



Title	大阪大学オープンサイエンスシンポジウム：オープンサイエンス時代の研究基盤と人材育成：日本における実装と展望
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The University of Osaka Institutional Knowledge Archive : OUKA

<https://ir.library.osaka-u.ac.jp/>

The University of Osaka

Sustainability and Cost Structure in PHAIDRA and the European Research Data Infrastructure

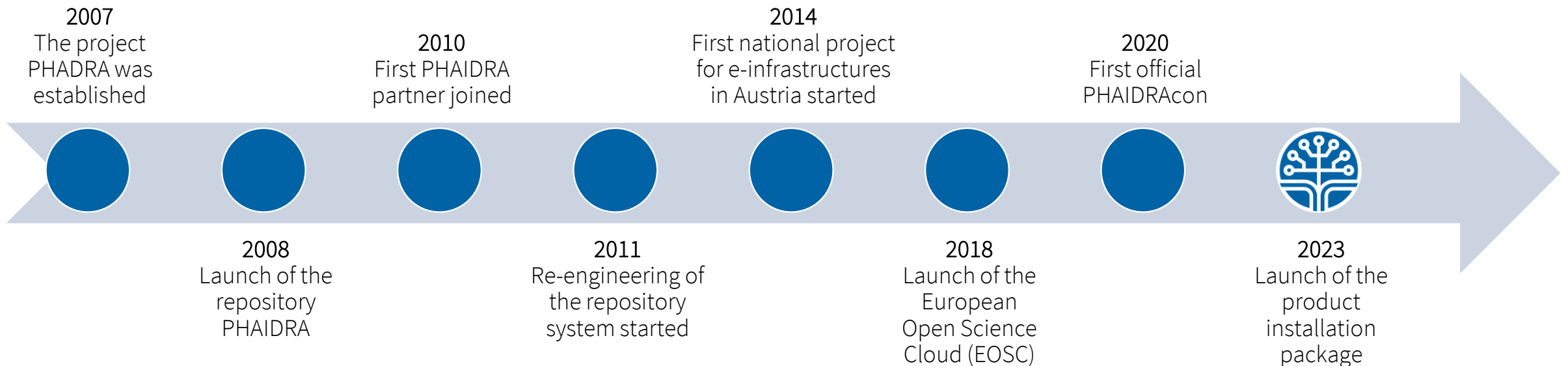
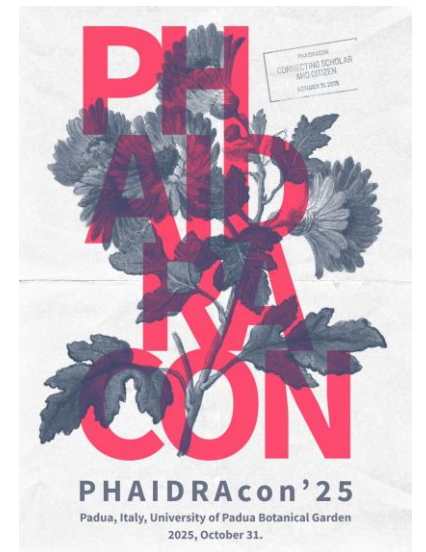
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The History of PHAIDRA

