



# 15 Years of PHAIDRA: A Look Back and Forward

Susanne Blumesberger



## Agenda

- Milestones of PHAIDRA
- News Fields of Activity (FAIR, DMP, sensitive Data)
- Overview of PHAIDRA services
- Our Stakeholder
- Lessons learned
- Our Partners

## Milestones

2006	Founding of a working group at the University Library of Vienna for the implementation of a digital repository, respectively a long-term archiving system
2007	"Digital Asset Management System" project starts at the University Library of Vienna in Cooperation with the Central IT Service
2008	Repository PHAIDRA goes online at the University of Vienna April 16: a cooperation between the University Library and the Central IT Service
2010	Start of PHAIDRA partnerships: the University of Padua in and the University of Applied Arts in Vienna become first partners  PHAIDRA becomes project partner of OpenAIRE, the research and innovation funding program of the European Union

Brauchen Sie Hilfe in PHAIDRA?

-  **Online Hilfe:**  
Wenn Sie Hilfe benötigen, bleiben Sie mit der Maus ca. 4 Sekunden auf dem betreffenden Begriff oder Link. Es erscheint ein Button mit einem Hilfstext oder einer Erklärung.
  
-  Die **Phaidra Hilfsseite** kann unter folgendem Link aufgerufen werden:  
[https://phaidra.univie.ac.at/help/get\\_main\\_help](https://phaidra.univie.ac.at/help/get_main_help)
  
-  Die **Phaidra Serviceseite** finden Sie unter diesem Link:  
[www.univie.ac.at/phaidra](http://www.univie.ac.at/phaidra)
  
-  **Technische Probleme?**  
Erzeugen Sie einen Screenshot – und beschreiben Sie das Problem. Anschließend wenden Sie sich bitte an:  
[support.phaidra@univie.ac.at](mailto:support.phaidra@univie.ac.at)
  
-  **Help Desk:**  
Sie können auch den Helpdesk des ZID kontaktieren: (01) 4277-140 60
  
-  **Informationen** erhalten Sie auch unter:  
<http://bibliothek.univie.ac.at/phaidra/>

Wollen Sie PHAIDRA testen?

Sie haben unter  
<https://phaidratest.univie.ac.at>  
die unverbindliche Möglichkeit Objekte vorläufig zu speichern und miteinander in Verbindung zu bringen.

Wo erfahren Sie  
mehr über PHAIDRA?

#### SCHULUNGEN

Es werden laufend Schulungen an der Universitätsbibliothek oder am ZID durchgeführt.  
Anmeldung und Kontaktaufnahme:  
[susanne.blumesberger@univie.ac.at](mailto:susanne.blumesberger@univie.ac.at)

#### SERVICESEITE

[www.univie.ac.at/phaidra](http://www.univie.ac.at/phaidra)

#### KONTAKT

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[paolo.budroni@univie.ac.at](mailto:paolo.budroni@univie.ac.at)  
T: +43-1-4277-151 71

Customermanagement  
Dr. Susanne Blumesberger  
[susanne.blumesberger@univie.ac.at](mailto:susanne.blumesberger@univie.ac.at)  
T: +43-1-4277-151 70



Die Universität Wien  
<http://phaidra.univie.ac.at/o:719>

**IMPRESSUM:** Offenlegung gem. § 25 MedG -  
Verantwortlich für den Inhalt dieser Seite:  
Universität Wien, Bibliotheks- und Archivwesen  
Dr.-Karl-Lueger-Ring 1, A-1010 Wien, Universitätsstr. 7  
1010 Wien © Copyright UB



Permanent Hosting, Archiving  
and Indexing of Digital Resources  
and Assets

Das gesamtuniversitäre Digital Asset  
Management System mit  
Langzeitarchivierungsfunktionen  
Eine innovative Lösung an der Universität Wien

**PORTAL** <https://phaidra.univie.ac.at/>  
**SERVICESEITE** [www.univie.ac.at/phaidra](http://www.univie.ac.at/phaidra)

2008

## PHAIDRA - A REPOSITORY PROJECT AT THE UNIVERSITY OF VIENNA

Markus Höckner, Paolo Budroni

University of Vienna, Dr.-Karl-Lueger-Ring 1, 1010 Vienna

2010

### Abstract

- Permanent Hosting, Archiving and Indexing of digital Resources and Assets
- Long term preservation system
- Cooperation between Vienna University Computer Center, Center for Teaching and Learning and Vienna University Library
- Launched 2006
- Contains about 60.000 objects

### Strength of Phaidra

- Structured metadata
- Access rights
- Clarification of legal issues (terms of use and licensing models)
- Formats and content type model
- Ease of Use
- Training and dissemination work
- First-Level and Second-Level-Support
- Updates
- Classification of digital objects

### Cooperations

- University of Padua (IT)
- University of Belgrade (RS)
- University of Applied Arts Vienna (AT)
- University of Music and Performing Arts Graz (AT)
- Austrian Science Board (AT)

### The System Phaidra

- Modified Fedora Repository
- GSearch
- Perl Web-Application (Catalyst)
- Oracle 11
- MySQL 5
- PROAI
- Phaidra API



