

ATRIUM – Advancing Frontier Research in the Arts and Humanities

Work Package WP1
Coordination and Project Management

Deliverable D1.1
Data Management Plan (Initial Version)

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List of Abbreviations

ADS	Archaeology Data Service
API	Application Programming Interface
ARIADNE	ARIADNE Research Infrastructure AISBL
ARUB	Institute of Archaeology of the Czech Academy of Sciences, Brno
ARUP	Institute of Archaeology of the Czech Academy of Sciences, Prague
ATRIUM	Advancing Frontier Research in the Arts and Humanities
CC	Creative Commons
CLARIN	Common Language Resources and Technology Infrastructure
CU	Charles University
CYI	The Cyprus Institute
DARIAH	Digital Research Infrastructure for the Arts and Humanities
DH	Digital Humanities
DOI	Digital Object Identifier
DOG	Digital Object Gateway
DMP	Data Management Plan
EC	European Commission
EOSC	European Open Science Cloud
ERIC	European Research Infrastructure Consortium
EU	European Union
FAIR	Findable, Accessible, Interoperable, Reusable
GDPR	General Data Protection Regulation
LNEC	Laboratório Nacional de Engenharia Civil
OEAW	Austrian Academy of Sciences
OPERAS	Open Scholarly Communication in the European Research Area for Social Sciences and Humanities
PID	Persistent Identifier
PM	Person Months
PSNC	Poznan Supercomputing and Networking Center
REA	European Research Executive Agency
RI	Research Infrastructure
SND	Swedish National Data Service
SSH	Social Sciences & Humanities
SSHOC	Social Sciences & Humanities Open Cloud
T	Task
TaDiRAH	Taxonomy of Digital Research Activities in the Humanities
TNA	Transnational Access
UoY_ADS	University of York, Archaeology Data Service
WP	Work Package

Executive Summary

As Advancing Frontier Research In the Arts and Humanities (ATRIUM) is a project that exploits and strengthens complementarities between four leading European infrastructures (DARIAH, ARIADNE, CLARIN and OPERAS), data management plays a crucial role in the project's conception. Namely, ATRIUM is dedicated to improving the metadata quality of existing catalogues and repositories, consolidating service portfolios and promoting the use of standards and FAIR (Findable, Accessible, Interoperable, Reusable) principles. As such, many of ATRIUM's tasks and work packages are directly designed to accommodate and facilitate FAIR data. With the aim to make a groundbreaking contribution to the consolidation and expansion of services to cover all phases of the research data lifecycle, ATRIUM also follows robust data management practices aligned with Open Science.

1. Introduction

1.1 Scope of the Document

ATRIUM will exploit and strengthen complementarities between four European research infrastructures (DARIAH, ARIADNE, CLARIN, OPERAS) to provide improved access to a set of state-of-the-art services available to researchers across countries, languages, domains and media. To achieve this, improving the metadata quality of existing catalogues and repositories is essential. The project will also ensure the composability of services and the implementation of workflows. Workflows are defined as 'sequences of steps that one can perform on research data during their lifecycle. Workflows can be achieved by using diverse tools, resources and methods, and the useful resources are connected to each step'.¹ A precondition is an effort towards data harmonisation and semantic interoperability. The overall concept is not to create new services or resources from scratch but to ensure the better interconnection of existing ones. ATRIUM pays particular attention to training aspects and a wide range of activities are planned in this respect. First of all, a gap analysis will evaluate the skills needed for using services included in the ATRIUM portfolio. The topics identified from the analysis will be included in the ATRIUM curriculum, which will be an integrated and comprehensive set of courses hosted and maintained on DARIAH-Campus.² Finally, ATRIUM offers transnational access training grants, offering researchers the possibility to apply for a fully funded placement at several different partner organisations to access expert knowledge and advice from leading organisations across Europe.

According to the description above, this document assumes that the data collected will be limited, as the project is mainly designed to improve FAIR aspects of existing catalogues and

¹ Barbot, L., Dolinar, M., Gray, E. J., Grisot, C., Illmayer, K., Kurzmeier, M., & McGillivray, B. (2024). *Contextualizing Research Tools & Services Through Workflows in the SSH Open Marketplace*. *Journal of Open Humanities Data*, 10, Article 22. <https://doi.org/10.5334/johd.192>.

² <https://campus.dariah.eu/>

resources. Data will mainly be collected in the following Work Packages (WP): WP1, WP2, WP7 and WP8. Namely, WP1 *Coordination and Project Management* deals with project administration data and WP2 *Communication, Dissemination and Impact Evaluation* collects data for event management, dissemination and communication purposes as well as usage statistics of the project website and social media. WP7 *Fostering Cross-Disciplinary Research through Training and Open Science* and WP8 *Transnational Access* are the Work Packages expected to generate the largest quantity of new data: WP7 will carry out a Skills Assessment survey targeting users and a Questionnaire for Service Providers. The answers will be processed to provide the skills set assessment required in Task 7.1. WP8 will collect and process personal data in the framework of the Transnational Access scheme, which will be handled according to GDPR provisions. The more technical Work Packages of WP3–6 will in comparison produce less data as they will rely instead on existing data from catalogues and repositories. For example, WP3 *Facilitating Discoverability of and Access to Humanities Resources* will provide an overview of models and formats. WP4 *Providing Enhanced Workflows for Frontier Research in the Humanities* will create step-by-step guides and instructions to enable users to apply the workflows to their own datasets. WP5 *Curiosity-driven Demonstrators* will create demonstrators to provide real-life examples of how the workflows work in practice, with a focus on archaeology. WP6 *Service Interoperability and EOSC Integration* will finally ensure interoperability between services, by implementing common APIs.

1.2 Structure of the Document

This document is organised as follows: after an introduction in Section 1, Section 2 provides a data summary, outlining the data types, sources and datasets in the project. Section 3 is dedicated to how ATRIUM's data management adheres to FAIR (Findable, Accessible, Interoperable, Reusable) principles, with each subsection focused on the four FAIR elements: 3.1 on Findability, 3.2 on Accessibility, 3.3 Interoperability, 3.4 Reusability. Section 4 explores how Open Science is a basis for ATRIUM as a project. Section 5 outlines the resources allocated within ATRIUM to maintaining good data management practices regarding human and infrastructure costs. Section 6 explains the approach to ensure data security while Section 7 details the ethical standards and guidelines, such as GDPR, personal data handling and ATRIUM's privacy policy. The deliverable is concluded in Section 8 followed by references. Finally, additional information regarding consent form templates is provided in the appendix.

2. Data Summary

2.1 Data Collection and Scope

The objective of collecting and generating data in ATRIUM is to:

- Provide more efficient access to the leading research infrastructures in the Arts and Humanities by improving the overall metadata quality of existing catalogues and repositories.

