



SHARED RDM

Shared RDM Services and Infrastructure

Symposium „Cross-Cutting Research Support Services“

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Opportunities and Challenges

- Collaborations and interdisciplinary research to address societal challenges
- Funding organizations: Goals, strategies and measures
 - Research results are discoverable and accessible
 - Their exploitation potential is maximized



FAIR Data Austria

Lead TU Graz

Duration: January 2020-December 2022

Partners:



A...kademie der bildenden Künste Wien
Academy of Fine Arts Vienna

Main achievements:

- Development of a basic RDM infrastructure taking into account the FAIR principles
- Professionalization of Data Stewards in Austria and establishment of Data Steward Models

DATA STEWARD MODELS

Depending on the size of the university, the resources available, the profiles of the data stewards, and the training offered, there are different models that meet different needs. For the Austrian context, three main models can currently be identified.

Data Steward Contact Point

Data stewards of this type forward inquiries, network, offer general advice, but do not perform any operational activities (e.g., create data management plans or develop policies)



Data Steward Office

Data stewards are positioned at a central organizational unit that bundles different competencies and offers appropriate services/advice. The competencies are broader because they are shared among several people



Data Steward Network

Data stewards are based at the faculties, main research areas or institutes. They have discipline-specific knowledge and research experience and can therefore provide advice on a particularly discipline-specific basis



FAIR Data Austria

Keys to Success

- **Dedicated teams at partner universities:**
 - **Interdisciplinary composition:** software developers, scientific and support staff, data managers/stewards
- **Stakeholder involvement** for effective knowledge transfer
 - Incremental tool development:
 - Early **engagement** of friendly users
 - Emphasis on **co-creation processes** to engage **researchers**
- Focus on community building, networking, and **sustainable collaboration**



<https://forschungsdaten.at/fair-data-austria-project-successfully-completes/>

Shared RDM Services and Infrastructure

Lead: TU Graz

Duration: July 2023 – June 2026

BMBWF Funding: 1,5 Mil EUR

Partners:



A...kademie der
bildenden Künste
Wien



Associated partners:



Project Mission

Create **framework conditions** to offer selected tools and infrastructures in the field of RDM as **shared services** for Austrian universities and research institutions

Project Goals

(Technical)

Develop concepts for cross-university (operating) models for shared RDM services & infrastructures

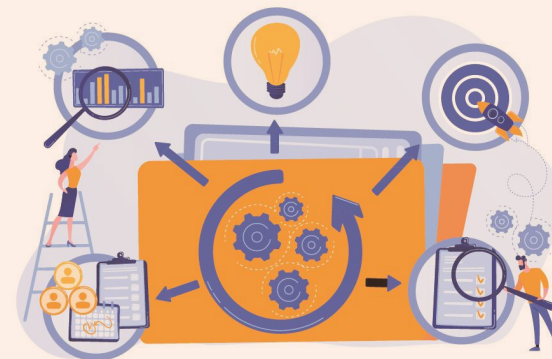
- maDMPs: DAMAP
- Analysis platforms: CyVerse Austria
- Electronic lab notebooks: eLabFTW
- Repository systems: InvenioRDM, Phaidra, DBRepo



Project Goals

(Human)

- Inter-institutional RDM training, data stewardship skills transfer and exchange of experience
- Building networks & collaborations
- Strengthening RDM practices and support across institutions



