



write and publish DMPs.
design machine-actionable templates.
create dataset profiles. connect workflows.













Rewind

- Open Source
 - -> OpenDMP software

https://gitlab.eudat.eu/dmp/OpenAIRE-EUDAT-DMP-service

Templating system

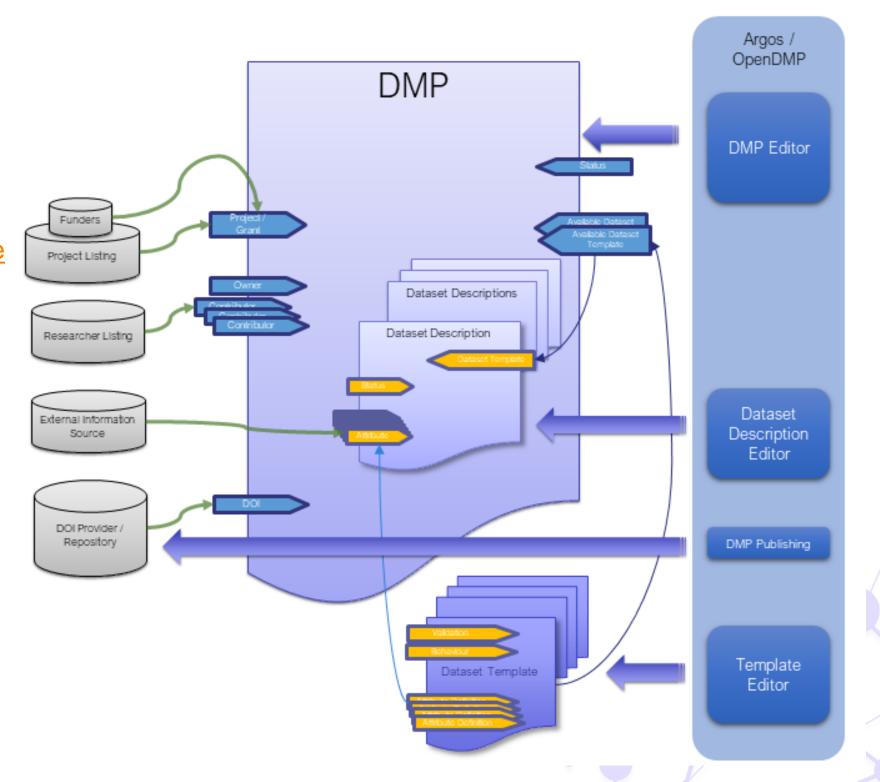
- Dynamic vs static parts
- Access points (APIs)
- Import / Export
- RDA standard



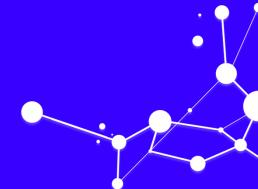








Argos because...



ARGOS – not just a tool!

- Full DMP Lifecycle
 - generate & publish DMPs according to Open and FAIR principles
- Machine actionable DMP (ma-DMP) outputs
- Data Domain Protocols & dataset profiles
 - implement DDPs; create many dataset profiles in a single DMP
 - -> e.g. new vs re-used vs sensitive vs discipline specific
- Contextualized and exploitable DMP data
 - connect with and enhance reference services and data sources (OpenAIRE, EOSC, etc).
- Standardization of global practices and collaborations
 - -> e.g. DMPs exposed in repositories with appropriate resource_type; connecting with data availability statements









Write & publish

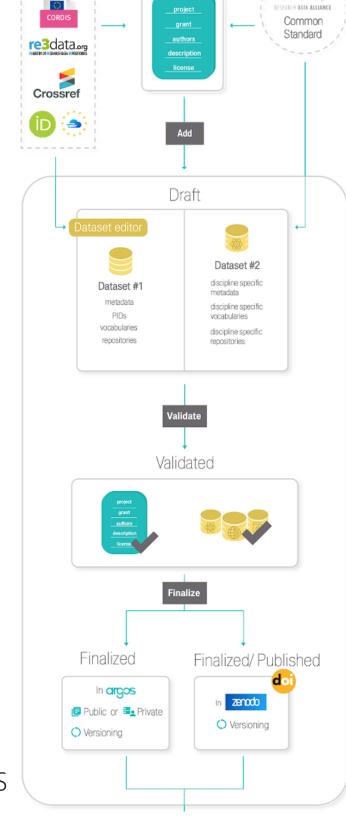
- Full DMP publication
- Two editors to create DMPs
 - Full DMP editor
 - Dataset wizard
- First validation
- Finalization
- ma-DMP outputs









