



Eli Papadopoulou
ATHENA Research Center

argos

Plan and follow your data

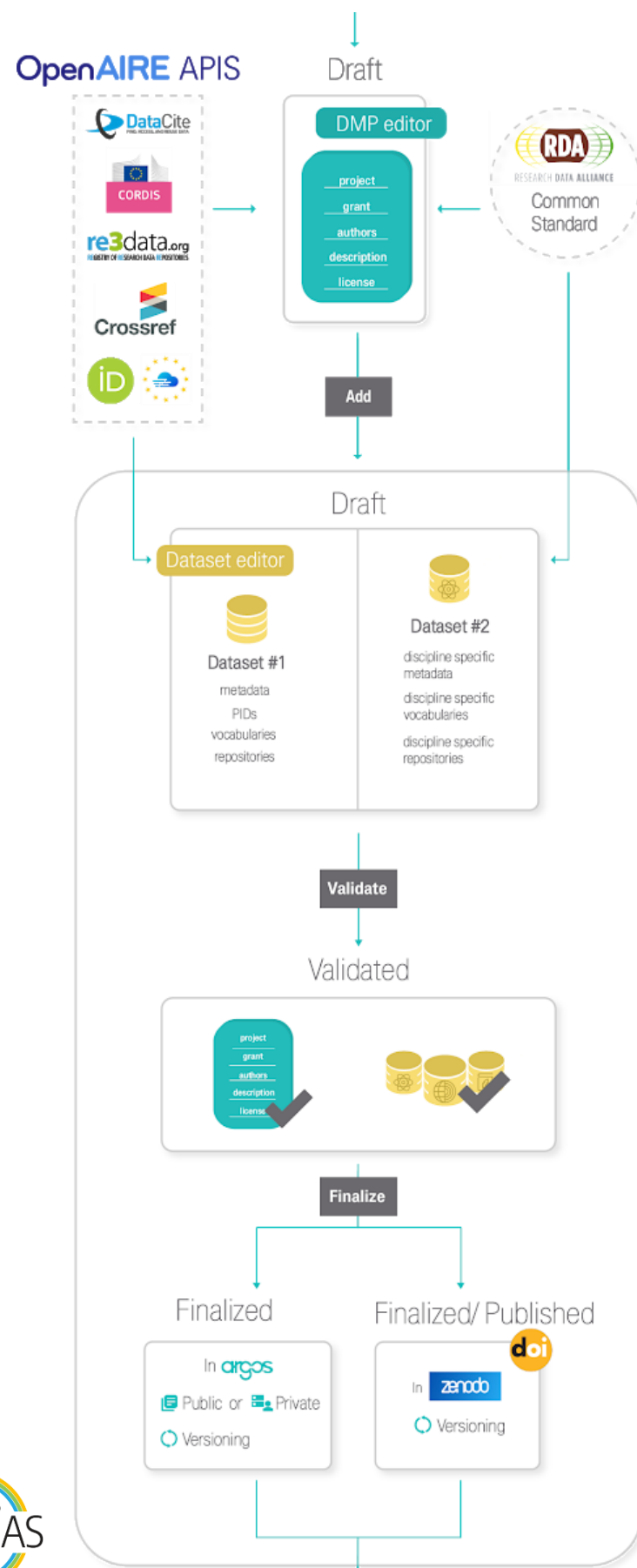
Overview of ARGOS

- ARGOS is an **open source, configurable and extensible** tool for **planning Research Data Management (RDM) activities** according to **Open Access & FAIR data policies**.
- **Website:** <https://argos.openaire.eu/>
~1500 users (growing)

- ✓ Online or ad-hoc installation
- ✓ Free to use for researchers
- ✓ Available in EOSC