- Foster the uptake and use of existing services by the wider community as well as new communities by consolidating a service portfolio, improving the interoperability between existing tools and services, and improving multilingual support for tools and services.
- Enhance semantic interoperability between datasets as well as between tools.
- Create workflows and demonstrators to foster, simplify and showcase the use of existing Research Infrastructure (RI) services.
- Develop a coherent curriculum to be used in educational settings and organise training activities both for users and services/data providers.
- Run a pan-European Transnational Access programme.

Interviews were conducted with each Work Package leader to ensure a comprehensive overview of data sharing, reuse, and documentation specific to each WP. According to the interviews and objectives set above, the following WP structure can be deduced:

WP1, WP2 and WP8 mainly deal with administrative and support data (e.g. for communication and dissemination activities). In WP1, data is shared internally and used for management purposes to ensure smooth coordination and fulfilment of the project's objectives. Data is mainly collected from the project partners, team members and participants.

WP2 will mainly collect event-management data (with any inclusion of personal data to be subject to GDPR provisions), platform-usage data (metrics from the website and social media) and video and photo recordings of internal and external meetings. Furthermore, externally shared data will be used to communicate and disseminate the results of the project. Data will be collected from questionnaires and interviews and will be put together to produce ex-ante and ex-post evaluation reports which will be shared both internally (particularly with members of WP4 and WP5) and externally (e.g. with the communities themselves, such as metal detector field communities, the Nuraghe network NURNET, Swedish Rock Art Research Archives, the Italian Union of Blind and Partially Sighted People, and the Pelagios Network). Collected data will also inform the impact assessment analysis. Data will be provided by the identified local communities involved in the project but will also come from key project activities and results from the other WPs for targeted dissemination.

WP8 will collect personal data for the purpose of running the Transnational Access grants. As part of the application process, contact details (including personal data and affiliation) are collected by the Archaeology Data Service at the University of York (UoY_ADS) and shared only with ATRIUM host institutions and a small, selected group of experts for reviewing purposes.

Work Packages from 3 to 6 deal with the technical aspects of ATRIUM. In WP3, new data will be generated chiefly in the process of analysing, mapping, and harmonising existing data, resulting in derivative datasets capturing quantitative characteristics of the analysed data, as well as crosswalks and controlled vocabularies. Data will be mainly gathered from catalogues and source repositories, such as the ARIADNE Portal, GoTriple, SSH Open Marketplace, and CLARIN Virtual Language Observatory.³

³ <https://portal.ariadne-infrastructure.eu>; <https://www.gotriple.eu>;
<https://marketplace.sshopencloud.eu>; <https://vlo.clarin.eu/>.

The work of WP4 and WP5 is tightly interconnected. The overall goal of WP4 is to empower researchers at large to apply standardised workflows to their own data. The outputs will typically comprise datasets enriched with annotations, derived data in new formats, and enhanced subject metadata (e.g. text transcriptions from sound recording; OCR of fieldwork reports; IIF and 3D-Hop). The work of WP4 and 5 relies on various types of data from existing repositories, such as text, image, audio, 3D and geospatial. These WPs also include semantic resources like vocabularies and ontologies that cover the bulk of data encountered in the field. Within WP5, ARIADNE RI archaeological partners (ADS, SND, ARUB, ARUP, CYI, LNEC) will be providing sample data sets of various data types to the WP4 technical partners as a basis to develop workflows. Extended versions of these datasets will also feature in the WP5 demonstrators. Additionally to the data itself, digital resource management in WP4 and 5 also includes processing and visualisation tools. Overall, while WP4 will deliver executable workflows composed of individual services, which can be applied for processing data, WP5 will use these workflows and apply them on selected and sample data from existing repositories. Additionally, WP4 will produce new data in the form of human-readable workflow descriptions.

Finally, WP6 will improve the machine actionability of data stored in ATRIUM-related repositories by leveraging their APIs (Application Programming Interface) to access data objects directly. This will make it possible to use the processing services connected to the Language Resource Switchboard for the data that can be accessed via the registered APIs. The data consists of manually crafted configuration files that will be based on API descriptions, either for human consumption (e.g. documentation on websites) or for machine consumption (e.g. OpenAPI documentation). In either case, the creation of these configuration files will be subject to manual inspection and testing.

The purpose of data collection in WP7 is to allow the best possible use of the different services provided by the Research Infrastructures involved in the project. Thus, data on the skills needed for their active use will be gathered in a questionnaire. The aim of the data collected in the survey with the researchers is to identify the skills gaps and needs for training. In addition, workshops, in the form of researcher forums and mutual learning exercises, will produce data on how to improve the services' interoperability and usability. This information will support the process of creating the curriculum, which will serve as a guide for training and skills development. For the curriculum, data on existing training materials will also be reused, to avoid effort duplication and to add value to previous EU projects' outcomes. Finally, the development of a peer-review assessment framework will allow the valorisation of diverse research outputs by maximising their impact.

A preliminary overview of the data types including standards and formats is provided in Table 1 on the following page. A more comprehensive overview of relevant schemas, ontologies and vocabularies will be compiled by T3.1 in the deliverable D3.1 (M12), with data formats and standards will be elaborated in T3.3.

2.2 Overview of the Data Types

Table 1: Overview of Data Types within ATRIUM according to WPs

Work Package	Data Type		How will the research data be handled during and after the end of the project?	Which methodology, standards and formats will be applied?
	Collected	Processed/Generated		
WP1	<ul style="list-style-type: none"> -Names -Affiliations -Emails -Mailing lists 	<ul style="list-style-type: none"> -Deliverables (generated by WPs and processed by WP1 for final upload) 	<ul style="list-style-type: none"> -Stored in the Shared ATRIUM Google Drive and only invited persons can access -GitHub -Google Calendar -GWDG mailing lists 	<ul style="list-style-type: none"> -GDPR compliant -Dedicated structure with internal knowledge management guidelines for the shared Google Drive
WP2	<ul style="list-style-type: none"> -Participant lists including dietary requirements -Surveys from communities such as metal detector communities and Pelagios Network -Data for impact evaluation -Statistics from project website and social media 	<ul style="list-style-type: none"> -Website -Publications -Poster presentations -Webinar recordings -Social media content (X, LinkedIn, Facebook) -Newsletters -Promotional materials -Project presentations 	Data published on: <ul style="list-style-type: none"> -Geoportal on Nuraghe Civilisation -Swedish Rock Art Research Archives -Heritage Tribune -DARIAH Open Methods -YouTube -Zenodo -Project website and social channels -Relevant journals/magazines -EC Portal 	<ul style="list-style-type: none"> -GDPR compliant -Tabular, multimedia and textual data -Open access publications