- Use of Fedora CMA Architecture
- Differentiation between three object groups (Single-File-Object, Container, Collection)
- Not every file format is designed for long term preservation
- Use of metadata standards (DC, LOM)
- Allocate services (Book Viewer, Image Viewer, Image Manipulator, ...)
- Supports full-text indexing (UTF-8)
- Connected to existing systems at the University of Vienna

### Forecast

- INTEROPERABILITY
- INSTITUTIONAL REPOSITORY
- TEMPUS
- OPENAIRE
- EUROPEANA
- OPEN-ACCESS

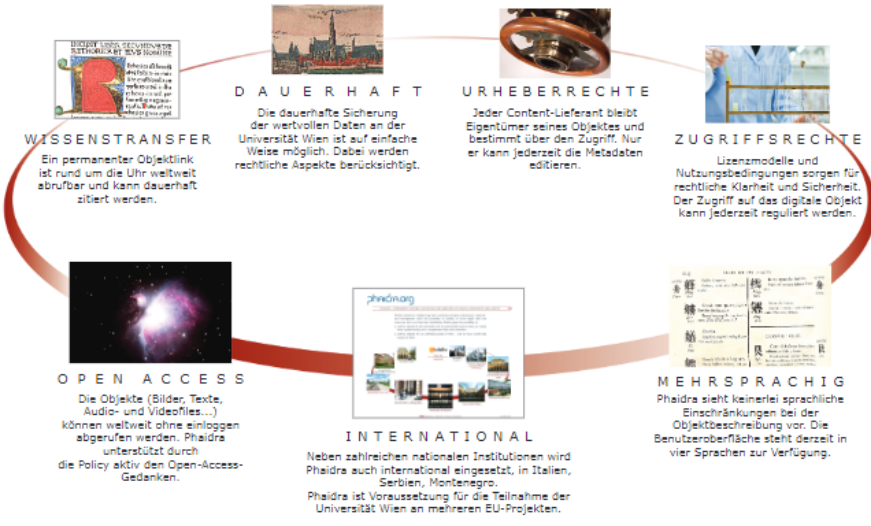
<https://phaidra.univie.ac.at> | [support.phaidra@univie.ac.at](mailto:support.phaidra@univie.ac.at) | <http://phaidraservice.univie.ac.at/>

## Milestones

2011	Partner of the EU project "Tempus" in cooperation with several universities in the Western Balkans region PHAIDRA becomes a partner of the Europeana Libraries project
2012	u:scholar goes online as an add on of PHAIDRA PHAIDRA becomes partner of the OpenAIREplus project Digital Asset Management System UNIDAM complements PHAIDRA PHAIDRA starts membership in COAR, the international Confederation of Open Access Repositories
2013	New PHAIDRA-Partners: University Tuzla , Univerzitet Crne Gore, Univerzitet u Banjoj Luci, Univerzitet u Beogradu, Univerzitet u Kragujevcu, Univerzitet u Nišu, the National Library and University Library Sarajevo and the Vorarlberg State Library become PHAIDRA partners
2014	"e-Infrastructures Austria" is initiated by the Federal Ministry of Science, Research and Economy (BMWFW) and is intended to promote the coordinated establishment and further development of repository infrastructures throughout Austria, the expertise provided by PHAIDRA is used here

## Ein internationales Netzwerk akademischer Institutionen für die dauerhafte Sicherung wertvoller digitaler Bestände zur Förderung des Open-Access-Gedankens

Phaidra eröffnet für Lehre, Forschung und Verwaltung die Möglichkeit, Publikationen, digitale Ressourcen und Objekte zu dokumentieren, zu beschreiben, weltweit zu veröffentlichen und auf lange Zeit zu archivieren.



2012

●●● **eBooks**

Mit dem Book Viewer lassen sich Bücher – darunter hochauflösend digitalisierte, wertvolle Bestände der Universitätsbibliothek – lesen, durchsuchen und herunterladen.

●●● **Multimedia**

Multimediaobjekte können durch die Anbindung an die Streaming Services der Universität optimal genutzt werden.

●●● **Institutional Repository der Universität Wien**

Im IR u:scholar wird der peerreviewte Forschungsoutput der Universität Wien dargestellt. Die technologische Basis ist Phaidra.

●●● **COAR** – Member of Confederation of Open Access Repositories

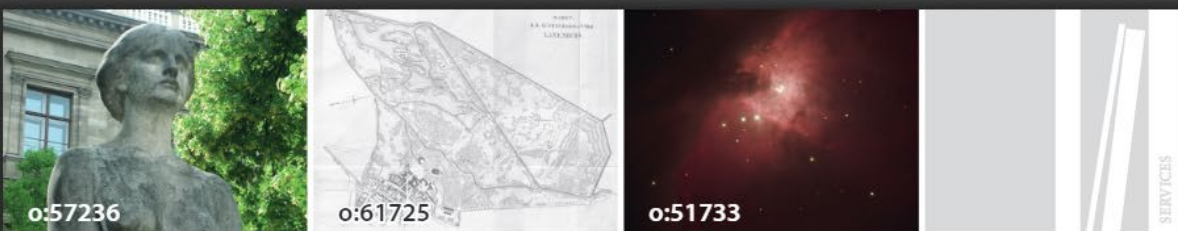
Partner:

Formal: [www.phaidra.org](http://www.phaidra.org)  
Service-Date: [www.univie.ac.at/phaidra](http://www.univie.ac.at/phaidra)



