



*Linking a DMP tool to a  
repository: an update on the use  
of RDMO and RADAR*

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Karlsruhe, 01.02.2024*



# Research Data Management Organizer (RDMO)

RDMO

- More than just another **DMP-Tool**
  - Shifting the focus from planning to organizing **RDM**
  - Structuring of information on research data management based on projects, collaborations
  - Import and export projects between different **RDMO** instances
  - freely programmable project exports and imports (**rdmo-plugins**)
    - RDA DMP Common Standard for machine-actionable DMP (maDMP)
    - DataCite XML (Kernel 4.4) for data sets
    - **RADAR Metadata JSON for data sets**
    - Other local data sources (e.g. FIS, easy-Online XML)
  - Use of external **APIs** (e.g. **re3data.org**)

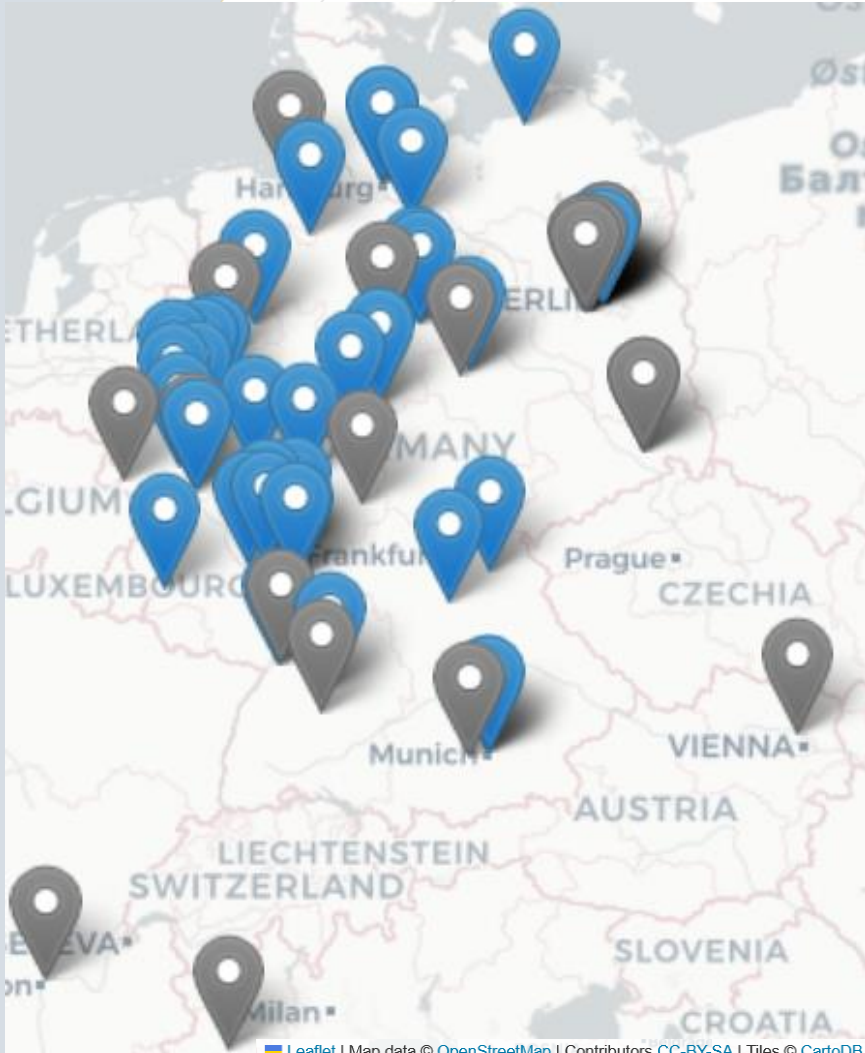


# Research Data Management Organizer (RDMO)



RDMO

- More than just another **DMP-Tool**
  - A structured interview (various question catalogs: generic question catalogs & possibility of customization: **discipline-specific/institutional** question catalogs and answer options)
    - Various widgets, controlled vocabularies, help texts, navigation
    - Tabs for different project partners, data sets, etc.
    - Conditions and skipping of questions
  - **Multilingualism** (German, **English**, French, Italian and Spanish)
  - Create different versions ("snapshots")
  - Display various tasks (e.g. "Contact data protection officer")
  - Display and export questions and views in common formats and according to requirements of specific funders (**Horizon Europe**, institutional requirements if applicable).



