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Practicing Open Science

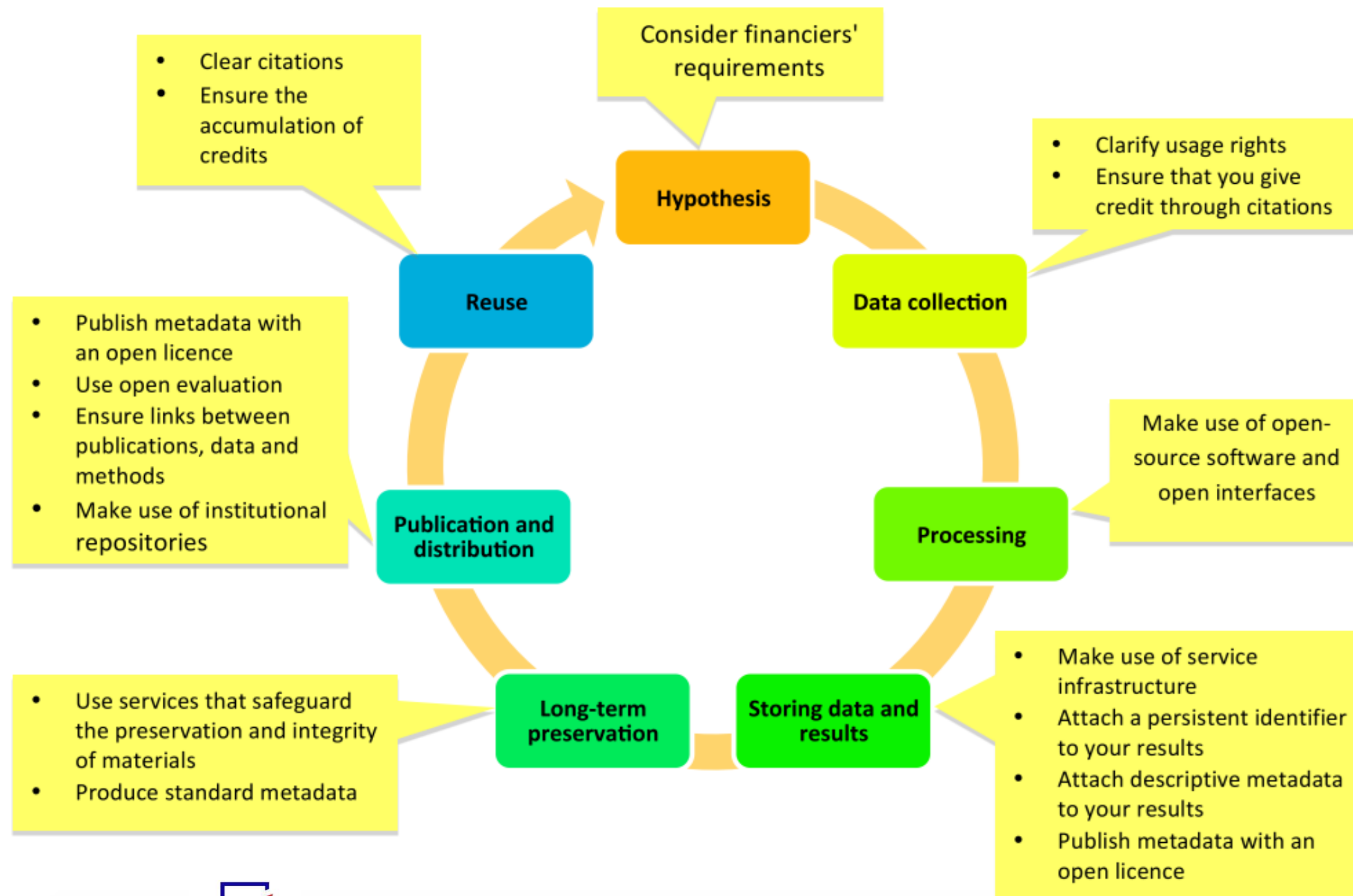
workflows, tools and tips for FAIR and ORDM



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



Practices in RDM lifecycles





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 cost If needed to be added or harmonized afterwards – higher cost Codebooks for datasets can often be easily exported from software packages	<u>Examples:</u> 4 hrs (120 measurements) required metadata assistance of a 2* salary Two to three weeks are costed into an average two year project application to prepare materials for deposit More information archive.ac.uk/help

How much could management & deposit cost?
Some factors that affect RDM costs...

- Number of staff
- Duration
- Length of project

The cheapest repository changes at

- 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

Tool for writing DMPs



Plan and follow your data

Create machine actionable DMPs.

