

FAIR Data Infrastructure for Agrosystems

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aims to offer researchers in the agrosystems FAIR and quality-assured research data management (RDM). Agrosystem research requires an approach that integrates a broad range of relevant disciplines from genetics and breeding to crop, soil and geo-sciences. We focus on the generation, publication and access of relevant data, innovative RDM services and modern data science methods in the context of the German National Research Data Infrastructure (NFDI).



Our Use Cases

Research data in the agrosystem area covers different scales and data types ranging from satellite data of regions to genetic data of individual This plants. and diversity respective challenges in RDM are addressed by our six flagship use cases:

"Integrated modeling"

 Software tool for automated data search, transfer, conversion and plausibility check for input and output data of crop models

"Agronomy"

- FAIR datasets for model calibration of crop-soil nitrogen models
- Easy scaling and aggregation of data including uncertainty quantification

"Long-term experiments"

- Metadata model and publication guidelines for LTE data
- Published LTE data usable for models simulations

"Pest & diseases"

- Guidelines for standardization of yield loss trials
- Catalog of IPM-related data, including experiments, surveys and auxiliary data

"Sensor systems"

 Publication and visualisation of a benchmark dataset of complete field phenotyping data suitable for machine learning approaches

"Breeding"

- Guideline for curating genomic and phenotypic data
- Publication of genotype × location × year × management prediction model and its output

Services for You



FAIRagro Portal

- Central search hub
- Helpdesk



Training

- Training & education
- Guidelines



Data Steward Service Center

User-friendly infrastructure

research data repositories

Networking of federated

Search & inventory

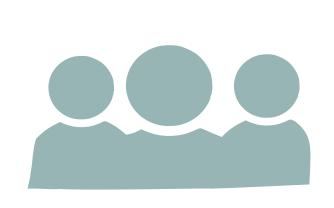
Data integration

- Hands-on agricultural RDM
- Data management plans
- Data publication



Additional use case ideas

Submit a new use case via our onboarding process to integrate your needs and disciplines. New use cases can extend existing ones, cover a new research topic in agrosystem research or even enter new disciplines in agricultural science.



Community board membership

Be part of our community board to assess submitted use cases and thus determine future developments.



Share your opinion with us

Participate in our surveys, workshops and hackathons, give feedback to our provided tools and help with your specific expertise to make our services better and more userfriendly.

