WP3	-Data will be collected from ARIADNE Portal, GoTriple, SSH Open Marketplace, CLARIN VLO catalogues	-Keywords -Mappings -Harmonized controlled vocabularies	-Metadata will be aggregated on the ARIADNE Portal, GoTriple, SSH Open Marketplace, CLARIN VLO -Newly generated mappings will be published via GitHub -New vocabularies will be published through DARIAH Vocabs Service	-SKOS, Pleiades, 3DHOP, PeriodO, Getty's AAThesaurus, TEI DataCite, CIDOC CRM, IIIF, RO-Crate, OWL CRM
T4.1/T5.1	-Manuscripts -Typescripts and prints -Unpublished fieldwork reports -Local history and archaeology journals	-Workflow descriptions -Archaeological textual data (documentary archives, published articles, unpublished fieldwork reports, manuscripts, typescripts, transcribed speech data, scanned documents) enriched with automated processing (Grobid, Tokenization, PoS tagging, lemmatization, and syntactic classification of textual data (UDPipe) and named entity recognition (NameTag).	-ARUP, ARUB and UoY_ADS provide datasets and INRIA, CU and PSNC provide workflows -UoY_ADS and ARUP/ARUB repositories, SSH Open Marketplace, Transkribus, ARIADNE Portal, Wikidata, OpenCitations, ORCID	-Deep Learning methods, ALTO XML, Page XML, TEI, HTR, Tesseract, OCR4all, kraken, Getty AAT, OCR, Semantic Web and Linked Data standards for reuse and interoperability, GATE Cloud, SPARQL
T4.2/ T5.2	-Documentary photographs from fieldwork & movable artefacts -Archival photographs from ARUB, ARUP and UoY_ADS	-Workflow descriptions -Images of sculptures and bronze age rock art	-UoY_ADS, ARUB and ARUP will provide the data from local repositories, and the metadata will be aggregated in the ARIADNE portal	-Web Annotation (WADM), ModelMirador, ResNet, Getty AAT, TaDiRAH, ARIADNE mappings, IIIF protocol

T4.3/ T5.3	-3D digital models	-Workflow descriptions -Multi-part objects, environments, and 3D time-series, conservation state analysis data (thermal, multispectral, pulse, aligning morphology analysis -3D layers of archaeological excavations, ancient buildings, archaeological areas, and their related documentation	-UoY_ADS, LNEC and CYI will provide 3D datasets and metadata will be hosted in the ARIADNE portal	-3DHOP, HBIM, ifc2OWL
T4.4/ T5.4	-Interviews -Archaeological fieldwork site recordings	-Workflow descriptions -Transcriptions of interviews	-UoY_ADS will provide the recordings data and metadata will be aggregated in the ARIADNE portal	-ASR -Pretrained speech models
T4.5/ T5.5	-Geospatial data	-Workflow descriptions -Geo-coordinates -Labels -Image annotations of place names on maps and recognised named geographical places in texts	-Pelagios Linked Open Datasets -UoY_ADS and SND datasets provided for Sub-Task 4.5.4, with metadata in ARIADNE portal -Recogito tool	-IIIF, WMTS, NER tooling
WP6	-Repository API descriptions	-Configuration files to register repository APIs with the Digital Object Gateway (DOG) -Spoken data -Audio recordings	-Registering APIs in the Digital Object Gateway -Switchboard -Overlay Journal -Onboarding to SSHOC (Social Sciences & Humanities Open Cloud) & EOSC (European Open Science Cloud) catalogue -NLP service portal	-Diamond Open Access -EOSC Interoperability Framework -JSON

			-Zenodo and Europeana	
WP7	<ul style="list-style-type: none"> -Questionnaire data (text and visual data on the skills needed for the use of the services) -Survey data, including: sociodemographic data such as institution, research field, country, age; user feedback through oral/written survey responses and interviews to identify skills gaps and training needs -Workshop insights, behavioural data (services usage patterns) -Existing training materials, data, publications from previous projects (e.g. SKILLS4EOSC) 	<ul style="list-style-type: none"> -Skill Assessment report (including the questionnaire and survey results and recommendations for the curriculum) -Recommendations for data and service providers based on direct feedback from the workshops and exercises -Guidelines and structure for the ATRIUM Curriculum -Guidelines for the Overlay journal (for authors and reviewers), editorial workflow -New training materials published on DARIAH-Campus 	<ul style="list-style-type: none"> -Open-Access content published in the Overlay journal, including articles, datasets, and workflows -DARIAH Campus 	<ul style="list-style-type: none"> -Creative Commons licences -Diamond Open Access, self-archiving (Green Open Access)
WP8	<ul style="list-style-type: none"> -Application details: name, address, affiliations, proposals, emails 	<ul style="list-style-type: none"> -Open Call with procedures -Reviewer's assessments -Reports -Statistics regarding gender, geographical coverage, early career for evaluation purposes 	<ul style="list-style-type: none"> -Password-protected Google Drive -Google forms -Information disseminated through academic mailing lists, social networks, institutional websites, blogs 	<ul style="list-style-type: none"> -GDPR compliant

2.3 Target Users and Stakeholders

Target users and stakeholders:

- Researchers in the domain of arts, humanities and social sciences
- Digital humanities scholars
- Cultural heritage institutions, such as archives, libraries and museums
- Citizen science communities
- Users of the Digital Object Gateway, including users of the Language Resource Switchboard which will be connected to the DOG
- Service and Data providers through improved interoperability and usability, maximising the use and impact of the services
- Thematic local communities and their users, such as the metal detector communities in the UK and Czechia; NURNET, the Nuraghe network from Sardinia, Swedish Rock Art communities, people with disabilities, and the Pelagios Network
- Relevant politicians, policymakers and funding bodies
- The media and the general public.

3. FAIR Data

ATRIUM is dedicated to improving the metadata quality of existing catalogues and repositories, consolidating service portfolios and promoting the use of standards and FAIR (Findable, Accessible, Interoperable, Reusable) principles.⁴ As such, many of ATRIUM's tasks and work packages are directly designed to accommodate and facilitate FAIR data.

3.1 Making Data Findable

3.1.1 Persistent Identifiers

Reports, key results, deliverables, and other relevant datasets will have a Digital Object Identifier (DOI) and persistent identifier (PID). Research data will be published in journals and repositories providing a PID and uploaded to the Zenodo ATRIUM community with a persistent identifier. The output workflows presented in the SSH-Open Marketplace will also have PIDs.

WP3 will deal with data already assigned with a PID which will be retained to ensure traceability to the source. All resources in the ARIADNE portal have unique identifiers, as metadata is aggregated in the ARIADNE portal, with PIDs linking to the originating repositories. ADS and SND use Datacite DOIs; ARUP, ARUB and CYI are working towards PIDs by applying for archival accreditation.

⁴ Wilkinson, M., Dumontier, M., Aalbersberg, I. et al. (2016). The FAIR Guiding Principles for scientific data management and stewardship. *Scientific Data*, 3(1). <https://doi.org/10.1038/sdata.2016.18>.

The DOG configuration files in WP6 will not get a persistent identifier since they are not intended for direct use (only indirectly via the DOG service) or citation.

