

Coscine

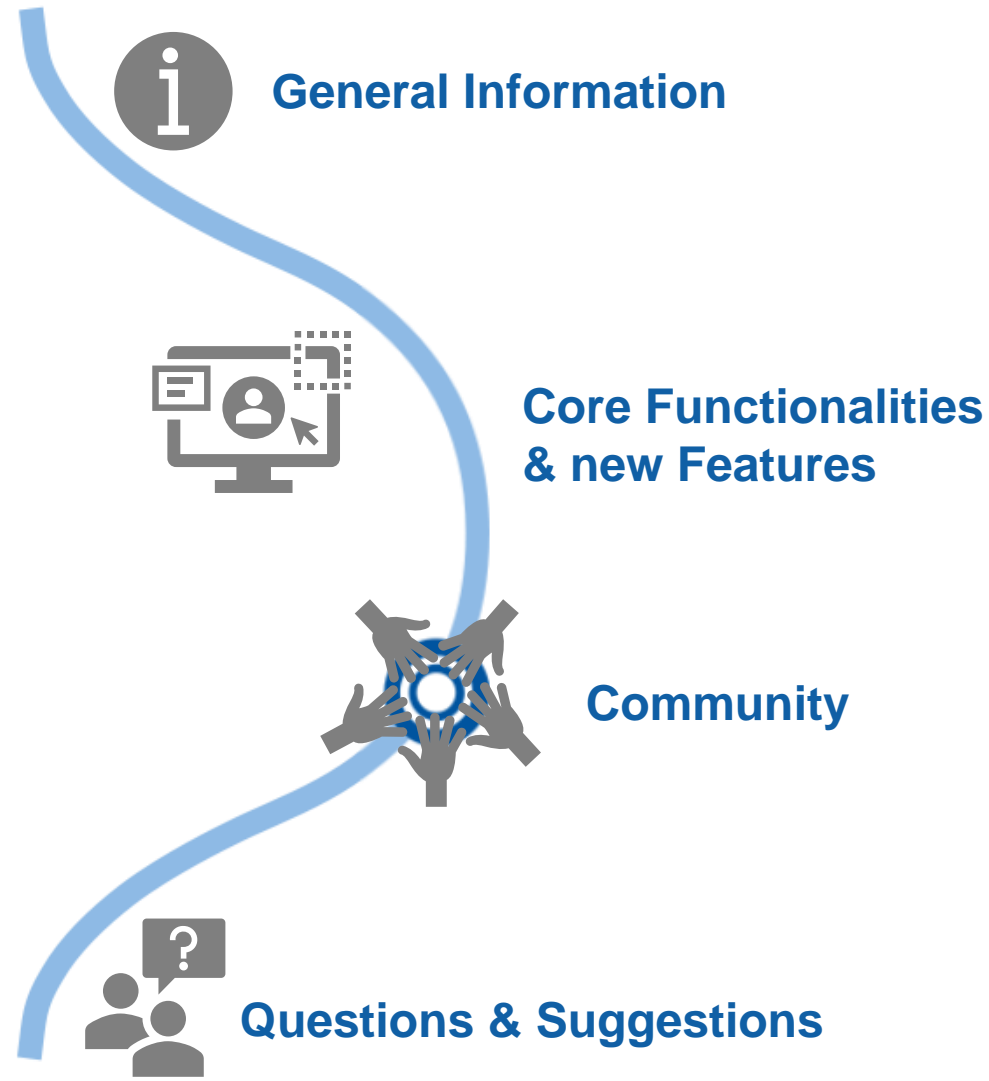
hpc.nrw Coffee Lecture

Presentation by Katja Jansen



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