

Workflows in the SSH Open Marketplace



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Presentation at the DARIAH-CH Study Day

This presentation is the result of a collaborative work! [Meet the team!](#)

What is the SSH Open Marketplace ?

A discovery platform

Discoverability and findability of research services and products are essential to enable sharing and re-use of workflows and methodologies.



DOMBROWSKI, Q. (2021). The Directory Paradox. In A. McGrail, A. D. Nieves, & S. Senier (Eds.), *People, Practice, Power: Digital Humanities outside the Center* (pp. 83–98). University of Minnesota Press.

WHO NEEDS TOOL DIRECTORIES?

A forum on sustaining discovery portals large and small



TAPoR 3

Social Sciences & Humanities Open Marketplace

Discover new and contextualised resources for your research in Social Sciences and Humanities: tools, services, training materials, workflows and datasets. [Read more...](#)

All categories



Search

marketplace.sshopencloud.eu

The SSH Open Marketplace is maintained and will be further developed by three European Research Infrastructures - DARIAH, CLARIN and CESSDA - and their national partners. It was developed as part of the "Social Sciences and Humanities Open Cloud" SSHOC project, European Union's Horizon 2020 project call H2020-INFRAEOSC-04-2018, grant agreement #823782.



Types of content (see [about/data-population](#))



AMADO-online

CATEGORISATION

Activity [Data Visualization](#) [Visual Analysis](#)

Keyword [Data Analysis](#)

Discipline [SOCIAL SCIENCES](#) [Social](#)

history [HUMANITIES](#)

Language [English](#) [French](#) [Vietnamese](#) [Chinese](#)
[Ukrainian](#) [Russian](#) [Italian](#) [Spanish](#)



Cleaning Data with OpenRefine



Music Encoding Initiative Guidelines



EpiCherchell - The corpus of the ancient inscriptions of Caesarea Mauretaniae



Collaborative Video Annotation with Celluloid



Workflow steps (8)

3 ERICs service agreement

DARIAH, CLARIN & CESSDA signing a collaborative and **binding agreement** and giving resources to maintain and further develop the SSH Open Marketplace after the end of the SSHOC project.

Service provision is ensured by Austrian Centre for Digital Humanities and Cultural Heritage ACDH-CH and by Poznan Supercomputing and Networking Center PNSC.

EOSC integration

EOSC developments are closely monitored to ensure the best integration possible (interoperability with other EOSC catalogues & core services integration for ex.)



Research communities / User contributions

The SSH Open Marketplace is designed as to support **community curation**. Contributors can add or enrich existing content via a user-friendly interface

Hands-on sessions are the main means envisioned to support contributions.

Editorial Board & the day-to-day operations

Incl. moderators and administrators who take care of the maintenance, data quality and curation of the SSH Open Marketplace. They are also in charge of the community engagement.

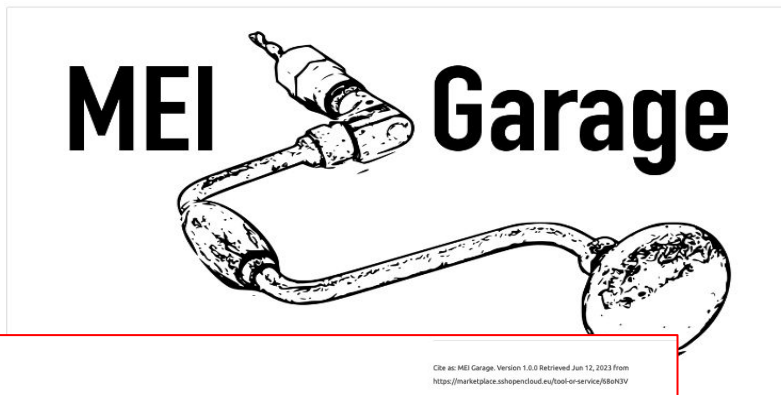
Clara Petitfils, Suzanne Dumouchel, Nicolas Larrousse, Edward J. Gray, Laure Barbot, Arnaud Roi, Matej Ďurčo, Klaus Illmayer, Stefan Buddenbohm, & Tomasz Parkola. (2021). D7.5 Marketplace - Governance. <https://doi.org/10.5281/zenodo.5608487>

Key Pillars of the SSH Open Marketplace

- Contextualization
- Curation
- Community



The MEI Garage is a "workshop" online to convert MusicXML to MEI. It also offers other conversions and various customizations of the MEI Schema.



