

Coscine Makes research data FAIR!

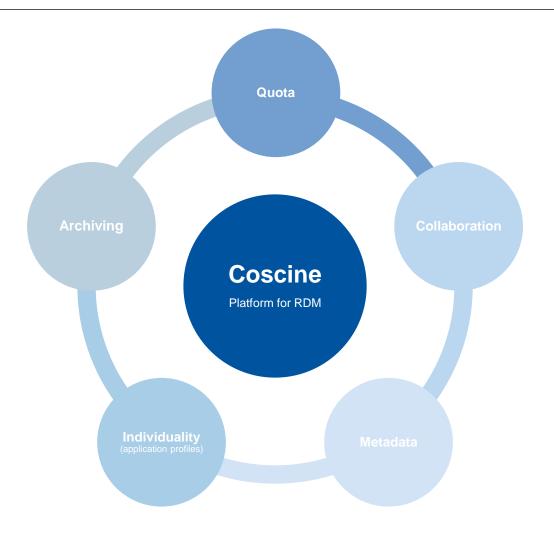






Coscine – Collaborative Scientific Integration Environment

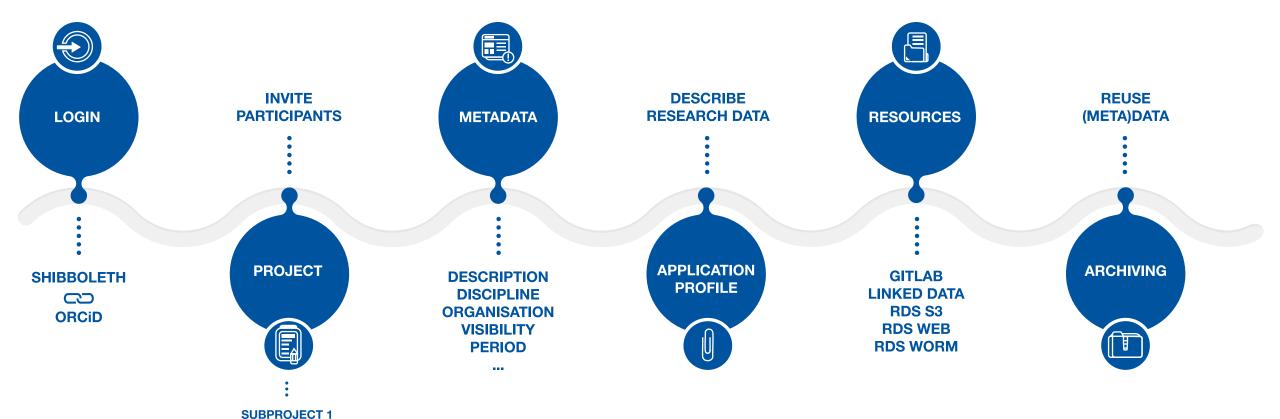
- Problems for Researchers:
- → Limited knowledge about RDM and FAIR principles
- → Additional work before publishing
 - → Metadata not complete
 - → Repeat experiments
 - → Ensure Reuse and Interoperability
- → Solution:
 - → Integration of RDM in daily workflow
 - → Use of platforms which help to follow FAIR principles
 - → Coscine, RDMO, Jarves, etc.







Coscine – Collaborative Scientific Integration Environment



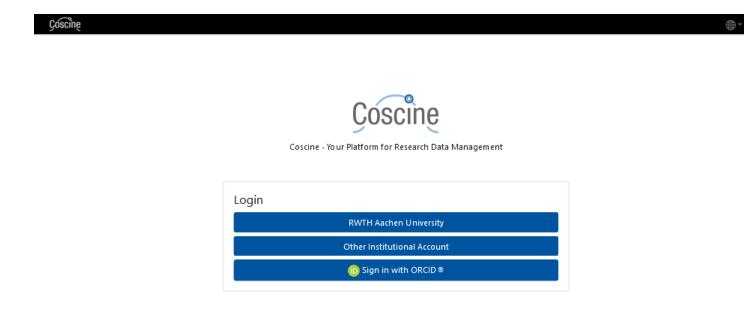
https://about.coscine.de/en/



SUBPROJECT 2



Login possibilities:



Institutional account or ORCiD



 Connection of both login possibilities recommend

!Attention!

