ETH zürich

ETH Library

Coffee Lectures

How to find an ETH-external FAIR data repository

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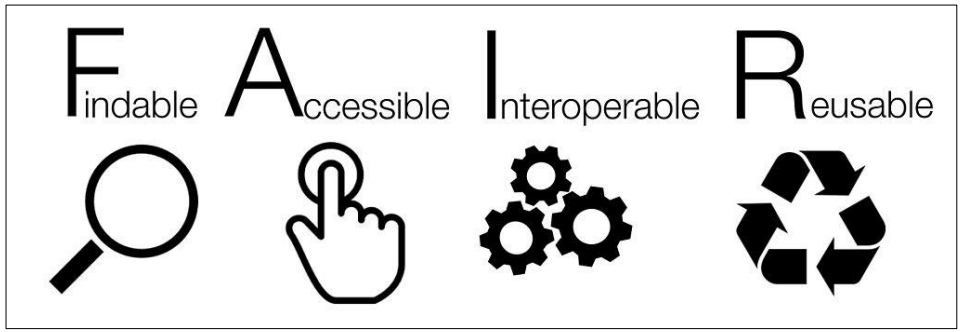
23 November 2022, Webinar via Zoom

Learning goals

1. How can you make use of www.re3data.org to find suitable discipline-specific repositories?

2. What are the criteria making a data repository FAIR?



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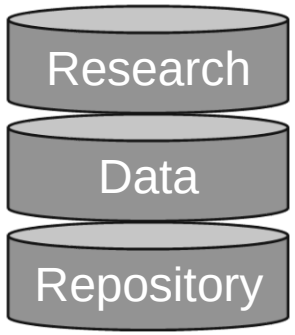
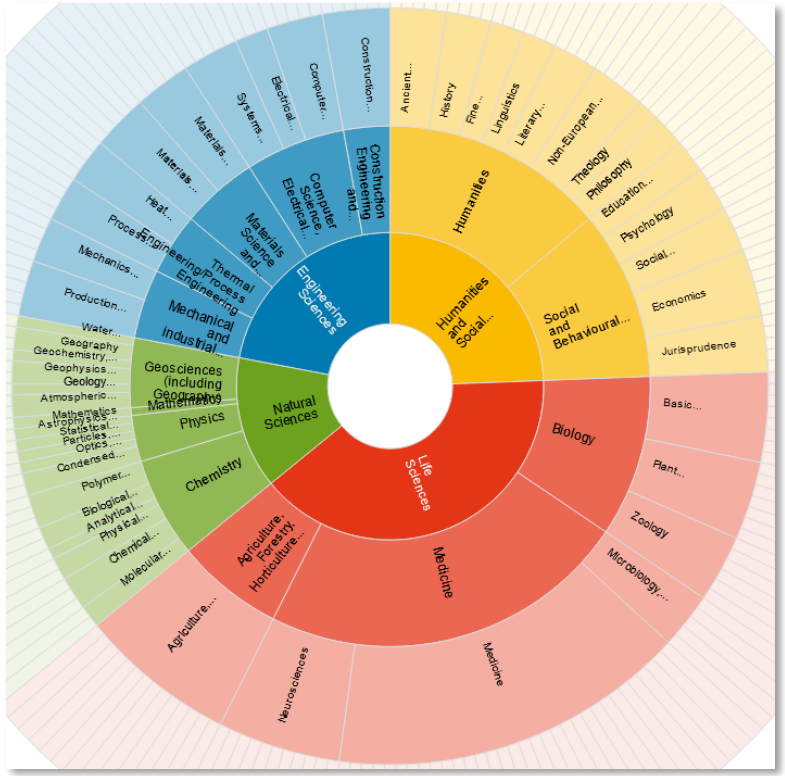


re3data.org – registry of research Data repositories

(images are taken from: www.re3data.org)

