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Practicing Open Science

workflows, tools and tips for FAIR and ORDM

Turkey in Horizon 2020 | FGT-11: Focus Group
Training on Open Science | 20 April 2021

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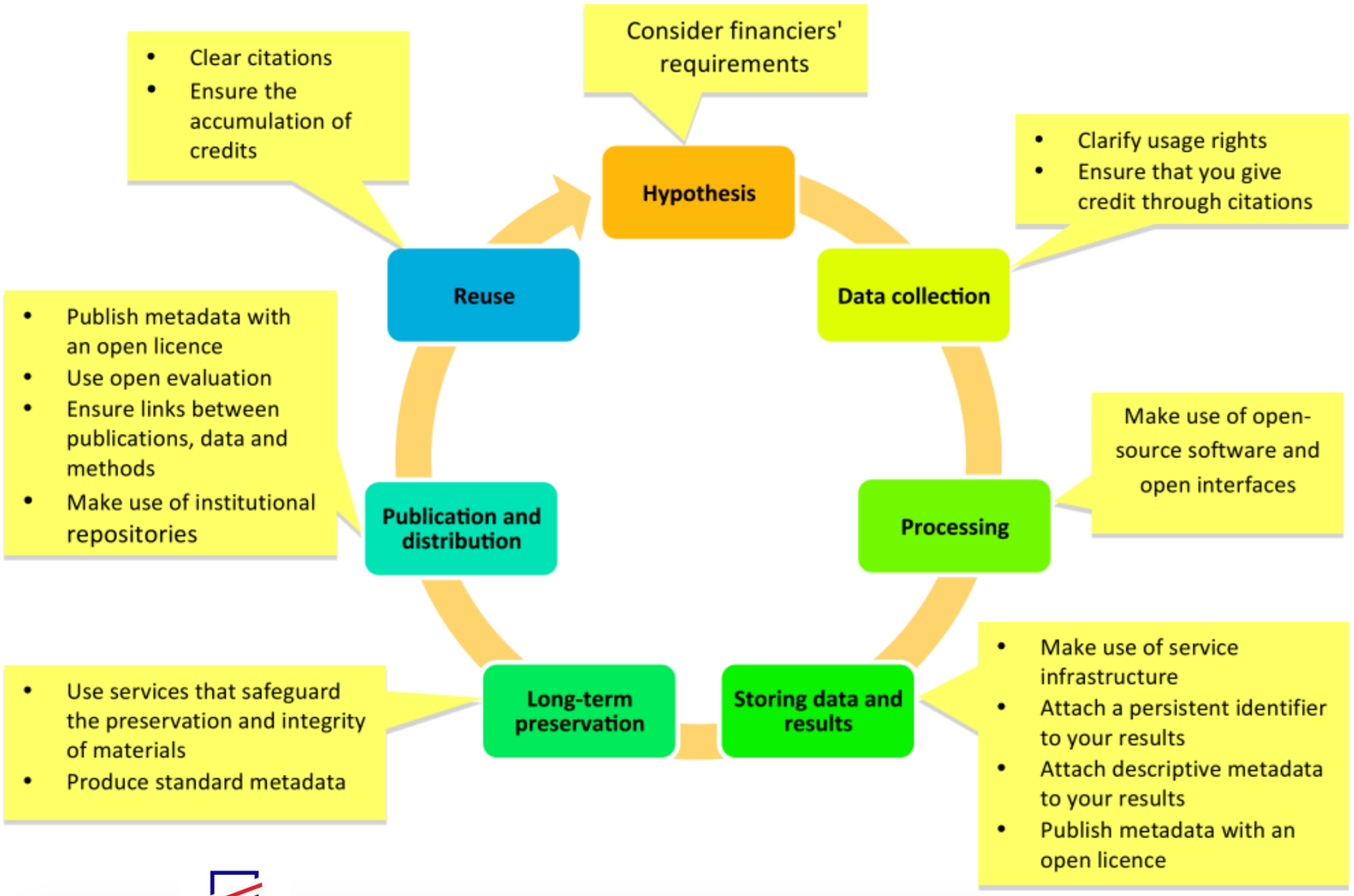
Practices in RDM lifecycles