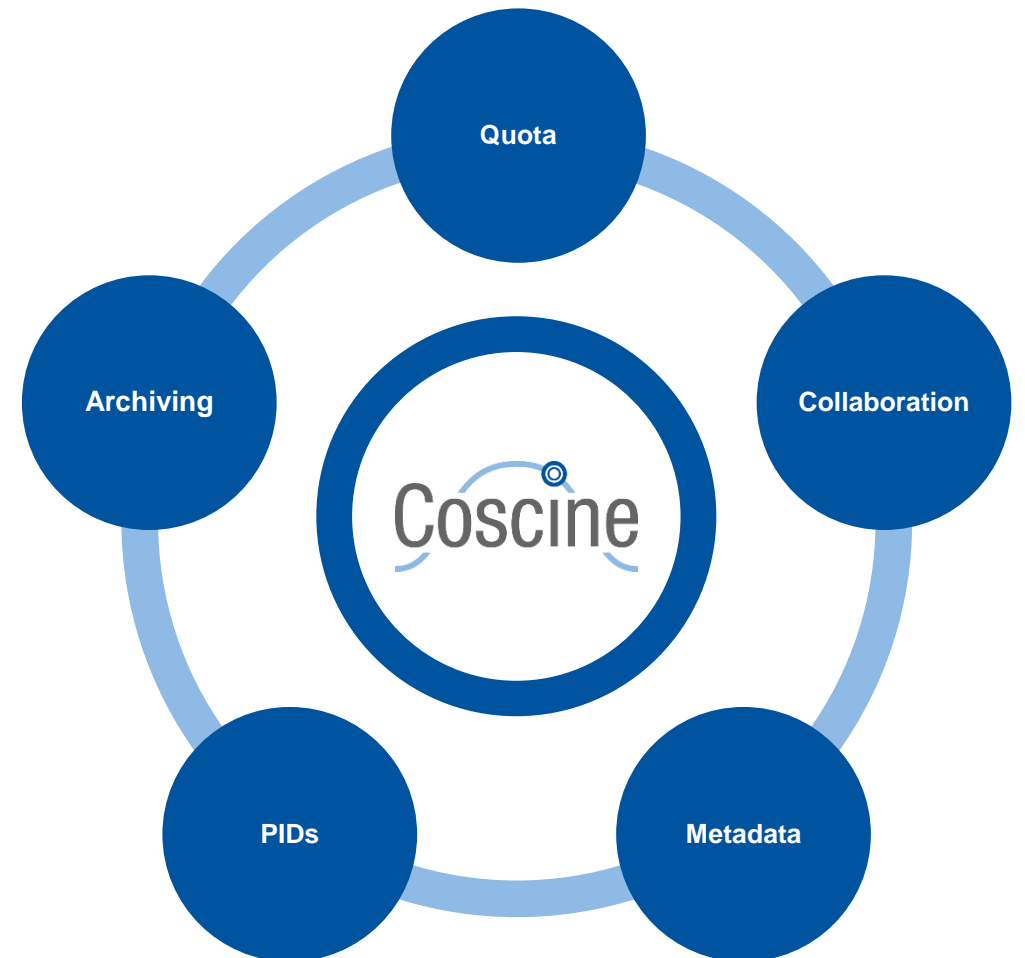






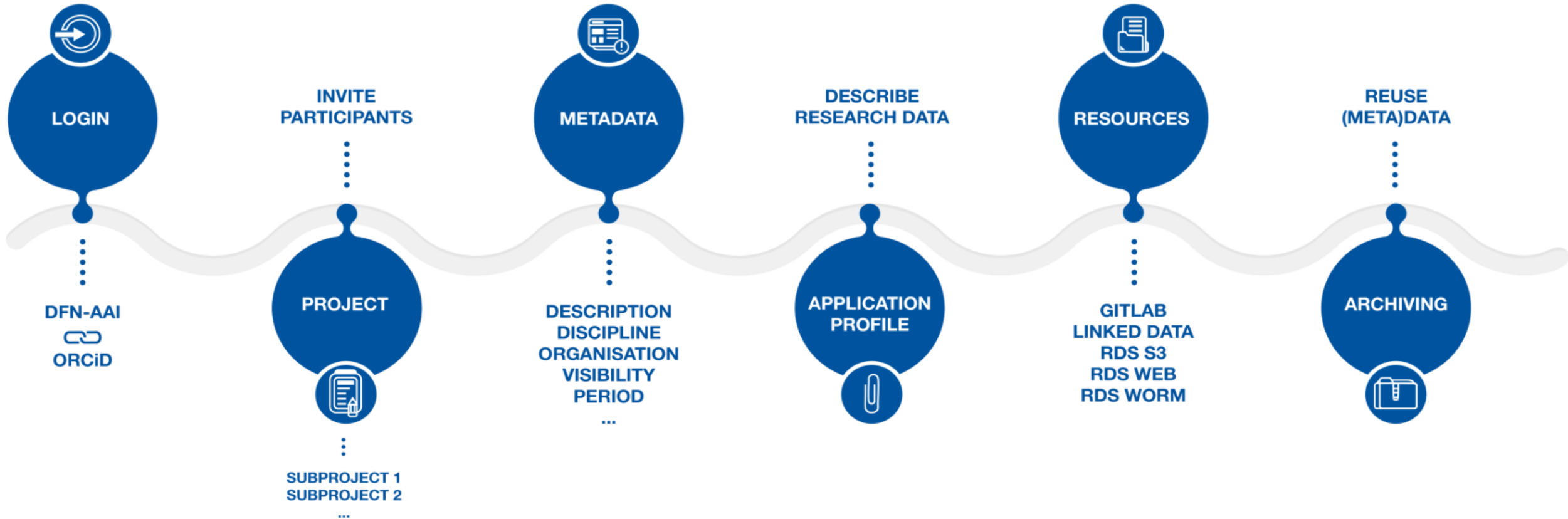
- **Generic platform for Research Data Management**