Related items (3)

Convert to MEI (other softwares)

For other software, there is no plugin to export directly to MEI. In this case, it is possible to use several online converters: Verovio, MEI Friend, MEI Garage. Follow the various resources below. Be aware that Verovio and MEI Friend...

[Read more](#)

Music Encoding Initiative Guidelines

The MEI Guidelines, which include the data dictionary, are intended to serve as a reference tool for music encoders. Through the use of natural-language definitions and examples, this document assists users of MEI in achieving...

[Read more](#)

MEI Schemata

Music Encoding Initiative (MEI) Schemas.

[Read more](#)

[Show more](#)

Cite as: MEI Garage, Version 1.0.0 Retrieved Jun 12, 2023 from <https://marketplace.sshopencloud.eu/tool-or-service/8aK3V>

[Edit](#) [History](#)

[Go to Tool or service](#)

[Copy to clipboard](#)

Details

CATEGORISATION

Activity [Converting](#)
Keyword [Sheet Music](#)
Discipline [Musicology](#)
Language [English](#)
Mode of use [Web application](#)
Intended audience [Public](#)
Resource category [Tools](#)

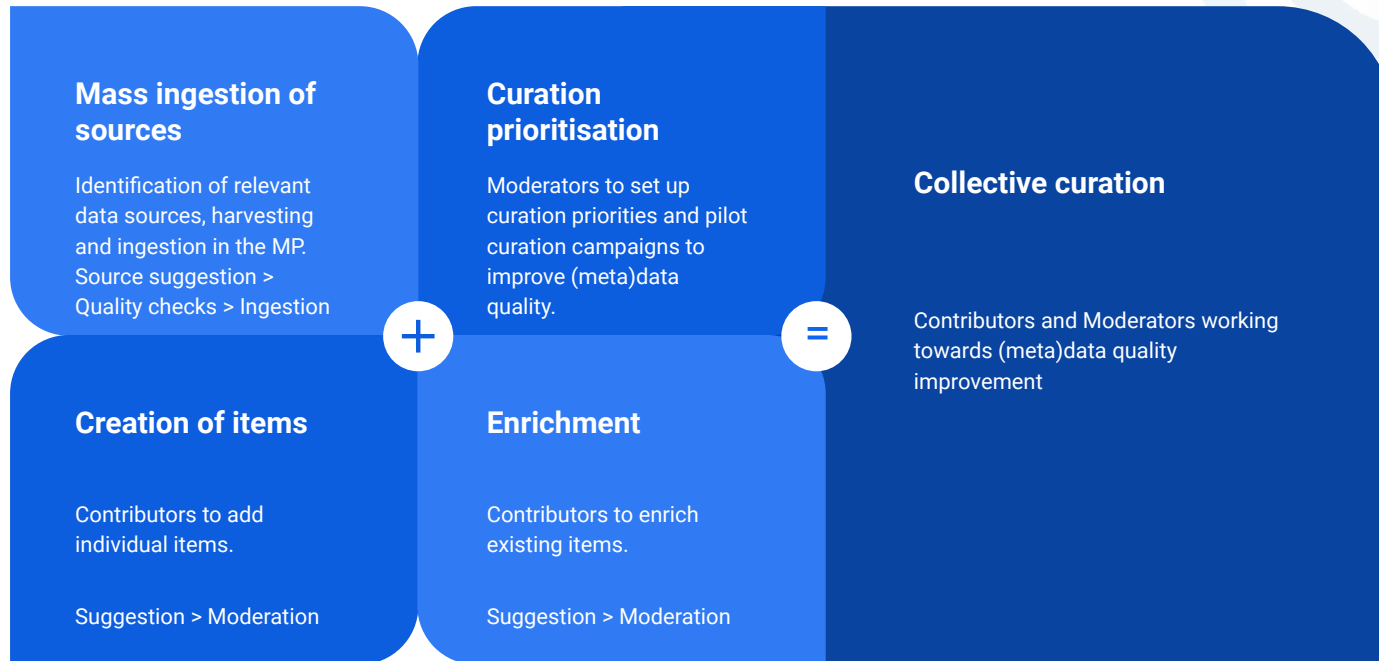
CREATOR

Virtueller Forschungsverbund Edrom
Info@edrom.de
<https://edrom.de>

INFORMATION CONTRIBUTORS

Administrator
Kevin Roger

Data population: Ingestion & Curation



Inclusion criteria

[\(/data-population#inclusion-criteria-for-adding-resources-4-questions-to-ask\)](/data-population#inclusion-criteria-for-adding-resources-4-questions-to-ask)