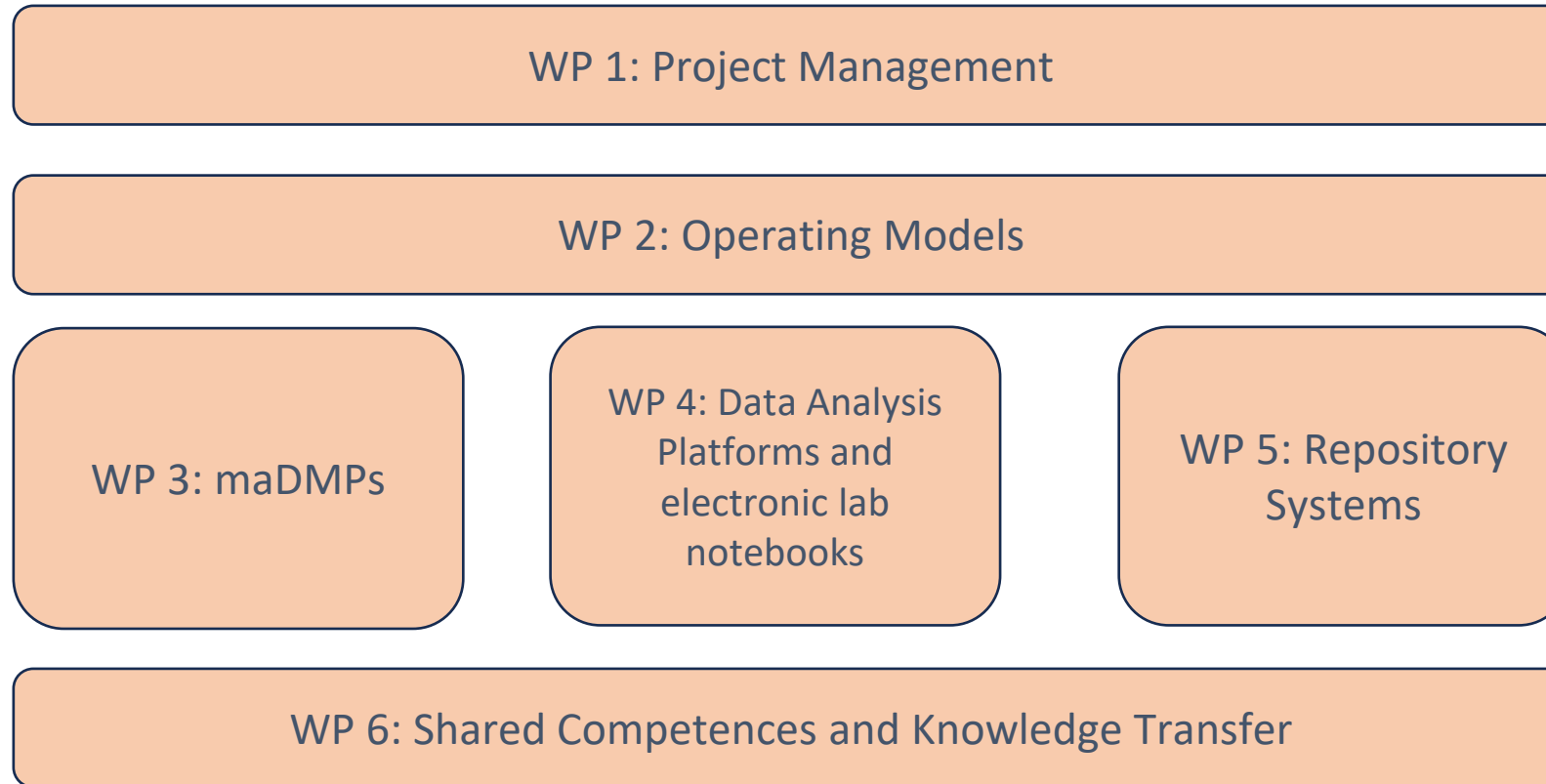
Project Goals

Social (Alignment)

- Utilizing synergies with the ARI&Snet project and jointly developing use cases
- Networking with European and international initiatives (e.g. EOSC, RDA), projects and (research) infrastructures



Project Structure



Operating Models

- Operating models define software provisioning, maintenance, usage, and support
- Selection depends on factors like security, scalability, costs, infrastructure, personnel, and software characteristics
- Models vary based on customer requirements, objectives, and preferences, offering a wide range of variations