EUROPEAN COOPERATION  
UNIVERSITY OF VIENNA  
UNIVERSITÄT WIEN

Universitätsbibliothek und Archiv  
Universität Wien, A-1020 Wien



## Was kann Phaidra?

- Sichern und Archivieren**  
Wertvolle digitale Bestände werden dauerhaft und zukunfts-sicher archiviert.
- Publizieren**  
Nach dem Prinzip von Open Access werden wertvolle Dokumente weltweit zugänglich gemacht.
- Wissenstransfer**  
Weltweiter Austausch von wissenschaftlichen Informationen zwischen ForscherInnen und Studierenden.
- BookViewer**  
Mit dem Book Viewer lassen sich Bücher – darunter hoch-auflösend digitalisierte, wertvolle Bestände der Universitätsbibliothek – lesen, durchsuchen oder herunterladen.
- Phaidra-Importer**  
Der Phaidra-Importer erlaubt das Erstellen von Sammlungen und das virtuelle „Binden“ von Büchern. Durch Content-Management-Systeme wie z.B. TYPO3 werden Inhalte individuell an diverse Homepages angepasst.
- Streaming-Service**  
Multimediaobjekte können durch die Anbindung an die Streaming Services der Universität optimal genutzt werden.
- Institutional Repository**  
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<https://uscholar.univie.ac.at>

## Links und Kontakt

- Portal:** <http://phaidra.at>
- Service-Seiten**  
<http://phaidraservice.univie.ac.at>
- Hilfe**  
auch bei technischen Problemen (bitte mit Screenshot)  
[support.phaidra@univie.ac.at](mailto:support.phaidra@univie.ac.at)
- Allgemeine IT-Probleme – ZID Helpdesk**  
+43 1 4277 140 60  
[helpdesk.zid@univie.ac.at](mailto:helpdesk.zid@univie.ac.at)
- Workshops**  
Falls Sie an einem Workshop interessiert sind nehmen Sie bitte mit uns Kontakt auf:  
[phaidra@univie.ac.at](mailto:phaidra@univie.ac.at)

<p><b>Dr. Susanne Blumesberger</b> Leitung Phaidra Local/ Customermanagement <a href="mailto:susanne.blumesberger@univie.ac.at">susanne.blumesberger@univie.ac.at</a> +43-1-4277-151 70</p>
<p><b>Dr. Paolo Budroni</b> Projektleitung <a href="mailto:paolo.budroni@univie.ac.at">paolo.budroni@univie.ac.at</a> +43-1-4277-151 71</p>
<p><b>Mag. Gerda McNeill</b> European Projects <a href="mailto:gerda.mcneill@univie.ac.at">gerda.mcneill@univie.ac.at</a> T: +43-1-4277-169 80</p>



Stand: Mai 2013 | IMPRESSUM Herausgeberin: Universitätsbibliothek Wien, Universitätsring 1, 1010 Wien



Permanent Hosting, Archiving and Indexing of Digital Resources and Assets

2013



## Milestones

2015	<p>PHAIDRA consultations on data management plans start at the University of Vienna</p> <p>Universita Ca 'Foscari di Venezia and the Istituto Universitario di Architettura di Venezia become PHAIDRA partners</p> <p>PHAIDRA becomes a partner of the Horizon 2020 project LEARN, which implements a road map for Research Data Management of the League of European Research Universities (LERU)</p> <p>Integration of PHAIDRA objects into the Bielefeld Academic Search Engine BASE</p>
2016	<p>Foundation of RepManNet, the Repository Managers Network Austria</p> <p>PHAIDRA becomes partner of Open Education Austria, a project of Austrian universities for the joint development of a national infrastructure for Open Educational Resources (OER)</p> <p>PHAIDRA becomes partner of Kulturpool, Austria's portal to arts, culture and education, a partner of Europeana</p> <p>Organization of the COAR annual conference at the University Library of Vienna</p> <p>Art University Linz, Art University Graz and FWF - Austrian Science Fund become PHAIDRA partners</p>

## Milestones

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## PHAIDRA NATIONAL DEPOT

Mit Phaidra National Depot steht Phaidra auch allen nichtuniversitären Einrichtungen für die langfristige Archivierung von Forschungsdaten, Bildern, Texten und Dokumenten zur Verfügung.

Bei Interesse wenden Sie sich bitte an:

[phaidra@univie.ac.at](mailto:phaidra@univie.ac.at)

Das Portal finden Sie unter:

<https://depot.phaidra.at>

## DAS NETZWERK

Mittlerweile wird Phaidra von 15 Institutionen in Österreich und über die Grenzen hinweg genutzt, Darunter sind einige Kunstuniversitäten, die Universität Padua, die Vorarlberger Landesregierung, die Universität Belgrad, die Fachhochschule St. Pölten und der FWF.

Weitere Informationen finden Sie unter

<http://phaidra.org>

## LINKS

Phaidra Serviceseite:

<http://phaidraservice.univie.ac.at>

Phaidra Portal:

<http://phaidra.univie.ac.at>

Phaidra wurde von der Universitätsbibliothek Wien in Zusammenarbeit mit dem Zentralen Informatikdienst der Universität Wien entwickelt.



Phaidra: To make sure digital objects can be located, rendered, used and understood in the future.

