



Data Management Plan 4

Deliverable 1.6

WP1: Project Management

Authors: Eleni Toli, Panagiota Koltsida, Ebun Akinsete (ATHENA RC), Phoebe Koundouri (AUEB)

Date: 30/09/2025



This project has received funding from the European Union's Horizon H2020 innovation action programme under grant agreement 101037424.

Deliverable Number and Name	D1.6 – Data Management Plan_4
Work Package	WP1 – Project Management
Dissemination Level	Public
Author(s)	Eleni Toli, Panagiota Koltsida, Ebun Akinsete (ATHENA RC), Phoebe Koundouri (AUEB)
Primary Contact and Email	Panagiota Koltsida (p.koltsida@athenarc.gr)
Date Due	30/09/2025
Date Submitted	30/09/2025
File Name	ARSINOE_D1.6_fv
Status	Final
Reviewed by (if applicable)	Giannis Adamos (UTH)
Suggested citation	Toli et al. (2025) Data Management Plan 4. ARSINOE Deliverable 1.6, H2020 grant no. 101037424

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This document has been prepared in the framework of the European project ARSINOE. This project has received funding from the European Union’s Horizon 2020 innovation action programme under grant agreement no. 101037424.

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EXECUTIVE SUMMARY

Deliverable D1.6 is the final version of the Data Management Plan (DMP) of the ARSINOE project. ARSINOE is an H2020 project. Within the ARSINOE ecosystem, pathways to solutions are co-created and co-designed by stakeholders. Nine (9) Case Studies demonstrated the ARSINOE three-tier approach as a proof-of-concept regarding its applicability, replicability, potential and efficacy and worked on the co-development of sustainable solutions.

The Data Management Plan is a living document and describes the lifecycle of all datasets that will be used, processed, and generated throughout the project lifetime. The first version of the DMP was released on M6, providing information on how ARSINOE is managing the data produced and collected through its lifetime, while the second and third versions of the DMP, released on M18 and M36 respectively, provided information about the additional datasets used by the Case Studies until M36. Deliverable D1.6 is the final version of the DMP and provides information on the new datasets made available through the ARSINOE Data Hub from M37 to M48 and which are part of the machine actionable DMP, available through the Argos tool. This deliverable presents the final list of the ARSINOE research datasets.

Related Deliverables:

- Deliverable 1.3 (M6): Data Management Plan 1.
- Deliverable 1.4 (M18): Data Management Plan 2.
- Deliverable 1.5 (M36): Data Management Plan 3.

Relevant EU policies:

- Guidelines on FAIR Data Management in Horizon 2020, v3.0 – 2016 [1].
- European Data Act: https://ec.europa.eu/commission/presscorner/detail/en/ip_22_1113.
- General Data Protection Regulation (GDPR) (EU) 2016/679.

LIST OF ACRONYMS

DMP	Data Management Plan
FAIR	Findable Accessible Interoperable Reusable
GA	Grant Agreement
ORDP	Open Research Data Pilot
WP	Work Package

1.0 INTRODUCTION

ARSINOE Project participates in the EU Open Research Data Pilot (ORDP) [2] and as such it undertakes all activities needed to enable open access and reuse of research data generated by the project.

Open access to research data refers to the right to access and re-use digital research data under the terms and conditions set out in the Grant Agreement. Openly accessible research data can typically be accessed, mined, exploited, reproduced, and disseminated under defined and clearly specified terms and conditions (either free of charge or at a cost for the user).

The Data Management Plan (DMP) is not a fixed document; it evolves and gains more precision and substance during the lifespan of the project. This first version of the DMP, delivered in month 6, functions as a guiding document for the proper data management during the project, whereas the DMP versions delivered towards the end of the project will also be a good preparation activity for the exploitation of ARSINOE's digital assets. The second and third versions of the DMP delivered in month 18 and 36 respectively included the datasets published from M7 until M36. This final version of the DMP concludes the series of the DMP deliverables and present the final information about the ARSINOE research datasets, uploaded or linked by each Case Study and exploited for building solutions towards the different climate hazards each area is facing and focusing on paving the way towards towards a green, digital, inclusive, resilient, and sustainable future.

2.0 DATA SUMMARY

2.1 What types and formats of data does the project generate/collect?

Due to the different objectives of the case studies and the work performed in WP3 and WP4 various formats and types of data are exploited by the project. Detailed information, for each dataset is available through the project's catalogue and the actionable DMP, in Argos. Datasets used for the implementation of the work in different WPs, but are not directly used by the Case Studies are described in the machine actionable DMP.

3.0 FAIR Data in ARSINOE

ARSINOE follows the ORDP principle: "as open as possible, as closed as necessary" and focuses on encouraging sound data management as an essential part of research best practice. Every dataset that will be generated will clearly state if it is open, restricted, or private and will define a specific license for accessing it as part of its metadata. For existing datasets, the license and accessing conditions are already defined.

