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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**

OpenAIRE | NEXUS

CITE

ATHENA'
Research & Innovation
Information Technologies

NEANIAS

Argos Lifecycle

- **Full DMP publication**
- **Two editors to create DMPs**
  - Full DMP editor
  - Dataset wizard
- **First validation**
- **Finalization**
- **ma-DMP outputs**
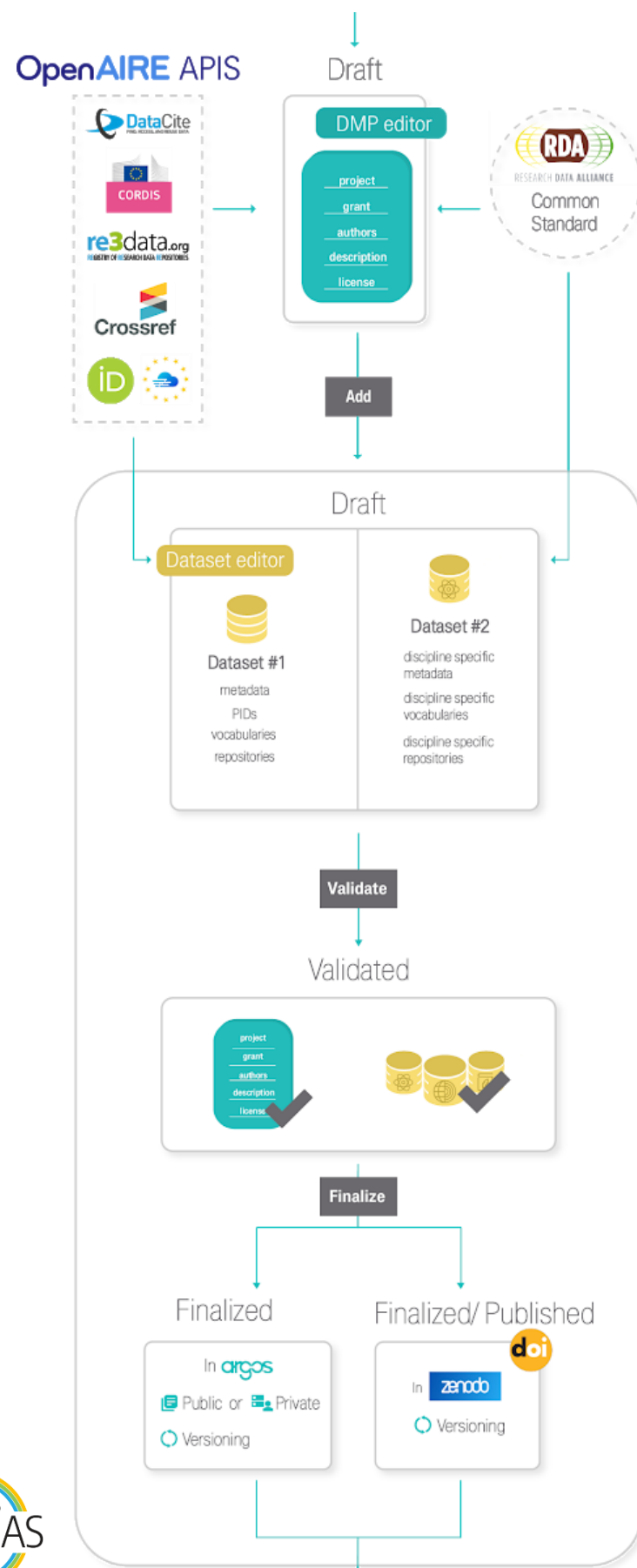
- Rich documents
- Discoverable through OpenAIRE
- Versioned (provenance)
- Accessible: PIDs (ORCIDs & DOIs)
- Reusable: Licenses & formats
- Preserved in Zenodo