## RDMO community:

- Ensures the **continuity** of the **software**
- Founded the **RDMO working group** consisting of:
  - a governance group
  - a software group
  - a content group (with sub working groups)
- User exchange via:
  - Slack-Channel
  - DFN mailing lists



Productive instances

Test instances

# RDMO

A tool to support the planning, implementation, and organisation of research data management.

## Welcome to RDMO

The aim of the RDMO project is to deliver a web application to assist structured planning, implementation and administration of the data in a scientific project. Additionally, the gathered information can be cast into textual forms suitable for funding agencies requirements or for reports.

This is a prototype of the software, for demonstration purposes.

For more information about the project visit [rdmorganiser.github.io](https://rdmorganiser.github.io).

Now: live  
demonstration:

[RDMO development system](#)

### Login

#### Username

#### Password

Remember Me

If you have not created an account yet, then please [sign up](#) first.

If you forgot your password and want to reset it, [click here](#).

Alternatively, you can login using one of the following third party accounts:



SIGN IN with ORCID ID

# My Projects

Name	Progress	Role	Last changed	
<a href="#">Test LIBER Workshop Feb 01, 2024</a>	124 of 177	Manager	Jan. 30, 2024, 4:58 p.m.	
<a href="#">Exploratory study on the presence of GM oilseed rape near German oil mills</a>		Owner	Jan. 19, 2024, 1:22 p.m.	

## Options

[Create new project](#)

## Filter projects

2 of 2 projects shown

## Import existing project

### Import from file

### Import directly

[from URL](#)  
[from GitHub](#)  
[from GitLab](#)

Start by creating a new project.

# Test LIBER Workshop Feb 01, 2024

Answer questions of your chosen questionnaire.

**Description** Testing Export of MD from RDMO to RADAR

**Catalog**

RDMO

## Options

**Answer questions**

View answers

Leave project

Update project information

Update project catalog

Update parent project

Update project tasks

Update project views

Create snapshot

Add GitHub integration

Add GitLab integration

Add OpenProject integration

Back to projects overview

## Export

RDMO XML

CSV (comma separated)

CSV (semicolon separated)

JSON

as maDMP JSON

as DataCite XML

as RADAR XML

directly to RADAR

directly to Zenodo

## Import values

Import from file

Select file



Import directly

## Tasks

Tasks are generated automatically from the answers given in the project. On the page of each task you can see which of your answers lead to the activation of the task.

No active tasks found.

## Views

Views are created using the answers given in the project and can then be exported in various formats. Initially, all views are empty. Please answer some questions by visiting **Answer Questions** (at the top of the sidebar).

**View**

**Description**

Horizon Europe

View (export template) for the funding framework program "Horizon Europe" (2021-2027) of the European Commission (version 1.0, 5th May 2021)

Horizon 2020 FAIR Data Management Plan template

Template for Horizon 2020, from "Guidelines on FAIR Data Management in Horizon 2020", online: [http://ec.europa.eu/research/participants/data/ref/h2020/grants\\_manual/hi/oa\\_pilot/h2020-hi-oa-data-mgt\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf)

## Members

Add project members here.

Here you can see who can access the project and invite additional members. You can use the user roles to manage which rights the benefits have. Unless you are the last owner, you can leave the project with the button next to your name.

**User**

**E-Mail**

**Role**

Kerstin Soltau

kerstin.soltau@fiz-karlsruhe.de

Owner

Kerstin Vanessa Wedlich-Zachodin

kerstin.wedlich@kit.edu

Manager

## Snapshots

Today's talk focuses on plugins.

## Topic

### What is the main research question of the project?

Describe briefly the project and its aims.

Test MD Export von RDMO nach RADAR

### Please give some keywords describing the research question.

Please enter your entries line by line. You can add lines using the green button and remove them using the blue cross (x).

Export

RDMO

RADAR

+ Keyword

These key words are transferred as metadata fields to RADAR.