The Evolution of the Institutional Long-Term Archiving System



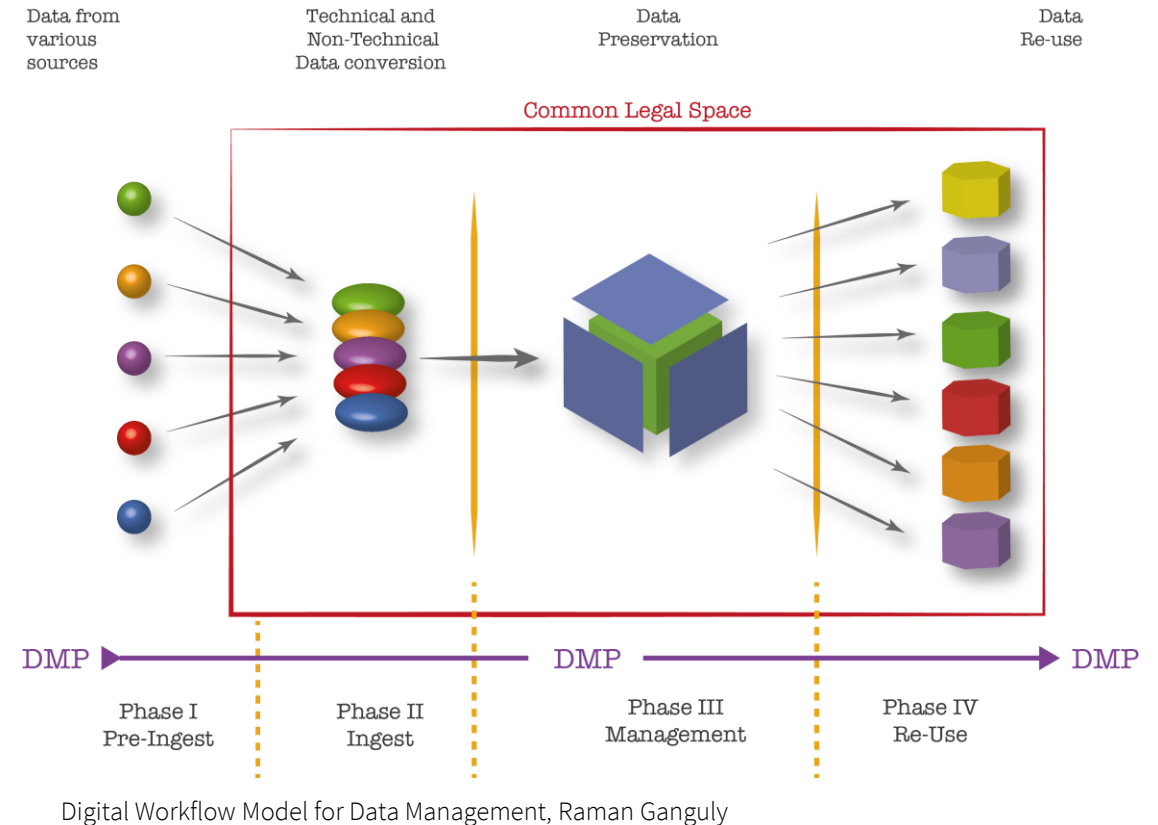
First Major Challenges

- **Researchers** didn't understand the repository service:
 - “What are data and what are metadata?”
 - “What can I as a researcher expect from the repository?”
 - “Which kind of information is needed from us (the researchers), to preserve our data?”
- **We** didn't understand what researchers need from a repository service, e.g. that:
 - A web-frontend for the upload of data is not always useful,
 - Repositories should follow the workflow of the researchers,
 - Building a repository is more of a team effort, than individual effort.



Workflow for Data Management

- **Phase 1:**
Production of data – responsible is the data producer (researcher)
- **Phase 2:**
Ingest of data – handover of the data from the producer to the central data management
- **Phase 3:**
Data Management – focus on data preservation (data management)
- **Phase 4:**
Re-Use – handover to the re-user



Roles Along the Workflow

Pre-Ingest

Data Champions help researchers manage their data in their current research project. They are part of the research process.

Ingest

Data Stewards interact with a research project and are **NOT** part of the process. They are the link between data production and data management.

Data Management

Data Librarians are operating a repository. They are responsible for the quality of the data over time and provide access to the right people.

Re-use

Data Curators structure the data and help re-users find the correct data.