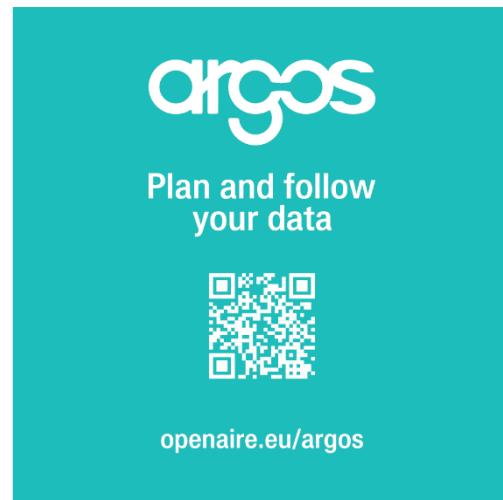
Configure to best fit your discipline.

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



SEARCH DEPOSIT LINK

All content
Advanced Search

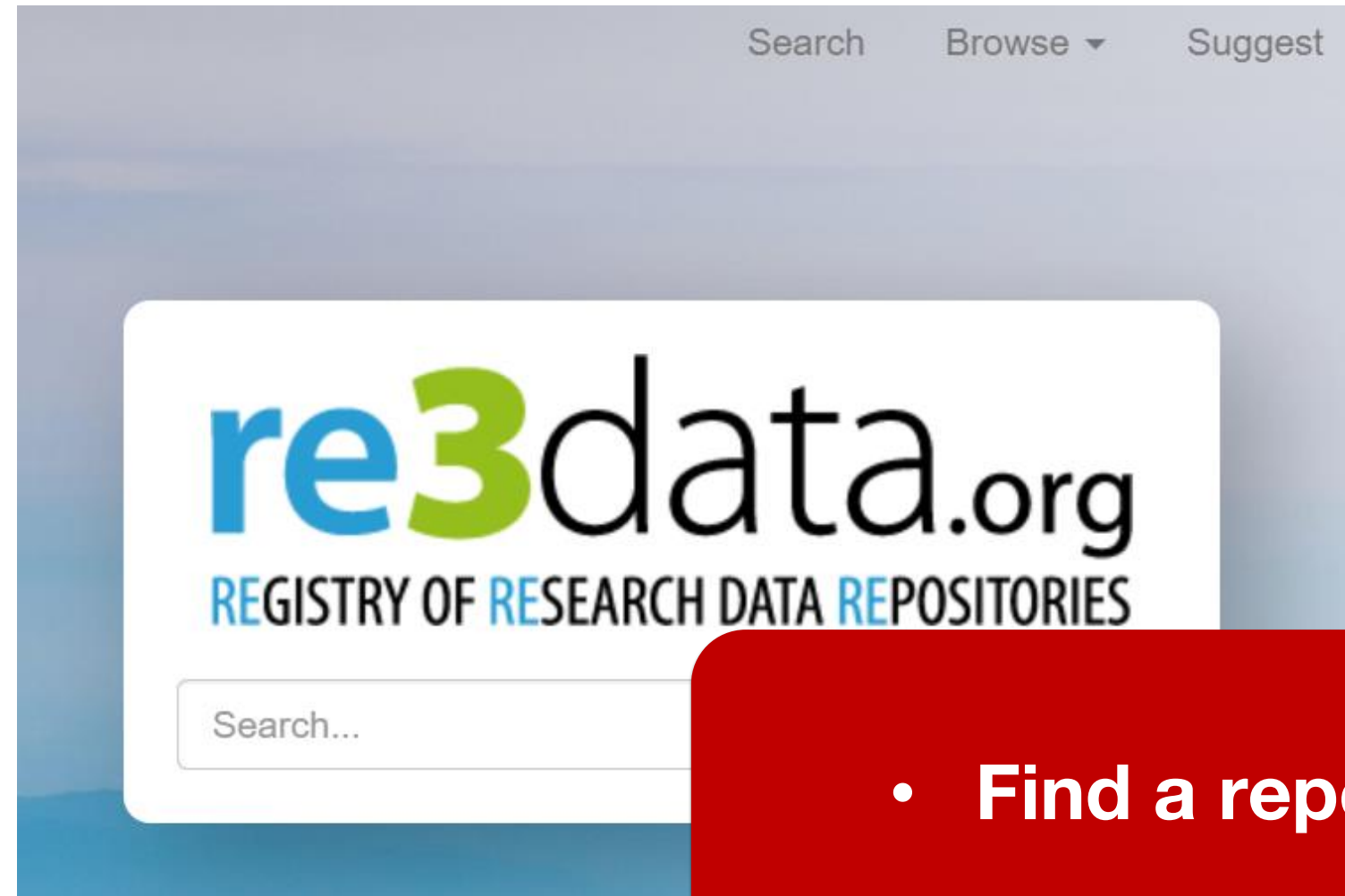
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icket
db