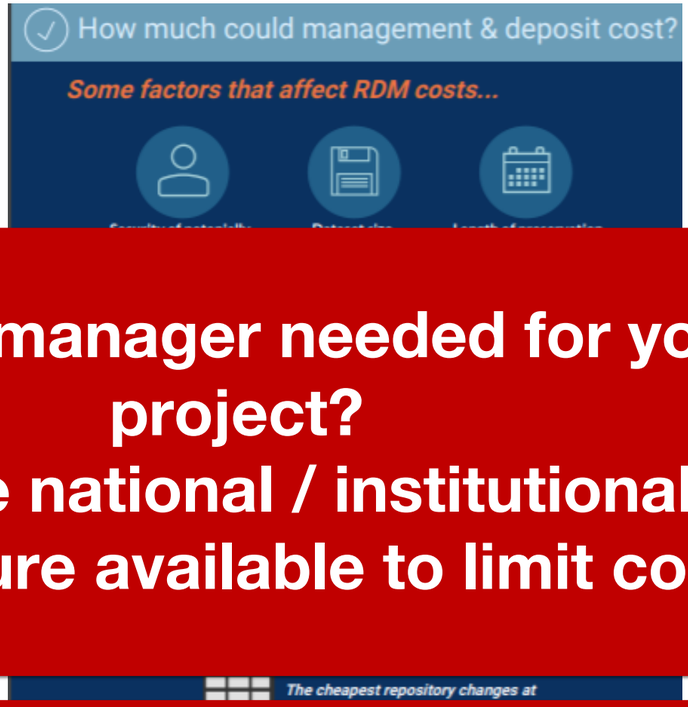


(Open Science and Research Initiative, 2014)

For researchers

Tool for costing RDM

1. Data Collection	**Data transfer** Are special measures needed to transfer data from mobile devices, from fieldwork sites or from home equipment to a central work server?	Is software or hardware needed for data transfer, for encryption of confidential data before transfer, or for synchronisation of data files across sites?	Free encryption or data transfer software (i.e. SurfFileSender) is available in most cases
2. Data Documentation	**Data description and Metadata** Are data in a spreadsheet, database or data warehouse clearly marked with variable, variable labels and value labels, code descriptions, missing value descriptions, etc.? Are validated questionnaires and standard coding used?	If data description is carried out as part of data creation, data input or data transcription – low or no additional cos If needed to be added or harmonized afterwards – higher cost Codebooks for datasets can often be easily exported from software packages	Examples: 4 hrs (120 measurem required metad assistance of a 2* salary Two to three weeks are costed into an average two year application to pre materials for dep More informatio archive.ac.uk/he



- **Is a data manager needed for your project?**
- **Is there national / institutional infrastructure available to limit costs?**

- **Check OpenAIRE in Turkey for repositories**
- **Check EOSC Marketplace**

infographic/view-document

Tool for writing DMPs

Plan and follow your data

Create machine actionable DMPs.
Configure to best fit your discipline.
Link to EOSC components out of the box.
Share easily in your repository.

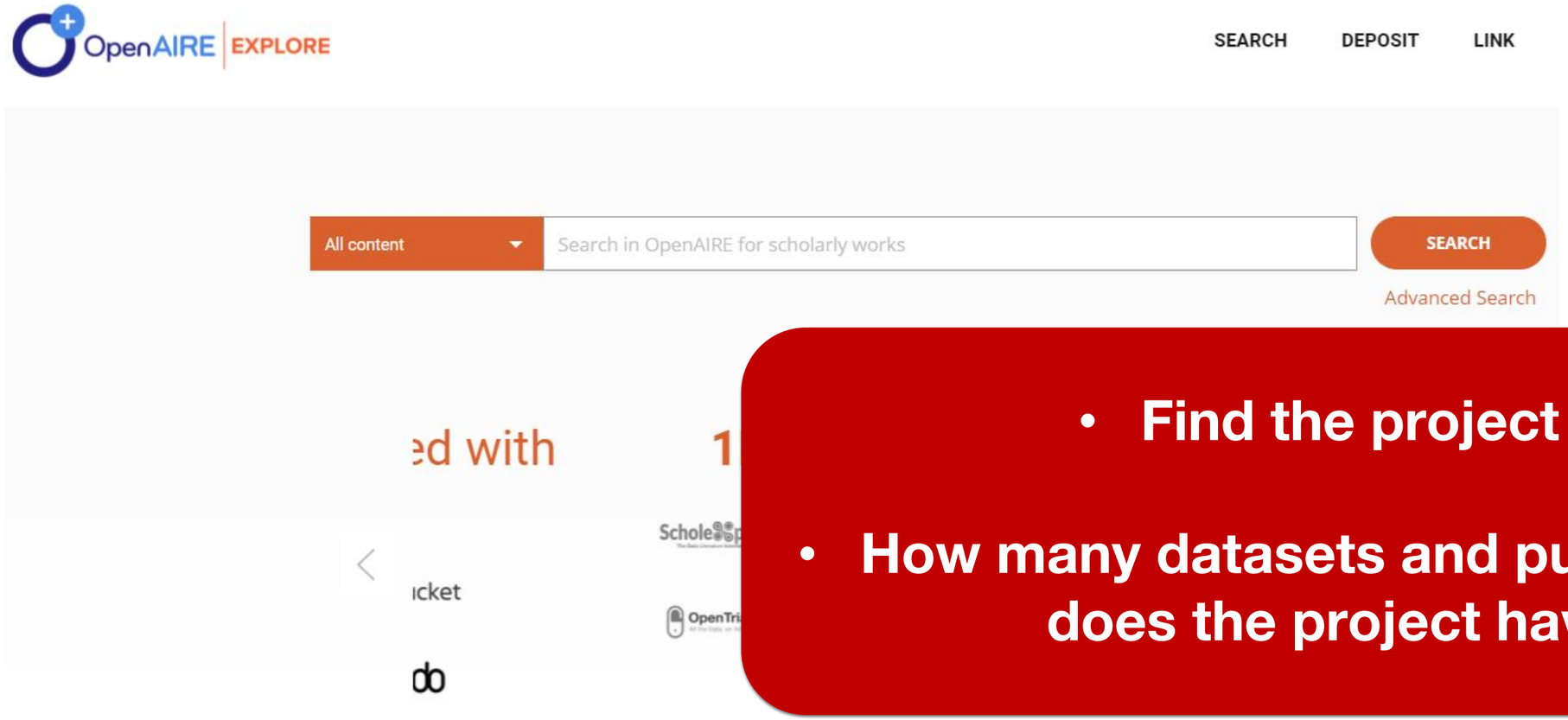
Bring your Data Management Plans closer to where data are generated, analysed and stored.