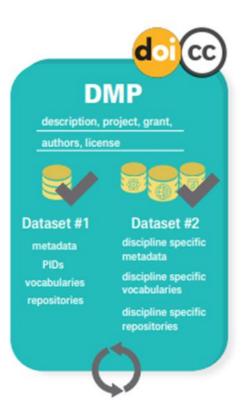


Draft

DMP edito

OpenAIRE APIS

DataCite DataCite



- Rich documents
- Discoverable through OpenAIRE
- Versioned (provenance)
- Accessible: PIDs (ORCIDs & DOIs)
- Reusable: Licenses
- Preserved in Zenodo

Create dataset profiles



- Different data questions
- Configurable APIs
- Tailored instructions





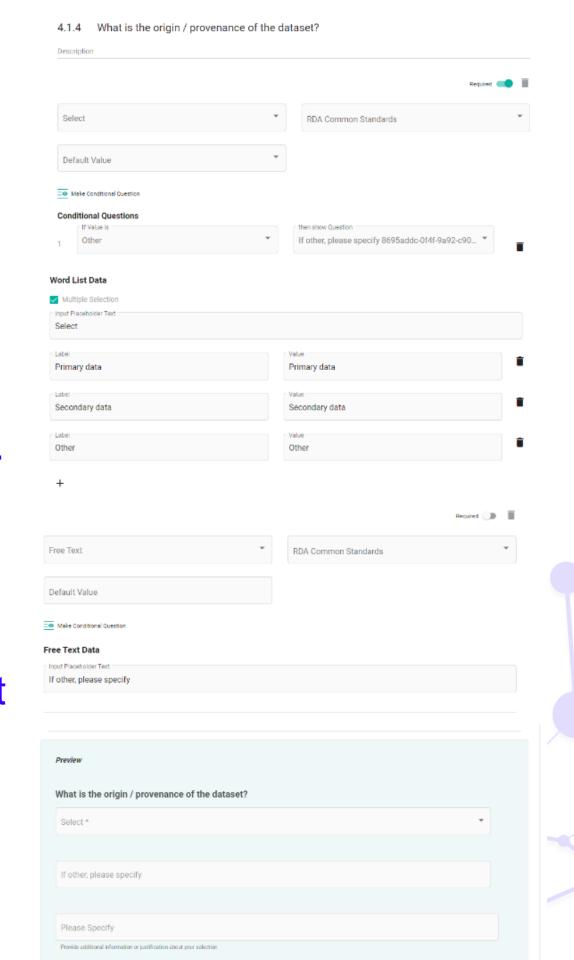


Design machine-actionable templates

- Many inputs to create a question
- Long list of input types
 - Boolean, Multiple choice, Free text, custom APIs...
- Collection of static APIs
- Conditional questions
- Multiplicity
 - x the question can be answered with different input
- RDA compatibility







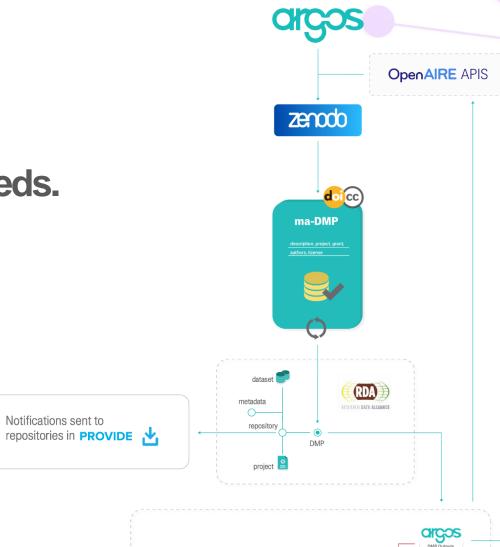
Connect workflows & benefit from OpenAIRE pool of data

