

From ManGO to RDR: interoperable RDM tools at KU Leuven

ManGO



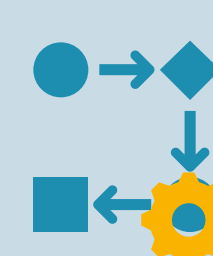
- ManGO (MANagement van Gegevens voor Onderzoek) is an active data management platform
- Based on the open-source software iRODS
- To store and manage research data during the active phase of research projects
- Different available clients:
 - a command-line interface
 - a Python API
 - a web interface.

Storage



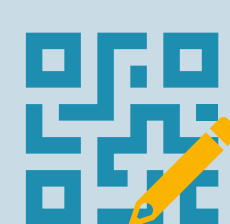
- In the data centers of KU Leuven.
- Two copies are stored in different data centers

Automation



- Event triggers
- Define processes that run upon a trigger
- Create automated workflows

Metadata



- Can be added on file or folder level
- Added manually or via automation
- Metadata schema's can be used

Collaborate securely



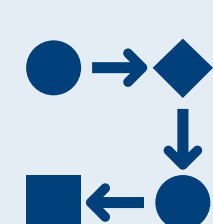
- System of permissions
- Manage on file and folder level
- Collaborate securely outside KU Leuven with Globus

Findability



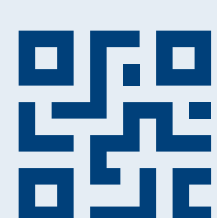
- Each dataset gets its own DOI
- The metadata is harvestable and openly available

Accessibility



- Download infrastructure is openly accessible
- Guidance on preferred file formats

Reusability



- Multiple licensing options
- Versioning system
- Creation of DTA's for restricted data

Interoperability



- Detailed metadata
- In multiple metadata schema's/standards
- ReadMe file is mandatory

RDR

- RDR (Research Data Repository) is KU Leuven's institutional research data repository
- Based on the open-source Dataverse.org software
- To publish and archive 'finished' research data, typically at the end of a research project
- UI & API interface
- A data publication platform with a curation phase
- Connected to other KU Leuven RDM tools such as: ManGO, GitLab, OSF, SharePoint...

RDR integration dashboard: connecting RDM tools

- RDR Integration dashboard pulls data from existing RDM tools, such as ManGO
- It compares the data source with what's already in the dataset
- Only transfers what has been changed



Open Science to Open Source

Goal: 1) Use open-source software whenever possible.
2) Make KU Leuven RDM work available and reusable for others whenever possible

- ManGO portal: available in open-source at: <https://github.com/kuleuven/mango-portal>
- Integration dashboard: available in open-source at: <https://github.com/libis/rdm-integration>
- ManGO is based on iRODS, available in open-source at: <https://github.com/irods/irods>
- RDR is based on the Dataverse project, available in open-source at: <https://github.com/IQSS/dataverse/>