Start your DMP

- **Start a DMP and share it with a colleague**
- **Describe your dataset with the TUBITAK template**

https://argos.openaire.eu/splash/

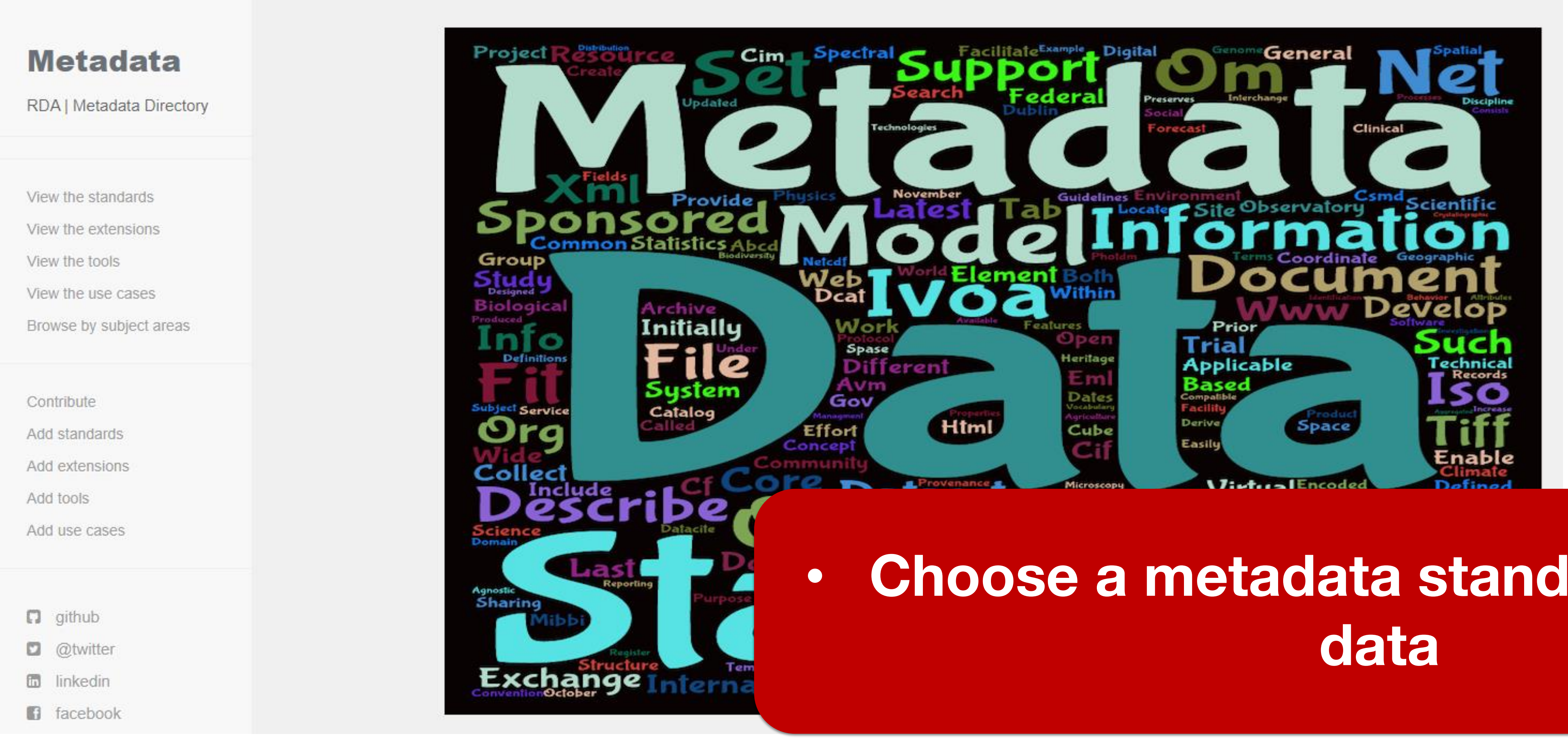
Tool for finding data



- **Find the project**
- **How many datasets and publications does the project have?**