- Low-threshold access (ORCID)
- Project management
 - Access management
 - Data Management via Resources
 - Storage space provisioning
 - Metadata Management
 - Persistent Identifier (PIDs)
 - Archiving
- API / Open-Source Features





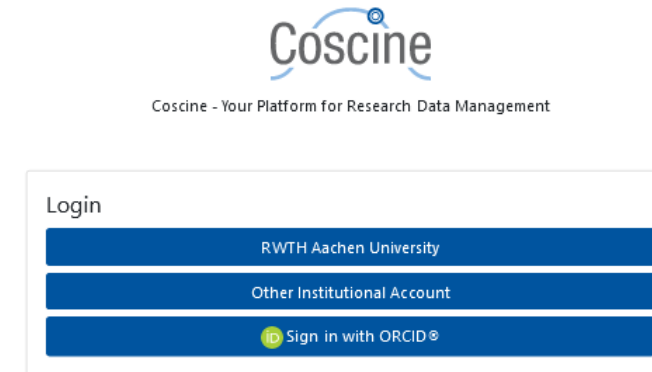
Coscine – Workflow Graphic



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

Login Possibilities in Coscine

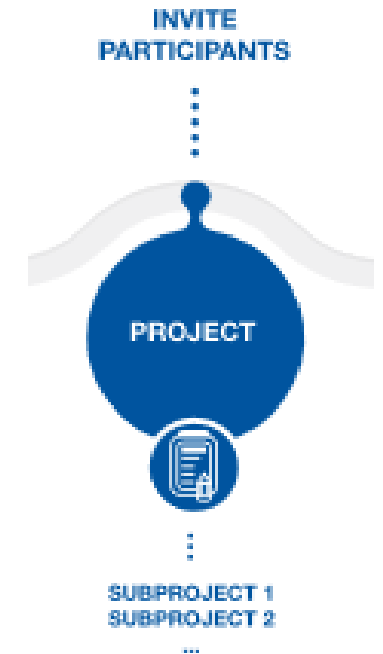
- DFN-AAI
 - Single Sign-on of the university
- ORCID
 - PID for people
 - Everyone can use it, e.g. also external project partners
- Connection of both accounts



Creation of (Sub)projects

- Projects and subprojects → Tree-structures
- No maximum of projects and subprojects
- Participants can be added to the project/sub-project

	<u>Owner</u>	Member	Guest
User management (add/remove members)	<input checked="" type="checkbox"/>		
Change project settings	<input checked="" type="checkbox"/>		
Write access (view, add & edit data)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Read access (view & download data)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



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Save metadata in Coscine

- Metadata = Data to (Research)data
- e.g. author, settings of the device used, date of creation, etc.
- Increase reusability in line with the FAIR principles
- Automated processes for saving metadata possible
- Application profile = individual metadata profile
- Choice between existing or creation of a new one * → With the platform
- For each resource one application profile



*** Keep in mind:**

The checking of a newly created application profile by our data stewards can take up to two weeks.



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Application profile:

Add Resource:

Step 1: Resource Configuration Step 2: General Information **Step 3: Resource Metadata** Step 4: Overview & Confirm

Application Profile: OR

Contact *	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="+"/>
Creator *	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="+"/>
Worked	<input type="text" value="Select..."/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="+"/>
Worked Note	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="+"/>
Title *	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="+"/>
Type	<input type="text" value="Select..."/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="+"/>
Keywords	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="+"/>
Subject Area	<input type="text" value="Select..."/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="+"/>
Creation Date *	<input type="text" value="No date selected"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="+"/>
Publication Date *	<input type="text" value="No date selected"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="+"/>
Embargo End Date *	<input type="text" value="No date selected"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="+"/>
Version *	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="+"/>
Mode *	<input type="text" value="Select..."/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="+"/>



Default value

→ 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

Resource Types in Coscine

- **Different possibilities**
 - LinkedData
 - GitLab
 - RDS (Web, S3, WORM)
 - More in future...
- **RDS-Quota only for authorized universities**
 - RDS-Web with default Quota
 - RDS-S3 and RDS-WORM only with application
- **LinkedData and GitLab for all users**
 - Data is saved outside of Coscine