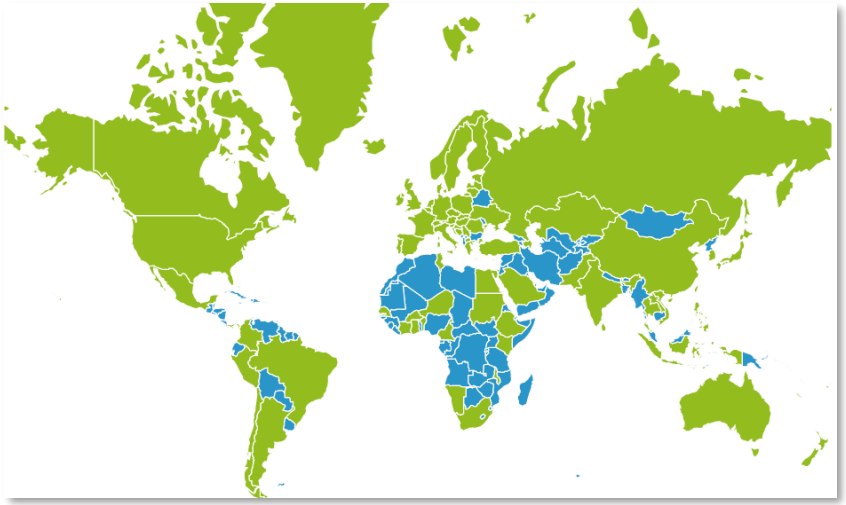
Subject



Content

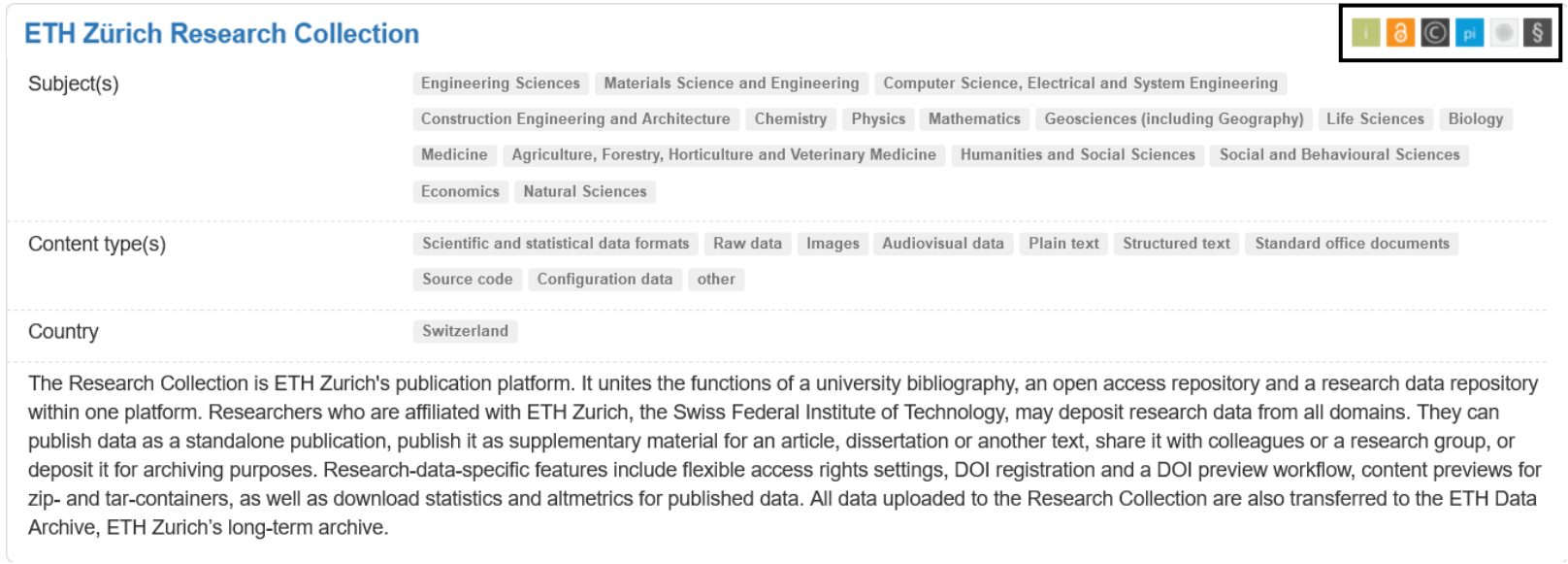
- Archived data
- Audiovisual data
- Configuration data
- Databases
- Images
- Networkbased data
- Plain text
- Raw data
- Scientific and statistical data formats
- Software applications
- Source code
- Standard office documents
- Structured graphics
- Structured text
- other

Country



≥ 1 repository no repository

re3data.org icon system - important characteristics at a glance



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Subject(s)	Engineering Sciences · Materials Science and Engineering · Computer Science, Electrical and System Engineering · Construction Engineering and Architecture · Chemistry · Physics · Mathematics · Geosciences (including Geography) · Life Sciences · Biology · Medicine · Agriculture, Forestry, Horticulture and Veterinary Medicine · Humanities and Social Sciences · Social and Behavioural Sciences · Economics · Natural Sciences
Content type(s)	Scientific and statistical data formats · Raw data · Images · Audiovisual data · Plain text · Structured text · Standard office documents · Source code · Configuration data · other
Country	Switzerland