https://explore.openaire.eu/

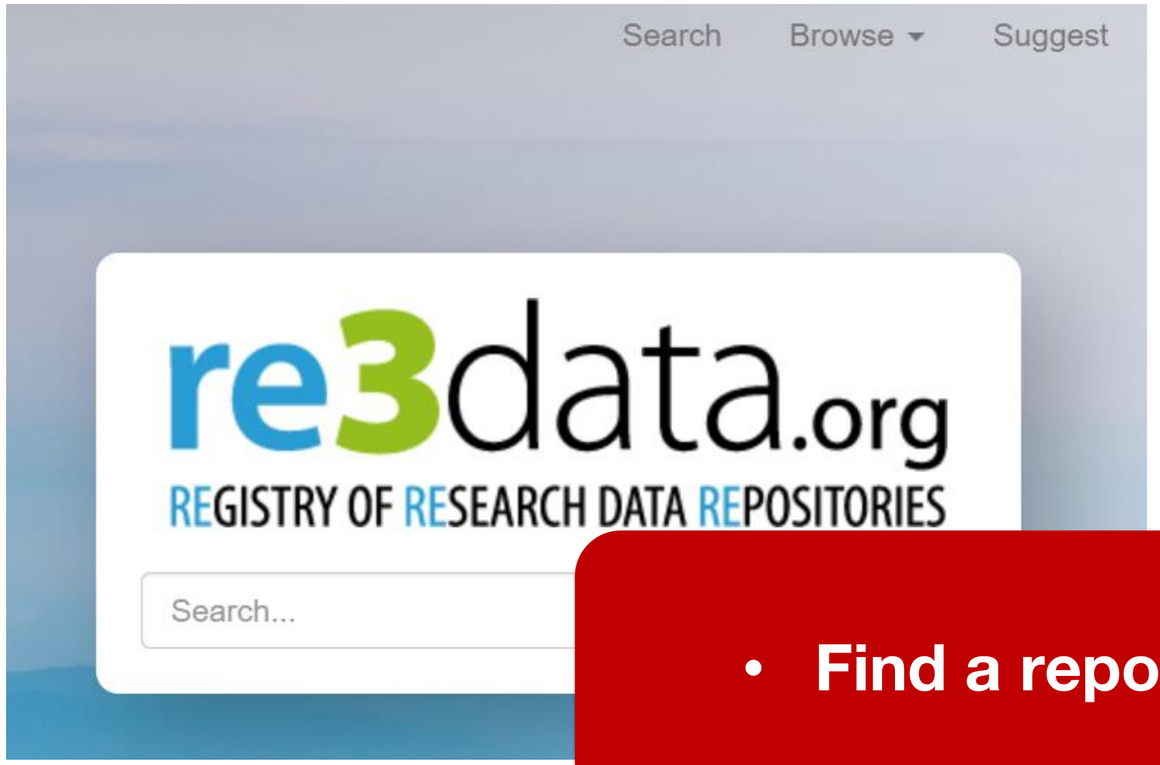
Tool for finding metadata standards



- Choose a metadata standard for your data

http://rd-alliance.github.io/metadata-directory/

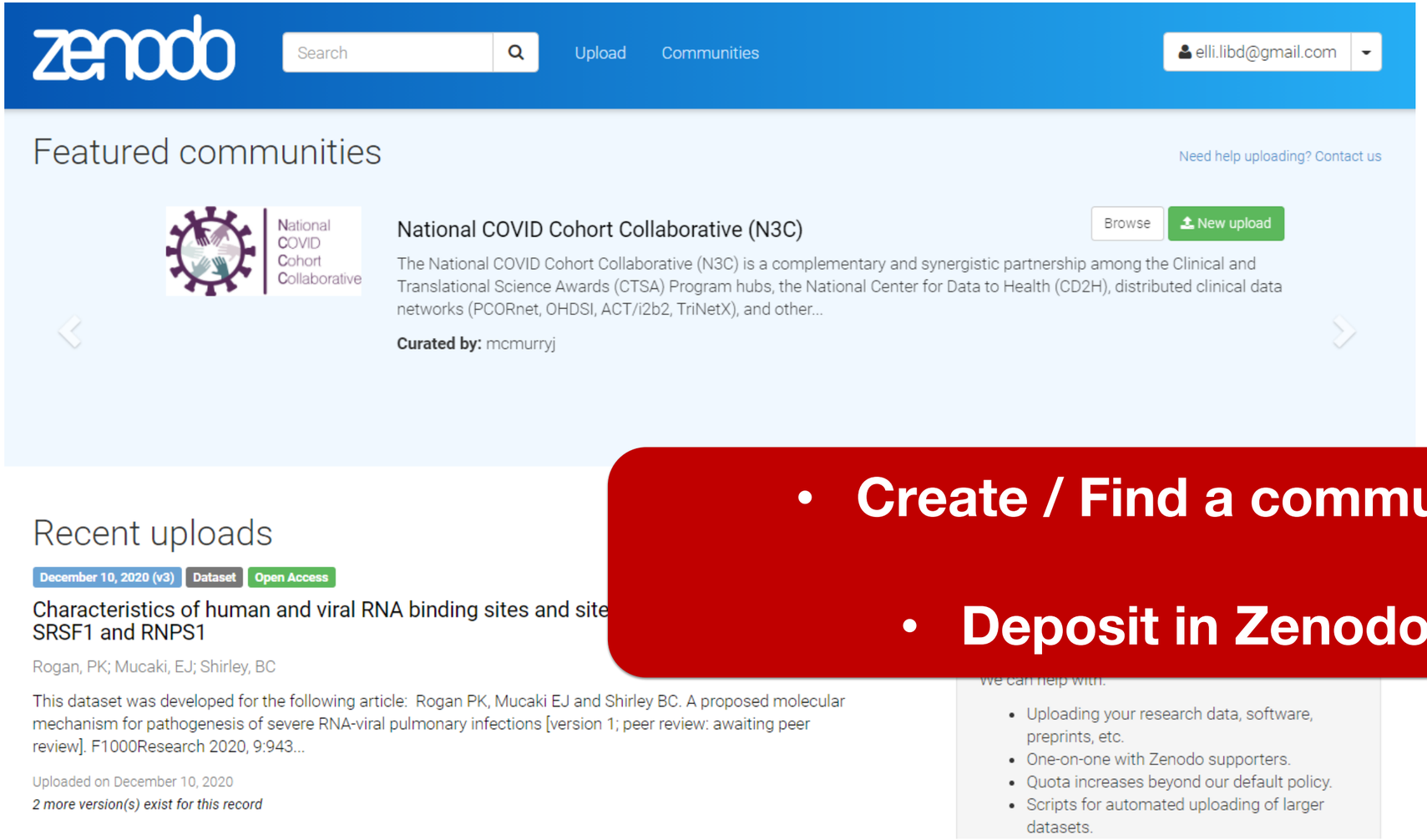