RWTH Aachen University (RWTH-RDS)
FH Aachen (RWTH-RDS)
Universität Duisburg-Essen (UDE-RDS)
TU Dortmund (TUDO-RDS)
HAWs & FHs von NRW (NRW-RDS)
Mitglieder von NFDI (NRW-RDS)

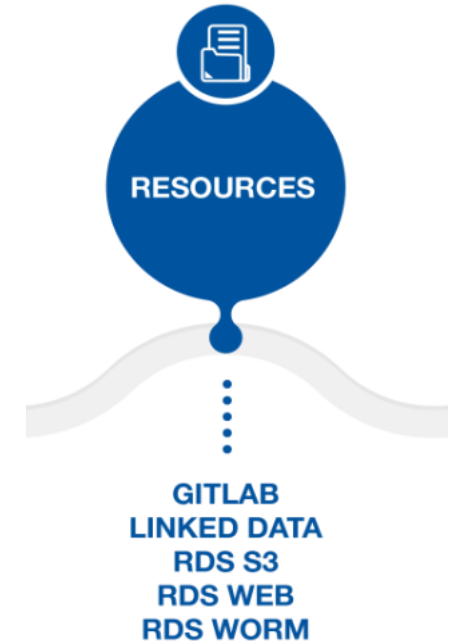


Resources in Coscine

Resource Type	Usage	Default Quota
GitLab	Everyone	-
LinkedData	Everyone	-
RDS-Web	RDS-authorized	100 GB/project*
RDS-S3	RDS-authorized	-
RDS-WORM	RDS-authorized	-

* Example of RWTH

- Quota applications via Jards platform
- Required for RDS-Web > 100 GB per project and for RDS-S3/-WORM
- As soon as the application is approved, the quota can be distributed to resources



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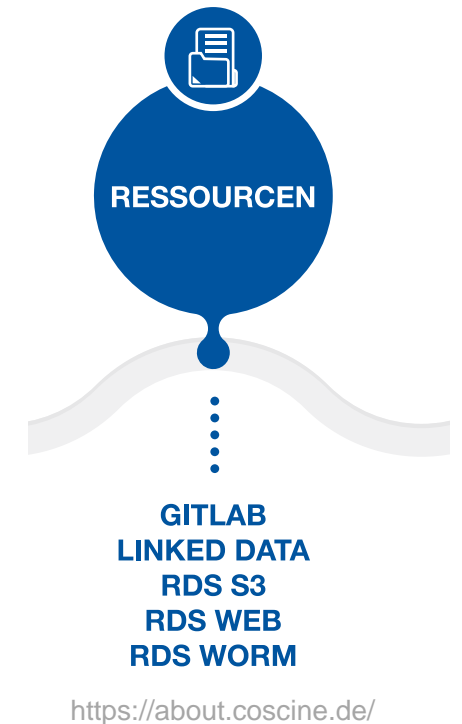
Data storage in Coscine

- Upload files via web interface, API or S3 clients
 - Many small files at best as a zip file
 - Large files via S3 clients
 - Write scripts for automated uploading
- PIDs for unique identification are assigned automatically
 - At project and resource level

Please keep in mind: Upload > 2GB per file via the web interface and the API is not possible.

Solutions:

- Upload via S3-Clients (before quota application needed)
- Epic regarding Multipart-Upload



Archiving in Coscine:

- Retention of research data and metadata for 10 years after the end of the project
- In accordance with good scientific practice
- Read-only status of the resource during the archiving period
- Reusability of data and metadata is increased

Access for external parties/sharing data in Coscine:

- No direct publication in Coscine
 - PIDs for projects and resources
 - No DOIs → Contact Publication service
- Invite external persons to projects
 - Role concept (owner, member, guest)
 - Login option via ORCID
 - For S3: sharing of read credentials possible



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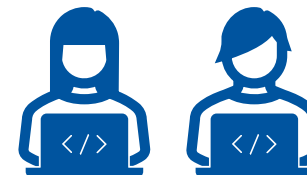
New features:

- New API-version since end of last year
- Show name & link of used application profile in resource settings
- Paging for resources with a lot of data files
- Paging for listing application profiles
- ...



Outlook:

- RegApp as Login possibility
- Publication request for RWTH publications
- ...



How can you use Coscine?

Organization in Drop-down List for Login?



