



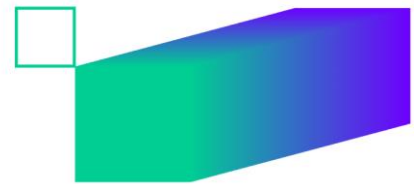
D6.4

Second Data Management Plan

Project Name	Piloting open and responsible Activities and Trainings Towards the Enhancement of Researchers Networks
Project Acronym	PATTERN
Contract No.	101094416
Type of action	HORIZON Coordination and Support Actions
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Topic	HORIZON-WIDERA-2022-ERA-01-44: Developing and piloting training on the practice of open and responsible research and innovation
Start of Project	1 January 2023
Duration	42 months



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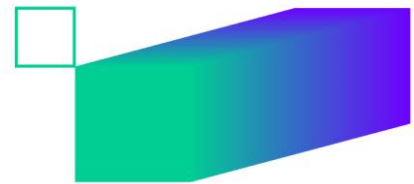


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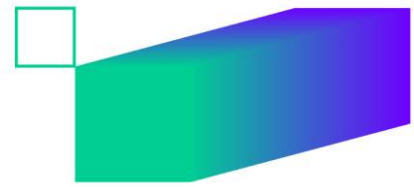
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Revision History

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1.1	10/06/2024	Alessio Livio Spera (APRE)	First Draft of the Second DMP
1.2	25/06/2024	Cristina Lagido (AU), Asya Salnikova (ESF), Adam Brandstetter-Kunc (ESF), Eric Cherel (LPI), Katharina Koller (ZSI), Theodora Kavvadia (OpenAIRE)	Comments from partners
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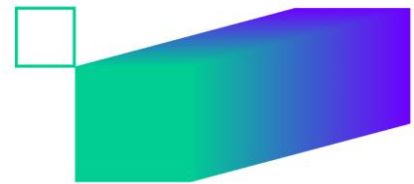
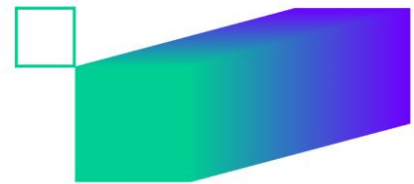


Table of Abbreviations and Acronyms

Abbreviation	Meaning
API	Application Programming Interface
APRE	Agenzia per la Promozione della Ricerca Europea
AU	Aarhus University
CS	Citizen Science
D	Deliverable
DMP	Data Management Plan
ERA	European Research Area
ESF	European Science Foundation
FAIR	Findable, Accessible, Interoperable, Accessible
HEIs	Higher Education Institution
LOBA	Globaz, S.A.
LPI	Learning Planet Institute
M	Month
OA	Open Access
OpenAIRE	OPENAIRE AMKE
PU	Public
RRI	Responsible Research and Innovation
T	Task
WP	Work Package
ZSI	Zentrum für Soziale Innovation

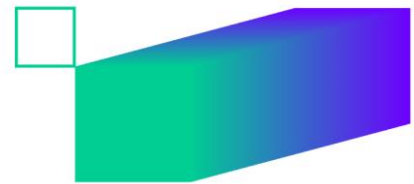


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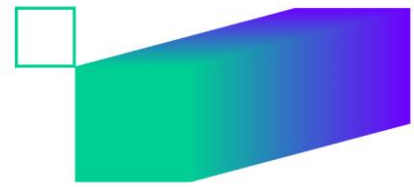
1. Executive Summary

The current document, titled PATTERN Second Data Management Plan has been developed within the framework of the PATTERN project which is funded by the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement No 101094416.

As part of making research data findable, accessible, interoperable and reusable (FAIR), the first version of the Data Management Plan (DMP) provided a summary of the main elements to take into account in the definition of the PATTERN data management policy to be used by project partners throughout the project activities. It provides indications about the management of all the data generated during the project activities, including how data will be collected, managed, stored and made available during the project and how they will be shared upon PATTERN completion.

This deliverable represents an appendix to the first version, describing the datasets generated so far, as well as updates on the data management life cycle for the data to be collected, processed and/or generated by the PATTERN project.

The DMP is a living document that will be updated during the project lifetime according to the project's progresses and rising needs. The next version of PATTERN DMP, due at M36, will give a final update on the procedures applied and will provide more details about the long-term management and preservation of project data.



2. Introduction

2.1 Background: PATTERN project

PATTERN is a coordination and support action whose aim is to promote the practice of Open and Responsible Research and Innovation (Open RRI) by developing and piloting training activities for researchers at all stages of their careers.

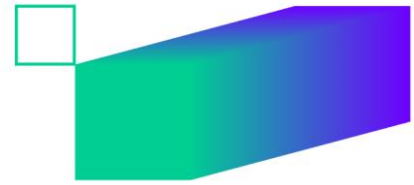
While research institutions and universities have always paid a lot of attention to trainings that build technical and scientific competences of their researchers' workforce, only recently they have better embraced their institutional responsibility in supporting the professional development of researchers beyond academia, by investing resources in offering researchers advanced trainings on more transversal and generic skills (**transferable skills**). PATTERN trainings will strengthen researchers' ORRI transferable skills, with the ultimate goal to empower higher education institutions and research organizations to embrace a transformative process to improve the excellence of the science conducted, the capacity within the European Research Area (ERA) to tackle societal challenges and the interaction between science and society.