Argos Lifecycle

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



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

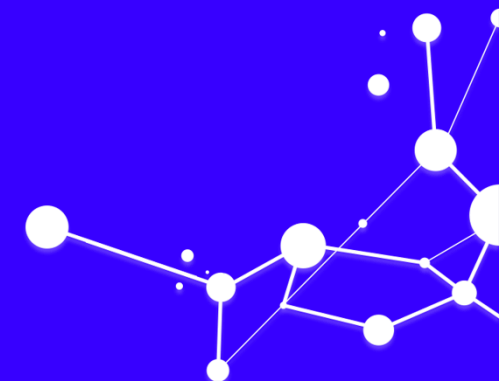
Why to use ARGOS

- Full DMP generation & publication process according to Open and FAIR principles.
- Machine actionable DMP (ma-DMP) outputs
- Addresses RDM challenges through normalization of descriptions of data:
 - Interdisciplinary & multi-disciplinary DMPs support
 - Wizard-based DMP authoring: multiple datasets may be contained in a single Plan
 - > produced vs re-used vs sensitive vs discipline specific.
- Standardization of practices and collaborations
 - > e.g. DMPs exposed in repositories with appropriate resource_type
- Interlinked and connected with reference services and data sources (OpenAIRE, EOSC, etc).
 - > create links between data, publications, etc

Main users: researchers / research projects, funders, research communities and institutions



Argos for...



Funders and institutions

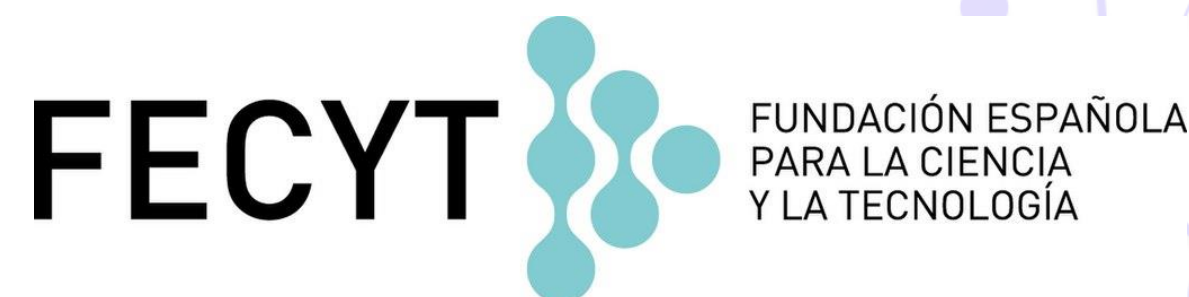


Online or Add-hoc

- **Deploy own instance** (e.g, fct.argos.openaire.eu)
- **Enrich** the templates collection
- **Translate** the tool in native language
- **Customize** Open and FAIR guides
- **Integrate** own services (e.g. researchers' registry)
- **Configure** own APIs
- **Link** with national Open Science graphs
- **Link** with [Funder Monitoring Dashboard](#)



chist-era



CHIST-ERA example

The screenshot shows the 'Editing DMP' interface. On the left, a 'Guide steps' sidebar lists: 1. Main info (1), 2. Funding info (2), 3. License info, and 4. Dataset info (1). The main content area is titled '4.1 Dataset info*' and contains the instruction 'Select a template to describe your datasets.' Below this is a search input field with a dropdown menu showing several template options: 'Academy Of Finland', 'ARIADNEPlus Horizon2020', 'CHIST-ERA', 'Clarín-D', 'Dataset Name - Aristotelis temp', 'Dataset Name - Aristotelis temp - dacr', and 'External Sources Test'. A modal window titled 'Template - CHIST-ERA' is open, displaying the following sections:

- 2.1.2 Indicate which metadata standards will be used**
Use Community Metadata Standards Where These Are In Place.
List of values provided by external source(s):
Couldn't find it? Insert it manually
- 2.1.3 Indicate how the data will be organised during the project**
Naming Conventions Should Be Clearly Described In Order To Make Data Understandable By Other Researchers That May Reuse Them After The Project Ends. Mentioning For Example Conventions, Version Control, And Folder Structures. Consistent, Well-Ordered Research Data Will Be Easier To Find, Understand, And Re-Use.
Check Out Some Examples Of File Naming Best Practices: <http://Tiny.cc/Op8lcz>
- 2.1.4 Consider what other documentation is needed to enable re-use**
This May Include Information On The Methodology Used To Collect The Data, Analytical And Procedural Information, Definitions Of Variables, Units Of

At the bottom of the modal is a 'Select' button. The background interface also shows 'Previous' and 'Save & Add Dataset' buttons, and a '0 of 3' indicator at the bottom left.

- Policy support
 - RDM: Argos for DMPs
- Training
- Funder Monitoring Dashboard
- Minimal configuration of Argos
 - Online: CHIST-ERA template
 - Pilot on monitoring DMPs - indicators



Research institutions & communities

Implement Domain Data Protocols

- **Enrich** the templates collection and **support** the creation of data profiles
- **Customize** Open and FAIR guides for your discipline / RDM policy
- **Configure** own APIs
- **Integrate** own services
- **Link** with Research Community Dashboards



Example in archaeology:



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

ARIADNE Plus - Areas of work

Landscape

a. DMP tools capabilities

b. existing DMP templates for archaeology

- commonalities and differences (scope, target audience, organization)
 - technical information (software, model)
- FAIR principles and global standards

Templates

a. Guidance (navigation, literacy)

- OpenAIRE Task Forces outputs

b. ARIADNEPlus H2020 template

- Template available from Argos (APIs, RDA)

Global standards

a. Compliance with RDA through Argos template

b. Import mechanism of ARIADNEPlus

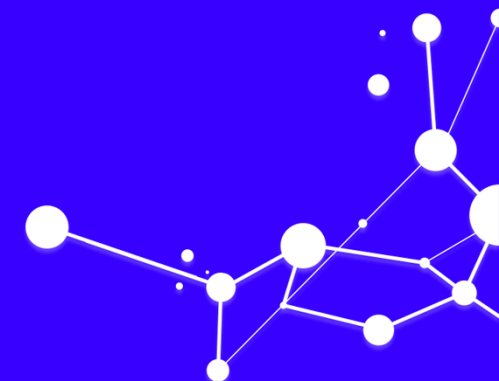
Researchers



Get started with planning RDM activities

- Easy completion and familiarize with the DMP process
- Guide in Open and FAIR RDM
- Mix and match templates according to funders', institutions' or research community requirements and needs
- Share DMPs with colleagues to manage workload
- Publish DMPs directly in Zenodo and get a DOI
- Find DMPs in EXPLORE
- Create new DMP versions to continue work on major advancements and keep track throughout time

How to use Argos



How to use Argos

The screenshot displays the Argos web application interface. At the top left, there is a navigation bar with a 'Back' button and the Argos logo. On the right side of the top bar, there are buttons for 'Start new DMP' and 'FAQ', and a language selection dropdown menu currently set to 'EN'. The left sidebar contains navigation options: Home, My DMPs, My Datasets, Public DMPs, Public Dataset Desc., DMP Templates, and Dataset Templates. The main content area features a modal window with the text: 'A DMP in Argos consists of key information about research, such as purpose, objectives and researchers involved, but also about documentation of research datasets, namely **Datasets**, that highlight the steps followed and the means used across data management activities.' Below this text is a yellow 'Add Dataset' button and a cartoon illustration of a person with blonde hair sitting at a laptop. To the right of the modal is a 'Personal Usage' statistics panel showing: 50 DMPs, 38 Datasets, 35 Grants, and 0 Related Organisations. Below the modal is a 'Latest Activity' section with tabs for 'All (5)', 'Drafts (5)', 'DMPs (5)', and 'Datasets (5)'. At the bottom of the main content area, there is a form with a 'Please specify' input field and a question: '1.3 What formats of data will the project generate/collect?'. The bottom of the page features a footer with logos for OpenAIRE | NEXUS, the European Union flag, CITE, ATHENA Research & Innovation Information Technologies, and NEANIAS.