Login with ORCiD

- GitLab & LinkedData Resources
- Cooperation with RDS- authorized universities (e.g. RWTH Aachen) for a specific project
- NFDI-participating research project (e.g. with NFDI-Data Steward)



Login with DFN-AAI (Single Sign-On)



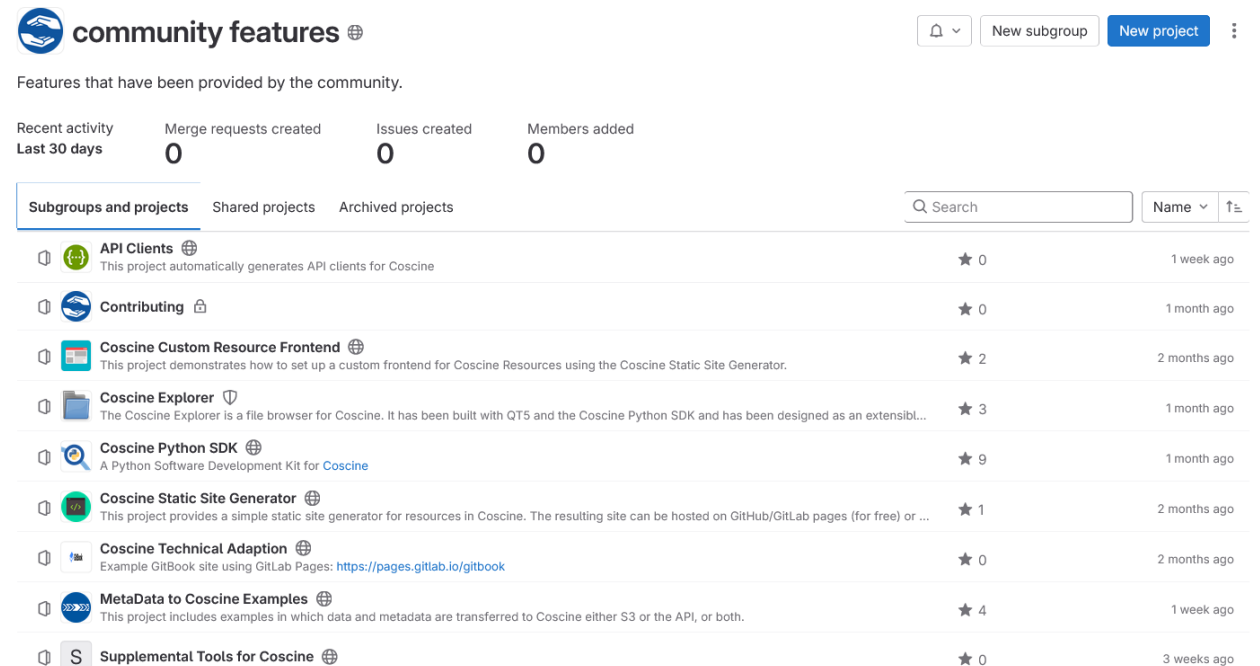
Connection to ORCiD account recommended


- GitLab & LinkedData Resources
- RDS-Resources
 - 100 GB RDS-Web/project
 - Application via Jards Platform
 - RDS-Web > 100 GB
 - RDS-S3
 - RDS-WORM



- **Community Features**

- Contributions from the Coscine Community
 - Helpful for other users
 - You are also welcome to contribute!
- E.g. with examples from everyday research in which Coscine was used (scripts, automated upload, direct transfer of metadata from a device, etc.).





















community features 

Features that have been provided by the community.

Recent activity Last 30 days: 0 Merge requests created: 0 Issues created: 0 Members added: 0

Subgroups and projects Shared projects Archived projects Name ▾ ↑↓

Project	Description	Stars	Time
 API Clients 	This project automatically generates API clients for Coscine	★ 0	1 week ago
 Contributing 		★ 0	1 month ago
 Coscine Custom Resource Frontend 	This project demonstrates how to set up a custom frontend for Coscine Resources using the Coscine Static Site Generator.	★ 2	2 months ago
 Coscine Explorer 	The Coscine Explorer is a file browser for Coscine. It has been built with QT5 and the Coscine Python SDK and has been designed as an extensibl...	★ 3	1 month ago
 Coscine Python SDK 	A Python Software Development Kit for Coscine	★ 9	1 month ago
 Coscine Static Site Generator 	This project provides a simple static site generator for resources in Coscine. The resulting site can be hosted on GitHub/GitLab pages (for free) or ...	★ 1	2 months ago
 Coscine Technical Adaption 	Example GitBook site using GitLab Pages: https://pages.gitlab.io/gitbook	★ 0	2 months ago
 MetaData to Coscine Examples 	This project includes examples in which data and metadata are transferred to Coscine either S3 or the API, or both.	★ 4	1 week ago
 Supplemental Tools for Coscine 		★ 0	3 weeks ago

**Thank you
for your attention!**



Coscine platform



Coscine documentation



Coscine mailing list

Coscine

For questions please contact: servicedesk@rwth-aachen.de