Approach

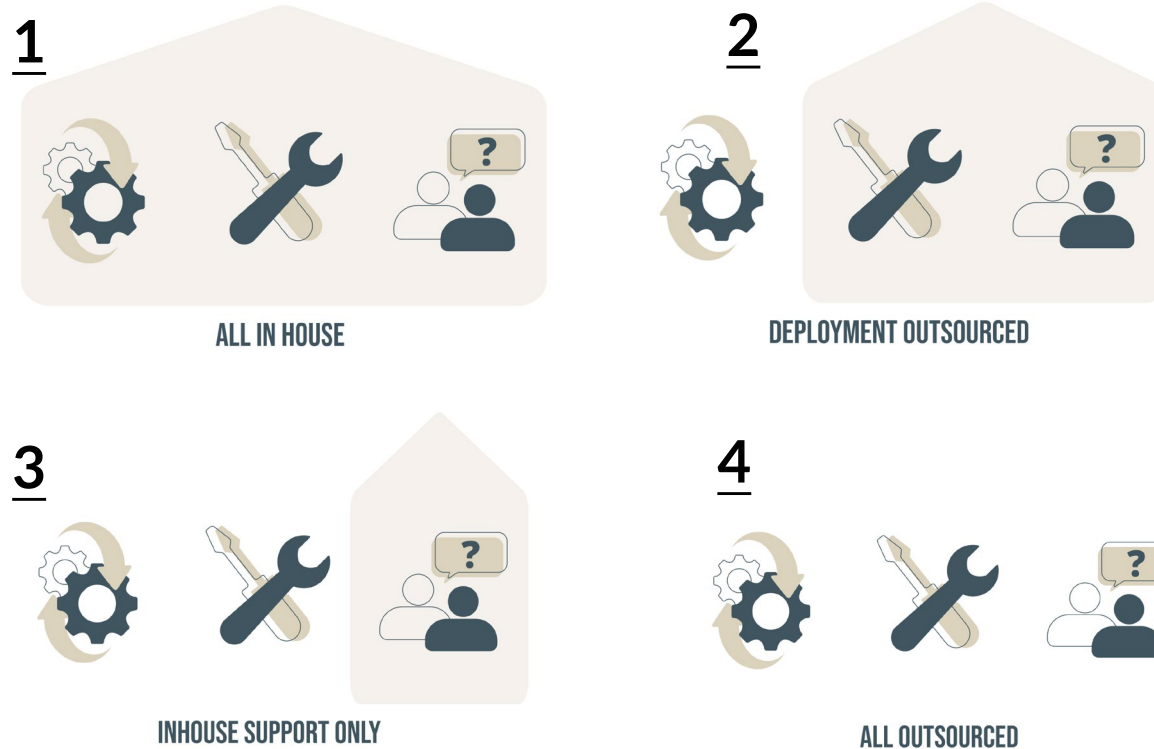
Define cross-university (operating) models considering the resource requirements in all affected departments and organizational and legal prerequisites

- Analyze the individual initial situation at the target institution (needs assessment)
- Define a preliminary model and its implementation, by evaluating and comparing available models against institutional needs
- Adjust processes and monitor progress

Key Aspects

- **Objectives and requirements:** What need should the tool fulfill? What benefits does the solution bring to the institution?
- **Roles and responsibilities:** Who can provide the tool and what roles will be assumed? Which responsibilities must be assumed by the recipient and which by the provider?
- **Processes and procedures:** What processes are necessary for provision and what does maintenance look like? What concessions need to be made? What form of support and help desk solutions need to be set up?
- **Resources and infrastructures:** What hardware and what (additional) software is required? Do additional services have to be provided in order to operate the tool? What resources need to be allocated for this?

Identified (Operating) Models



1: All in-house

- Internal: Deployment & maintenance of the tool, support activities
- External: -

2: Mainly internal / Deployment outsourced*

- Internal: Maintenance of the tool, support activities
- External: Deployment of the tool

3: Mainly external / Support in-house*

- Internal: Support activities
- External: Deployment & maintenance of the tool

4: All external / outsourced

- Internal: -
- External: Deployment & maintenance of the tool, support activities

*M2& 3: internal / external components may vary

Identified Use Cases



Vetmeduni Wien

eLabFTW/ CyVerse



Uni Innsbruck

eLabFTW/ CyVerse



MedUni Graz

DAMAP/ InvenioRDM



WU Wien

DAMAP



Uni Graz

DAMAP/ InvenioRDM

A...kademie der
bildenden Künste
Wien

A...kbild

eLabFTW/ CyVerse



BOKU Wien

DAMAP/InvenioRDM



JKU Linz

eLabFTW/DAMAP

Technical Communities

DAMAP

- DAMAP Community Manager
- Product Owner Meetings
- Regular Core-Team Meetings (Further development)
- Knowledge transfer and support for national institutions
- Alignment - international

InvenioRDM

- Core-Teams (Further development at institutions)
- Regular Exchange of Core-Teams
- Knowledge transfer and support for national institutions
- Alignment – international (CERN)