Two Hats

Role of a Repository Developer

The **software** must be sustainable

It must be easy to deploy, easy to operate

It must be based on standards

It must be possible to upgrade all components

Role of a Repository Service Provider

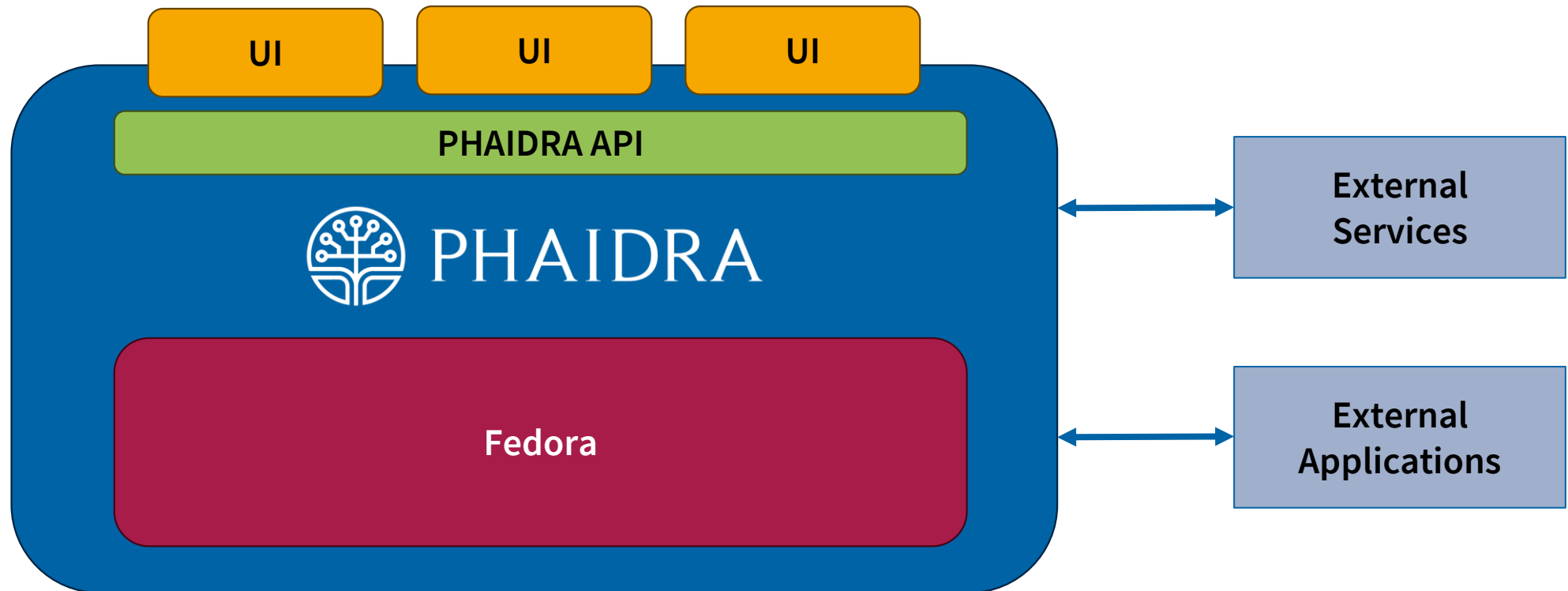
The **service** must be sustainable

It must be customisable

It must be possible to adapt fast to new
use-cases

Strong support structure necessary

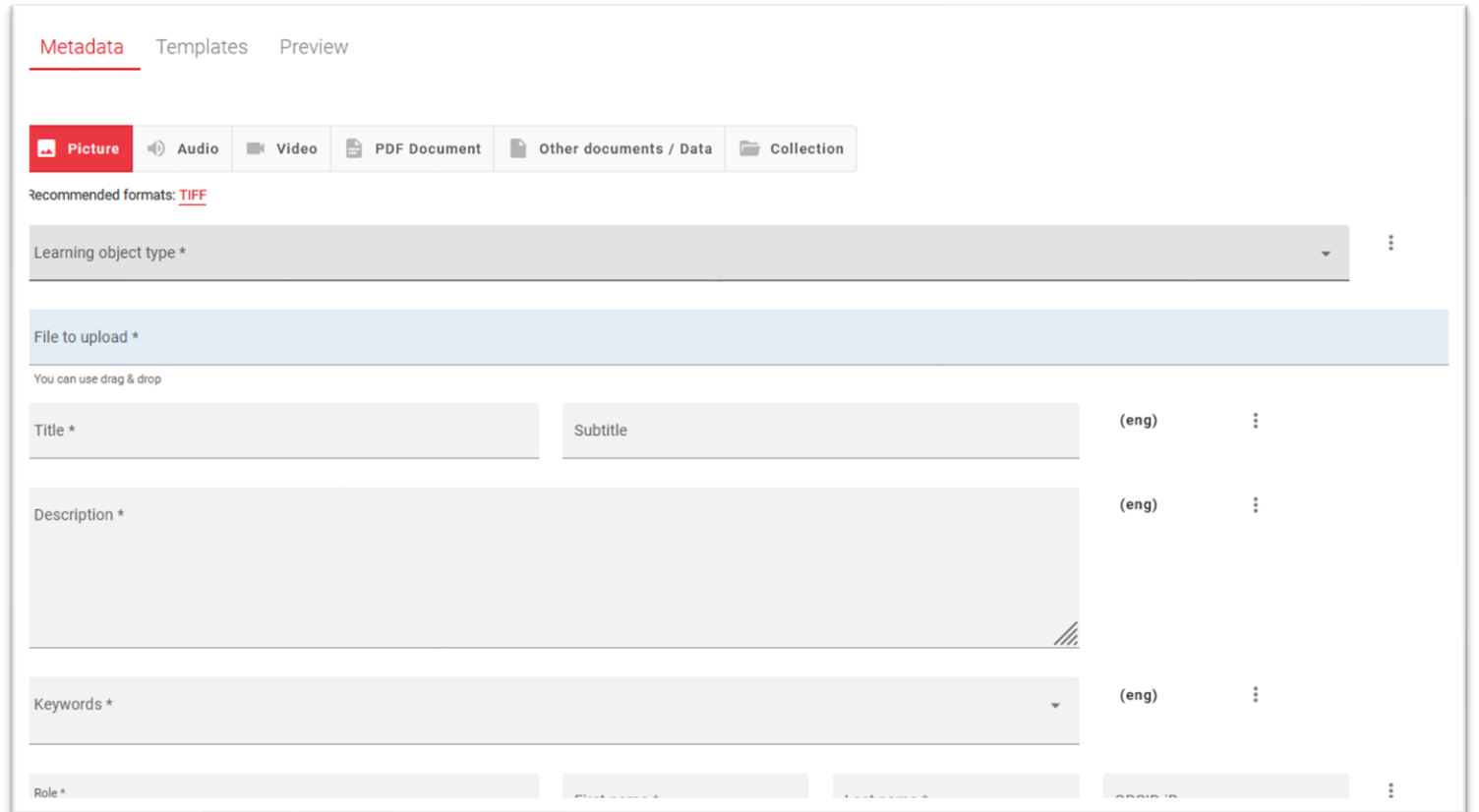
Software Architecture



Adoption of Use-cases I

Example 1: Open Educational Resources (OER)

- New Metadata
- Different metadata fields



The screenshot displays the 'Metadata' tab of a PHAIDRA interface. At the top, there are tabs for 'Metadata', 'Templates', and 'Preview'. Below these, a row of buttons allows selecting the media type: 'Picture' (selected), 'Audio', 'Video', 'PDF Document', 'Other documents / Data', and 'Collection'. A note indicates 'Recommended formats: TIFF'. The form includes several required fields marked with an asterisk: 'Learning object type *' (a dropdown menu), 'File to upload *' (a large blue box with a 'You can use drag & drop' instruction), 'Title *' and 'Subtitle' (text boxes), 'Description *' (a large text area), 'Keywords *' (a dropdown menu), and 'Role *' (a text box). To the right of the 'Title', 'Description', and 'Keywords' fields are language selection dropdowns, all currently set to '(eng)', and vertical ellipsis icons for additional options. At the bottom, there are four more text boxes for 'Publisher', 'Contributor', 'Rights', and 'Access rights', each followed by a vertical ellipsis icon.