Tool for finding data repositories



- **Find a repository for your data**

https://www.re3data.org/

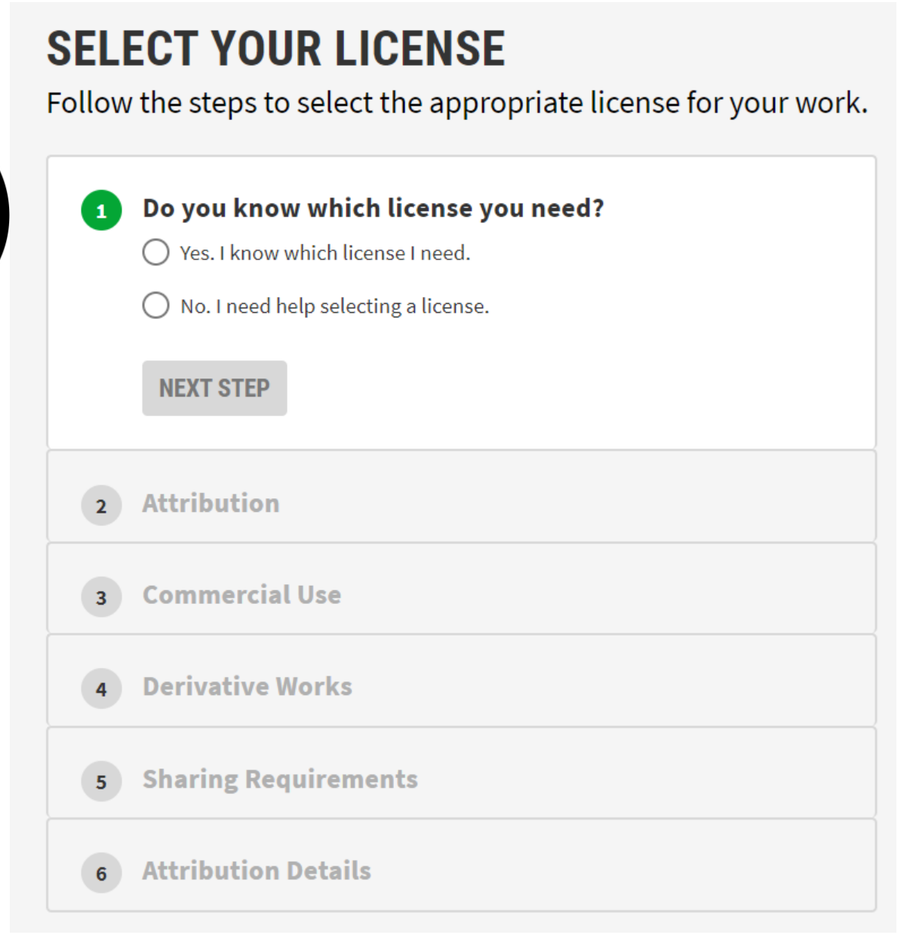
Tool for archiving data & software



- **Create / Find a community**
- **Deposit in Zenodo**

https://zenodo.org/