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

<https://explore.openaire.eu/>



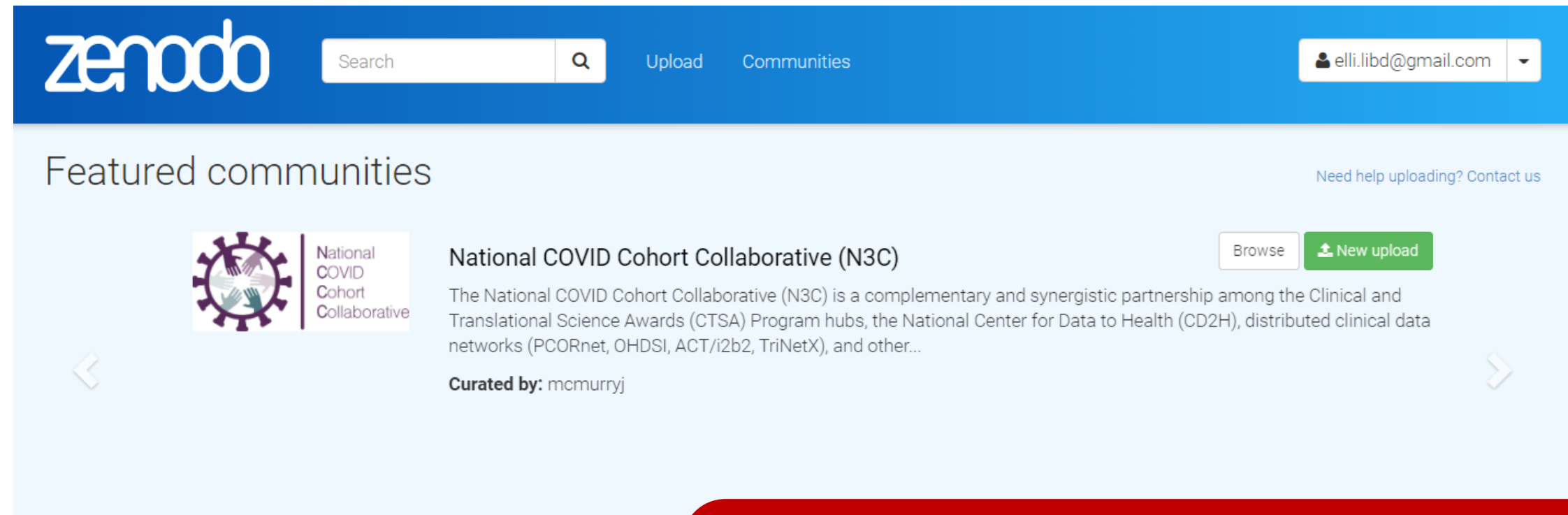
Tool for finding data repositories



- Find a repository for your data

<https://www.re3data.org/>


Tool for archiving data & software



zenodo Search Upload Communities elli.libd@gmail.com

Featured communities

Need help uploading? Contact us



National COVID Cohort Collaborative

National COVID Cohort Collaborative (N3C)

The National COVID Cohort Collaborative (N3C) is a complementary and synergistic partnership among the Clinical and Translational Science Awards (CTSA) Program hubs, the National Center for Data to Health (CD2H), distributed clinical data networks (PCORnet, OHDSI, ACT/i2b2, TriNetX), and other...

Curated by: mcmurryj

Browse New upload

Recent uploads

December 10, 2020 (v3) Dataset Open Access

Characteristics of human and viral RNA binding sites and sites of SRSF1 and RNPS1

Rogan, PK; Mucaki, EJ; Shirley, BC

This dataset was developed for the following article: Rogan PK, Mucaki EJ and Shirley BC. A proposed molecular mechanism for pathogenesis of severe RNA-viral pulmonary infections [version 1; peer review: awaiting peer review]. F1000Research 2020, 9:943...

Uploaded on December 10, 2020
2 more version(s) exist for this record

- Create / Find a community

- Deposit in Zenodo

<https://zenodo.org/>



Tools to decide which license to choose



SELECT YOUR LICENSE
Follow the steps to select the appropriate license for your work.

