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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

2007
The project PHADRA was established

2008
Launch of the repository PHAIDRA

2010
First PHAIDRA partner joined

2011
Re-engineering of the repository system started

2014
First national project for e-infrastructures in Austria started

2018
Launch of the European Open Science Cloud (EOSC)

2020
First official PHAIDRAcon

2023
Launch of the product installation package

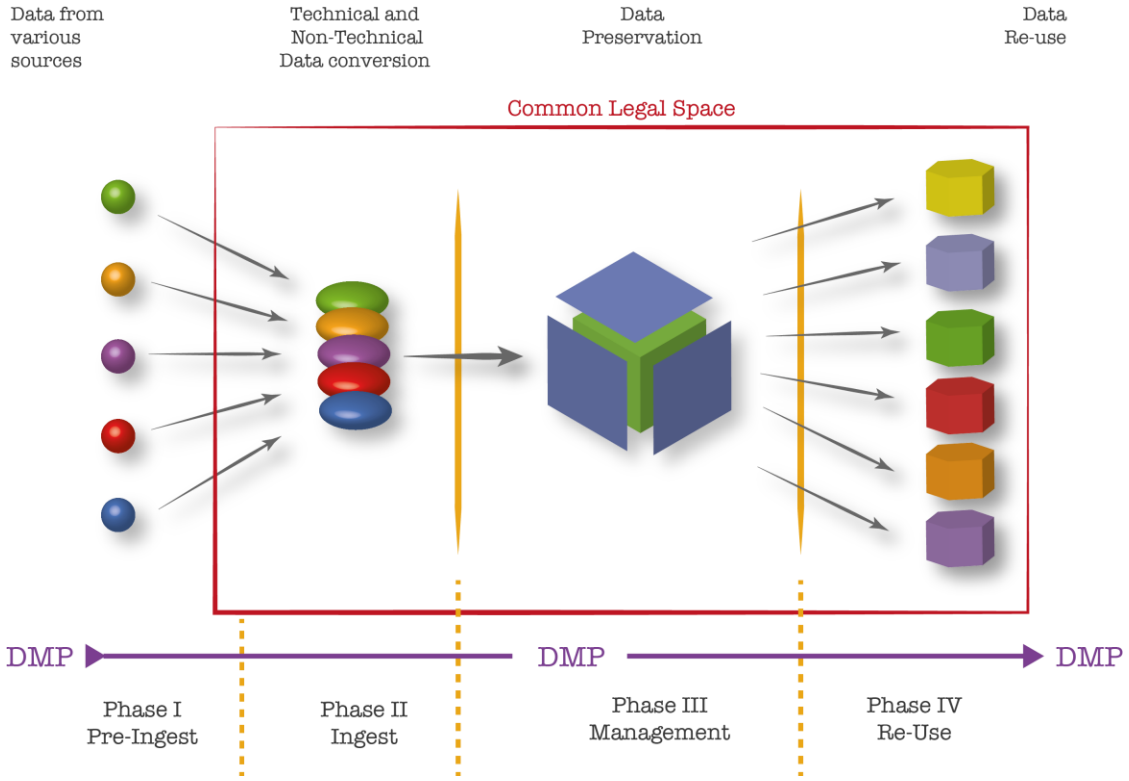
First Major Challenges

- **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



Digital Workflow Model for Data Management, Raman Ganguly

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Roles Along the Workflow

Pre-Ingest	Ingest	Data Management	Re-use
Data Champions help researchers manage their data in their current research project. They are part of the research process.	**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 Librarians** are operating a repository. They are responsible for the quality of the data over time and provide access to the right people.	**Data Curators** structure the data and help re-users find the correct data.