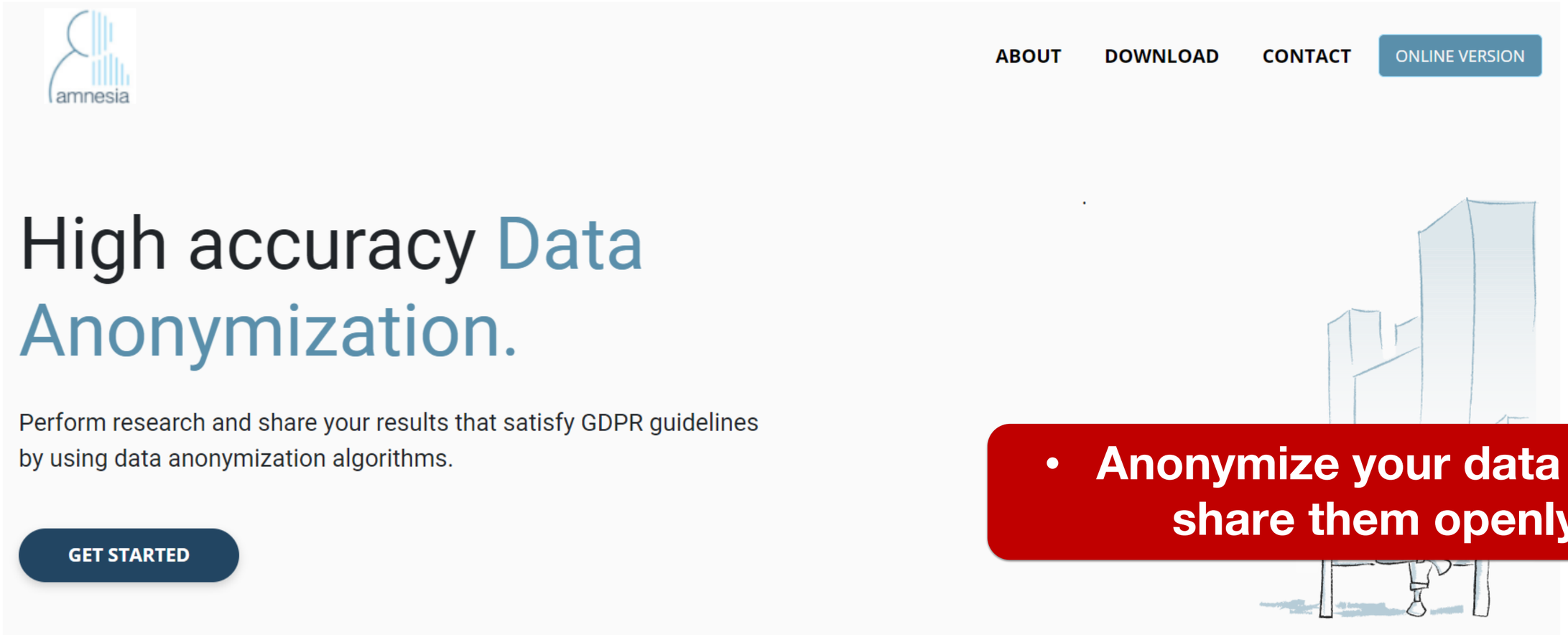
Tools to decide which license to choose



https://chooser-beta.creativecommons.org/

- **Choose a license for your data**
- **Check other researchers' license to know how to re-use their work**

