

# FAIR Data Infrastructure for Agrosystems

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The consortium FAIRagro (launched 2023) focuses on the domain of **agrosystem research** to enable researchers a **FAIR** and **quality-assured** research data management (RDM) to generate, publish and access relevant data, innovative RDM services and modern data science methods to support and advance **our community**.

## Agrosystems

### Scales, disciplines and data categories

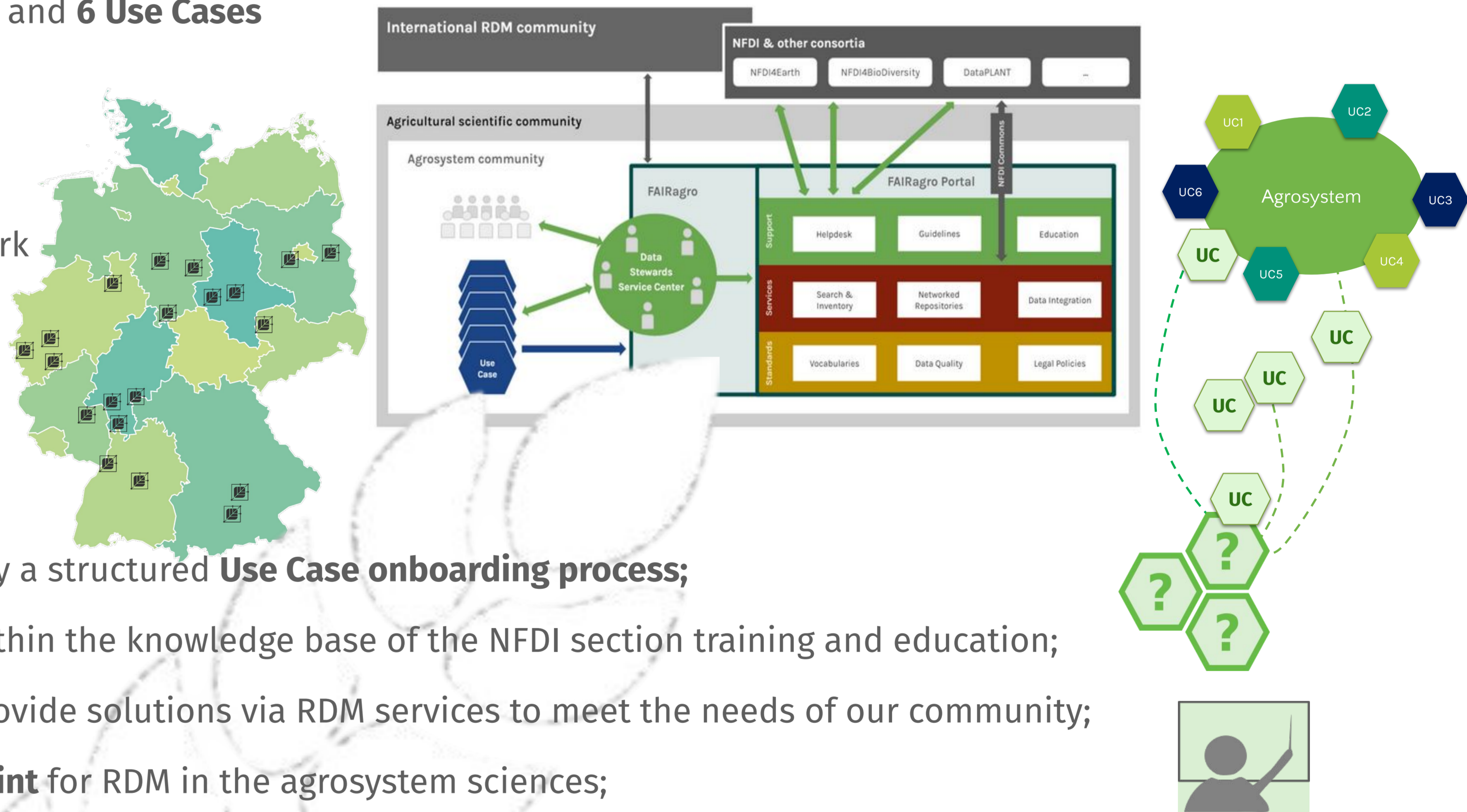
Agrosystem research requires an approach that integrates a broad range of disciplines, from **genetics, breeding to crop, soil and geo-sciences**, and accounts for interactions with other domains in the agricultural sciences at different spatial scales and with heterogeneous data types.



## The consortium

FAIRagro started with **11 (co-)applicants, 18 participants** and **6 Use Cases** and is divided into five task areas:

- TA1 = Use Cases
- TA2 = Community involvement, training and networking
- TA3 = Standards, DQ, FAIRness, metadata, legal framework
- TA4 = Central services and infrastructures
- TA5 = Management and coordination



## Goals and Highlights

- involve the **agrosystem and agricultural community** by a structured **Use Case onboarding process**;
- provide **RDM training and material as open source** within the knowledge base of the NFDI section training and education;
- operate the **Data Steward Service Center (DSSC)** to provide solutions via RDM services to meet the needs of our community;
- establish the **FAIRagro Portal as the central access point** for RDM in the agrosystem sciences;
- improve the **findability of published agrosystem data** and agricultural data repositories □ standardized data exchange;
- **establish** a set of **standards, guidelines and best-practices** as guidance for agronomists (promote and enable FAIR RDM);
- ensure research **data quality** via domain-specific measures of DQ control (establish a quality feedback and curation system);
- provide **legal certainty** to infrastructure providers, data providers and users for the publication and reuse of **sensitive data**;
- ensure **interoperability** of an agrosystem research data infrastructure within related domains;
- contribute to the development of **ONE NFDI** by networking with related consortia and participating in NFDI sections and base services;
- contribute to **European and international developments of RDI** in agrosystem and agricultural research.

In cooperation with