3.1.2 Metadata

Data published will include rich metadata providing information on the context, methodology and purpose of data collection. A central task of the project, especially for WP3 *Facilitating Discoverability of and Access to Humanities Resources*, is to improve the findability of existing resources by further enriching metadata. WP3, in particular, is less focused on the generation of new data, but rather on the enrichment and harmonisation of existing metadata. T3.2 aims to improve metadata and vocabulary harmonisation between catalogues. As improved metadata quality is a prerequisite for findability, this task will compare and align metadata curation and enrichment workflows between individual catalogues and look for possible synergies and shared functionality. Furthermore, the task will explore the potential feedback loop between catalogues and their respective data source to enable metadata curation at the source.

Metadata enrichment is a key part of WP4 activities. The workflows developed in WP4 must provide appropriate provenance metadata for the processed datasets to ensure reproducibility.

In WP6, the DOG configuration files can be considered as minimal metadata, with the specific purpose of letting the DOG service run optimally. They are less suited for discovery, although there are plans to provide an explicit list of supported repositories that are suitable for human consumption.

3.1.3 Search Keywords

Search keywords will be provided in the metadata if not already present to optimise the possibility of discovery and potential reuse. T3.4.1 is also dedicated to translating the original keyword metadata of publications to ensure the widest reach.

3.1.4 File Naming Conventions

The project will implement uniform naming of versions and files that are published on Zenodo. Internally, the following file naming conventions will be followed in the ATRIUM Shared Google Drive: name, prefix of document type, document title that describes the content, version number and the date in the format yyyy-mm-dd.

3.2 Making Data Accessible

3.2.1 Trusted Repositories

Making data available in a trustworthy data repository is a core requirement of open and FAIR data mandates. Trusted repositories typically have established procedures and standards to ensure the integrity of the data they host.⁵ They also require documentation and metadata for

⁵ <https://www.openaire.eu/find-trustworthy-data-repository>

deposited data. Furthermore, reputable data repositories often implement version control mechanisms, allowing users to track changes and updates to datasets over time. Finally, trusted repositories will assign persistent identifiers to datasets, which will facilitate their discoverability and ability to be cited.

As a default, generated data will be deposited in trusted repositories, either domain-specific or from institutions, or in Zenodo. An ATRIUM Zenodo Community⁶ has been set up where materials for the general public will be published, including deliverables, presentation slides and other publications under the CC-BY licence and assigned with DOIs. New resources will be published by default in the Zenodo community, except the datasets that fit into a collection policy of more specialised repositories of the ATRIUM portfolio, such as DARIAH Vocabs Service.

3.2.2 Openly Available Data

Processed data and enhanced metadata will be openly available in catalogue repositories from which it originated, such as ARIADNE Portal, GoTriple, SSH Open Marketplace, and CLARIN VLO. On top of this, data will be available through the following places:

DARIAH Overlay Journal:

A diversity of contents will be published in *Transformations, A DARIAH journal*, including different types of methodological and research activities (data collecting, processing, annotation, modelling, analysis and interpretation along the lines of the TaDIRAH taxonomy) as well as diverse and complex research outputs (scholarly papers, underlying data or other resources, software packages, training materials etc.). *Transformations* is hosted on the Episciences platform⁷, a Diamond publishing platform without financial or access barriers. The CC-BY 4.0 licence applies by default to all published content. The journal is peer-reviewed and guarantees the scientific integrity of the process in compliance with the core practices from COPE.⁸

SSH Open Marketplace:

Implemented workflows and demonstrators will be documented in the SSH Open Marketplace to ensure the widest possible reach. Repositories will be registered as a data source and tagged using the guidelines for contributing to the SSH Open Marketplace.⁹

YouTube & Vimeo:

Communication and Dissemination videos for WP2 will be stored on YouTube and Vimeo and linked to the project website.¹⁰ If public events are recorded, the recordings will be publicly accessible on the above-mentioned channels to increase outreach, particularly for those who are not able to attend events in person. Participants are warned that the session will be recorded and that by remaining in the session they are consenting to filming.

⁶ <https://zenodo.org/communities/atrium-research/>

⁷ <https://www.episciences.org/>

⁸ <https://publicationethics.org/sites/default/files/ethical-guidelines-peer-reviewers-cope.pdf>

⁹ <https://marketplace.sshopencloud.eu/contribute/overview>

¹⁰ <https://atrium-research.eu/>

GitHub:

The DOG configuration files for WP6 will be stored, managed and made openly available on GitHub via https://github.com/clarin-eric/DOGLib/tree/master/doglib/static/repo_configs. WP4 will use GitHub for task management purposes as well as occasional data and method sharing. While internal project management data will not be made open, actual code and any auxiliary documentation files will be openly accessible as soon as they have been validated through a project-specific internal review.

DARIAH-Campus:

Training materials will be published on DARIAH-Campus and linked on the project website.¹¹

3.2.3 Timescale of Availability and Findability

Openly published data on trusted repositories such as Zenodo as well as aggregators such as the SSH Open Marketplace and ARIADNE Portal will follow the local policies on availability. Since the whole project relies on infrastructures each with robust funding plans and reliable histories, the data should remain findable and available with no end date.

The DOG configuration files are and will remain available and findable until they lose their purpose, e.g. when the DOG would be decommissioned.

The project website and project internal data, such as the ATRIUM Shared Google Drive will be available for at least 5 years after the end of the project. The access will be changed to view/comment only after the end of the project on 31/12/2027.

3.3 Making Data Interoperable

Interoperability is one of the central themes of the project. Its multiple dimensions are each tackled in the corresponding tasks of the project. Namely, the interoperability of data is the focus of WP3, whereas WP6 is dedicated to the interoperability of tools and services. Moreover, T3.3 works on syntactic interoperability pertaining to the use of well-defined formats and standards, while semantic interoperability based on the common use of vocabularies and ontologies is addressed through T3.1 and T3.2.

The field in which the project operates comprises many domains with specific needs for data types and approaches. It is correspondingly extremely heterogeneous in terms of used formats, models and conceptualisations. In response to this, ATRIUM dedicates substantial efforts to inventorizing and systematising the use of vocabularies, schema, ontologies and formats in the field (T3.1 and T3.3). To name but a few prominent examples of vocabularies and standards:

- ARIADNE AO-Cat ontology (a subset of CIDOC-CRM)
- Getty AAT for subject matter
- JSON for the configuration files
- ISO WGS84 for spatial data

¹¹ <https://campus.dariah.eu>

- Temporal terms defined using Period0
- TEI for encoding text.

Data and metadata will be collected or produced using standard formats (CMDI, DOC, HTML, JPEG, MP4, PDF, PNG, SKOS, TEI, XML). Handles and DOIs will be used as standard persistent identifiers. In terms of vocabularies, the project will follow the guidelines developed in WP3. By engaging with providers of hosting services, WP3 offers consulting, best practices and technical support to help data providers best adhere to interoperable and FAIR principles. In particular, the project supports implementing conversions between existing data formats and/or exposing data through standard protocols, most notably IIIF for images or 3DHOP for 3D data.