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Two Hats

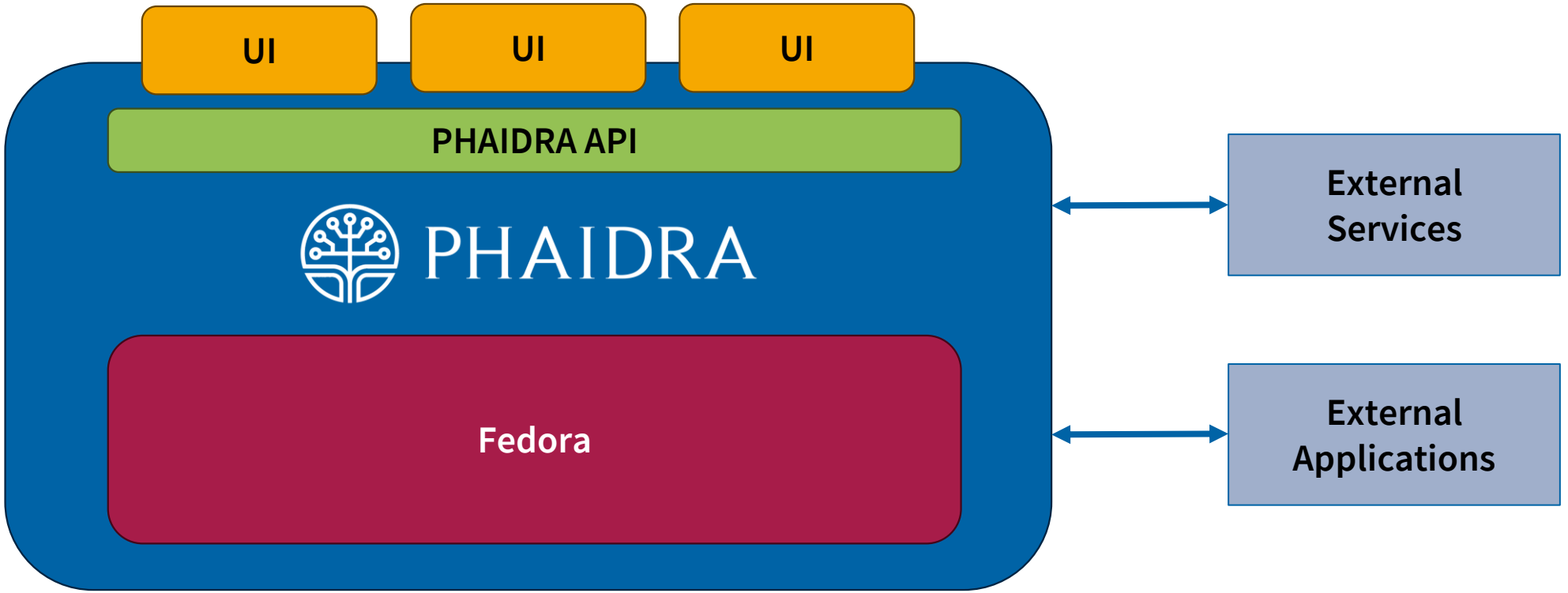
Role of a Repository Developer

- 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

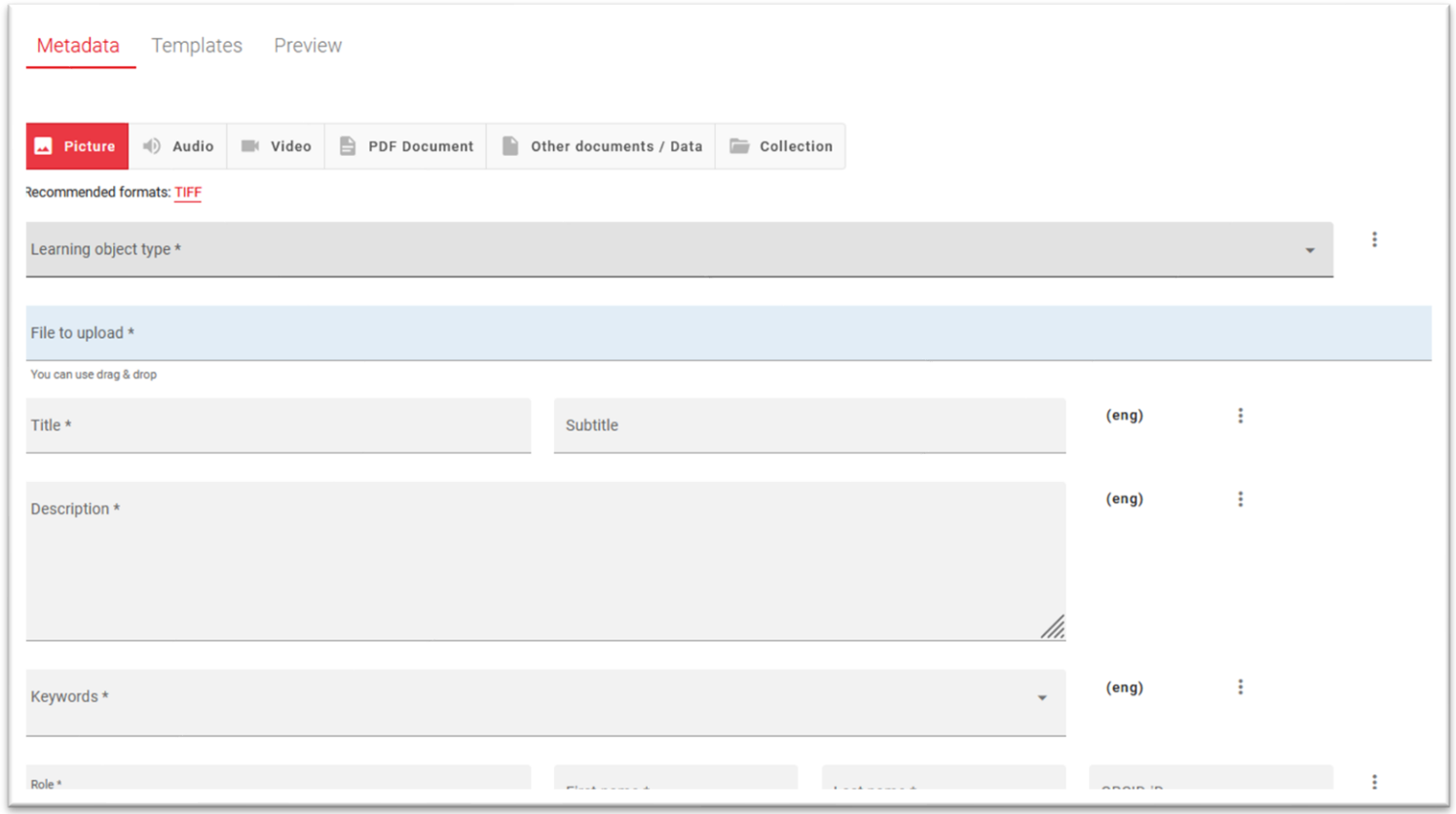


Adoption of Use-cases I

Example 1:

Open Educational Resources (OER)

- New Metadata
- Different metadata fields



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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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

RDM Services – A Collaboration Between:

- (Selected) Faculties and Centres – Data Stewards
- University Library
