

LIBRARIES



# KU Leuven RDR:

Setting up an institutional research data repository in the Flemish open science context

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## **About LIBIS**



- Part of KU Leuven Libraries and Leuven R&D
- Digital service provider managing KU Leuven wide solutions
  - Institutional research data repository
  - Current research information system
  - Library catalogue
  - Digital preservation platform
  - •
- Working with researchers in the design and development of scalable and sustainable RI





## Content

- KU Leuven Context
- Road to RDR
- Infrastructure & integrations
- Using KU Leuven RDR
- RDR is FAIR-enabling
- Lessons learned and work ahead





# KU Leuven Context





## RDM @ KU Leuven

#### RDM Steering committee

- WG Policy
- WG Education & advice (→ RDM-CC)
- WG Infrastructure
  - ➤ Active data → ICTS lead
  - ➤ Data publication → LIBIS lead
- RDM-CC

### KU Leuven resolutely opts for Open Science with Open Data approach

#### **1** 21 Jan 2022

With a new platform for archiving and publishing research data, Research Data Repository (RDR), KU Leuven is making it possible for researchers to keep their data safe for years while making it accessible to fellow researchers worldwide.

Research data is the precious raw material of many scientific publications. It often takes a lot of time and money to collect, structure and analyse the data. If scientists share that data with each other more, the benefits are enormous.



Making data public not only increases transparency and trust in scientific research. "Open Data is essential to enable the testing of reproducibility of research," says Vice Rector for Research Policy Jan D'hooge. "It allows you to avoid redundancy in data collection – and the associated costs – and to maximise the exploitation of the available data. Open Data gives you more cost-effective, reliable science. Such an approach is therefore increasingly expected by funding

authorities."





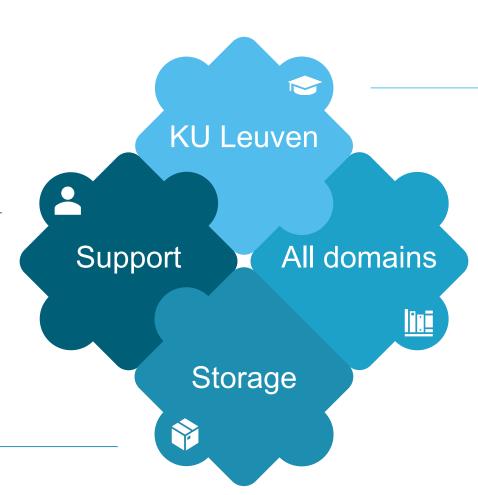
## What is KU Leuven RDR?

#### **Custom support**

RDR provides custom support for its users and detailed guidance online

#### KU Leuven managed

The storage and servers are managed by and located at KU Leuven



#### Institutional repository

RDR is KU Leuven's institutional research data repository for the publication of research datasets

#### Across domains

RDR is open for data from all domains and disciplines practiced at KU Leuven



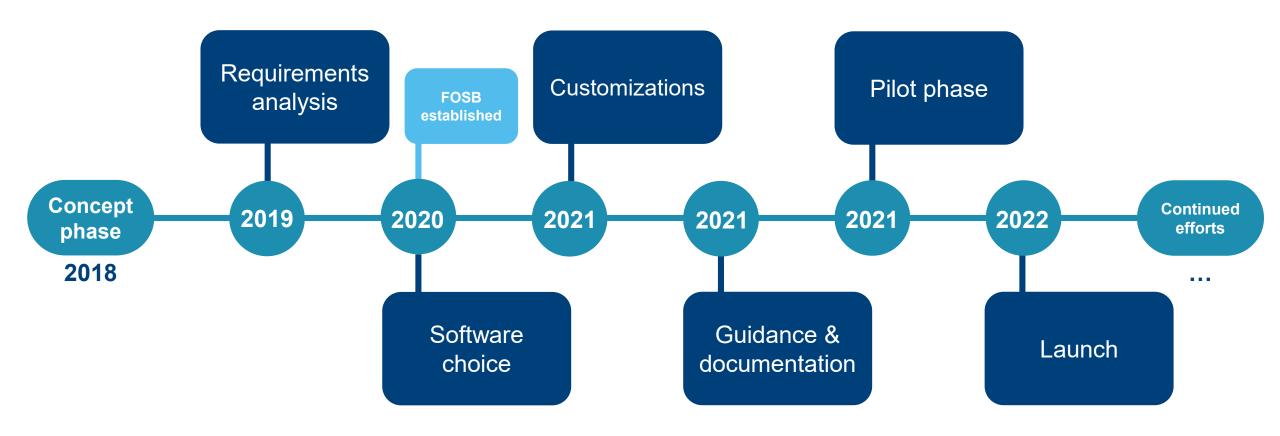


# Road to RDR





## What is KU Leuven RDR?





# Infrastructure & Integrations



## Infrastructure

- Open-Source Dataverse software
  - With our own adaptations:
    - Metadata model in line with international standards & Flemish requirements
    - Integrations with other LIBIS & KU Leuven systems
    - Automatic reporting to university's, Flemish, and European metadata aggregators