Adoption of Use-cases II

Example 2:

Website Archiving

- New content type
- New visualisation



Working with Research Projects

- Connection to existing research infrastructure
- Customized UIs for projects
- Representation of the content on project websites



Data Stewardship at the University of Vienna

Main Focus of the Data Stewardship Program

- DS are first point of contact
- Support for researchers in accessing the university's diverse services and infrastructures
- Drive forward the development of new services
- Provision of discipline-specific support for Research Data Management (RDM)
- Raising awareness of responsible research with a focus on RDM
- Promotion of reproducibility

Target Groups

- Academic staff
- PhD students and postdoctoral researchers
- Bachelor's and Master's students
- General administrative and technical staff

Slides adapted from Tereza Kálova et al. <https://orcid.org/0000-0002-1764-7228> and Kalová, T. (2024, Juni 6). Certificate Courses, Workshops, Trainings... What Do Data Stewards Need? Insights from the "Data Steward" Certificate Program at the University of Vienna. HeFDI Data Week 2024, Online. Zenodo. <https://doi.org/10.5281/zenodo.11483014>, CC BY 4.0

Organization and Financing

Pilot Phase: 3 Years / 4 Data Stewards; Starting in 2022

- Funding – Full-time positions (IVa):
 - 50% of personnel costs and participation fee for the certificate programme "Data Steward" – Rectorate / University Library
 - 50% of personnel costs – Faculty / Centre

Hybrid model:

- **Line management:** Faculty Managers / Directors of Dean's Offices
- **Subject supervision:** Data Stewardship Coordinator at the University Library



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- **Michael Feichtinger** – michael.feichtinger@univie.ac.at - Data Steward Coordinator
- **Emily J. Kate** – emily.jean.kate@univie.ac.at - Data Stewardess at the Faculty of Life Sciences
- **Monika Bargmann** – monika.bargmann@univie.ac.at - Data Stewardess at the Faculty of Philological and Cultural Studies
- **Korbinian Grünwald** -- korbinian.gruenwald@univie.ac.at - Data Steward at the Faculty of Historical and Cultural Studies
- **Tereza Kalová** – tereza.kalova@univie.ac.at - Data Stewardship Coordinator (Maternity Leave)

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Data Steward Certificate Course

- **Part-time further education program** based on the certificate course “[Data Librarian](#)” and similar courses
- **Academic degree:** Certificate of the University of Vienna
- **Language:** English
- **Duration and scope:** 2 semesters/15 ECTS credits
- **Target groups:** Researchers and Research Support Staff
- **Costs:** from 2950 €

GOAL: To upskill existing staff and prepare new hires for the challenging role of data stewards

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Benefits of Having a Data Steward Installed

- Expert Support Before, During and After a Research Project:
 - Data management plans
 - Requirements of funders and publishers
 - Technical solutions such as repositories and electronic lab notebooks
- Discipline-specific Training for PhD Students
- Co-development of Sustainable RDM Workflows, such as:
 - Data organization
 - Guidelines for archiving web resources – Digital Humanities
- Data Stewards are actively involved in strategic and service development within the University-wide RDM working group
- International Involvement and Outreach



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WHAT YOU NEED TO KNOW ABOUT...
ARCHIVING WEBSITES

HOW TO FACILITATE LONG-TERM PRESERVATION OF WEBSITES AND WEB APPLICATIONS IN YOUR RESEARCH PROJECTS

Archive

DR. EMILY J. KATE IS YOUR DATA STEWARD

**Postdoc Event
Meet your
Data Steward**

LEARN MORE ABOUT RESEARCH DATA MANAGEMENT RESOURCES AT THE UNIVERSITY OF VIENNA AND THE DATA STEWARD PROGRAM!

THE DATA STEWARD WANTS TO HEAR ABOUT YOUR PROBLEMS!

TELL YOUR FRIENDS AND YOUR ENEMIES!
ALL FACULTY OF LIFE SCIENCES POSTDOCS ARE INVITED!

6 JUNE 2023
3 PM - 4 PM
ZOOM EVENT
REGISTRATION REQUIRED

HI THERE!
I'M EMILY, YOUR NEW DATA STEWARD.

I KNOW YOU'RE BUSY, SO I'LL MAKE THIS QUICK. I'M HOSTING A DIGITAL TOWNHALL MEETING AND I WOULD LOVE FOR YOU TO COME!