Stand: Mai 2016

## PHAIDRA REPOSITORIEN

Maintaining information over the long term

Permanent Hosting, Archiving and Indexing  
of Digital Resources and Assets



## KONTAKT

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Customermanagement)

Mag. Martin Gastelner  
(PhaidraPlus)

Für allgemeine Fragen und Workshops wenden  
Sie sich bitte an das Phaidra-Team unter  
**+43-1-4277-15170** oder unter  
[phaidra@univie.ac.at](mailto:phaidra@univie.ac.at)

Technische Fragen richten Sie bitte  
an [support.phaidra@univie.ac.at](mailto:support.phaidra@univie.ac.at)

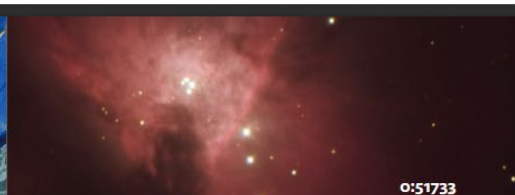
Universitätsbibliothek Wien  
Abteilung PHAIDRA  
Universitätsring 1  
A-1010 Wien

2016

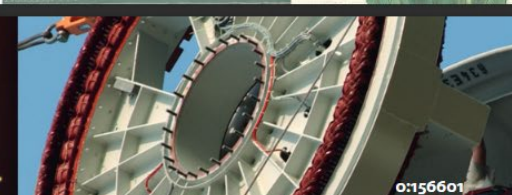
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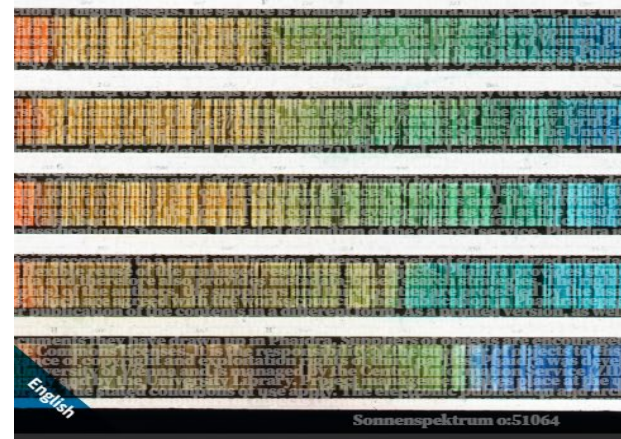
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2017

# Phaidra



Phaidra is the repository for the permanent secure storage of digital assets at the University of Vienna. The digital objects archived in Phaidra receive permanent addresses (e.g. handle, URN; for publications and research data also DOI), are provided with structured metadata and indexed by search engines.

## Benefits of PHAIDRA


- Open and free access (all employees and all students of the University of Vienna can actively use Phaidra)
- Persistent citation (handle-link)
- Differentiated access concept
- Data can be licensed
- Reliable long-term availability
- Dublin Core and LOM-based metadata schemes
- All formats are allowed
- The objects are found through web-search engines
- All objects in Phaidra can be linked in different ways
- The metadata can be described in several languages
- Projects are supported with regard to a data management plan

## Milestones

2017	<p>PHAIDRA becomes partner of the project e-Infrastructures Austria Plus, the successor project of e-Infrastructures Austria</p> <p>Start with regular trainings and workshops on long-term archiving, data management and data management plans at the University of Vienna</p> <p>Founding of the "Code4research" group at the University of Vienna on issues of sustainable software archiving</p> <p>University of Veterinary Medicine Vienna, University of Continuing Education Krems - Danube University Krems and the Anton Bruckner Private University Linz become PHAIDRA partners</p>
2018	<p>Launch of the European Science Cloud (EOSC) at the Vienna University Library, PHAIDRA cooperates</p> <p>University of Applied Sciences St. Pölten becomes PHAIDRA partner</p>



2019


 universität wien

# PHAIDRA AN OPEN APPROACH FOR THE REPOSITORY INFRASTRUCTURE FROM THE UNIVERSITY OF VIENNA

Susanne Blumesberger & Raman Ganguly

**About**

- Phaidra is used to **preserve all kinds of file-based data**
- Data management system is **open to all members** of the University of Vienna
- **Openness to domain-specific requirements** for re-use of the data
- **Researchers can build their own applications on top of PHAIDRA**
- Everyone who records data **keeps full control** of it
- **Machines can access data of the repository**
- Developed and run by the **University of Vienna**