3.4 Increasing Data Re-use

ATRIUM draws heavily on existing data collections and service portfolios, as such ATRIUM is committed to clearing reuse rights of the source material. ATRIUM both reuses existing data and services, while also aiming to facilitate their reuse and the outputs of the project. Outputs in the form of publications will be published on Open Access Journals and in *Transformations, A DARIAH Journal*.

3.4.1 Documentation

WP4 *Workflows* and WP5 *Demonstrators* aim to provide clear documentation of how to use certain tools and methods, including the documentation needed to validate data analysis and facilitate data reuse. Workflows will be presented in the SSH Open Marketplace as part of the ATRIUM catalogue. The rich metadata format of the SSH Open Marketplace (relying among others on the TaDiRAH taxonomy¹²) increases discoverability and reusability. The workflow presentation format is text and will remain so for sustainability reasons. Low-resolution images may be used locally for illustration purposes. Images will always be provided with an alt-text to facilitate accessibility.

Training on how to use the workflows and other outputs of the project will be further provided through training materials published in DARIAH-Campus. DOG configuration files will be validated through a JSON schema.¹³

3.4.2 Licences

ATRIUM will follow the principle “as open as possible, as closed as necessary” for all generated data. Data will be shared as early as possible in trusted repositories. Where legally and ethically possible, the project applies CC-BY 4.0 licensing for its outputs by default, while metadata will be available under the CC0 licence. This licensing policy will be implemented in a way that is

¹² <https://github.com/dhtaxonomy/TaDiRAH> or <https://vocabs.dariah.eu/tadirah/en/>.

¹³ https://github.com/clarin-eric/DOGLib/blob/master/doglib/static/repo_configs/schema/repo_config_validation_schema.json.

easily readable both for humans and for machines. The configuration files in WP6 will be released under the same licence as the DOGlib software, GPL version 3.

4. Open Science

The ATRIUM project aims to promote widespread dissemination of knowledge by enabling researchers, students, and the general public to access a wealth of information free of charge and ideally without any access restrictions. This fosters collaboration and innovation, as researchers from diverse backgrounds can easily access and build upon existing work. In this way, open practices in ATRIUM also enhance transparency and accountability in research, as publicly accessible datasets contribute to the integrity and reproducibility of scientific inquiry.

The Data Management Plan (DMP) will act as a guide for project members to ensure the firm and harmonised implementation of Open Science practices and tools throughout the project. This includes giving advice on best open research, documentation and practices on editorial quality standards in the digitally-enabled arts and humanities.

5. Allocation of resources

5.1 Data Management Responsibilities

This DMP will serve as a living document that is constantly updated. The Project Coordinator DARIAH is responsible for collecting the information through bilateral meetings and written consultation with WP leaders. Throughout the project, the Project Coordinator will ensure that the DMP is up to date by scheduling yearly reviews with WP leaders aligned with the European Commission (EC) project reviews. WP leaders are also responsible for informing the Project Coordinator if there are changes to the DMP throughout the project. As such, data is a shared responsibility between the partners concerning the activities, with the Project Coordinator having the responsibility to check that the guidelines are followed.

5.2 Resources

5.2.1 Human Resources

The costs to ensure that the data adheres to FAIR principles are included in the project's budget, particularly through a significant amount of person-months (PM) and human resources. The skills costs include data wrangling, description and documentation, metadata generation, formatting and cleaning of data.

For example, 12 PMs from DARIAH are dedicated to the creation and updating of the DMP and Open Science Coordination. 133 PMs in WP3 are dedicated to facilitating discoverability and access of data, such as 37 PMs to semantic interoperability, 47 PMs to catalogue harmonisation, 24 PMs to fostering data interoperability and 25 PMs to ensure multilingualism and the widest

possible reach of data. 35 PMs in WP6 aim to improve service interoperability, with a further 14 PMs connecting national repositories to Episcience.

5.2.2 Infrastructure Costs

The costs to maintain the infrastructure are budgeted from the indirect costs. This includes the costs for digitisation, storage, licensing and security, sharing, re-use, and archiving. For example, this also includes costs associated with the open-source publications and the maintenance of the online platforms and the Shared Google Drive.

6. Data Security

6.1 Security & Public Data

Many of the repositories used in ATRIUM have CoreTrustSeal and are based on the Core Trustworthy Data Repositories Requirements. The mailing lists also follow the GWDG policy for security. All generated data will be published and stored in trusted repositories which already have measures in place for recovery. ATRIUM is also working with aggregated data from reliable sources.

Appropriate procedures for data storage and backup are essential parts of the data management workflow. To avoid data loss due to deterioration of physical storage, malicious threats or other emergencies, redundancy is key for preserving data. WP and task leaders are expected to have backup and storage solutions in place regarding their own local policies and backup protocols. For example, at OEAW, one of the main technical partners providing some of the central services, the primary server storage is a RAID-6 configuration. This allows sustained read and write operations in the presence of up to two concurrent disk failures. The backup policies follow a multi-layered setup: the live data stored on the production server is copied every night to the network array storage run by the computing centre of the Academy, of which numerous snapshots are stored on a remote backup system. Daily snapshots are kept for 28 days, weekly snapshots for 52 weeks. In addition, the data is encrypted and copied to a long-term storage facility in a different part of the city.

6.2 Internal Data Storage

Access to data inside the project and within the consortium will be stored in the ATRIUM Shared Google Drive as working documents. All partners of the project are considered to have access as a Content Manager. To ensure that the data is safe, access to the Shared Google Drive is only for those involved in the project and will be monitored by the Project Coordinator. Dedicated contact persons for each partner and affiliated entity will be responsible for checking that the contact list is correct and up to date. Restricted data such as interviews will have restricted views/password access.

The folders on the Shared Google Drive dedicated to the project's activities are structured into WPs and bodies:

- Deliverables
- Events
- Executive Board
- General Assembly
- WP1: Coordination and Management
- WP2: Communication, Dissemination and Impact Evaluation
- WP3: Facilitating Discoverability of and Access to Humanities Resources
- WP4: Providing Enhanced Workflows for Frontier Research in the Humanities
- WP5: Curiosity-driven Demonstrators
- WP6: Service Interoperability and EOSC Integration
- WP7: Fostering Cross-Disciplinary Research through Training and Open Science
- WP8: TA: Transnational Access

To help with orientation, guidelines on information knowledge management are on the landing page of the Shared Google Drive. This contains information on document management, calendar and event management, communication standards, task management and resource inventory.

7. Ethics

All project partners and affiliated entities will apply the ethical standards and guidelines of Horizon Europe and will comply with the General Data Protection Regulation (GDPR). EU legislation for data sharing will also be followed with non-EU partners.