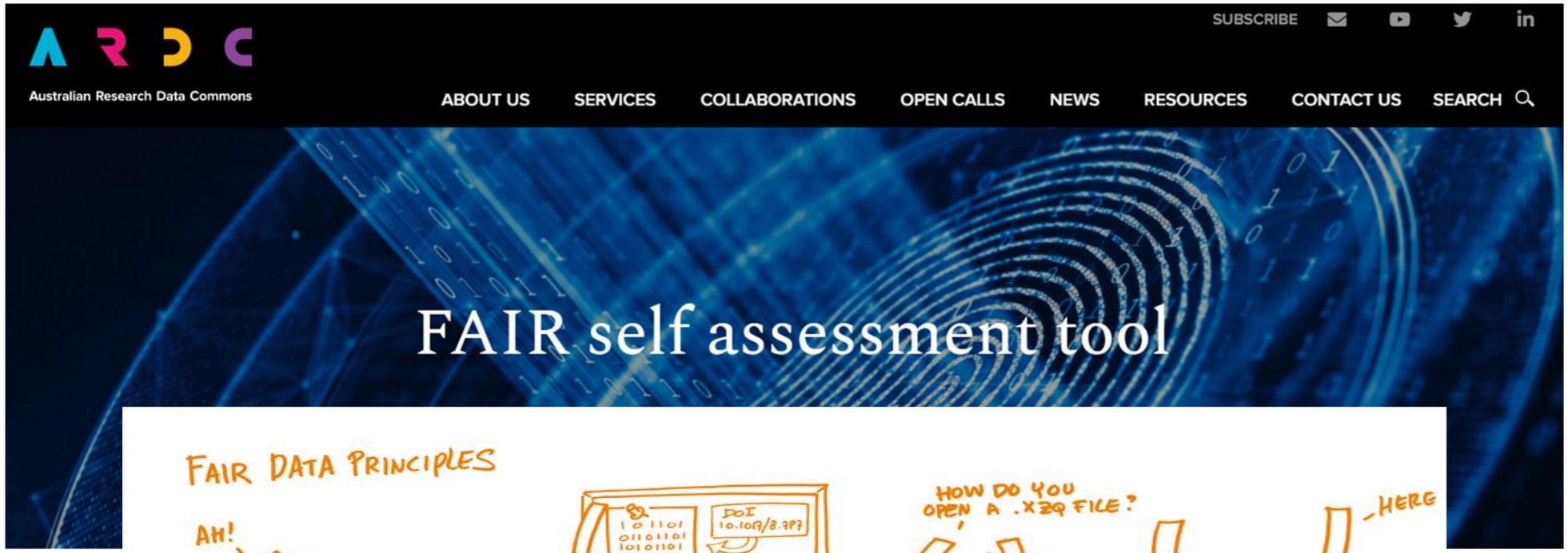
Amnesia tool for anonymization



- **Anonymize your data and share them openly**

https://amnesia.openaire.eu/

FAIR



- **Check how FAIR is your data**

https://ardc.edu.au/resources/working-with-data/fair-data/fair-self-assessment-tool/

For repositories and services

Findability - PID systems

Digital Objects

ARK

Researchers & Organisations

Other activities

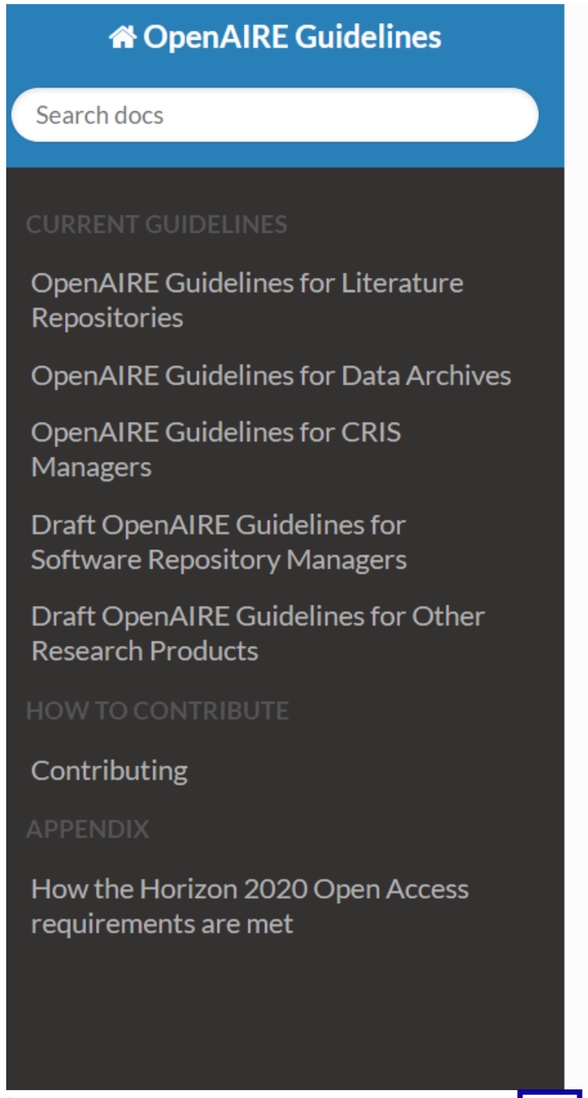
- **Integrate with systems that provide PIDs**

Secure Access

- **Integrate with AAI**

https://op.europa.eu/en/publication-detail/-/publication/d1bc3702-61e5-11eb-aeb5-01aa75ed71a1/language-en/format-PDF/source-188566729

Interoperability - metadata



Docs » OpenAIRE Guidelines View page source

OpenAIRE Guidelines

Welcome to the OpenAIRE Guidelines. The intention of this is to provide a public space to share OpenAIREs work on interoperability and to engage with the community. The OpenAIRE Guidelines helps repository managers expose publications, datasets and CRIS metadata via the OAI-PMH protocol in order to integrate with OpenAIRE infrastructure.