## PHAIDRA Eco system

**Data Management Plan**  
Governance layer

Identification    Visualisation    Processing

Service layer

API

PHAIDRA  
Data layer

API

**Data**  
aligned with  
FAIR Data Principles

**Infrastructure**  
designed with recommendation  
by COAR Next Generation of  
Repositories

**Cooperations**  
with Research Data  
Alliance

Contact: susanne.blumesberger@univie.ac.at / raman.ganguly@univie.ac.at

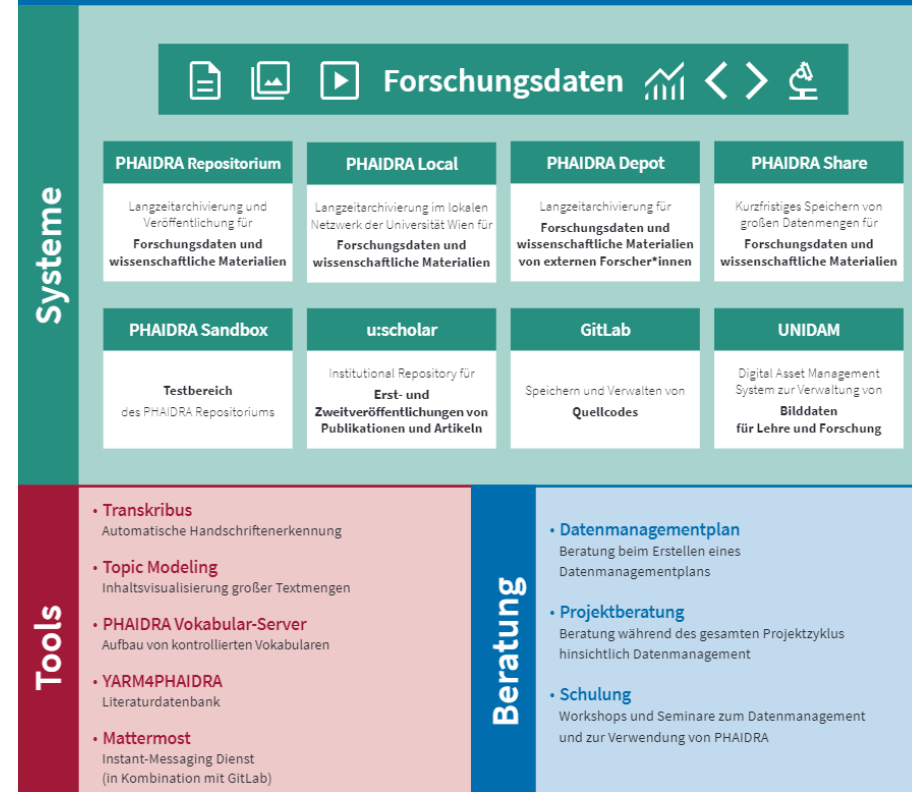
Design: Sara Curtis, Katharina Lütke

## Milestones

2019	December 16, 1 million objects are long-term archived in PHAIDRA Transkribus as a tool for research support is integrated into PHAIDRA-Services, the university library becomes a member of the Transkribus Readcoop
2020	PHAIDRA is co-initiator of the lecture and discussion series "Research Data Management in Austria" Initiation and launch of the annual conference PHAIDRAcon PHAIDRA is partner of the project FAIR Data Austria, with the funding body Austrian Federal Ministry of Education, Science and Research (BMBWF)
2021	Integration of u:theses into the long-term archiving of PHAIDRA Integration of PHAIDRA objects into the library search engine u:search of the Vienna University Library
2022	Academy of Fine Arts Vienna becomes PHAIDRA partner

2022

## Forschungsdatenmanagement mit PHAIDRA-Services an der Universität Wien




[datamanagement.univie.ac.at](https://datamanagement.univie.ac.at)  
Fragen? PHAIDRA-Services: support.phaidra@univie.ac.at



## Milestones

2023	<p>New interface with new functionalities for the PHAIDRA repository at the University of Vienna goes online February 1.</p> <p>Three new institutions become phaidra partners: Carinthia University of Applied Sciences, Gustav Mahler Private University for Music and University College of Christian Churches of Teacher Education Vienna/Krems</p> <p>PHAIDRA is partner of the project Shared RDM (end of project 2026)</p>

**PHAIDRA-Services**  
Datenmanagement und Langzeitarchivierung an der Universität Wien  
Data management and long-term archiving at the University of Vienna



The grid contains the following elements:

- Top-left: Orange background with a white icon of a folder and a magnifying glass.
- Top-middle: Black background with a green and blue waveform.
- Top-right: Orange background with a QR code and the text "find us online".
- Bottom-left: Background of handwritten cursive text.
- Bottom-middle: Maroon background with a white icon of a laptop.
- Bottom-right: Background of colorful code snippets.

2023

**Digitale wissenschaftliche Materialien aufbereiten + anreichern + sammeln + ordnen + speichern + veröffentlichen**

**= PHAIDRA-Services**

- Speichersystem und Tools für nachhaltiges Datenmanagement
- Beratung für Forschende und Lehrende
- Digitale Langzeitarchivierung und FAIRes Forschungsdatenmanagement

**Prepare + enrich + collect + organise + store + publish digital research materials**

**= PHAIDRA-Services**

- Storage system and tools for sustainable data management
- Advice for researchers and teachers
- Digital long-term archiving and FAIR research data management

**Kontakt/contact:** [support.phaidra@univie.ac.at](mailto:support.phaidra@univie.ac.at)

Impressum: Universitätsbibliothek Wien, Universitätsring 1, 1010 Wien | Bildnachweise: © Magdalena Micoloi/Pixabay/Pexels



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# FWF Data Management Plan (DMP)

## Guidance and Template

These guidelines are intended to be used as a guidance in the creation of a data management plan for an approved FWF project. This document is based, with minor changes, on the [RDM Guidance for Researchers](#) of Science Europe.

Please answer all the questions in the second column and address the items in the third column. The DMP template can be found at the end of these guidelines, and further information is available in the [DMP Evaluation Rubric](#).