1. Will this resource be **relevant** to the SSH community?

- Scientific relevance and usefulness for SSH research and researchers
- Pertinence to digital methodologies used within SSH landscape

2. What is the **technical status** of the resource?

- Is it maintained? Is this sustainable?

3. Does the resource follow the spirit of **Open Science**?

- Is the resource FAIR - *Findable, Accessible, Interoperable, and Reusable* ?
- Does it contribute to the uptake of Open Science best practices?

4. Is the resource already in the Marketplace?

- No need to create a new entry - just enrich the current entry!

Focus on workflows



Workflows

Sequences of operation/steps performed on research data during their lifecycle.

Workflows can be achieved by using diverse tools and facilities, and useful resources are connected to each step.

- Research scenarios
- Can be achieved by using diverse tools, resources and methods, and useful resources are connected to each step
- Why?
 - to make a research project align with the best practices in a specific community
 - to get peer review and visibility
 - to share a project in another form than the usual blog / article (a new way to disseminate a researcher's work).

Workflows



Create a dictionary in TEI

[Copy to clipboard](#)

This scenario sets out the best practices for creating a born-digital dictionary, especially with the TEI (Text Encoding Initiative). However, building a standardized lexicographical dataset is not only a data format problem, it is also an intellectual and technical process where one has to choose how to model their data, and with which tools operate in order to create an easy-to-use and sustainable resource.

[Go to Workflow](#)

Details

ACCESS

License [Creative Commons Attribution 4.0 International](#)

CATEGORISATION

Activity [Encoding](#)

Keyword [Linguistics](#) [recommended](#)

Language [English](#)



Workflows



Create a dictionary in TEI

Workflow steps (5)

- 1 Build the model of the dictionary
- 2 Create a corpus of useful resources for the dictionary.
- 3 **Setting up the editing environment**
- 4 Setting up the publishing environment
- 5 Provide for long-term availability

3

Setting up the editing environment

Collapse ▲

Choose a tool for editing the dictionary, and also consider the back-end. For the latter one, we can discern two prototypical approaches: systems based on relational databases (MySQL, PostgreSQL etc.) and native XML databases (eXist, BaseX).

Related items (4)



Dictionary Writing Systems \& Corpus Query Systems

No description provided.

[Read more](#)



BaseX Documentation

BaseX is a light-weight, high-performance and scalable XML Database and an XQuery 3.1 Processor with full support for the W3C Update...

[Read more](#)



Introducing Lexonomy: an open-source dictionary writing and publishing system

This demo introduces Lexonomy www.lexonomy.eu, a free, open-source, web-based dictionary writing and publishing system. In...

[Read more](#)



VLE - Viennese Lexicographic Editor

VLE is an experimental piece of software that first came into existence as a by-product of a collaborative glossary editing project carried out ...

[Read more](#)



Log in (</contribute/create-an-individual-item>)

- Single sign on / federated identity
- Contributors: Create/Edit/Suggest
- Moderators: Approve/Reject

Sign in

Sign in with EOSC using existing accounts such as Google, Dariah, eduTEAMS and multiple academic accounts.

Sign in with EOSC

1. Access the sign in page

2. Click on Sign in with EOSC

EUROPEAN OPEN SCIENCE CLOUD

English

CHOOSE YOUR ACADEMIC/SOCIAL ACCOUNT

DARIAH ORCID eduTEAMS Check-in OpenAIRE MGF Google RIACCESS

or

Search...

- DARIAH AAI
- 29 Mayis University
- ASHARQIYAH UNIVERSITY
- A*STAR - Agency for Science, Technology and Research
- A. T. Still University
- AAF Virtual Home
- aai.lab.maaen.sa

3. Choose your identity provider

Create workflow

1 Workflow details 2 Workflow steps

Label *

Name of the MP entry, max 255 char

Description *

Should be concise and raise interest in entry, allows Markdown content

+ Add URL

ID Service Identifier X Delete

+ Add external ID

Other URLs relevant to resource, eg code, DOI, etc.