The datasets produced during the project are stored to the project's Data catalogue and accompanied by a set of metadata providing information about the author, the maintainer, their format and type and their license. For each dataset, different visibility options are available.

The catalogue provides unique identifiers and offers advanced search and filtering functionality, facilitating the identification of useful datasets. Specific domain metadata that may exist, can be also stored into the catalogue as part of the dataset. The catalogue can be visited at: <https://catalogue.arsinoe-project.eu/>.

Publications and other open datasets are uploaded to Zenodo [5], a general-purpose open-access repository developed under the European OpenAIRE program and operated by CERN, which promotes Open Science and the collaboration among researchers and other communities. A dedicated Zenodo community is already created in Zenodo and serves and promotes ARSINOE's work and outputs: https://zenodo.org/communities/arsinoe_eu_project. The ARSINOE Data Hub has worked on providing an automatic mechanism for publishing original research datasets from the Hub to Zenodo if its users request that option, thus further facilitating the FAIRness of datasets.

The DMP recommends the adoption of structured solutions for the clarification of licenses of generated datasets and makes available related license clearance tools.

3.1 ARSINOE Data Catalogue

The ARSINOE Data Catalogue is a web application which allows its users with specific role to upload datasets under a specific Case Study. It is also accessible to guest users, who can search and view the available public datasets.

The catalogue can be accessed at: <https://catalogue.arsinoe-project.eu/>

All project's generated datasets will be hosted by the catalogue, facilitating the data management lifecycle as described in the first version of the DMP, the D1.3 deliverable report.


DATA CATALOGUE

[Datasets](#)
[Case Studies](#)
[Groups](#)
[Transformation Service](#)

[/ Dataset / Create Dataset](#)

What are datasets?

A Dataset is a collection of data resources (such as files), together with a description and other metadata at a fixed URL. Datasets are what users see when searching for data. Datasets can be either private and public and should always belong to a specific Case Study.

1 Create dataset
2 Add data

*** Title:**

*** URL:** catalogue.arsinoe-project.eu/dataset/<dataset> [Edit](#)

*** Description:**

You can use [Markdown formatting here](#)

*** License:**

License definitions and additional information can be found at <https://ict.nikos.eu/>

Publication Date:

*** Author:**

Author Email:

Maintainer:

Maintainer Email:

DOI:

*** Origin:**

*** Resource Type:**

*** Dataset Type:**

Tags:

*** Case Study:**

Visibility:

* Required field

[Next: Add Data](#)

Figure 1: ARSINOE Data Catalogue - Adding a new dataset


DATA CATALOGUE

[Datasets](#)
[Case Studies](#)
[Groups](#)
[Transformation Service](#)

[Home](#) / **Datasets**

Case Studies

- CS8: Torbay and Dev... 31
- CS1: Greening the A... 26
- CS4: Ohrid/Prespa l... 21
- CS3: Main river basin 5
- CS6: Black Sea 5
- CS5: Canary Islands 4
- CS9: Sardinia 3
- CS7: Southern Denmark 2
- CS2: Mediterranean ... 1

Groups

There are no Groups that match this search

Tags

- climate change proj... 15
- hydrology 9
- climate 6
- precipitation 6
- temperature 6
- Bavaria 5
- climate projection 5
- Franconia 5
- Huettendorf 5
- Kemmern 5

Show More Tags

Formats

- SHP 20
- ncdf 18

Add Dataset

Search datasets...

98 datasets found
Order by: Relevance

Population Prespa Florina 2001-2021 GR

Population data for Florina Regional Unit, Prespa Municipality, Prespa Watershed from Census 2001, 2011, 2021. Sources: ELSTAT (statistics.gr), River Basin Management Plans...

XLSX

Extreme Water Levels Ballum Sluse

Extreme Water Levels Ballum Sluse in the Danish Wadden Sea Region

CSV

Return Water Levels for the Danish Wadden Sea

Return Water Levels for the Danish Wadden Sea (cm DVR90)

XLSX

PROTECTED Hybrid Financial Reporting Model - Data - Valencia

The 2024 data for all the KPIs included in the Hybrid Financial Reporting Model for Valencia

XLSX

Water Consumption Prespa Watershed GR

Water Consumption in Greek Part of Prespa Watershed

XLSX

3-hourly simulated wind speed data for 4 Main River gauges (1981-2099, 5 memb...

4 gauges form Northern Bavaria 20402 - Huettendorf (Regnitz) 20003 - Kleinheubach (Main) 20005 - Wuerzburg (Main) 20007 - Kemmern (Main) wind speed data: processed climate model...

TXT

PROTECTED Dashboard data layers CS1

Data layers used for the Athens Case Dashboard used to interactively visualize the multidimensional environmental and socio economic hazards and proposed innovations, that can...