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
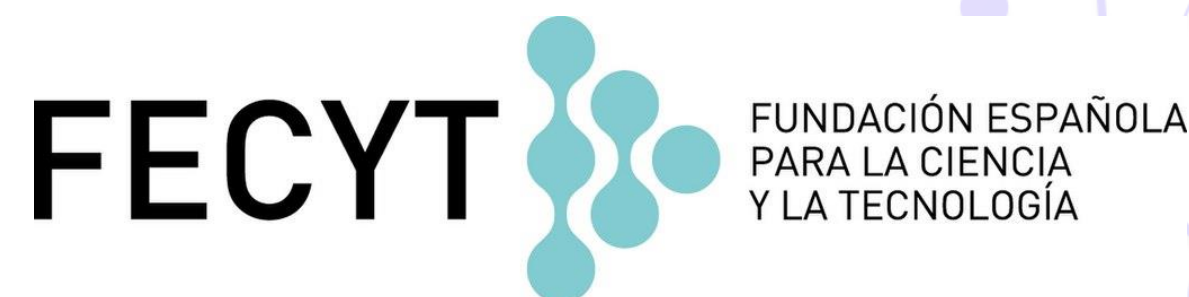
Argos for...
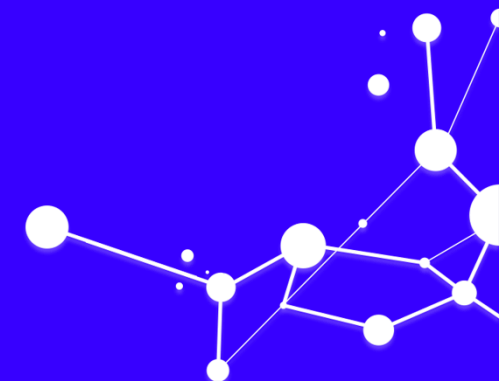
Funders and institutions

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 example

- **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

NEW – out now!

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

Positioning in EOSC & OpenAIRE Ecosystem
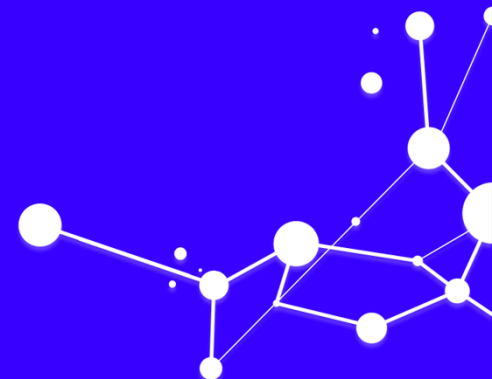
ARGOS interlinked

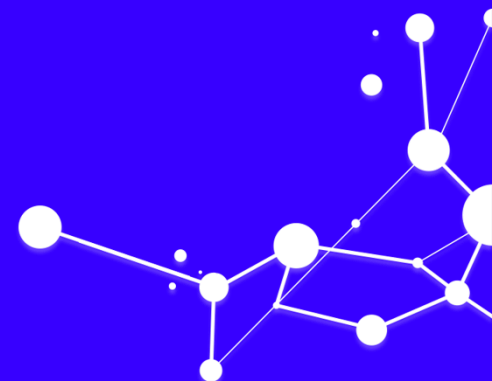o Exploit OpenAIRE and EOSC APIs in templates.

o Publish in Zenodo.

o Notify repository managers for new datasets.

o Provide statistics.

    o Define indicators.

    o Add to dashboards.

o Create links between outputs and entities.

    o Data and projects.

o Add DMPs under the project's page.