+ Add actor

Actors

+ Create new actor

Actor role Name X Delete

Contributor Person/group/body who helped create resource

+ Add actor

Properties

Property type Concept X Delete

Activity The activities you can do with the resource

A tutorial to create your workflow:

[/workflow/hmGpmv](#)



How to create a workflow in the SSH Open Marketplace?

The following workflow helps users understand what a workflow is in the SSH Open Marketplace and how to proceed to create one.

As described in the [Marketplace's guidelines](#): "A research workflow is a (potentially complex/non-linear) sequence of steps to describe how to perform a task within the research data lifecycle (comparable to 'recipes' in [methodi.ca](#) and 'scenarios' in the [SSK](#)). A workflow can be completed by using diverse tools and resources, connected to each step. As opposed to Training Materials, workflows are a series of steps (which can contain links to other resources) whereas the former are unique resources."

This specific workflow guides users, step by step, in the creation of their own research scenario. Let's highlight first the three main reasons for which you, as a researcher, want to contribute to the SSH Open Marketplace with a workflow:

- to make your research project align with the best practices in your community
- to get peer review and visibility
- to share a project in another form than the usual blog / article (a new way to disseminate your work).



Details

ACCESS

License: [Creative Commons Attribution 4.0 International](#)

CATEGORISATION

Activity: [Capturing](#), [Writing](#), [Contextualizing](#), [Editing](#)

Keyword: [Workflows](#), [research scenario](#), [use case](#), [tutorial](#)

CONTEXT

See also: https://ssk.readthedocs.io/en/latest/1_tuto.html, <http://methodi.ca/>

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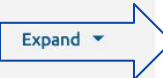
A tutorial to create your workflow: </workflow/hmGpmv>

Workflow steps (6)

1	Identify a good workflow	Expand ▾
2	Describe your workflow	Expand ▾
3	Associate metadata to the workflow	Expand ▾
4	Choose an illustration for the scenario	Expand ▾
5	Create and describe steps	Expand ▾
6	Identify and reference relevant resources	Expand ▾



-built on use cases, inspired from real life
-living memory of what should be the best research practices in a given community
-reusable for other researchers
-recommended tools, formats, methods to use



Explain the scientific problematic and describe the solution: extend the acronyms cited and briefly present the projects mentioned; ~1500 characters; Markdown syntax supported

A tutorial to create your workflow: </workflow/hmGpmv>

Workflow steps (6)

1 Identify a good workflow Expand ▾

2 Describe your workflow Expand ▾

3 Associate metadata to the workflow 

4 Choose an illustration for the scenario

5 Create and describe steps

6 Identify and reference relevant resources

Properties

Property type

Activity

Concept

Encoding

Based on [TaDIRAH - Taxonomy of Digital Research Activities in the Humanities](#)

× Delete

✓ ▾

The activities you can do with the resource

Property type

Keyword

Concept

Linguistics

✓ ▾

Suggest new concept

× Delete

Concept or term related to MP entry

Property type

Language

Concept

English

× Delete

✓ ▾

Language(s) in which a resource is available

Property type

License

Concept

Creative Commons Attribution 4.0 International

We recommend cc-by for workflows

× Delete

✓ ▾

Select license pertaining to resource

Details

ACCESS

License: Creative Commons Attribution 4.0 International

CATEGORISATION

Activity: Encoding

Keyword: Linguistics, recommended

Language: English

AUTHOR

Karlheinz Mörth

Charles Riondet

Lionel Tadjou

A tutorial to create your workflow:

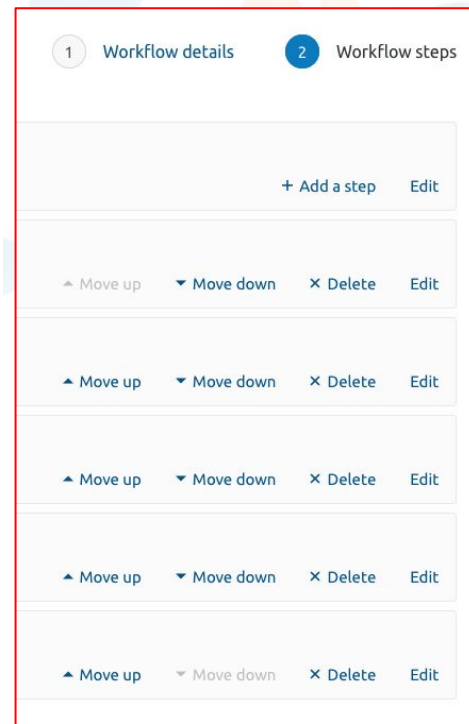
</workflow/hmGpmv>

Workflow steps (6)

