - Call open from February – May 2024 (Info session today, after this session)
  - Building on results of the CSA
  - Long-term run-time/ financially sustainable

Thank you!

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