## Overview

Project: [Test LIBER Workshop Feb 01, 2024](#)

Catalog: RDMO

[Reload page](#)

[Back to my projects](#)

## Progress

124 of 177

Back

Proceed

## Navigation

Using the navigation will save your input.

Grey entries will be conditionally skipped based on your input.

General

→ Topic ✓

Research field ✓

Project schedule ✓

Project coordination ✓

Project partners ✓

Funding ✓

Other requirements I

Other requirements II

Content classification

Technical classification

Data usage

Metadata and referencing

Legal and ethics

Storage and long-term preservation

Back

Proceed



## Datasets

The following questions collect information on the data that is produced or used in the project. They also help to estimate the value of the data in terms of potential re-use and long-term preservation.

Before data are newly created, it is advisable to check if there are existing data that could be re-used. This way, redundant collection or creation of research data is prevented. This saves efforts and costs.

For example, a data set can consist of more data files of different types (numeric, image, text...) grouped together, which collect exhaustively all results coming from an investigation series on a given research object.

Please fill in the form for each tab. The same tabs may be used later on other pages. You can add a new tab using the green button. Once created, you can edit or delete tabs using the buttons in the top right corner.

Dataset 1 LIBER WS

Dataset 2 LIBER WS

+ Dataset

Add one or more datasets here.

### What kind of dataset is it?

Please briefly describe the data type and / or the method used to create or collect the data, for example:

- quantitative online survey
- 3D model / digital reconstruction of a stone age settlement
- software developed within the project

Please also explain whether this is a fixed data set stored at a certain point in time or whether it is created dynamically over a certain period of time.

Transfer of MD from RDMO to RADAR (Test 1)

Dataset's metadata is transferred to RADAR.



Back

Proceed

## Overview

Project: Test LIBER Workshop Feb 01, 2024

Catalog: RDMO

[Reload page](#)

[Back to my projects](#)

## Progress

124 of 177

Back

Proceed

## Navigation

Using the navigation will save your input.

Grey entries will be conditionally skipped based on your input.

General

Content classification

→ Datasets ✓

Data origin (4 or 6)

Reuse ✓

Reproducibility ✓

Technical classification

Data usage

Metadata and referencing

Legal and ethics

Storage and long-term preservation

# Test LIBER Workshop Feb 01, 2024

**Description** Testing Export of MD from RDMO to RADAR

**Catalog**

RDMO 

## Tasks

Tasks are generated automatically from the answers given in the project. On the page of each task you can see which of your answers lead to the activation of the task.

No active tasks found.

## Views **View your answers with a customised template here.**

Views are created using the answers given in the project and can then be exported in various formats. Initially, all views are empty. Please answer some questions by visiting **Answer Questions** (at the top of the sidebar).

View	Description
<a href="#">Horizon Europe</a>	View (export template) for the funding framework program "Horizon Europe" (2021-2027) of the European Commission ( <a href="#">version 1.0, 5th May 2021</a> )
<a href="#">Horizon 2020 FAIR Data Management Plan template</a>	Template for Horizon 2020, from "Guidelines on FAIR Data Management in Horizon 2020", online: <a href="http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf">http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf</a>

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Kerstin Vanessa Wedlich-Zachodin	<a href="mailto:kerstin.wedlich@kit.edu">kerstin.wedlich@kit.edu</a>	Manager

## Options

### Answer questions

**View answers**

Leave project

Update project information

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Update project tasks

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Create snapshot

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## Export

RDMO XML

CSV (comma separated)

CSV (semicolon separated)

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as maDMP JSON

as DataCite XML

as RADAR XML

directly to RADAR

directly to Zenodo

## Import values

### Import from file

Select file



### Import directly

## EC banner



## Horizon Europe Data Management Plan Template

Action Number:

Action Acronym:

Action title: Test LIBER Workshop Feb 01, 2024

Date:

DMP version:

The Horizon Europe Model Grant Agreement requires that a data management plan ('DMP') is established and regularly updated. The use of this template is recommended for Horizon Europe beneficiaries. In completing the sections of the template, the requirements for research data management of Horizon Europe as described in article 17 and analysed in the Annotated Grant Agreement, article 17, must be addressed.