- Vienna University Computer Center
- Institute for Innovation and Digitalisation in Law – RDM Legal Helpdesk
- Research Services and Early-Stage Researcher Support
- Center for Teaching and Learning
- Quality Management

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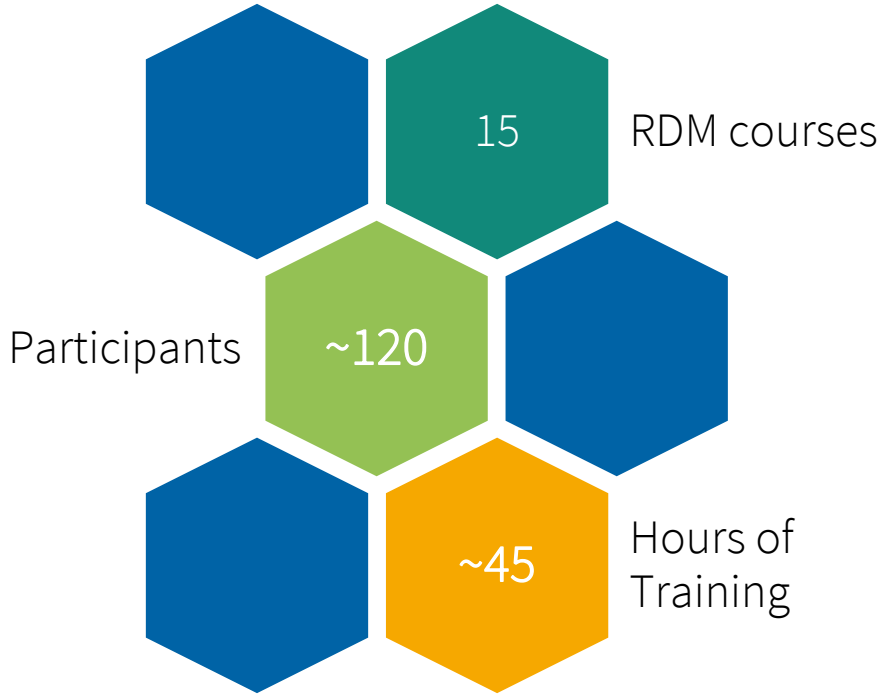
RDM Training



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

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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

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

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!

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