The FAIRagro Search Hub

The FAIRagro Search Hub combines datasets from different areas of agricultural systems research - search our associated research data infrastructures in an easy and convenient way.

Helpdesk

Our competent team of data stewards is available to the entire community for all questions relating to research data management - free of charge, of course. We are here for you: **dataservice@fairagro.net**

Commitment

Sign the FAIRagro FAIRness and Openness Commitment for a FAIR data future in agriculture and beyond:

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What are FAIR data?
Sustainable management of research data requires homogeneous data infrastructures, formats, and standards.

Deswegen sind FAIRe Daten:

- **F**indable
- **A**ccessible
- **I**nteroperable
- **R**eusable

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Contact: info@fairagro.net

Visit us: www.fairagro.net

Mastodon: @FAIRagro@nfdi.social

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FAIRagro

FAIRagro - a FAIR data infrastructure for agro-systems research

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Our Goals

What we are doing

Since 2020, 26 consortia in the National Research Data Infrastructure (NFDI) have systematically catalogued, networked and made valuable data from various scientific disciplines available to the entire German scientific system. The FAIRagro consortium has been representing the agrosystem research community in Germany since March 2023.

What we want to achieve

Agriculture is facing enormous challenges. Productivity is stagnating, while demand is increasing for natural resources that are being degraded by climate change and the loss of biodiversity.

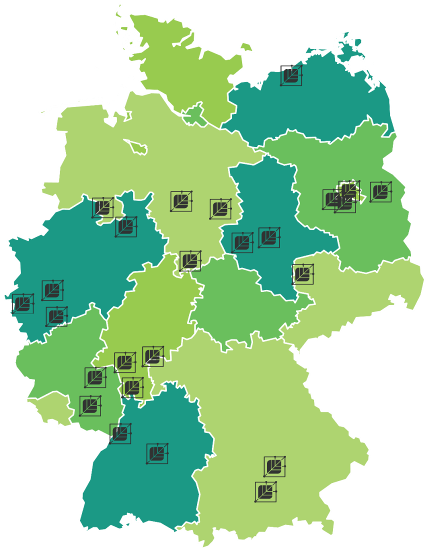
To address these issues, we require sustainable solutions, which can be achieved through integrated research approaches, interconnected research data infrastructures (FDIs) and standardised research data management (RDM) practices. This is how we can ensure the long-term sustainability of plant production.

Our specific goals

- Networking existing disciplinary research data repositories
- FAIR research data management (FDM) with a multi-level support system (help desk, data steward service center, provision of guidelines, training, education, and much more)
- Provision of tools for research data quality assurance
- Creation of legal certainty in the provision and use of sensitive data
- Operation of an analysis platform with predefined workflows for reproducible data analysis
- The FAIRagro portal fairagro.net as a central access point to our services

The FAIRagro Partners

The FAIRagro consortium started the project phase in March 2023. It includes 11 co-applicant institutions and 20 participants representing relevant disciplines in plant, soil and agri-environmental sciences. FAIRagro is funded for five years; an extension through the integration of associated partners is planned.



Co-Applicants

ZALF Müncheberg, Julius Kühn Institute, ZB MED, University of Bonn, IPK Gatersleben, FIZ Karlsruhe, Senckenberg Society for Nature Research, KTBL, Forschungszentrum Jülich, Technical University of Munich, Thünen Institute

Participants

ATB Potsdam, Bavarian State Archives, Bielefeld University, Weihenstephan-Triesdorf University of Applied Sciences, Bavarian State Research Centre for Agriculture, German Agricultural Research Alliance, German Phytomedical Society, University of Hohenheim, ISIP, ZEPP, German Soil Science Society, University of Göttingen, Verbundzentrale des GDV, Deutscher Wetterdienst, Deutsches Biomasseforschungszentrum, Helmholtz-Centre for Environmetal Research, Gesellschaft für Pflanzenbauwissenschaften, IGZ, University of Rostock, Humboldt-Universität zu Berlin

Our Task Areas

The FAIRagro consortium is divided into five task areas (TA) with different areas of responsibility:

TA1 Use Cases - Implementation

Here, the challenges of agrosystems science are addressed, which are formulated in 14 specific use cases. The use cases cover a broad spectrum of research questions on agricultural systems and serve.

TA2 Community Involvement and Networking

The agrosystems community, which is spread across many disciplines and organizations, is addressed here: Ideas, needs and feedback are collected, events are organized and training and support are offered.

TA3 Standardization, Interoperability and Quality

Implementable guidelines, quality and legal metadata standards are essential for better reusability of data. They are developed here.

TA4 Infrastructure Services

This is where the central FAIRagro services are provided, data repositories are linked and made searchable. The technical requirements for data integration workflows and infrastructure services are implemented here.

TA5 Management and Coordination

The FAIRagro project office: responsible for coordination and management, for the development of FAIRagro into a sustainable institution and for relations with the NFDI and relevant (inter)national RDM initiatives.