### 1. Data Summary

**1a. Will you re-use any existing data and what will you re-use them for?**

*Dataset Dataset 1 LIBER WS:* This dataset is created.  
Frontend-level, Management-level, Archiv-level

*Dataset Dataset 2 LIBER WS:* This dataset is created.

....

**1b. State the reasons if re-use of any existing data has been considered but discarded.**

**2. What types and formats of data will the project generate or re-use?**

## Options

[Back to project overview](#)

## Export

[PDF](#)

[Rich Text Format](#)

[Open Office](#)

[Microsoft Office](#)

[HTML](#)

[Markdown](#)

[mediawiki](#)

[LaTeX](#)

# What is RADAR?

- **Core functions:** **Archival, Publication, Peer Review** of research data from completed scientific studies and projects
- **Target audience:** Publicly funded research institutions and universities
- **Benefit:** Establish a **generic institutional research data repository**
- 2013 – 2016: Developed within a DFG-Project
- since 2017:
  -   
 <https://www.radar-service.eu>  
Operated and developed by FIZ Karlsruhe – Leibniz Institute for Information Infrastructure
- since 2021:
  -   
 Local RADAR instances on institutions' own IT

**Currently, at the end of the research data life cycle !**

# Linking of both RDM services:

Data Management Plan

RDMO

**Metadata transfer:**

- ✓ avoids duplicate entries
- ✓ avoids errors

Data Repository



# Linking of both RDM services - Details:

## Option 1:

Export metadata XML...




...Import metadata XML into  
RADAR dataset.



## Option 2:

Transfer metadata directly to  
RADAR via RADAR REST API



- Enter other metadata in RADAR
- Upload research data
- Archive or publish dataset 

# RDMO

A tool to support the planning, implementation, and organisation of research data management.

## Welcome to RDMO

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Now: live  
demonstration:

*RDMO*  
[RDMO development system](#)

*RADAR test system: <https://test.radar-service.eu>*

## Login

### Username

### Password

Remember Me

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# Test LIBER Workshop Feb 01, 2024

**Description** Testing Export of MD from RDMO to RADAR

**Catalog** RDMO

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## Export

RDMO XML

CSV (comma separated)

CSV (semicolon separated)

JSON

as maDMP JSON

as DataCite XML

as RADAR XML

directly to RADAR

directly to Zenodo

## Import values

### Import from file

Select file



### Import directly



Anmelden bei



**Authenticate  
with RADAR credentials**

### Über Ihr Institutionskonto:

Wählen Sie bitte Ihre Institution...

...aus dieser Liste aus.



Bei Klick auf „Weiter“ werden Sie auf die Anmeldeseite Ihrer Institution weitergeleitet. Dort können Sie sich über Ihr Institutionskonto authentifizieren und werden damit bei RADAR angemeldet.

WEITER

### Über Ihr RADAR-Konto:

Benutzername

Passwort

[Passwort vergessen?](#)

ANMELDEN

Sie können sich nicht über Ihr Institutionskonto anmelden und haben bisher kein RADAR-Konto? - Hier registrieren.

## Export to RADAR



### Select dataset of your project

- Dataset 1 LIBER WS
- Dataset 2 LIBER WS



### Select a workspace in RADAR

- 1.14 Test
- 1.15 Test
- 1.18
- AB releasetest 1.9
- Another Workspace Example
- Arbeitsbereich Test 13042018
- Dept of Engineering
- Online Training
- RADAR Beispielprojekt
- RDMO Tests
- Test 05102020
- Test 1.5
- Test Workspace
- Test Workspace RAD-1810
- Test WS release 1.3
- Test WS release 1.4
- Workspace Example
- Workspace MD Schema09
- Workspace Test 15102021
- Workspace Tests 2017

Export to RADAR


Cancel

Select RDMO dataset  
and RADAR workspace  
for the export

## Dataset: Dataset 1 LIBER WS

New dataset  
is created.