7.1 Personal Data Handling

ATRIUM does not plan to collect sensitive data, while personal data will be collected. The following cases have been identified which involve personal data protection:

- Personal data regarding project partners managed by WP1, such as the ATRIUM contact list.
- Personal data collected from registration and attendance of public events and from subscriptions to the project newsletter managed by WP2.
- Interview data managed by WP2, WP7 & WP8.
- Application data for the Transnational Access Grant managed by WP8.

Personal data will be anonymised for publication and will be under restricted access even in the internal Shared Drive. Access to folders with personal data is restricted to participants directly involved in the personal data collection and will only be shared with the consortium and public if anonymised.

For example, any personal data collected by the University of York for the WP8 Transnational Access applications will be stored in the university's own enhanced Google Workspace for

Education domain. This will be stored in the ADS organisational Google Drive with only core members having access. The University of York has a bespoke service agreement with Google for universities which ensures data held on Google Drive cannot be used by Google.

As GDPR-sensitive data will be needed for statistics until the end of the project, this data will remain in the password-protected internal drive with limited access until 3 months after the final project review.

7.2 Informed Consent

Privacy and informed consent forms will be integrated into invitations to participate in event registrations, questionnaires, surveys and applications. For example, the consent form will be included in questionnaires dealing with personal data, such as WP8 questionnaires and application forms, WP2 surveys and interviews, and WP7 surveys and skill assessment interviews. The Consent Forms templates are provided by WP1 using the tool DARIAH ELDAH Consent Form Wizard.¹⁴ Three consent form templates will be provided for research surveys, hosting events, communications and mailing lists, as seen attached in the appendix. These will clearly state the purpose of the project, methodology, how data will be stored and who will have access. Participants are informed of their right to withdraw their consent and how to exercise their data access rights. ATRIUM will only accept participants for surveys who are able to give their full informed consent.

On top of this, a tick box will be integrated into WP8 TNA application forms with the following disclaimer:

By submitting this survey and/or application form, I consent for the information and data to be collected and reported anonymously for statistical purposes to improve future calls. I also consent to be contacted by the communication team.

The following photo disclaimer will be included in the registration forms for events:

The organiser reserves the right to use any photograph taken during the event, without the expressed written permission of those included within the photograph. The organiser may use the photograph in publications or other media material produced, including but not limited to brochures, invitations, websites, etc. A person attending the event who does not wish to have their image recorded for distribution should make their wishes known to the photographer, and/or the event organisers.

7.3 Privacy Policy

The privacy statement on the project website describes how ATRIUM collects and uses data while users browse the website or use the API. ATRIUM is committed to ensuring that personal details are protected when one uses the project website or API.

¹⁴ <https://consent.dariah.eu/>

7.3.1 Analytics

Google Analytics is used to measure the use of the ATRIUM website. It collects data about users' activities which do not personally or directly identify the user when they visit the website. This information may include content viewed, the date and time of the view or location information associated with the user's IP address. ATRIUM will not sell, distribute or lease personal information to third parties unless disclosure is required by law.

7.3.2 Cookies

The project website uses third-party cookies that help analyse how the website is used, to store preferences, and provide the content and advertisements that are relevant to the user. Cookies are used on the project website to help the user navigate efficiently and perform certain functions. These cookies will only be stored in the user's browser with prior consent. The user can choose to enable or disable some or all the cookies.

The cookies categorised as "Necessary" are stored on the user's browser as they are essential for enabling the basic functionalities of the site. Necessary cookies are required to enable the basic features of this site, such as providing secure log-in or adjusting consent preferences. These cookies do not store any personally identifiable data. Functional cookies help perform certain functionalities like sharing the content of the website on social media platforms, collecting feedback, and other third-party features.

7.3.3 Mailing List & Newsletter

Subscribers to ATRIUM's mailing list and newsletter agree to share with ATRIUM the following personal information: name (first and last name), email address and, optionally, institution/affiliation.

ATRIUM uses this data to send messages to the provided email addresses about ATRIUM's activities (i.e. events, calls for projects, etc.) or activities carried out by our partners. All messages sent to this mailing list have to be approved by ATRIUM's Communication and Engagement Officer so that subscribers only receive moderated information ATRIUM believes to be of interest to them. For this, ATRIUM uses the services of Mailchimp. Data will be stored as long as the subscribers use the service. Subscribers can change or delete personal information at any time by contacting info@atrium-research.eu.

7.3.4 Accessibility and Inclusivity

The project is committed to following the accessibility standards recommended by the Web Content Accessibility Guidelines (WCAG) of the World Wide Web Consortium (W3C), as well as other relevant guidelines, for all content produced. ATRIUM strives to ensure that the platform and resources are inclusive and accessible to all users, regardless of their abilities or the technology they use.

8. Conclusion

In conclusion, this document has outlined the structure of ATRIUM's data management plan, encompassing data summaries, adherence to FAIR principles, Open Science principles, resource allocation, data security measures, and ethical standards. ATRIUM's commitment to enhancing research accessibility, interoperability, and sustainability reflects its vision for advancing scholarly collaboration and innovation across Europe and beyond.

As this is a living document, the Data Management Plan is an initial version that will be continuously updated throughout the project. Moving forward, ATRIUM's data management approach adheres rigorously to FAIR principles, ensuring that data remains Findable, Accessible, Interoperable, and Reusable. Furthermore, the project underscores its commitment to Open Science principles, emphasising transparency and collaboration. Adequate resources have been allocated to sustain robust data management practices, encompassing both human and infrastructure costs. ATRIUM remains dedicated to preserving data security and upholding ethical standards, including compliance with GDPR regulations and ensuring informed consent in data handling processes.

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Appendix A – Consent Form Template for Research Surveys

Information on Data Processing and Declaration of Consent

Introduction

ATRIUM values your privacy and processes your personal data in compliance with the EU General Data Protection Regulation (GDPR).

Your **Personal Data** is any information related to you. **Processing** is any operation performed on the data.

According to the **Transparency Principle**, this document will provide you with information about the processing of your personal data as required by Art. 12, 13, and 14 of the GDPR.

Who are we and how can you contact us?

Name:

Address:

E-mail:

acting as the data controller within the meaning of the GDPR.

You can also contact our **Data Protection Officer** at

For what purpose do we process your data?

Your data will be processed within the ATRIUM project (hereinafter: the project).

Project description:

To learn more about the ATRIUM project, please see <https://atrium-research.eu>.

Please be informed that your data may also be used in different research projects in the domain of Digital Humanities in accordance with the GDPR.

What information about you do we collect and process?

The following types of information about you are collected and processed within the project:

- Name, surname
- IP address
- E-mail address
- Age / date of birth
- Address / place of residence
- Gender
- Educational background / title
- Affiliation / professional situation / occupation

The data are collected directly from you through

- Written survey (pen and paper)
- Online survey
- Oral interview (sound recording)
- Oral or video interview (transcription)
- Video interview

Your IP address is automatically collected when you connect to the website.

