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SMART FARM & AGRI-ENVIRONMENTAL BIG DATA VALUE



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AgriDataValue: Building Europe's Smart Agri-Data Space

European agriculture is under increasing pressure to produce more food with fewer resources, while at the same time reducing environmental impact and adapting to climate change. Farmers, cooperatives and public authorities are expected to make faster, better-informed decisions in an increasingly complex operating environment.

At the heart of this challenge lies data. Modern agriculture generates vast amounts of information — from sensors in fields and barns, drones flying over crops, satellite observations, and digital farm management systems. Yet much of this data remains fragmented, difficult to access, or locked inside isolated solutions.

AgriDataValue places farmers, cooperatives and public authorities at the center of Europe's digital agricultural transition.

AgriDataValue addresses this challenge by creating a new way to **connect, share and exploit agricultural and agri-environmental data** across Europe.

Instead of centralizing data or imposing a single system, the project introduces a distributed approach that respects data ownership, protects privacy and enables cooperation across borders and sectors. In doing so, AgriDataValue supports a more efficient, transparent and sustainable agricultural system.



Smart Farming digital transformation and agri-environmental monitoring

Focus on Innovation & Technology

AgriDataValue goes beyond purely technological innovation. It combines **data space principles, agricultural expertise and real-life validation** to ensure solutions are relevant, trustworthy and ready for adoption.

The project integrates:

- **Smart farming and agri-environmental data streams**
- **Edge, cloud and artificial intelligence technologies**
- **Secure, traceable and explainable data sharing mechanisms**
- **Alignment with European policies and CAP requirements**

A strong focus is placed on interoperability and trust, allowing existing platforms and services to work together rather than compete. This enables data to move where it is needed, under clear rules and with full transparency.

Validated through real farming and environmental contexts across Europe, AgriDataValue builds a **solid foundation for future European agricultural data spaces**, aligned with initiatives such as **GAIA-X and International Data Spaces**. The result is a long-term framework that supports innovation, sustainability and informed decision-making well beyond the project's lifetime.