**RADAR Metadata**      Content      Technical Metadata


Persistent identifier:	-
Alternate identifier:	-
Related identifier:	-
Creator/Author:	-
Contributors:	-
Title:	Dataset 1 LIBER WS
Additional titles:	-
Description:	(Abstract) Transfer of MD from RDMO to RADAR (Test 1)
Keywords:	Export RDMO RADAR
Related information:	-
Language:	-
Publishers:	-
Production year:	2024
Subject areas:	Engineering Sciences / Computer Science
Resource type:	-
Data source:	-
Software used:	-
Data processing:	-
Rights:	
Rights holders:	-
Funding:	Deutsche Forschungsgemeinschaft (DFG) - (Überregionale Informationsservices: RADAR Research Data Repositorium)

Research data  
content is added.

The dataset is empty. It can not be published, archived or reviewed.

Dataset Status: Pending

 REMOVE DATASET

 EDIT METADATA

Download Metadata

RADAR



DOWNLOAD

Further metadata  
is added.



## Edit metadata

Mandatory fields for datasets are marked with \*.

Persistent identifier <sup>i</sup>

Automatically assigned by RADAR!

Reserve Persistent identifier <sup>i</sup>

DOI

RADAR ID

Optional fields: [Alternate identifier](#), [Related identifier](#)

\* Creator/Author <sup>i</sup>

Please select value...

Optional fields: [Contributors](#)

Upload XML  
exported  
from RDMO



Drag & Drop your  
metadata XML file

browse to upload data from  
your computer

BROWSE

Metadata example

VALIDATE METADATA

SAVE

CANCEL

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:radarDataset xmlns="http://radar-service.eu/schemas/descriptive/radar/v09/radar-elements" xmlns:sns="http://radar-service.eu/sch
<title>Datensatz Test Liber Workshop Dataset 2</title>
<productionYear>2024</productionYear>
<publicationYear>2024</publicationYear>
<subjectAreas>
  <subjectArea>
    <controlledSubjectAreaName>Other</controlledSubjectAreaName>
    <additionalSubjectAreaName>Engineering Sciences / Computer Science</additionalSubjectAreaName>
  </subjectArea>
</subjectAreas>
<rights>
  <controlledRights>CC BY 4.0 Attribution</controlledRights>
</rights>
<descriptions>
  <description descriptionType="Abstract">The RADAR Cloud service was developed as a cooperation project funded by the DFG (201
</descriptions>
<keywords>
  <keyword>Export</keyword>
  <keyword>RDMO</keyword>
  <keyword>RADAR</keyword>
</keywords>
<fundingReferences>
  <fundingReference>
    <funderName>Deutsche Forschungsgemeinschaft (DFG)</funderName>
    <awardTitle>Überregionale Informationsservices: RADAR Research Data Repositorium</awardTitle>
  </fundingReference>
</fundingReferences>
</ns2:radarDataset>
```

## Edit metadata

Mandatory fields for datasets are marked with \*.

The validation finished with errors.

Persistent identifier ?

Automatically assigned by RADAR!

Reserve Persistent identifier ?

DOI

RADAR ID

Optional fields: [Alternate identifier](#), [Related identifier](#)

\* Creator/Author ?

Please select value...

Optional fields: [Contributors](#)

\* Title ?

Datensatz Test Liber Workshop Dataset 2

Description ? ?

The RADAR Cloud service was developed as a cooperation project f

Abstract

Keywords ? ?

Free text

Export

Free text

RDMO



Drag & Drop your  
metadata XML file

or browse to upload data from  
your computer

BROWSE

Metadata example

VALIDATE METADATA

SAVE

CANCEL

Metadata populate the input fields.  
Missing mandatory fields must be added.

Option to customize RDMO questionnaire  
and map further metadata fields.

# Contact

## **Kerstin V. Wedlich-Zachodin**

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## **Kerstin Soltau**

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Product manager  
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Research data

e-Research

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service.eu](mailto:info@radar-service.eu)

[www.radar-  
service.eu](http://www.radar-<br/>service.eu)

@RADAR\_Service

## **RDMO Community**

[https://rdmorganiser  
.github.io/en/](https://rdmorganiser.github.io/en/)

[rdmo-  
contact@listserv.dfn  
.de](mailto:rdmo-<br/>contact@listserv.dfn<br/>.de)

[https://rdmo.slack.c  
om](https://rdmo.slack.com)

@rdmorganiser

# Thank you!