I'LL TELL YOU ABOUT THE UNIVERSITY RESEARCH DATA MANAGEMENT RESOURCES AVAILABLE TO YOU. HOPEFULLY WE CAN MAKE YOUR WORK A LITTLE EASIER.

BUT I WANT TO HEAR ABOUT YOU TOO! COME TELL ME ABOUT YOUR WORK AND HOW I CAN HELP.

OpenAIRE eosc VOB RDA RESEARCH DATA ALLIANCE DARIAH-EU Digital Research Infrastructure for the Arts and Humanities nestor eosc.IT support office austria elixir forschungsdaten.info LIBER

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Research Data Management at the University of Vienna

University-wide Research Data Management Working Group – Strategic Management and Further Development

- Coordination: University Library
- Commissioned by: Vice Rector Ronald Maier

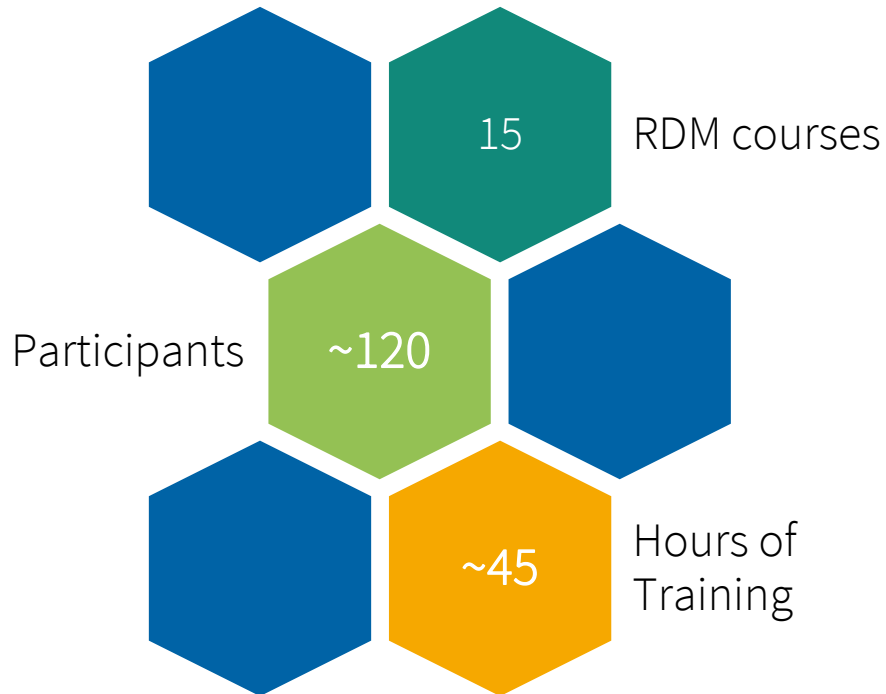
- Institute for Innovation and Digitalisation in Law – RDM Legal Helpdesk
- Research Services and Early-Stage Researcher Support
- Center for Teaching and Learning
- Quality Management

RDM Services – A Collaboration Between:

- (Selected) Faculties and Centres – Data Stewards
- University Library
- Vienna University Computer Center

Slides adapted from Tereza Kálova et al. <https://orcid.org/0000-0002-1764-7228>

RDM Training




Target Audience

- Faculty and PostDocs
- PhD students
- Non-Academic Staff and Scientific Support Staff
- IN PROGRESS: Students (Bachelor's, Master's)

Focus

- Generic RDM courses
- Discipline-specific courses
- Courses focused on RDM tools
- RDM courses on demand

Future Ideas – RDM Working Group and Data Stewards

- Legal Helpdesk for Research Data Management 
- Growing Commitment by PIs and Departments to PhD Training
 - Commitment to RDM Course Enrollment
 - Mandatory Data Management Plans
- Continued Community Engagement
 - Data Champion Program Development
- Implementation of Electronic Lab Notebook Solutions
- Expanding Training for Bachelor's and Master's Students
- Guest Lectures

Future Ideas – Next Generation Repositories

Solutions for:

- Sensitive data
- Large amounts of data
- Archiving of dynamic websites
- Archiving of relational databases



Thank you for your attention!