ELN (Electronic Lab Notebooks)

- Regular exchange of ELN operators
- Knowledge transfer and support from the community
- Creation of a collection of materials
- Online meet-ups and chat for short communication channels

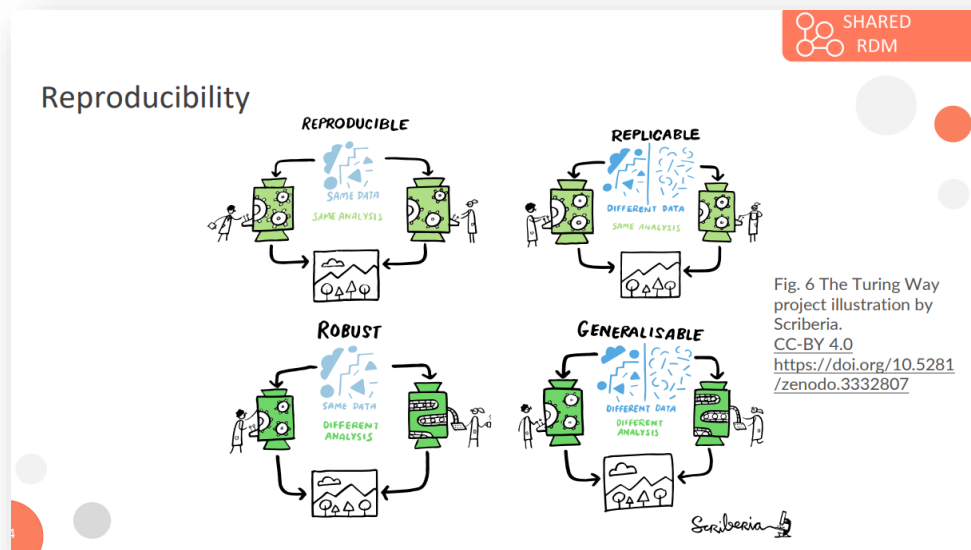
Networks & Communities

National RDM Exchange

- Monthly exchange on RDM topics (Community Engagement, RDM Tool - Awareness and Support, RDM at your own institution)
- Also open to external persons (national & international)

Webinar series "Research data management in Austria"

- Monthly webinars on different topics
- Target group varies depending on the topic (researchers, RDM support staff, ...)
- Recordings are made available on YouTube(<https://www.youtube.com/@rdm-austria>)
- Topics 2023/2024:
 - Data Management with LinkAhead
 - Reproducibility in Science
 - Data reuse workshop
 - OERs
 - Data Steward Course and lessons learned



International Alignment

Advancing Research Data Management and Open Science in Austria

The FAIR National Roadshow series is visiting Austria on the 18th of June 2024!

The event will be virtually hosted by the Graz University of Technology, in Austria

The aim of this event is to present the work done in Austria on the national level and also learn about European developments and results of EOSC-related projects such as FAIR-Impact. The event will debate around metadata and semantic interoperability, as well as FAIR-enabling repositories and Austrian National Open Science Policies.

REGISTER NOW

Target audience: researchers, technical and research support staff

Language: English

Date: 18 June 2024, 10:00 - 13:00 CEST

Local facilitator(s): TU Graz as a representative of the [Shared RDM Services & Infrastructure](#) project in collaboration with the [EOSC support Office Austria](#).



FAIR-IMPACT events
National Roadshows

18 June 2024 10:00-13:00 CEST

<https://fair-impact.eu/events/national-roadshows/fair-impact-national-roadshow-austria>

Lessons learned:

- Customized operating models can cover every use case
- Operating models must adapt to the institutions, not the other way round
- Early involvement of all stakeholders from research support and IT departments is a central aspect
- Practical implementation involves software developers from support and pilot universities meeting in multiple working sessions to discuss, document, and implement workflows
- Data stewards or relevant individuals from participating institutions discuss and develop necessary support structures (introduction phase, on/offboarding, manuals, workshops, etc.) for successful operation
- Benefits for researchers through reduced complexity and increased accessibility of applications

Outlook:

- Implementation of identified use cases
- Refinement of the operating model concepts for the 2nd project phase
- Extension of networks and community activities
- Cooperation with ARI&Snet project

CONTACT

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<https://forschungsdaten.at/en/sharedrdm/>