- 1 Identify a good workflow
- 2 Describe your workflow
- 3 Associate metadata to the workflow
- 4 Choose an illustration for the scenario
- 5 Create and describe steps
- 6 Identify and reference relevant resources

- determine the different steps needed for someone else to perform the workflow
- One step = an action (or a set of actions) + associated resources
- Steps are usually temporarily ordered
- Recommendation: to not exceed 10 steps

Tips: Choose explicit titles starting with a verb or a gerund; describe the action and how it relates to the previous one; include a presentation of the different kind of methods and tools the resources would point to



The screenshot shows the 'Workflow steps' section of a web interface. At the top, there are two tabs: '1 Workflow details' and '2 Workflow steps', with '2 Workflow steps' being the active tab. Below the tabs, there is a list of steps. Each step is represented by a light gray box with a white border. The first step is empty, and the others contain the text 'Move up', 'Move down', 'Delete', and 'Edit'. The 'Delete' button is represented by an 'X' icon, and the 'Edit' button is a text label. The 'Move up' and 'Move down' buttons are represented by upward and downward arrow icons respectively. The interface is clean and modern, with a white background and light gray accents.

A tutorial to create your workflow:

[/workflow/hmGpmv](#)

Workflow steps (6)

1 Identify a good workflow

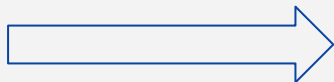
2 Describe your workflow

3 Associate metadata to the workflow

4 Choose an illustration for the scenario

5 Create and describe steps

6 Identify and reference relevant resources



3 Setting up the editing environment

Collapse ▲

Choose a tool for editing the dictionary, and also consider the back-end. For the latter one, we can discern two prototypical approaches: systems based on relational databases (MySQL, PostgreSQL etc.) and native XML databases (eXist, BaseX).

Related items (4)



Dictionary Writing Systems \& Corpus Query Systems

No description provided.

[Read more](#)



BaseX Documentation

BaseX is a light-weight, high-performance and scalable XML Database and an XQuery 3.1 Processor with full support for the W3C Update...

[Read more](#)



Introducing Lexonomy: an open-source dictionary writing and publishing system

This demo introduces Lexonomy www.lexonomy.eu, a free, open-source, web-based dictionary writing and publishing system. In...

[Read more](#)



VLE - Viennese Lexicographic Editor

VLE is an experimental piece of software that first came into existence as a by-product of a collaborative glossary editing project carried out ...

[Read more](#)

Why share resources via the Marketplace?

Thanks to the SSH Open Marketplace, SSH researchers can:

1. Gain access to useful and well curated resources
2. Find and discover new digital methods
3. Easily understand and assess usefulness of a resource thanks to the contextualisation provided between the items of the catalogue
4. Promote their work, e.g., by adding information about the tool or workflow they develop
5. Actively involve in the SSH community data curation routines, becoming basic contributor or advanced curator

Thank you!

<https://marketplace.sshopencloud.eu/>

sshopenmarketplace@sshopencloud.eu
laure.barbot@dariah.eu



Demo - vocabularies

Property type: Activity

Concept: data

Property type: Keyword

Property type: Discipline

Concept: Data Visualization
<https://vocabs.dariah.eu/tadirah/dataVisualization>

Concept: Data Mapping
<https://vocabs.dariah.eu/tadirah/dataMapping>

Concept: Data Mining
<https://vocabs.dariah.eu/tadirah/dataMining>

Concept: Linked Open Data
<https://vocabs.dariah.eu/tadirah/linkedOpenData>

Property type: Activity

Concept: Network Analysis

The activities you can do with the resource. [See TaDIRAH 2.](#)