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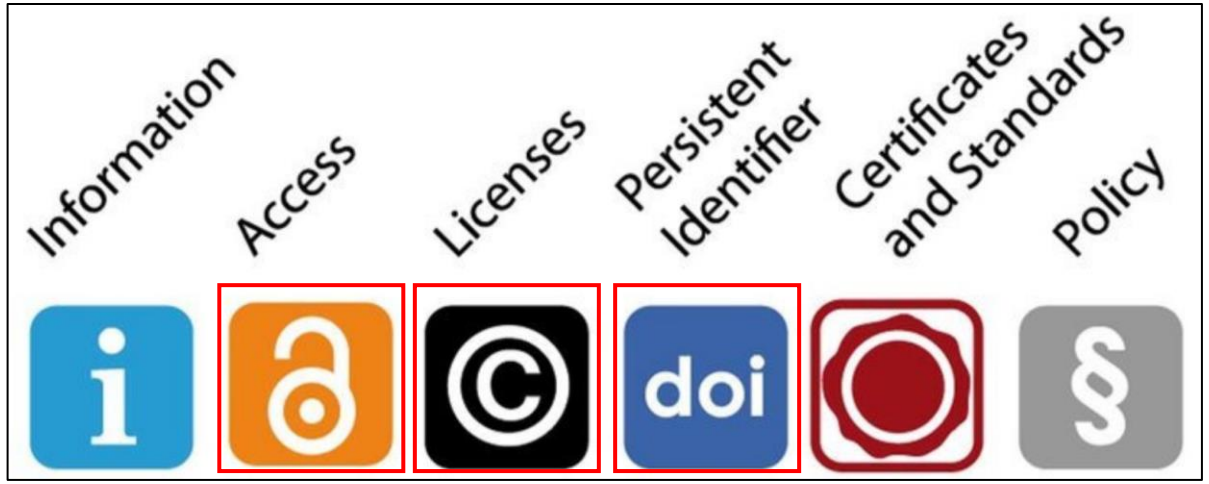
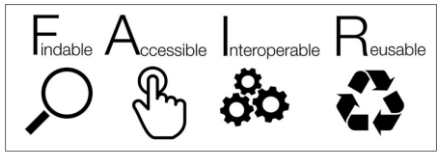


Image from: https://coref.project.re3data.org/blog/how-open-are-repositories-in-re3data



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some FAIR criteria

- **Access**: metadata and data (at least some) are openly accessible
- **Licenses**: terms of use and licenses of the data are provided
- **Persistent Identifier** is assigned (can be different from «doi»)

Criteria* to identify **FAIR data repositories** (own summary)

*source SNSF: https://www.snf.ch/media/en/zKRJknEq0OHE5pEQ/Checklist_data_repositories.pdf

Can be assessed with the re3data icon system

- ✓ A unique persistent identifier (e.g., DOI) is given to every uploaded dataset or data package
- ✓ Publicly accessible
- ✓ Some metadata corresponding to a dataset or data package are openly available
  - e.g., user license
  - e.g., citation information

Needs to be further assessed at re3data or at the repository's own webpage:

? Common open licenses can be chosen (e.g., Creative Commons licenses such as CCO or CC-BY)

? Standardised submission form for intrinsic metadata (e.g., author's name, associated publication etc.)

? Submitter-defined metadata (e.g., definition of variable names etc.)

? Uploaded dataset will be stored for at least 10 years

Further evaluation of a selected data repository using additional sources

- **SNSF List of recommended repositories**
  https://www.snf.ch/en/WtezJ6qxuTRnSYgF/topic/open-research-data-which-data-repositories-can-be-used

- **FAIRsharing**
  https://fairsharing.org/search?fairsharingRegistry=Database

- **DataCite Repository Finder**
  https://repositoryfinder.datacite.org/

- **DataCite Commons**
  https://commons.datacite.org/repositories?query=

Concluding remarks

Discipline-specific research data repositories are recommended

Popular and sustainable

Community-based standards and practices are to be preferred

Avoid commercial research data repositories (in line with RDMGs)

Your effort in finding a FAIR data repository is an investment in your future research

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