### Guidance

I General Information		
<b>I.1 Administrative information</b>	Provide information such as name and email address of the principal investigator, FWF project number, and version of DMP	<ul style="list-style-type: none"> <li>- Provide the relevant information.</li> <li>- Consider regular updates of the DMP.</li> </ul>
<b>I.2 Data management responsibilities and resources</b>	<p>Who (for example, role, position, and institution) will be responsible for data management?</p> <p>What resources will be dedicated to data management and ensuring that data will be FAIR (Findable, Accessible, Interoperable, Re-usable)?</p>	<ul style="list-style-type: none"> <li>- Indicate who (name and email address) is responsible for implementing the DMP, and for ensuring it is reviewed and, if necessary, revised.</li> <li>- For collaborative projects, explain the co-ordination of data management responsibilities across partners.</li> <li>- Explain how the necessary resources (for example, time) to prepare the data for sharing/preservation have been costed in. Carefully consider and justify any resources needed to deliver the data. These may include storage costs, hardware, staff time, and repository charges.</li> </ul>
II Data Characteristics		
<b>II.1 Data description and collection or re-use of existing data</b>	<p>How will new data be collected or produced and/or how will existing data be re-used?</p> <p>What data (types, formats, and volumes) will be collected or produced?</p>	<ul style="list-style-type: none"> <li>- Explain which methodologies or software will be used if new data are collected or produced.</li> <li>- State any constraints on re-use of existing data if there are any.</li> <li>- Explain how data provenance will be documented.</li> <li>- Give details on the kind of data: for example, numeric (databases), textual (documents), image, audio, or video.</li> </ul>

## PHAIDRA Systems

### PHAIDRA Repository

PHAIDRA Sandbox (test instance in the network of the University of Vienna to try out all functionalities of the PHAIDRA repository)

PHAIDRA Depot (long-term archiving for non-university institutes and projects),

PHAIDRA Local (digital archive in the network of the University of Vienna)

u:scholar (institutional repository of the University of Vienna)

UNIDAM (Digital Asset Management System of the University of Vienna)

PHAIDRA Share (Contact: [support.phaidra@univie.ac.at](mailto:support.phaidra@univie.ac.at))

GitLab (Contact: [support.phaidra@univie.ac.at](mailto:support.phaidra@univie.ac.at))

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## PHAIDRA Tools

- [Transkribus and Topic Modeling](#) (automatic recognition of manuscripts and content visualization)
- [PHAIDRA Vocabulary Server](#) (building ontologies with a controlled vocabulary)
- [PHAIDRA add-ons](#) (databases DLBT and YARM4PHAIDRA)
- Mattermost (Instant-Messaging Dienst, Contact: [support.phaidra@univie.ac.at](mailto:support.phaidra@univie.ac.at))

## PHAIDRA Networks & More

[PHAIDRA Network](#) (partner institutions with PHAIDRA instances),

[code4research](#) (network for sustainable software development),

[RepManNet](#) (network for repository managers)

[Data Management Plan Consultation](#)

[Connection to projects](#)

[Open Science with PHAIDRA](#)

[RDM Policy](#)

You are here: ▶ [University of Vienna](#) ▶ [Vienna University Library and Archive Services](#) ▶ [Repository Management PHAIDRA-Services](#) ▶ Research Data Management

## Research Data Management with PHAIDRA-Services

The PHAIDRA systems are designed to accompany research workflow from different professional backgrounds. The so called data management plan, which is already required by many promoters and which specifies how the data is used, generated or handled, can be stored in PHAIDRA for long-term storage. Our entire work process with research data follows the [FAIR Data Principles](#) (q.v. [Turning FAIR into Reality](#), Final Report, European Commission, 2018).

### [DMP Support](#)

### [RDM at University of Vienna](#)

### [RDM Policy](#) University of Vienna

### [FAIR Office Austria](#)

### What is research data?

Research data refers to (digital) data which, depending on the unique scientific context, is the subject of a research process therefore generated during a research process or as its result (see Kindling and Schirmbacher: ["The Digital Research World" as a subject of research](#), Information: Science and Practice, 2013 ). Research data is generated using a variety of methods depending on a research question. By source research, experiments, measurements, descriptions, or surveys. This results in a disciplinary and project-specific understanding of research data with divergent requirements for processing and administration. Since research data is necessary to be able to verify the resulting research results, their receipt is a recognized part of good scientific practice (see website [Research Data](#)).

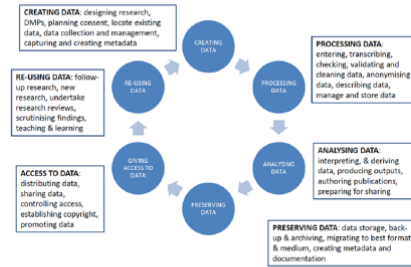
### [Planning Data Management](#)

## More options at the University of Vienna

At the University of Vienna, there are several services available: on one hand for the storage of data during your research process and on the other the long-term availability of the data after completing a research project.