Vocabularies

property	vocabulary
geographical-availability	EOSC Geographical Availability List
life-cycle-status	EOSC Life Cycle Status List
resource-category	EOSC Resource Category List
intended-audience	audience
mode-of-use	Invocation types
language	ISO 639-3 Language Codes
keyword	Keywords from SSHOC MP
object-format	Media Types from IANA
discipline	ÖFOS 2012. Austrian Fields of Science and Technology Classification 2012
license	Software License from SPDX
standard	SSK Standards List
activity	TaDIRAH 2
publication-type	The Bibliographic Ontology Concept Scheme



TaDIRAH: Taxonomy of Digital Research Activities in the Humanities

Content language: English - Search

- Alphabetical
 - Hierarchy
- A B C D E F G H I K L M N O P
Q R S T U V W

- Abstract Thinking
- Academic Publishing
- Adding
- Aggregating
- Analyzing
- Annotating
- Archiving
- Associate
- Associating
- Audio Annotation
- Audio Conferencing
- Audio Recording
- Authorship Attribution

Vocabulary information

TITLE	TaDIRAH
DESCRIPTION	Taxonomy of Digital Research Activities in the Humanities was designed to help community-driven sites and projects structure their digital humanities (DH) content and gain better visibility. TaDIRAH provides terminology for DH research activities as well as scope notes that also explain the methods associated with them. Version 2.0 linked here is a complete revision and skosification of the taxonomy. For more information and additional resources, see tadirah.info
CREATOR	Luise Borek, Canan Hastik, Vera Khramova, Jonathan Geiger
CONTRIBUTOR	Elicabeth Burr, Francesca Tomasi, Tiziana Mancinelli, Monica Berti, Klaus Thoden, Luise

Demo - metadata guidelines

</contribute/metadata-guidelines>

Property Field	Tools & Services	Training Material	Publication	Datasets	Workflows
Generic Metadata					
<i>label</i>			mandatory		
<i>description</i>			mandatory		
<i>actor</i>			recommended		
<i>accessibleAt</i>		recommended			
<i>externalID</i>			recommended		
<i>media</i>			recommended		
<i>thumbnail</i>			recommended		
<i>relatedItems</i>			recommended		

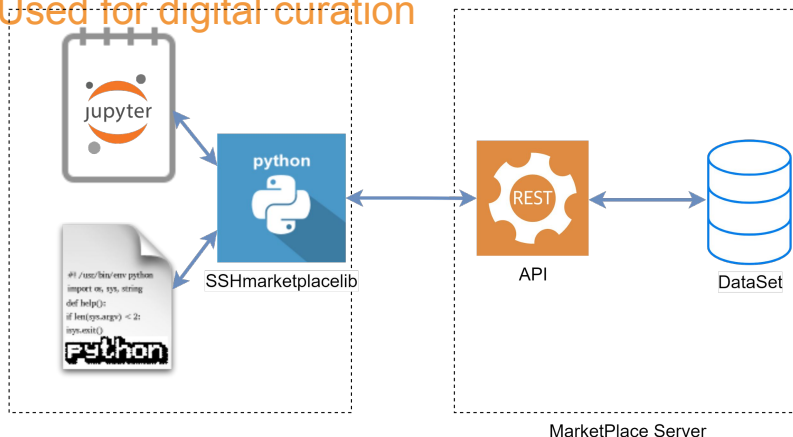
Guidance for metadata fields

Property Field's name	How to fill in? Some recommendations for contributors
Accessible at = "Go to..." button	URL of the resource. Landing page of the resource which could be the persistent identifier. Ideally, only one URL should be added as accessibleAt. For other URLs, see "externalID".
Access Policy URL	URL pointing to information about the access policy that applies to the Resource. Follows EOSC Portal Providers Documentation . Related to Authentication
Activity	Contributors will select a term, drawn from the controlled vocabulary TaDIRAH , that describes the activities you can perform using the resource showcased in the SSH Open Marketplace Entry.

Curation notebooks & curation flags

SSH Open Marketplace Data Library:

- Created by Cesare Concordia (Consiglio Nazionale delle Ricerche CNR)
- gitlab.gwdg.de/sshoc/marketplace-curation
- Python library to access MP data
- Used for digital curation



Items to moderate (69)

Refine your search

Clear filters

CURATION

- Coverage
- Description
- Merged
- Relations
- URL

STATUS

- Ingested
- Suggested
- Approved