Legal basis for the processing of your data

Your data is processed on the basis of your consent (Art. 6.1(a) of the GDPR) which you give by accepting this notice.

Exceptionally, where consent is not an appropriate legal basis, your personal data can also be processed on the basis of our legitimate interest in carrying out the project, or further research in the field of Digital Humanities. Then, the processing is based on Art. 6.1(f) of the GDPR.

For how long do we keep your data?

Your data will be stored until the end of the funding period or research project 31/03/2028.

Will your data be shared with anyone?

The information requested in this section will not be made publicly available. It will be used only internally within the ATRIUM project and just for contact purposes, in case we need to clarify doubts or gather more information.

Will your data be transferred outside the European Economic Area (EEA)?

Your data will not be transferred outside the European Economic Area.

No profiling or automated decision-making

Your data will not be used for profiling or automated decision-making purposes.

Your rights with regards to the processing of your data

The GDPR grants you certain rights with regards to the processing of your personal data. These rights include:

- **Access** (Art. 15 of the GDPR): you have the right to obtain confirmation as to whether We have your personal data, as well as information about how We process it. You can also request a copy of your personal data, for which We may charge you a reasonable fee based on administrative costs. In order to exercise your right of access, contact us at info@atrium-research.eu;
- **Rectification** (Art. 16 of the GDPR): if your personal data that We process are incomplete or inaccurate, you have the right to request rectification of such data without undue delay. In order to exercise your right to rectification, contact us at info@atrium-research.eu;
- **Erasure** ("right to be forgotten" – Art. 17 of the GDPR): in certain circumstances (e.g. if your data are processed unlawfully or unnecessarily) you may request erasure of your personal data.
- **Restriction of processing** (Art. 18 of the GDPR): in certain circumstances (e.g. if you contest accuracy of your data that we process or lawfulness of the processing) you may request restriction of processing of your data. Such data will not be erased, but in principle can only be processed with your consent;
- **Data portability** (Art. 20 of the GDPR): in certain circumstances, you may request transmission of your data to another controller in a structured, commonly used and machine-readable format;
- **Right to object** (Art. 21 of the GDPR): if you did not consent to the processing, or if it is not necessary to comply with a legal obligation, you may always object to it, in which case We shall no longer process your data.

Moreover, you have the right to:

- **withdraw your consent** to the processing of your personal data at any time (Art. 7(3) of the GDPR) by contacting us at info@atrium-research.eu. The withdrawal of consent will not affect the lawfulness of processing based on consent before its withdrawal;
- lodge a **complaint** with a supervisory authority.



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Appendix B – Consent Form Template for Hosting Events

Information on Data Processing and Declaration of Consent

Introduction

ATRIUM values your privacy and processes your personal data in compliance with the EU General Data Protection Regulation (GDPR).

Your **Personal Data** is any information related to you. **Processing** is any operation performed on the data.

According to the **Transparency Principle**, this document will provide you with information about the processing of your personal data as required by Art. 12, 13, and 14 of the GDPR.

Who are we and how can you contact us?

Add contact person here on behalf of Add name of Institution here.

Please contact example@email.eu who is acting as the data controller within the framework of the GDPR.

You can also contact our **Data Protection Officer** at add contact here if present at mail@example.eu

For what purpose do we process your data?

We process your data for the following purposes:

- Organisation and/or management of the event
- Organisation of related events in the future (e.g. next edition of the conference)
- Keeping the participants informed about related topics (e.g. reuse of contact details for newsletter purposes)
- Promoting and documenting the event itself on our website and / or social media
- Promoting and documenting the research presented at the event (publish videos / photos of the lecture)
- Statistical analysis of the event (e.g. in relation to past and future events)
- Administration of participation fees and/or travel expenses
- Generation of attendance certificates, invoices and payment confirmations
- Community building (allowing participants to stay in touch with each other after the event)

What information about you do we collect and process?

The following types of information about you are collected and processed within the project:

- Name, surname
- IP address
- E-mail address
- Age / date of birth
- Address / place of residence
- Gender
- Educational background / title
- Affiliation / professional situation / occupation

We obtain this information directly from you when you fill in the respective form. The information the provision of which is mandatory is marked with an asterisk in the attached form. For the remaining information, you are free to decide not to provide it; in this case it will not appear in our communications.

Legal basis for the processing of your data

Your data is processed on the basis of your consent (Art. 6.1(a) of the GDPR) which you give by accepting this notice.

Exceptionally, where consent is not an appropriate legal basis, your personal data can also be processed on the basis of our legitimate interest in carrying out the project, or further research in the field of Digital Humanities. Then, the processing is based on Art. 6.1(f) of the GDPR.

For how long do we keep your data?

Your data will be stored until the end of the funding period or research project on 31/03/2028.

Will your data be shared with anyone?

Your personal data will not be shared with or disclosed to anyone outside our institution **Add name of Institution here**.

Moreover, for the purpose of community building or to clarify information, your name, affiliation and contact details will be communicated to other participants of **Add name of event here**.

Will your data be transferred outside the European Economic Area (EEA)?

Your data will not be transferred outside the European Economic Area.

No profiling or automated decision-making

Your data will not be used for profiling or automated decision-making purposes.

Your rights with regards to the processing of your data

The GDPR grants you certain rights with regards to the processing of your personal data. These rights include:

- **Access** (Art. 15 of the GDPR): you have the right to obtain confirmation as to whether We have your personal data, as well as information about how We process it. You can also request a copy of your personal data, for which We may charge you a reasonable fee based on administrative costs. In order to exercise your right of access, contact us at example@email.eu;
- **Rectification** (Art. 16 of the GDPR): if your personal data that We process are incomplete or inaccurate, you have the right to request rectification of such data without undue delay. In order to exercise your right to rectification, contact us at example@email.eu;
- **Erasure** ("right to be forgotten" – Art. 17 of the GDPR): in certain circumstances (e.g. if your data are processed unlawfully or unnecessarily) you may request erasure of your personal data.
- **Restriction of processing** (Art. 18 of the GDPR): in certain circumstances (e.g. if you contest accuracy of your data that we process or lawfulness of the processing) you may request restriction of processing of your data. Such data will not be erased, but in principle can only be processed with your consent;
- **Data portability** (Art. 20 of the GDPR): in certain circumstances, you may request transmission of your data to another controller in a structured, commonly used and machine-readable format;
- **Right to object** (Art. 21 of the GDPR): if you did not consent to the processing, or if it is not necessary to comply with a legal obligation, you may always object to it, in which case We shall no longer process your data.

Moreover, you have the right to:

- **withdraw your consent** to the processing of your personal data at any time (Art. 7(3) of the GDPR) by contacting us at example@email.eu. The withdrawal of consent will not affect the lawfulness of processing based on consent before its withdrawal;
- lodge a **complaint** with a supervisory authority.