1 Do you know which license you need?

Yes. I know which license I need.

No. I need help selecting a license.

NEXT STEP

2 Attribution

3 Commercial Use

4 Derivative Works

5 Sharing Requirements

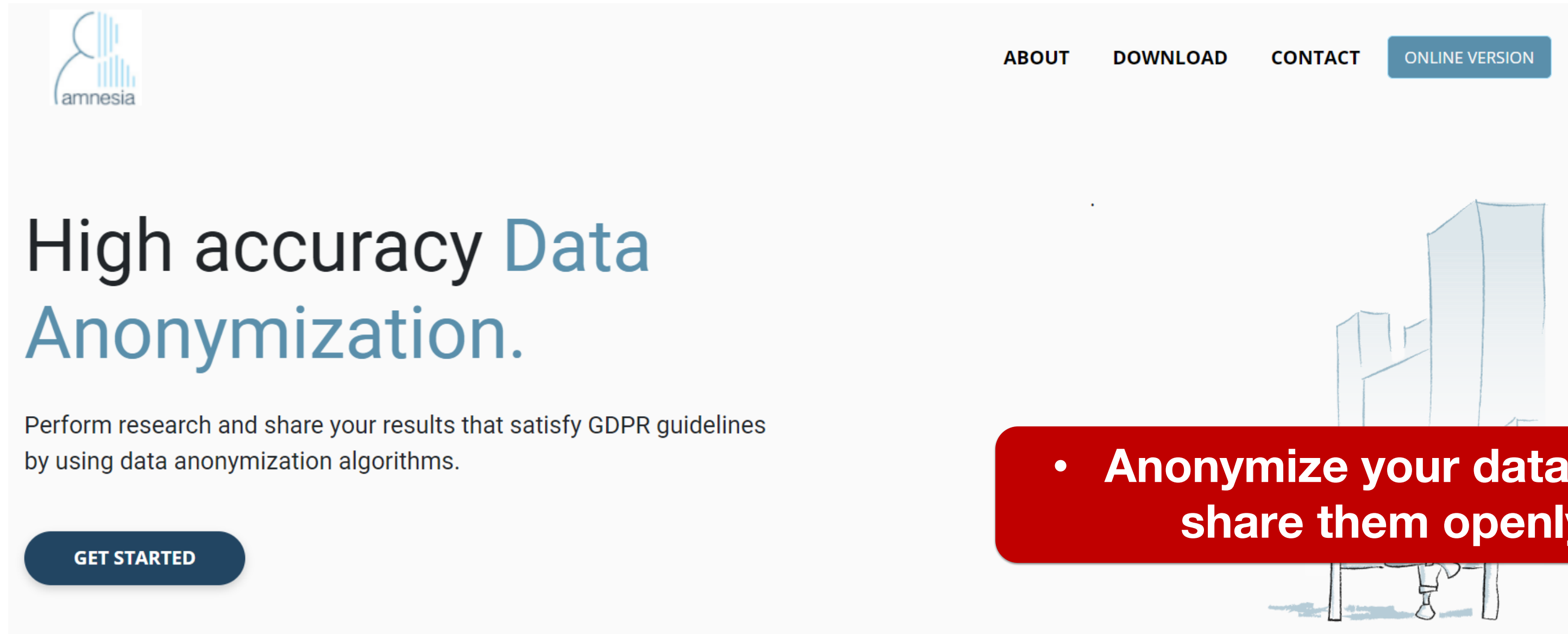
6 Attribution Details

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



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

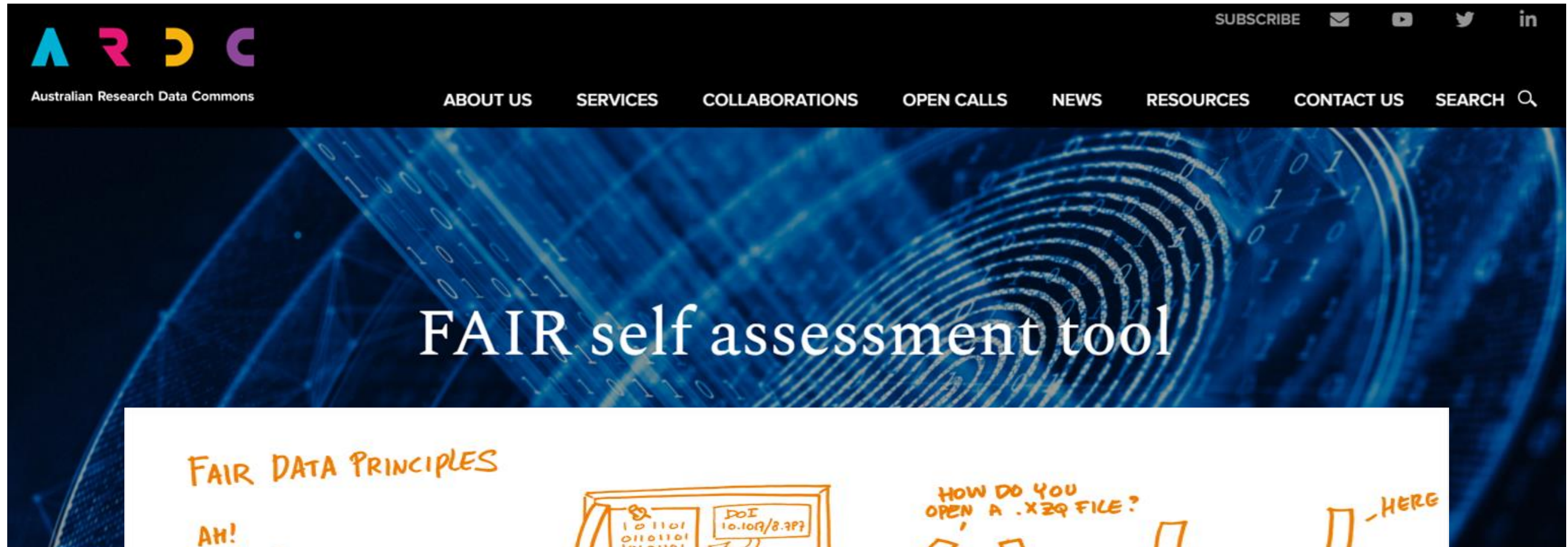
Amnesia tool for anonymization



The screenshot shows the Amnesia website homepage. At the top left is the Amnesia logo, which consists of a stylized person icon with vertical bars of varying heights inside the head, and the word 'amnesia' below it. To the right of the logo are navigation links: 'ABOUT', 'DOWNLOAD', 'CONTACT', and 'ONLINE VERSION' (which is highlighted in a blue button). The main heading reads 'High accuracy Data Anonymization.' with 'Data' in a larger, blue font. Below this is a sub-heading: 'Perform research and share your results that satisfy GDPR guidelines by using data anonymization algorithms.' At the bottom left of the main content area is a dark blue button with the text 'GET STARTED'. On the right side of the page, there is a light blue illustration of a person sitting at a desk with a computer monitor. A red callout box with white text is overlaid on this illustration, containing a bullet point: '• Anonymize your data and share them openly'.

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

<https://amnesia.openaire.eu/>



- 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

Publications Office of the EU

Home > Publication detail > EOSC Authentication and Authorization Inf...

+ Add to my publications Create alert Permanent link Metadata RDF Embed in website

★★★★☆ Rate this publication



EOSC Authentication and Authorization Infrastructure (AAI)

Report from the EOSC Executive Board Working Group (WG) Architecture AAI Task Force (TF)