NEW – out now!

- **Admin interface**

- Manage users.
- Create model templates.
- Configure APIs.
- Control RDA compliance.

New Dataset Template

✓ General Info 2 Dataset Template Pages & Content 3 Preview & Finalize

Guide steps

1. Main info Page ID: e364feff-dj

+ Create new subpage

+ Create new page

1.1 Untitled field Field ID: c034f

Input ID: c034ff8f-6e9a-9647-a3f7-902ae2a75d2b

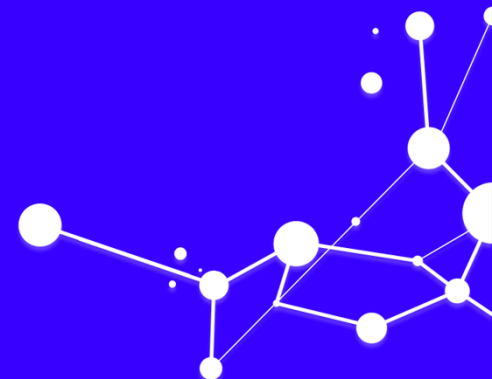
Boolean Decision RDA Common Standards

Preview

Yes No

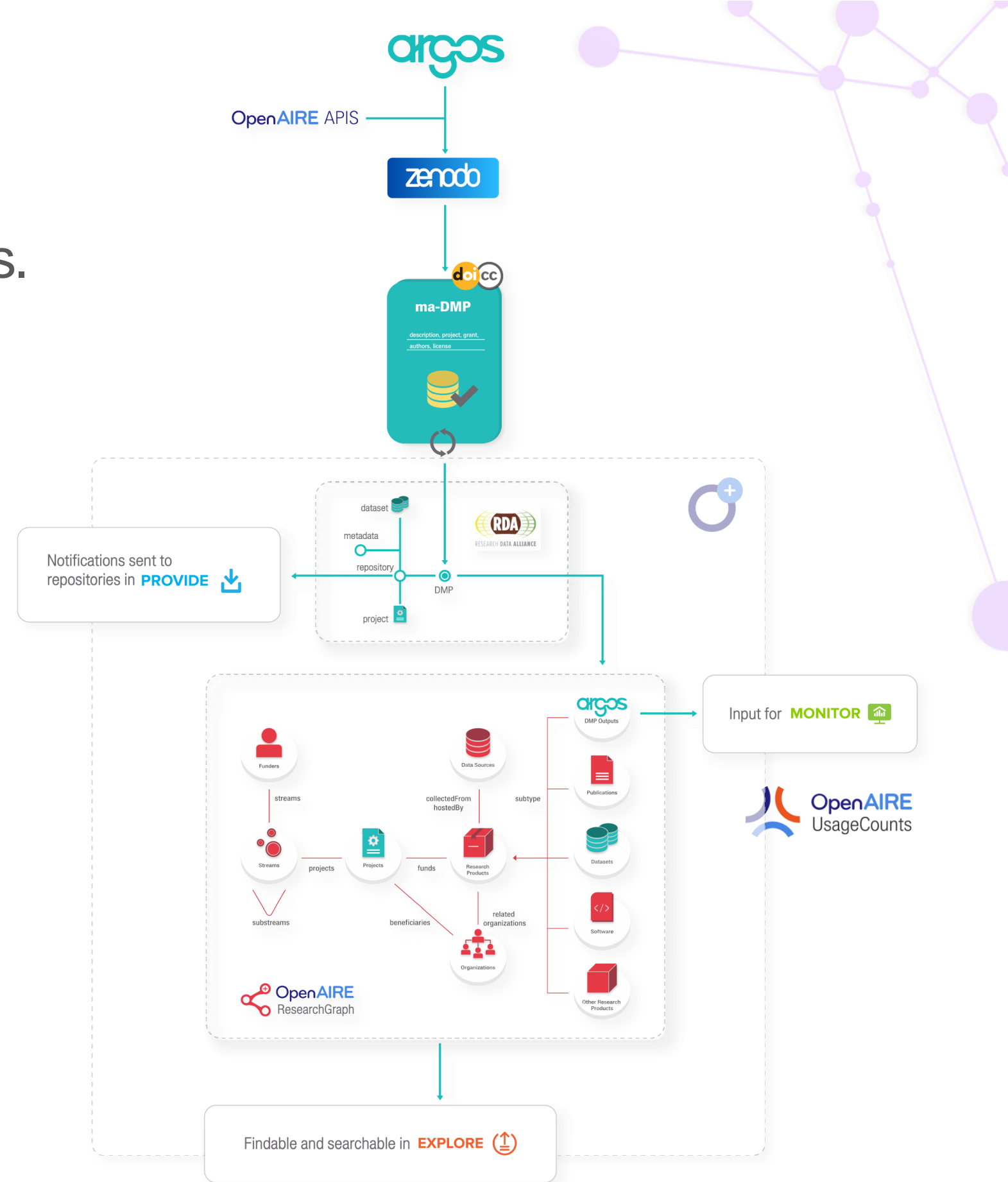
- Text Area
- Free Text
- Boolean Decision
- Radio Box
- Select
- Checkbox
- Date Picker
- Currency
- APIs
 - Registries
 - Services
 - Researchers
 - Organizations
 - External Datasets
 - Data Repositories
 - Other
- Argos Entities
 - Internal DMPs
 - Tags
 - Dataset Identifier
 - Validator