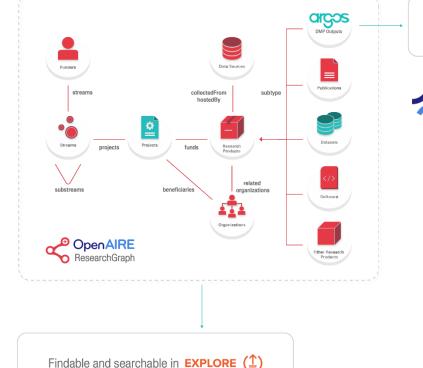
- Create subsets of Argos in OpenAIRE that meet your needs.
 - Exploit OpenAIRE and EOSC APIs in templates.
- Publish in Zenodo.
 - Or integrate with own repositories
- Notify repository managers for new datasets.
 - Integrations to enable pre-filling of DMP templates for re-used data
- Exploit DMP entities in the Research Graph.
 - Create links between outputs and entities.
 - Now: DMPs, data and projects.
- Combine with validated OpenAIRE data and provide statistics.
 - Define indicators.
 - Add to dashboards.
- Add DMPs under the project's page.





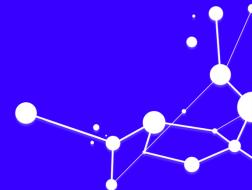






Input for **MONITOR**

Argos for...



Researchers

- Webinars on RDM
- RDM resources
- Walkthrough Argos
- Consultations and DMP reviews with project coordinators
- Argos as the DMP service in new project proposals







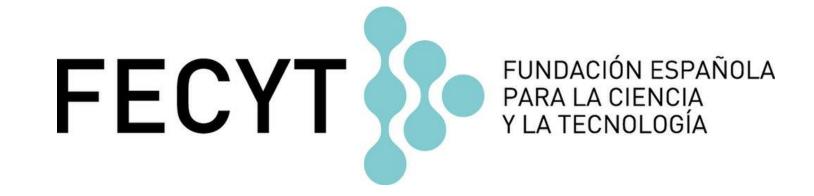






Funders

- Argos configurations
 - Machine actionable template,
 create APIs, etc
- Policy support
 - RDM: Argos for DMPs
- Review DMP templates for validation
- Training
- Funder Monitoring Dashboard links
 - Monitoring DMPs evaluation, indicators



















Research institutions & communities

- Policy support
- Create ma-DMPs
- Guides enhanced with OpenAIRE RDM resources
- Argos configurations
 - Machine actionable template, APIs, etc
 - FAIR principles and global standards

Example in archaeology:



https://www.openaire.eu/blogs/dmps-for-research-communities-argos-for-ariadneplus







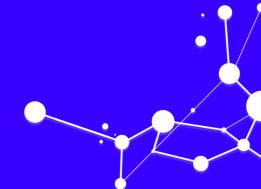


Argos Admin Walkthrough

https://test2.opendmp.eu/home



News & Latest Developments



Big News!

- Argos supported by:
 - European Commission
 - European Research Council
 - Science Europe



Information for ERC grantees

by the ERC Scientific Council

Open Research Data and Data Management Plans

European Research Council

Scientific Council

Established by the European Commission



erc

Europe guidance as part of their service offer:

- Argos
- DMP online
- DMP Opidor
- DS Wizard
- EasyDMP
- FAIRaware: includes additional guidance for the Evaluation rubric for DMPs that further aids reviewers in their assessment of DMPs.