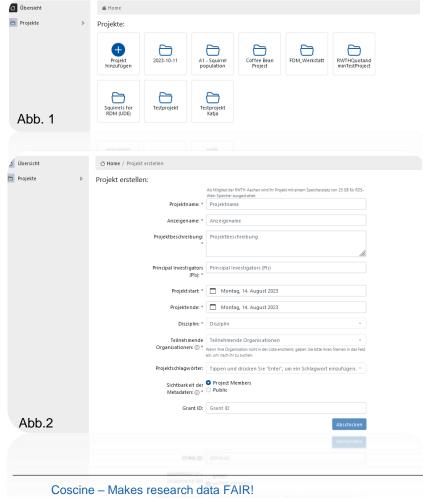
Login only with ORCiD

→ No quota on the RDS available





Creation of projects/subprojects:



Click on Button "Add project" (s. Abb. 1)

New window opens (s. Abb. 2)

- Fill in at least all fields marked with *.
- If you are not sure, please refer to the Coscine documentation.
- Submit = new project is created.
- After clicking on the name of the newly created project, subprojects can be created and resources added.





Ressourcentypen:

Ressourcentyp	RDS-Berechtigte	Externe	Antrag
RDS-Web	25 GB Standard; bis zu 100 GB mit Selbstzuweisung	kein Speicherplatz	RDS-Web Ressourcen
RDS-S3	Kein Standard; bis zu 125TB mit Antrag	kein Speicherplatz	RDS-S3 Ressourcen
RDS-WORM	Kein Standard; bis zu 125TB mit Antrag	kein Speicherplatz	RDS-WORM Ressourcen
Linked Data	Ohne Limit/kein Speicherplatz nötig	Ohne Limit/kein Speicherplatz nötig	kein Antrag nötig
GitLab	Ohne Limit/kein Speicherplatz nötig	Ohne Limit/kein Speicherplatz nötig	kein Antrag nötig

https://docs.coscine.de/de/rdm/resources/about/#ressourcen

 Application for RDS-Web >100 GB as well as RDS-S3 and RDS-WORM by using the platform Jards possible

For quota on the RDS are eligible:

- RWTH Aachen (RWTH-RDS)
- FH Aachen (RWTH-RDS)
- Universität Duisburg-Essen (UDE-RDS)
- TU Dortmund (TUDO-RDS)
- HAWs & FHs of NRW (NRW-RDS)
- Cooperation with NFDI (NRW-RDS)

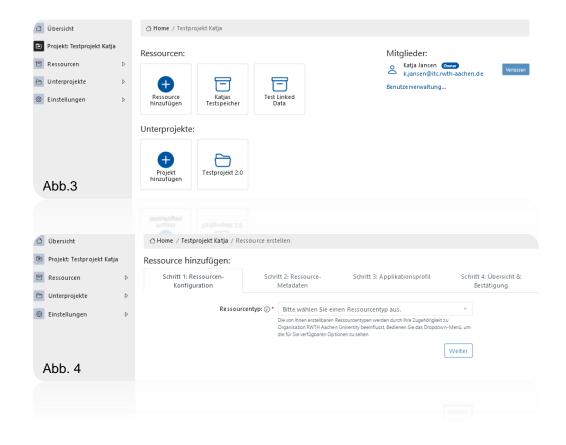
Use Coscine for non-RDS eligible individuals?

- GitLab oder LinkedData resource
- Cooperation with one of the above mentioned institution
- Invitation as external (guest) to a project





Adding of resources:



Click button "Add resource" (s. Abb. 3)

- The following must be specified:
- 1) Resource type,
- 2) resource name,
- 3) description,
- 4) discipline,
- 5) metadata visibility,
- 6) Application profile selection





Application profile:

- Metadata = data on (research) data.
- → e.g. author, date of creation, exposure of the photo etc.
- Metadataschema = set by e.g.Organisation
- Application profile = individual profile with fields for filling the metadata for a file
- Choice between already existing or a completely individual