o Exploit DMP entities as datasets.
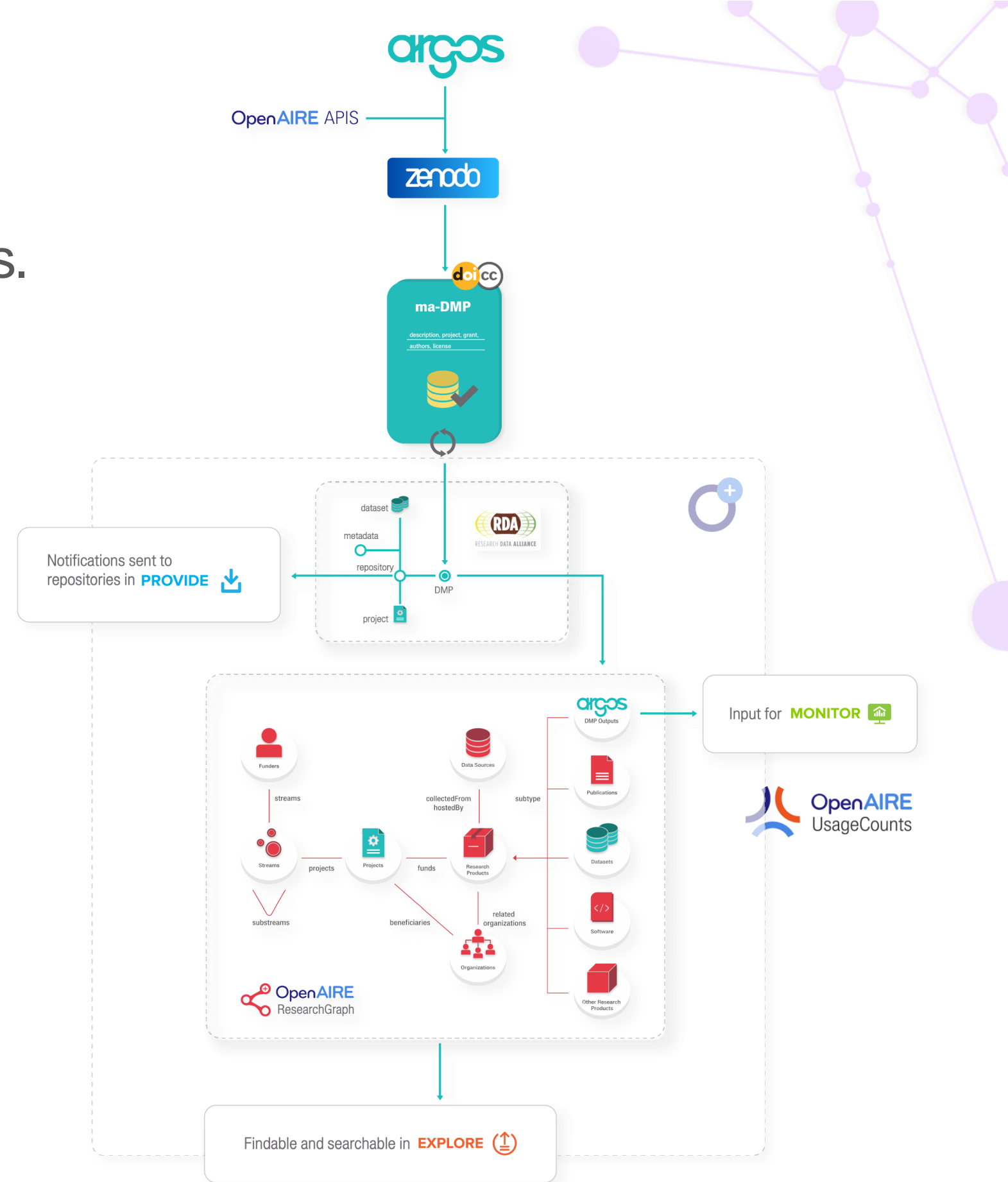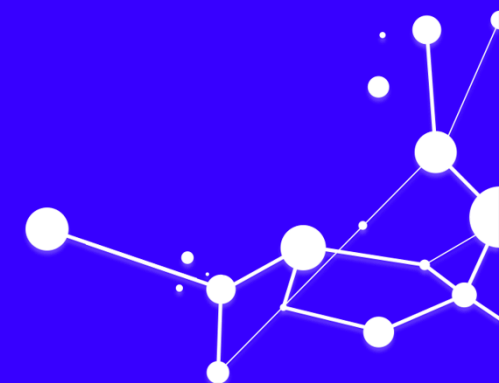
Ideas for collaboration