TIFF

Figure 2: ARSINOE Data Catalogue - Datasets listing view

Case Study



CS4: Ohrid/Prespa lakes

After the implementation of ARSINOE in the Ohrid/Prespa Case Study, the goal is to consciously monitor and improve climate resilience within the whole water supply/use chain, in...

[read more](#)

License

Other (Open) [OPEN DATA](#)

Water Bodies Greece

Geospatial data included in the 1st review of the Management Plans of the River Basin Districts in Greece (surface water and groundwater bodies)

Data and Resources


Surface water bodies and groundwater bodies in Greece
 Geoportal including geospatial data on water bodies in Greece: surface water...

[Explore](#)

[River Basin of Prespa](#)
[groundwater bodies](#)
[lakes](#)
[rivers](#)
[surface water bodies](#)

Additional Info

Field	Value
Publication Date	
Author	Geospatial Enabling Technologies Ltd
Author Email	Geospatial Enabling Technologies Ltd
Maintainer	Ministry of Environment and Energy, General Directorate of Water (Greece)
Maintainer Email	Geospatial Enabling Technologies Ltd
DOI	
Origin	Secondary
Resource Type	Unknown
Dataset Type	Geospatial
Visibility	Public
Publish to Zenodo	No
State	active

Figure 3: ARSINOE Data Catalogue - Dataset detailed information view

4.0 ARSINOE Datasets

The ARSINOE Catalogue contains 98 datasets, as uploaded by the Case Studies leaders. Most of the datasets are geospatial, while the rest are tabular. The datasets are split as follows:

- 61 public datasets open to anyone (and guest users).
- 34 protected datasets where their metadata are available to anyone, but the actual dataset is available to the members of the community.
- 3 private datasets which are available only to the members of the specific catalogue community.

Table 1: Datasets per Case Study

Case Study	No of research datasets
CS1: Greening the Athens metropolitan area	26
CS2: Mediterranean Ports	1
CS3: Main river basin	5
CS4: Ohrid/Prespa lakes	21
CS5: Canary Islands	4
CS6: Black Sea	5
CS7: Southern Denmark	2
CS8: Torbay and Devon County	31
CS9: Sardinia	3

Additional datasets may have been produced in other WPs. These datasets may have been published to the Zenodo community or stored to domain specific repositories.

4.1 Machine actionable DMP

The project has exploited the Argos DMP tool to create and maintain a machine actionable DMP. The DMP is available on: <https://argos.openaire.eu/plans/overview/5e374cf1-2a43-48c4-aeae-27f657a24ac7>

5.0 CONCLUSIONS - NEXT STEPS

This deliverable is the final version of the DMP and presents the final information about the available ARSINOE datasets.

REFERENCES

1. Guidelines on FAIR Data Management in Horizon 2020, v3.0 – 2016: https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf
2. Open Research Data Pilot in H2020: https://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/open-access-data-management/data-management_en.htm
3. OpenAIRE: <https://www.openaire.eu/about>
4. Argos Application: <https://argos.openaire.eu>
5. Zenodo: <https://zenodo.org/>
6. OAI-PMH: Open Archives Initiative Protocol for Metadata harvesting: <https://www.openarchives.org/pmh/>
7. Vamvakeridou-Lyroudia, L.S. (2022). Scientific quality assurance plan and ethical considerations. ARSINOE Deliverable 1.2, H2020 grant no. 101037424
8. Koltsida P., Toli E., (2023). First release of ARSINOE Collective Intelligence Data Hub, MS16, H2020 grant no. 101037424.

Systems Innovation Approach (SIA) addresses the growing complexity, interdependencies and interconnectedness of modern societies and economies, focusing on the functions of the cross-sectoral system as a whole and on the variety of actors. The Climate Innovation Window (CIW) is the EU reference innovations marketplace for climate adaptation technologies. ARSINOE shapes the pathways to resilience by bringing together SIA and CIW, to build an ecosystem for climate change adaptation solutions. Within the ARSINOE ecosystem, pathways to solutions are co-created and co-designed by stakeholders, who can then select either existing CIW technologies, or technologies by new providers (or a combination) to form an innovation package. This package may be designed for implementation to a specific region, but its building blocks are transferable and re-usable; they can be re-adapted and updated. In this way, the user (region) gets an innovation package consisting of validated technologies (expanding the market for CIW); new technologies implemented in the specific local innovation package get the opportunity to be validated and become CIW members, while the society (citizens, stakeholders) benefits as a whole. ARSINOE applies a three-tier, approach: (a) using SIA it integrates multi-faceted technological, digital, business, governance and environmental aspects with social innovation for the development of adaptation pathways to climate change for specific regions; (b) it links with CIW to form innovation packages by matching innovators with end-users/regions; (c) it fosters the ecosystem sustainability and growth with cross-fertilization and replication across regions and scales, at European level and beyond, using specific business models, exploitation and outreach actions. The ARSINOE approach is show-cased in nine widely varied demonstrators, as a proof-of-concept with regards to its applicability, replicability, potential and efficacy.



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