Using e.g. certain standards for a research area

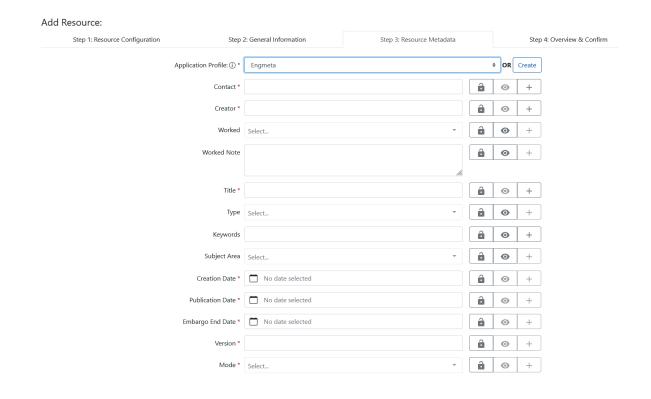
Creation with application profile generator (AIMS)







Application profile:





→ Fixed value (e.g. always same PI)

Hidden fields

→ If fields don't match own data (not for mandatory fields)

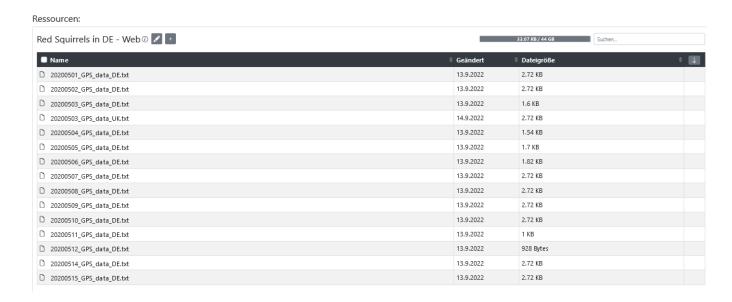
Add fields

→If more fields are needed





Show data in a resource:



To add a new file, the fields* must be filled in accordingly

^{*} Displayed fields differ depending on resource type and application profile









Role distribution:

	Owner	Member	Guest
User management (add/remove members)	\bigcirc		
Change project settings			
Write access (view, add & edit data)			
Read access (view & download data)			



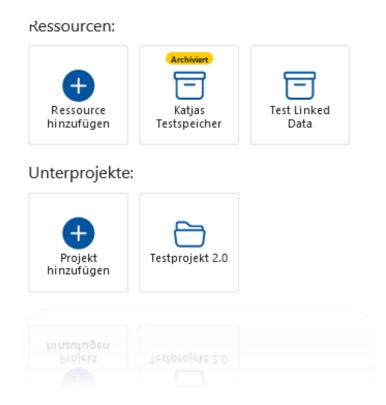
Archiving:

Set the status of a resource to "Archive resource"

All data within this resource are now on Read-only* status

Archiving period

= 10 Jahre



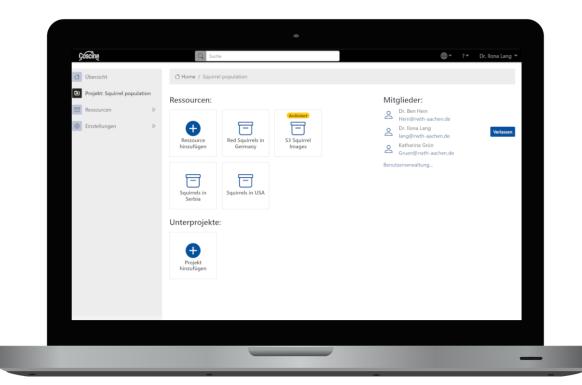


^{*} Can be reset by project owner and then archived again (e.g. for changes to files)



Coscine – Upload Research Data (Part 1)

- Create a project
- Invite members
- Apply for storage space through Jards
- Add a resource
 - Select resource type (e.g. RDS-S3, -Web)
 - Define storage size
 - Chose an application profile

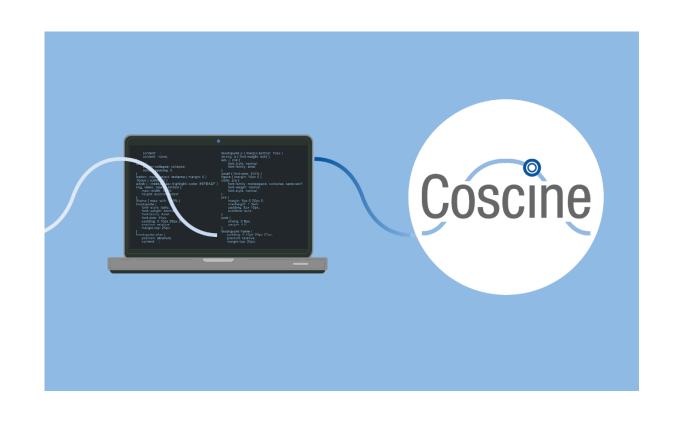






Coscine – Upload Research Data (Part 2)