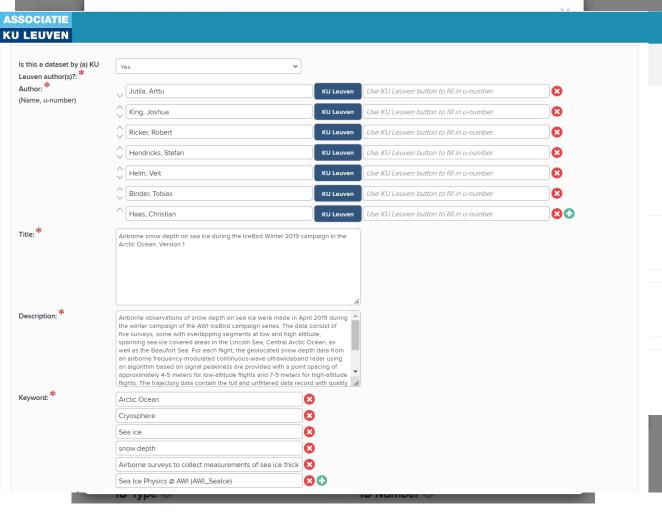




## Integrations

Related publicat

- Author Look-up
  - Look up authors in SAP
  - Auto-fill author fields
- Related Publication Look-up
  - Look up publications in Lirias
  - Auto-fill related publication fields
- Dataset Claimer
  - Register externally published datasets' metadata semi-automatically
- Integration dashboard

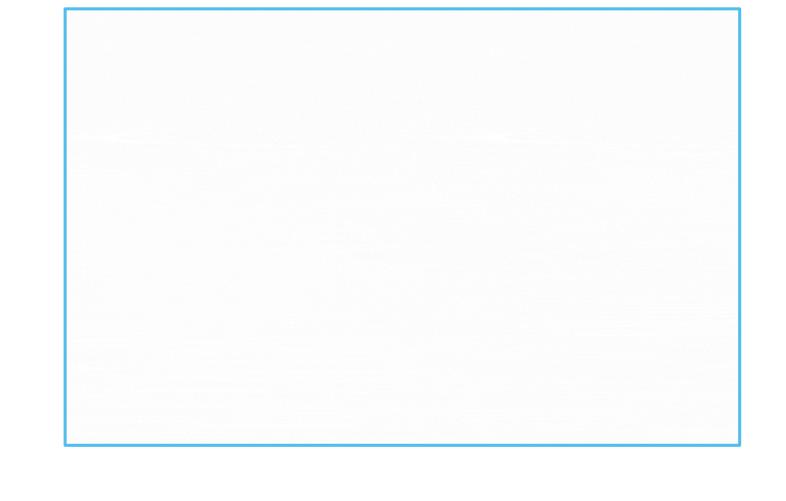






## Integration dashboard

- Connect active data management systems with RDR
- Pull instead of push
- Live since May 2023
- Currently supporting:
  - ManGO (iRODS), OSF, GitLab, Github.
- Coming:
  - SharePoint, RedCap, OneDrive





# Using KU Leuven RDR



## Who can access RDR?



**Everyon** 

Find published data

Access openly available data

Download openly available data



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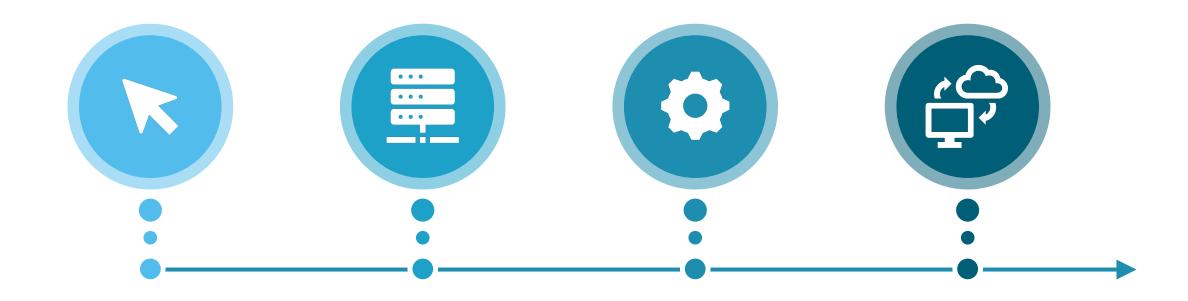
#### **Additionally:**