Positioning in EOSC & OpenAIRE Ecosystem

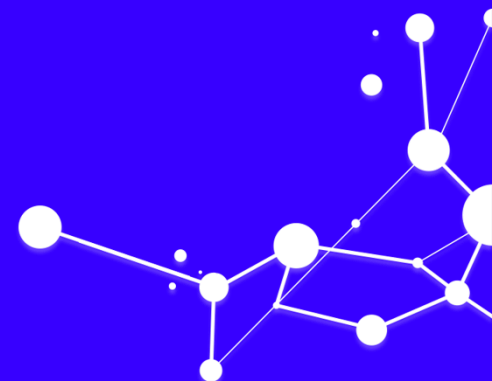


ARGOS interlinked

- Exploit OpenAIRE and EOSC APIs in templates.
- Publish in Zenodo.
- Notify repository managers for new datasets.
- Provide statistics.
 - Define indicators.
 - Add to dashboards.
- Create links between outputs and entities.
 - Data and projects.
- Add DMPs under the project's page.
- Exploit DMP entities as datasets.



Ideas for collaboration

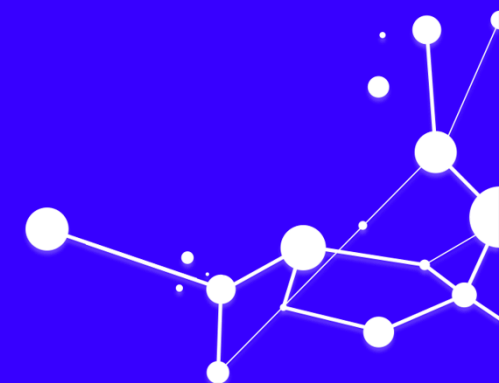


Areas to explore together

- **Localization in French language**
- **Machine actionable templates of French institutes**
- **HAL integration**
- **Research community Domain Data Protocols**
- **Data availability statements with AGU/Wiley**

