Details

Coscine (Coscine)

Coscine is a generic research data management platform that provides universities and research institutions with an infrastructure for managing, storing, and archiving digital research data in a discipline- and format-independent manner, in accordance with the FAIR principles. Coscine promotes high-quality research by supporting the FAIR principles during the active project phase through the implementation of the FAIR Digital Object concept. Coscine is developed by the IT Center of the RWTH, operations and support were consistently funded through Coscine.nrw and it is operated exclusively on servers in Germany. Four modules are available for user organizations to choose from, in order to optimally meet institutional needs, existing storage resources, and the desired level of integration. Module 1 covers the use of Coscine, Module 2 provides access to FDM:Storage.nrw, and Module 3 covers the use of the Coscine-JARDS application platform. Module 4 allows for the integration of individual storage resources. Coscine is, among other things, part of the DH.NRW service portfolio (Coscine.nrw), funded by the NFDI4ING and NFDI-MatWerk consortia, and a member of the EOSC FIDELIS network for trustworthy digital repositories. Coscine is being further developed based on, among other things, the requirements of RWTH's Excellence Strategy, Coscine.nrw, and the participating NFDI consortia.

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To website

Host Institution

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https://www.rwth-aachen.de/

Scientific Domain

Primary Subjects:
- Mechanical and Industrial Engineering
- Materials Science and Engineering

Secondary Subjects:
- Humanities
- Social and Behavioural Sciences
- Biology
- Medicine
- Agriculture, Forestry, Horticulture and Veterinary Medicine
- Chemistry
- Physics
- Mathematics
- Geosciences (including Geography)
- Thermal Engineering/Process Engineering
- Computer Science, Electrical and System Engineering
- Construction Engineering and Architecture

Category

Research data repositories

Scientific Services

Coscine enables researchers to store or link their data during the active project phase, annotate it with machine-readable and interpretable metadata, reference it with persistent identifiers (PIDs), share it with project

partners, and archive it for up to ten years after the project ends. We promote high-quality research by supporting the discovery of and access to data through the implementation of the FAIR Digital Object concept. With a central search index, Coscine facilitates the discovery and reuse of data. To enable effective metadata management across all research fields, Coscine offers flexible description options using administrative, bibliographic, and discipline-specific metadata based on established technologies (SHACL/RDF). Metadata is managed in a structured manner and represented as a semantic knowledge graph, which enables machine-readable interpretation and linking of the data. Thanks to its low-threshold login options (NFDI AAI & ORCiD), Coscine also facilitates global collaboration within the framework of research projects. All of the Coscine features mentioned are accessible via both our web interface and our API.

Scientific Equipment

Keywords

- Research Data Management
- Research Projects
- Collaboration
- FAIR
- NFDI
- Role/Permissions Management
- format-independent
- interdisciplinary
- Persistent Identifier
- Metadata Management
- Data Repository
- SPARQL
- Knowledge Graph
- Data Archiving
- Storage Access

Networks

EOSC FIDELIS Network of Trustworthy Digital Repositories (TDRs)
https://eden-fidelis.eu/fidelis-network-tdrs

NFDI4ING
https://nfdi4ing.de/

NFDI-MatWerk
https://nfdi-matwerk.de/

Users per annum

Internal Users: 1532
External Users in total: 2197
External Users:
External Users in the EU:
External Users outside of EU:

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