Create draft datasets

**Publish datasets** 

**ORCID** required

## RDR data deposit workflow



#### Login

Go to rdr.kuleuven.be Use KU Leuven login

#### **Create dataset**

Click on "Add Data"
Supply metadata
Upload files

#### **Edit dataset**

Edit file acces settings
Additional metadata
Select a license

#### **Submit for review**

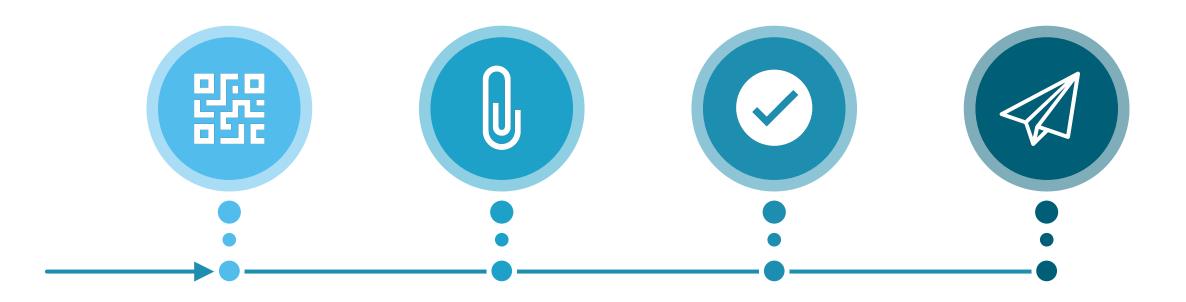
Once ready, submit for review

If returned, edit and submit again





## RDR review workflow



#### Metadata

Check if metadata is supplied in the correct format

#### **Files**

README file
Access settings on file
level

#### **Terms**

Presence of a license Correct license type (data/code)

#### **Approve/return**

Approve if everything is in order

Return to author if there are issues

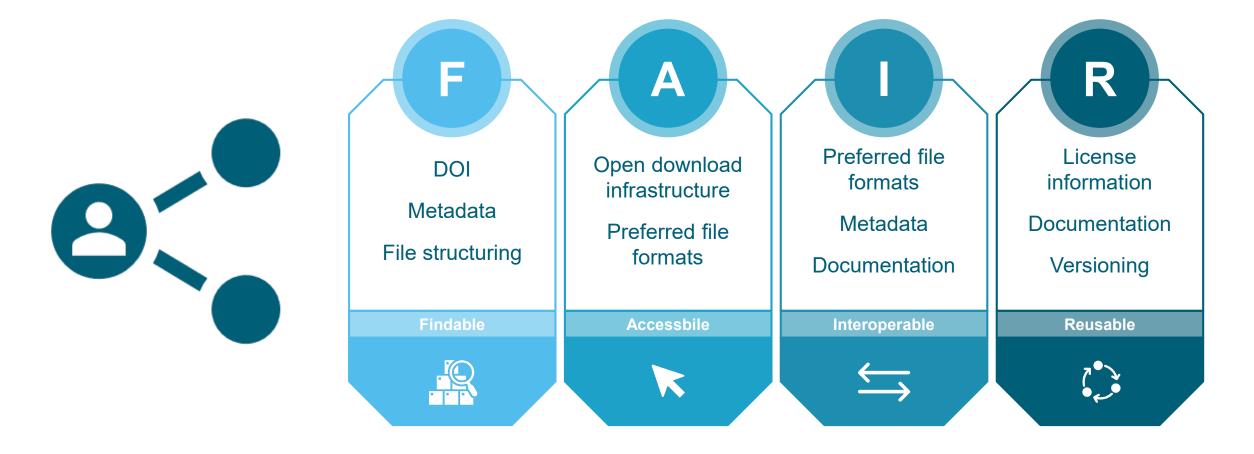


# RDR is FAIR-enabling





# RDR is FAIR-enabling



# Lessons learned and work ahead





## Lessons learned

- Right decision to go for Dataverse open-source software
- Intensive stakeholder consultation, from legal advisors to researchers
- Data publication not yet embedded in research practices

→ Continuous investment in the infrastructure, stakeholder consultation, and awareness creation and training of researchers remains needed



## Work ahead

- Increase awareness of RDR and data publication with KU Leuven researchers
- Further implify/automate data upload
  - Integrations with other active data systems (e.g. RedCap, SharePoint etc.)
  - Help establish push actions where possible
- Prepare for CoreTrustSeal certification
- Implement long-term preservation curation and workflow





## KU Leuven RDR



### **PLATFORM:**



rdr.kuleuven.be





kuleuven.be/rdm/en/rdr



rdm@kuleuven.be