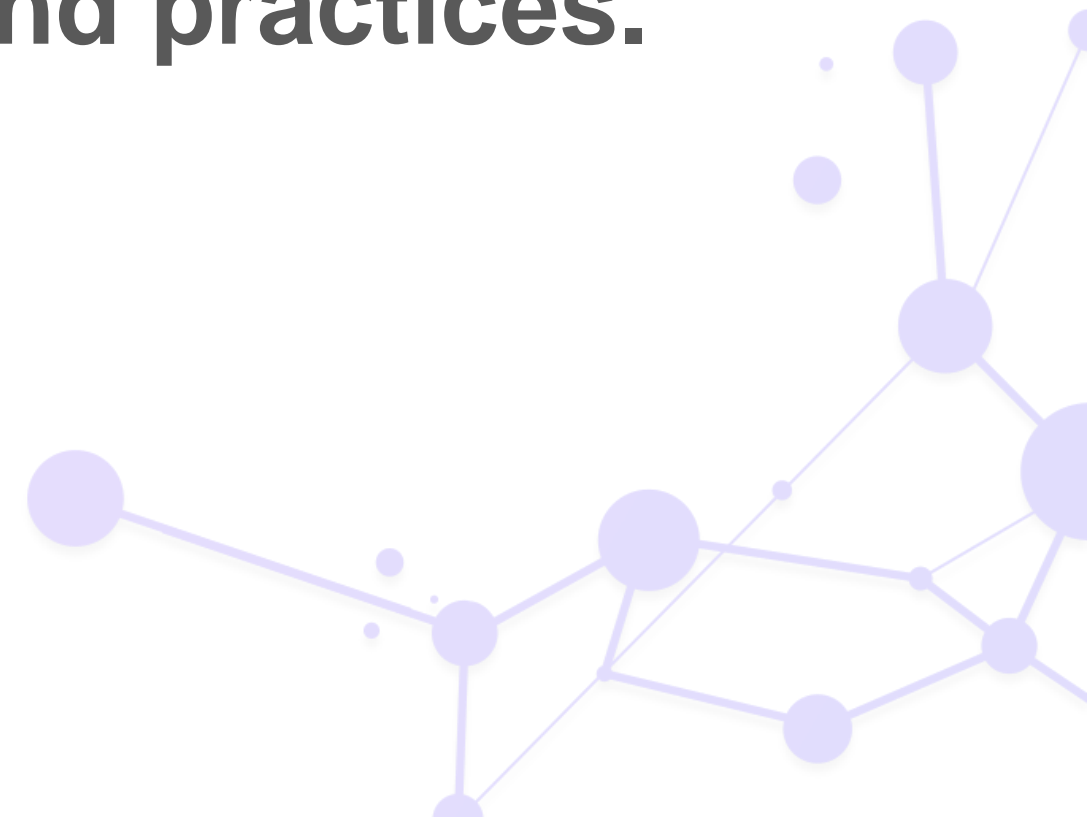
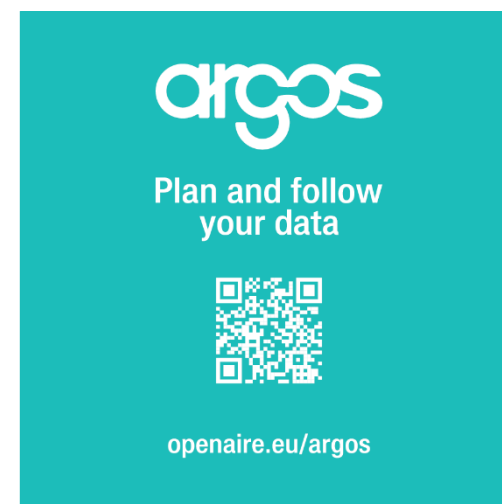
THIS SEPTEMBER
Look out for specialized
workshops!

Take away



Take away

- ARGOS **prepares** all stakeholders for the next Horizon Europe DMPs requirements.
- ARGOS **simplifies** administrative processes and **connects** with University / Institutional workflows.
- ARGOS **enables** research communities to create templates tailored to domain standards and practices.





@openaire_eu
#OpenAIRE-Nexus

THANK YOU

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