- Upload the data
 - Example programs for working with S3
 - minIO
 - rclone
- Add metadata
 - Write/use a parser to process the locally stored metadata
 - Upload the metadata through the API
 - → new API version since 1 month
 - → Faster, more stable, better and easier usage etc.

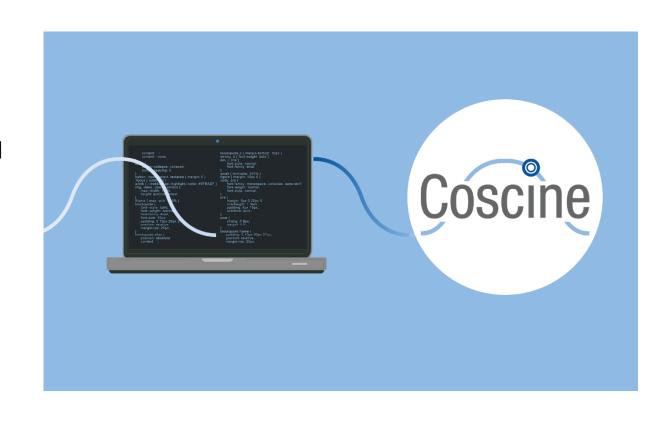






Coscine – How to use the API

- Read the available documentation
- Create a token for authorization
- All functions can easily be executed and / or tested through a web application
 - Extensive documentation
 - Examples
 - Code snippets
- Create a script with the snippets and the token

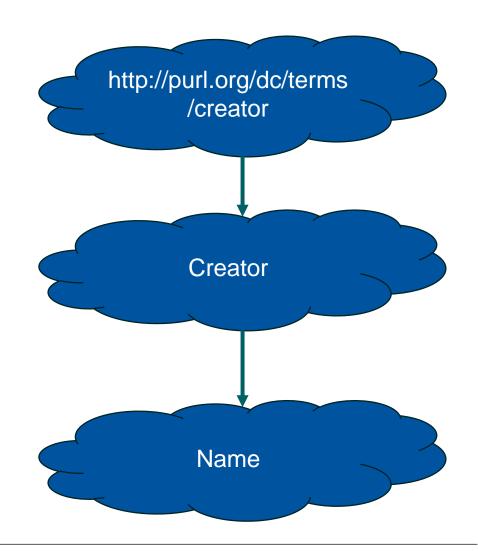






Coscine – Example scripts

- Process a local metadata file in the folder
- Key-Value structure
- Automatic processing of the application profile
 - Use labels from the profile instead of URLs
 - Additional configurable local mapping
- Add metadata to all files in the folder.

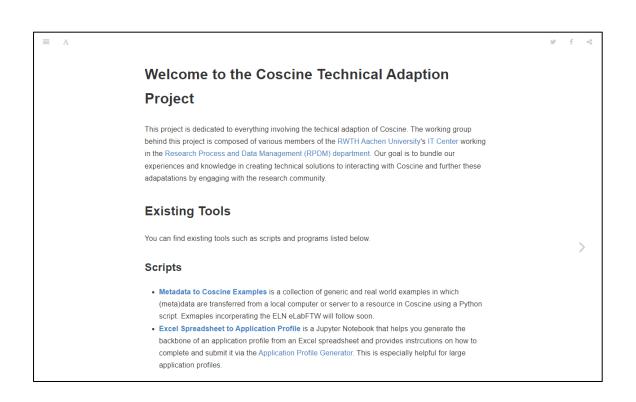






Coscine- Technical Adaptation

- Special Group with the aim to support researcher in starting with Coscine
- Regular exchange with users
- Providing of
 - Scripts
 - Programs
 - Best Practices
 - Consultations





Thank you for your attention



Coscine platform



Coscine documentation



Coscine mailing list