### [Storing at the University of Vienna](#)

### [Archiving and Publishing Research Output at the University of Vienna:](#)



Data Lifecycle. Source: UK Data Archive: [www.ukdataservice.ac.uk](http://www.ukdataservice.ac.uk)

## Research Data Management

[RDM Policy](#)
[Data Management Plans](#)
[Metadata](#)
[ORCID iD](#)
[FAIR and CARE principles](#)
[FAIR Data Austria project](#)
[Legal](#)
[Network Software Development](#)
[Network of Repository Managers \(RepManNet\)](#)
[Research Data at the University of Vienna](#)
[Research Data Management Event Series](#)
[For Humanities and Social Sciences \(Intranet\)](#)
[More Research Support Services of the Vienna University Library](#)

## Contact

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## Data Management Plans

Data management plans (DMPs) are guidelines which are intended to help researchers to deal with data adequately and to enable a subsequent use, furthermore, they also prevent a possible loss of data. Through targeted questions, consideration is given to responsibilities, the handling of financial and human resources, with legal questions, questions about metadata and formats, etc., and more clarity in the handling of data.

The goal is to make data long-term, comprehensible and adaptable. The careful planning of a project brings a number of advantages: cost transparency from the outset, as well as the best use of know-how, infrastructure and services. DMP also promote an understanding of their own work processes in the implementation of projects. (In this sense, they also help to make effective use of one of our most important resources, namely "time".)

We provide you with [guidelines for data management plans](#) for the University of Vienna in English and German, which are based on the work of the project "e-infrastructure austria". The contents are adapted to Horizon2020 projects. DMPs do not only have advantages for the project management, they are also important for the following stakeholders: the project applicant, the repository management, the institution, the sponsor and the policy-makers. For this reason, DMPs can vary in their specific form, depending on the context in which they are generated. In this guide, we mainly address the following user groups: project applicants, research services, repository management to libraries and project management. Thus, during the creation of a DMP, the most important phases of implementation and associated work processes become visible.

## Resources

### **DMP Tools/Assistance to DMP creation**

[Amnesia](#) - Anonymization of research data (OpenAIRE)

[argos](#) joint platform of OpenAIRE and EUDAT for the creation of FAIR-compliant DMPs

[DMPTool](#) University of California Curation Center of the California Digital Library

[DMP Online](#) Digital Curation Centre (DCC)

## ORCID iD in PHAIDRA

A unique identification number for researchers, the ORCID iD, can also be entered in PHAIDRA and links to ORCID profile.

**In PHAIDRA, an ORCID iD can be entered when assigning roles in the Metadata Editor.** One click on the name in detail view and the ORCID iD is displayed, another click and you will be linked to an appropriate ORCID profile.

[ORCID](#) - Connecting Research and Researchers

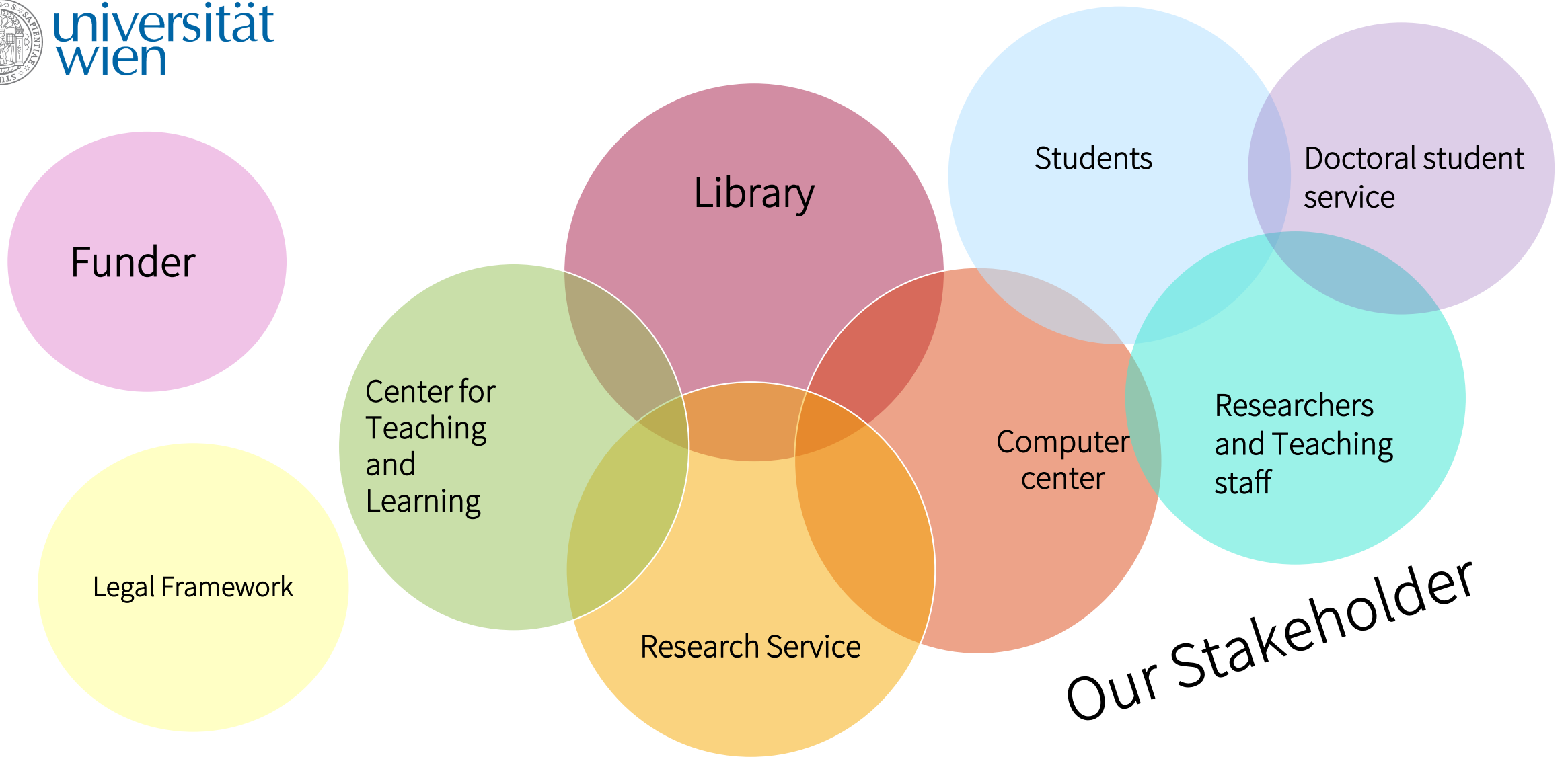
### [ORCID Search](#)