Several online tools have been created to support researchers creating

their own DMPs or checking the level of FAIRness of their DMPs. A

number of these have integrated a template based on the Science

https://scienceeurope.org/ourpriorities/research-data/research-datamanagement/

New tech team members

Version 4.0 11 August 2021









https://erc.europa.eu/sites/default/files/document/file/ERC_info_do cument-Open_Research_Data_and_Data_Management_Plans.pdf



Additional external tools

ABOUT

Ongoing

OPEN SCIENCE FAIR

- Collaboration with AGU / Wiley
 - Create links between / Standardize dataset descriptions of different publishing streams

WHAT IF ALL THE AUTHOR NEEDED TO CITE WAS A DMP? TOWARDS A MACHINE-ACTIONABLE VISION FOR DMPS AND DAS

ORGANISED BY OPENAIRE++

https://www.opensciencefair.eu/2021/workshops/what-if-all-the-author-needed-to-cite-was-a-dmp-towards-a-machine-actionable-vision-for-dmps-and-das

 Collaboration with research communities on Domain Data Protocols (DDPs)

Underwater, Space, Hydrology etc

Collaboration with EPFL

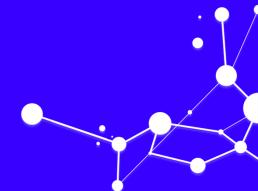






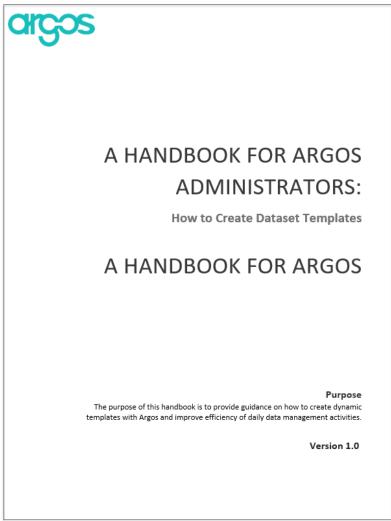


Toolkit



Supporting material

- User Guides
 - For researchers, For Admins











- Promotional kit
- Logo, MOO Card, Factsheet



Areas to explore together



National / institutional level

- Deploy Argos and connect DMPs to own services and local data workflows
 - Full: OpenDMP software installation with Argos tech team consultation
 - Minimum: Argos ma-DMP template (linked to MONITOR)
- Create a machine-actionable instance of your national / institutional DMP template
 - Working meetings with Argos team
- Get analytics and create statistics for your Argos DMPs
 - Define indicators (in collaboration with MONITOR team)









Domain & RDM level

- Connect Argos with research communities to implement Data Domain Protocols
 - Working meetings with Argos team

- Connect with work happening at the RDM WG
 - Add more instructions in Argos questions
 - Co-create / review produced templates, e.g. Horizon Europe
 - Add produced material in Argos as instructions

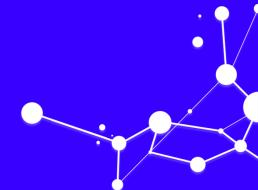








Discussion



Time to unmute!

- Do you know how to use / Have you used Argos?
- Have you promoted Argos? How?
- Have you heard of any feedback for Argos that you could share with us?

- Technical: What would you like to change or be added?
- Communication: What would you like to change?
- Material: What do you need?









What do you think when you hear about Argos?

Your honest opinion

Challenges. Limitations. Opportunities

Argos demo in OSFAIR

OPEN SCIENCE FAIR

Home



SEPT 21, 12.30 CEST SEPT 22, 18.00 CEST



ADMINISTRATORS, OPEN SCIENCE INFRASTRUCTURE PROVIDERS, FUNDERS



POLICY MAKERS AND FUNDERS
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Planning Research Data Management (RDM) activities is crucial as it effectively lays the foundations for successful research conduct according to RTD best practices and requirements as well as it leads to validated and quality research outcomes at the end of the scientific project / endeavour. Data Management Plans (DMPs) implement RDM policies and describe the activities, means and effort needed to manage data generated, collected and / or re-used by researchers. Moreover, they are seen as outputs that address data reproducibility issues, continuously updated with new data as "living documents" of ongoing research. Hence, DMPs have rapidly entered Research Data Management Lifecycles (RDML), included at the beginning of the research process, and have been standardized in structure and content to be easily adoptable by funders, institutions













Elli Papadopoulou | Georgios Kakaletris elli.p@athenarc.gr | gkakas@athenarc.gr