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Appendix C – Consent Form Template for Communication and Mailing Lists

Information on Data Processing and Declaration of Consent

Introduction

ATRIUM values your privacy and processes your personal data in compliance with the EU General Data Protection Regulation (GDPR).

Your **Personal Data** is any information related to you. **Processing** is any operation performed on the data.

According to the **Transparency Principle**, this document will provide you with information about the processing of your personal data as required by Art. 12, 13, and 14 of the GDPR.

Who are we and how can you contact us?

Name: Add your name here

Address: Add your address here

E-mail: example@email.eu

acting as the data controller within the meaning of the GDPR.

You can also contact our **Data Protection Officer** at add name here if present at email.

For what purpose do we process your data?

Your data will be processed within the ATRIUM project (hereinafter: the project).

Project description:

We process your data for the following purposes:

- Keeping subscribers informed, community building
- Promoting events, institutions, etc.
- Providing/keeping a mailing list to communicate to subscribers
- Keeping a mailing list to provide a communication platform for subscribers
- Documentation of mailing list activity, statistical analysis

What information about you do we collect and process?

The following types of information about you are collected and processed within the project:

- Name, surname
- E-mail address
- IP address
- Country
- Affiliation
- Professional title / academic status
- Gender
- Social media identifiers
- Other

We obtain this information (apart from your IP address) directly from you when you fill in the respective form. The information the provision of which is mandatory is marked with an asterisk in the attached form. For the remaining information, you are free to decide not to provide it; in this case it will not appear in our communications.

Your IP address is automatically collected when you fill in the online form.

Legal basis for the processing of your data

Your data is processed on the basis of your consent (Art. 6.1(a) of the GDPR) which you give by accepting this notice.

Exceptionally, where consent is not an appropriate legal basis, your personal data can also be processed on the basis of our legitimate interest in carrying out the project, or further research in the field of Digital Humanities. Then, the processing is based on Art. 6.1(f) of the GDPR.

For how long do we keep your data?

Your data will be stored until the end of the funding period or research project 31/03/2028.

Will your data be shared with anyone?

For all purposes listed above, your personal data can be shared with the following partner institutions:

Institution: Enter name of institution here

Country: within the European Economic Area (EEA) (EU member states, Iceland, Liechtenstein, Norway) or in the UK

The information requested will not be made publicly available. It will be used only internally within the ATRIUM project and just for contact purposes, in case we need to clarify doubts or gather more information.

Will your data be transferred outside the European Economic Area (EEA)?

Your data will not be transferred outside the European Economic Area.

No profiling or automated decision-making

Your data will not be used for profiling or automated decision-making purposes.

Your rights with regards to the processing of your data

The GDPR grants you certain rights with regards to the processing of your personal data. These rights include:

- **Access** (Art. 15 of the GDPR): you have the right to obtain confirmation as to whether We have your personal data, as well as information about how We process it. You can also request a copy of your personal data, for which We may charge you a reasonable fee based on administrative costs. In order to exercise your right of access, contact us at info@atrium-research.eu;
- **Rectification** (Art. 16 of the GDPR): if your personal data that We process are incomplete or inaccurate, you have the right to request rectification of such data without undue delay. In order to exercise your right to rectification, contact us at info@atrium-research.eu;
- **Erasure** ("right to be forgotten" – Art. 17 of the GDPR): in certain circumstances (e.g. if your data are processed unlawfully or unnecessarily) you may request erasure of your personal data.
- **Restriction of processing** (Art. 18 of the GDPR): in certain circumstances (e.g. if you contest accuracy of your data that we process or lawfulness of the processing) you may request restriction of processing of your data. Such data will not be erased, but in principle can only be processed with your consent;
- **Data portability** (Art. 20 of the GDPR): in certain circumstances, you may request transmission of your data to another controller in a structured, commonly used and machine-readable format;
- **Right to object** (Art. 21 of the GDPR): if you did not consent to the processing, or if it is not necessary to comply with a legal obligation, you may always object to it, in which case We shall no longer process your data.

Moreover, you have the right to:

- **withdraw your consent** to the processing of your personal data at any time (Art. 7(3) of the GDPR) by contacting us at info@atrium-research.eu. The withdrawal of consent will not affect the lawfulness of processing based on consent before its withdrawal;
- lodge a **complaint** with a supervisory authority.



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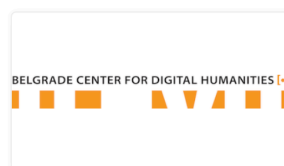
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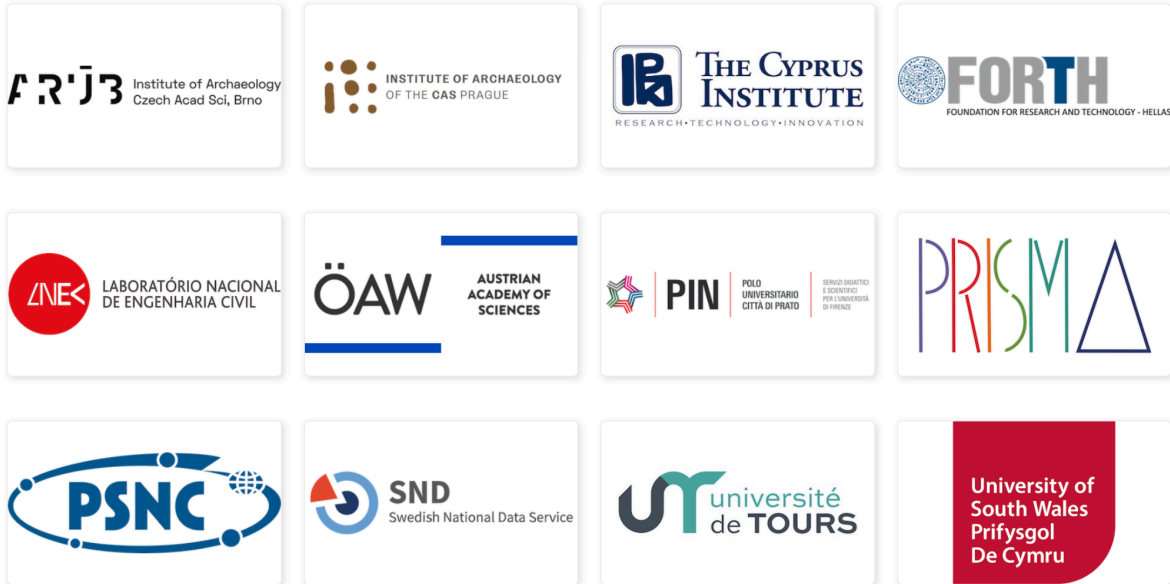
Research Infrastructures



Beneficiaries



Affiliated Entities



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