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.

argos

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openaire.eu/argos
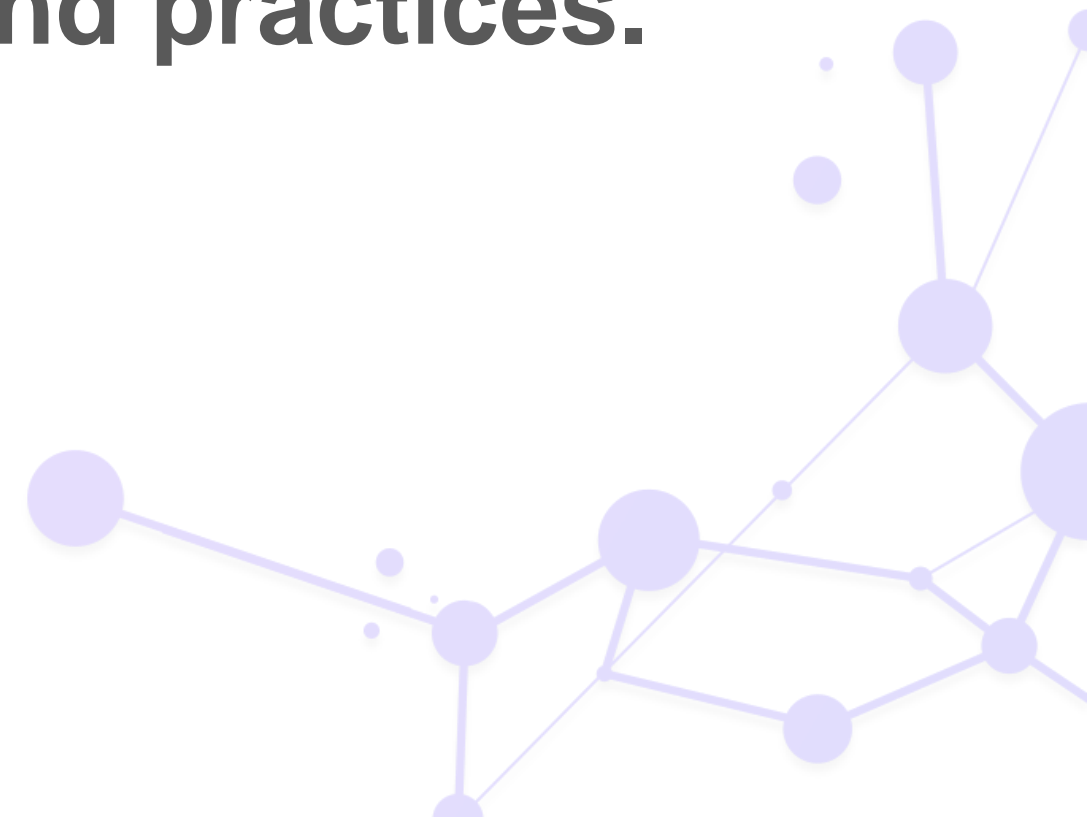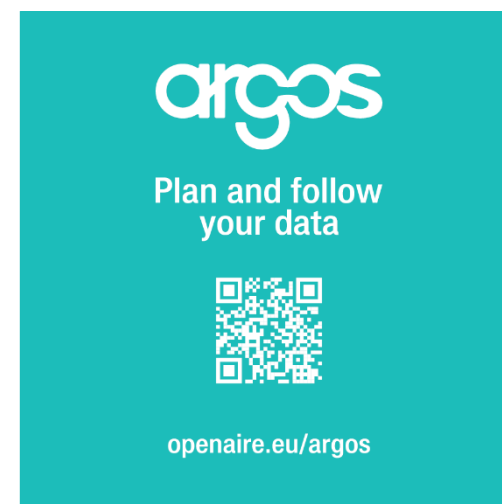
THANK YOU

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OpenAIRE