OpenAIRE Guidelines have been released for publication repositories, data archives, CRIS systems, so repositories of other research products resp

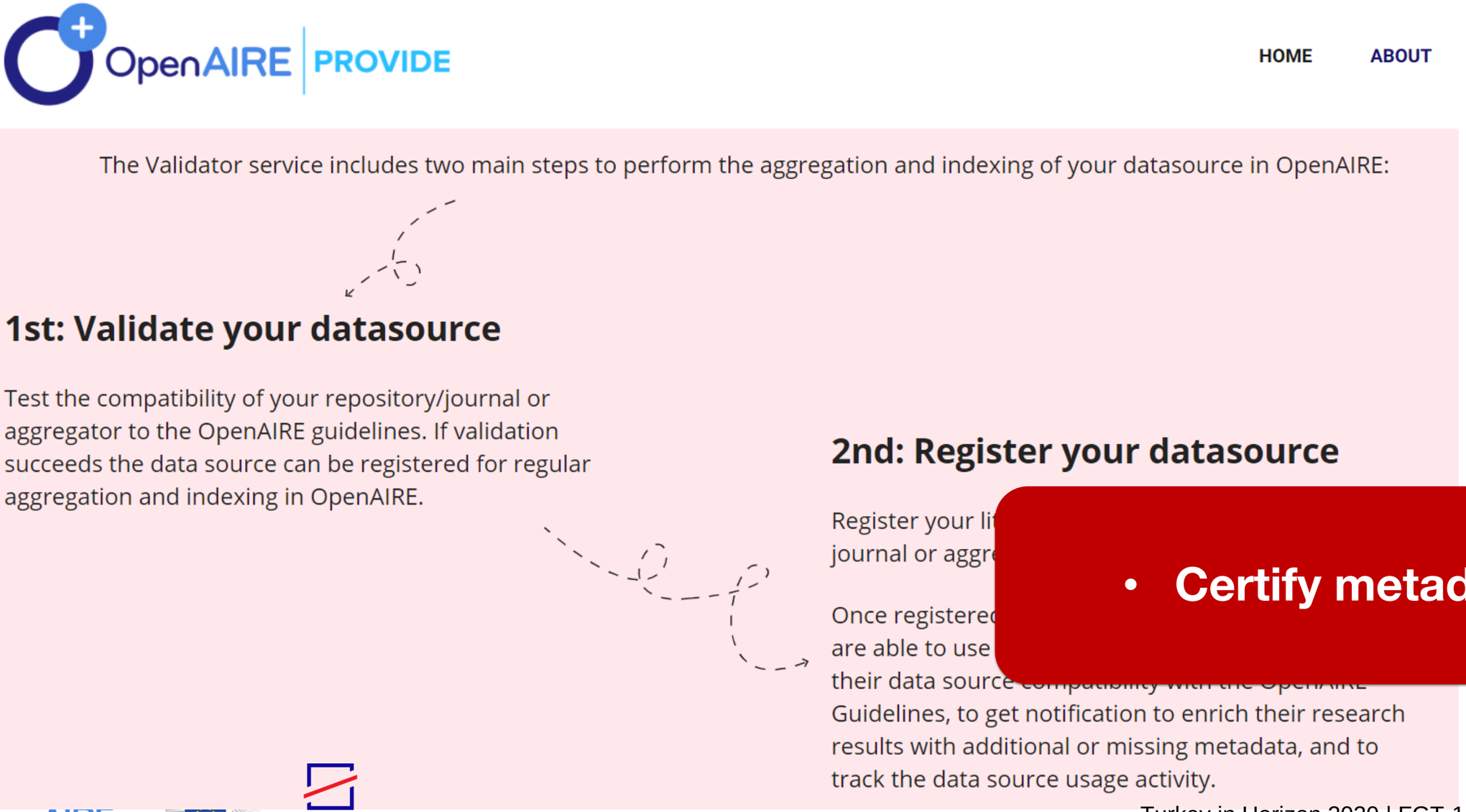
Current Guidelines

- OpenAIRE Guidelines for Literature Repo
- OpenAIRE Guidelines for Data Archives
- OpenAIRE Guidelines for CRIS Managers
- Draft OpenAIRE Guidelines for Software Repository Managers

- **Expose metadata of data catalogues with OAI-PMH open protocol**

https://guidelines.openaire.eu/en/latest/

Compliance



- **Certify metadata**

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Thank you!

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