The EOSC Architecture Working Group has assigned the AAI TF to establish a common global ecosystem for identity and access to the European Open Science Cloud (EOSC). Since the EOSC is part of research and education, the principles established by the EOSC

EU publications

View more

Download and languages

• Integrate with AAI

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

Interoperability - metadata

OpenAIRE Guidelines

Search docs

CURRENT GUIDELINES

- OpenAIRE Guidelines for Literature Repositories
- OpenAIRE Guidelines for Data Archives
- OpenAIRE Guidelines for CRIS Managers
- Draft OpenAIRE Guidelines for Software Repository Managers
- Draft OpenAIRE Guidelines for Other Research Products

HOW TO CONTRIBUTE

- Contributing

APPENDIX

- How the Horizon 2020 Open Access requirements are met

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, software repositories and other research products repositories.

Current Guidelines

- [OpenAIRE Guidelines for Literature Repositories](#)
- [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/>

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Compliance

The Validator service includes two main steps to perform the aggregation and indexing of your datasource in OpenAIRE:



1st: Validate your datasource

Test the compatibility of your repository/journal or aggregator to the OpenAIRE guidelines. If validation succeeds the data source can be registered for regular aggregation and indexing in OpenAIRE.

2nd: Register your datasource

Register your library, journal or aggregator.

Once registered, you will be able to use the Validator service to test their data source compatibility with the OpenAIRE Guidelines, to get notification to enrich their research results with additional or missing metadata, and to track the data source usage activity.

- **Certify metadata**

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Thank you!

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