Research funding institutions increasingly require an ORCID iD for the unique identification of researchers, and since 2018 University of Vienna is also an institutional member of ORCID. ORCID is a non-profit organisation, emerging from the "Open Researcher Contributor Identification Initiative" founded in 2010, and is supported by members of the international scientific community. The participants include research organisations, publishers and funding agencies. The current ORCID committee consists of representatives from Elsevier, Springer and CERN, among others. By registering on ORCID website, the iD is assigned as a "persistent digital identifier" in form of an alphanumeric code that ensures machine processing and rapid dissemination. Own research performance can be managed easily, becomes transparent for everyone and can be clearly assigned. In addition, researchers are part of an international network that now has almost 6 million members, enabling a lively scientific exchange.

[What ist ORCID?](#)

## Our strategies

1. Networking
2. Participation in international and national projects
3. Continuous exchange with funding bodies
4. Staying in touch with researchers
5. Cooperation with IT
6. Anchoring the services in the own institution



## What have we learnt? 1/2

1. providing a system is usually not enough, additional services are also needed that are well and, above all, constantly advertised and presented.
2. all services, such as repositories or other archiving options, should be designed to be as open and accessible as possible, but at the same time secure.
3. once established, services require constant adaptation and revision. The various stakeholders should always be involved in good time, as this saves many a diversion.
4. despite the justified demand for open access and open science, it should not be forgotten that there are also research areas, such as medicine, in which sensitive data is produced that must be protected accordingly. The demand for the long-term availability of data is offset by the secure deletion of data, which must also be met.

## What have we learnt? 2/2

5. The diversity of the data also requires the widest possible variety of offerings. One system for all cases is hardly sufficient for larger institutions.
6. researchers often require not only technical support, but above all assistance in archiving their data. The focus here is primarily on the descriptions, the so-called metadata.
7. The issues of operability and usability should not be underestimated.
8. Today's researchers are used to speed and intuitiveness with tools. For this reason, familiar standards should not be dispensed with in repositories either. Keeping up to date and being innovative is also essential

## What recommendations can we draw from our experience? 1/3

1. collaboration: Ongoing collaboration between researchers and technicians and librarians is important. Researchers must be actively involved in considerations relating to research data management and the development of repositories.
- 2 Resources: Sufficient human and financial resources must be available to guarantee stable and comprehensive research data management.
3. flexibility: The existing systems and repositories need to be highly flexible. It must be possible to adapt these again and again if necessary. This applies to the technology and the metadata schemas.
4. diversity: Different technical solutions must be provided for different requirements; in addition to long-term archiving, deletion options or sufficient storage space for researchers should be available.

## What recommendations can we draw from our experience? 2/3

5. framework conditions: Additional suitable framework conditions must be created, for example policies that regulate processes.
6. customisation: The repository and the services offered must be embedded in the existing system landscape.
7. communication: Especially in large and heterogeneous institutions, it is important to advertise the services accordingly.
8. openness: Openly accessible interfaces enable rapid exchange with other systems.
9. networks: Collaboration with research data managers from other intuitions enables joint activities and a lively exchange.



## What recommendations can we draw from our experience? 3/3

10. usability: Last but not least, usability determines whether the repository is accepted or not. This means that repository operators must keep up to date with technical and social developments.
- 11 User-orientation: It is important to know what users need in terms of technology and services.
12. curiosity: Have an interest in research in the respective disciplines, in recent technical and socio-political developments in order to offer suitable services.
13. groundedness: you should be able to assess what can be implemented when and with what means, because empty promises annoy users.



## Our Partners in Austria

### *Austria*

[Academy of Fine Arts Vienna](#) | [Anton Bruckner Private University](#) | [Carinthia University of Applied Sciences](#) | [Gustav Mahler Private University for Music](#) | [University College of Christian Churches of Teacher Education Vienna/Krems](#) | [St. Pölten University of Applied Sciences](#) | [Austrian Science Fund - FWF](#) | [Council of Austrian University Libraries \(ubifo\)](#) | [University of Art and Design Linz](#) | [University of Applied Arts Vienna](#) | [University of Music and Performing Arts Graz](#) | [University of Vienna](#) | [Danube University Krems - University for Continuing Education](#) | [University of Veterinary Medicine Vienna](#) | [Vorarlberger Landesbibliothek](#)

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**Thank you for your attention!**

*thank  
you*