PATTERN will focus on defining a set of training materials and activities on transferable skills within the ORRI framework. Eight main transferable skills have been identified: Open Access (OA); FAIR data management; Citizen Science (CS); Research Integrity; Gender, Non-discrimination and Inclusion in research; Dissemination and Exploitation of results; Science communication (towards media and policymakers); Management and Leadership (including Mental Health). For each of them, specific training modules will be developed and tested in 14 Higher Education Institutions (HEIs), namely Pilot Organizations, and made publicly accessible on the PATTERN digital ecosystem (composed of the Projects platform and OpenPlato). Moreover, PATTERN will address authorities responsible for researcher training, presenting evidence-based recommendations on educational policies to empower HEIs in contributing to bridge the gap between science and society.

2.2 Objectives and structure of PATTERN Second DMP

Due to the nature and purpose of this document, which represents an update of an initial version already submitted at M4 (D6.3 First DMP, April 2023), the details and information provided in the previous version remain valid and operative, and won't be repeated in the current document, as well as the commitment of the entire consortium to adhere to what has already been stated, with regards to:

- **PATTERN Data Lifecycle** (including details on the data collection, processing, storage, preservation, and reuse)
- **FAIR Data** (including information on how data have been and will be managed within PATTERN to ensure the application of FAIR principles during the whole project lifetime)
- **PATTERN Datasets** (presenting the initial ones in each WP, including the type of data, aim of data, formats, estimated size and the measures applied to make the datasets FAIR),



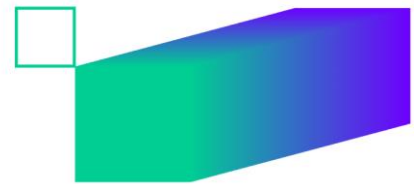
- **Data protection and ethical aspects** (detailing the procedures to ensure the privacy of Participants to PATTERN activities, along with what stated in the dedicated D6.2 PATTERN ethics requirements).

For all the aforementioned points, reference is made in full to the first version of this document.

Considering the above, the current version of PATTERN DMP is meant to represent an actual “2.0” version, rather than a slight revised “1.0” version, and will only focus on the progress of project’s activities as of M18 in terms of data management, by first presenting, where relevant, updates on new data collected (or expected to be collected) or substantial updates in their collection and/or storage, compared to what foreseen at the time of the First DMP, and finally providing an overview of the currently existing datasets produced in the context of project’s activities.

Accordingly, two main chapters will follow, meant to integrate the content of D6.3:

- **Updates compared to the first DMP**
- **PATTERN Datasets**

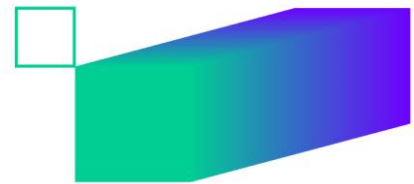


3. Updates compared to the first DMP

The following table provides with updates on substantial changes compared to what indicated in the first version of the DMP, where relevant, with regards to the lifecycles of data per each WP.

Table 1 - Significant changes to WPs' data lifecycles compared to the first DMP

WP	Affected field, aspect, or category	Description
2	Data access	Platform code is now open-sourced under license CC BY-NC 4.0, improving data security and data management transparency
3	Data Collection/Timeline	The development of innovative training curricula and modules is ongoing due to an extended preparation phase and the need for inclusive, fair evaluation tools. Coordinated by thematic leaders and the WP leader, additional time is required for pilot organizations to conduct essential pre-tests. These pre-tests will assess course efficiency, delivery modes, and platform accessibility.
4	Data access	Upon agreement with the consortium, it was decided not to publish policy grids and reports. The list of mapped EU policies was included in the annex of D4.1 together with templates for the analysis.
6	Size of data	Underestimated at M4: especially due to meetings' recording, previous estimation has been reached already. By M42, it's now estimated to be around 60GB
	Data access	A dedicated procedure has been setup for deliverables, to comply with the approval process of the EC while still guaranteeing an early sharing of results. Namely, in agreement with the PO, deliverables are uploaded on Zenodo as soon as they are officially submitted to the EC, with a disclaimer clearly stating that "This version of the document is still under approval of the EC".



4.PATTERN Datasets

According to the procedures, assumptions and estimations set up in the first version of the DMP for each WP, for each Task in which the consortium foresees any kind of data management, the responsible partner is tracking – and will keep tracking throughout the whole project duration – the following information on the data that will be generated or collected: **data summary** (including type, format, size, software used, storage strategy), **data findability** (including identifiers, directory and file naming, keywords for reuse, versioning mechanism, metadata standards), **data accessibility** (including data access, methods or software for the access, restrictions, information retained), **data interoperability** (including vocabularies), **data re-usability** (including data sharing, audience for reuse, period of reusability, licenses), **data security, archiving and preservation** (including security measures, long-term preservation).

After 18 months of project's implementation, 11 datasets can be mapped, reflecting the first plan elaborated at the early stages of the project, and whose key information are summarised in Table 2.

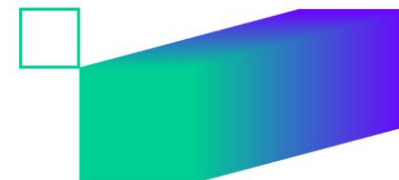
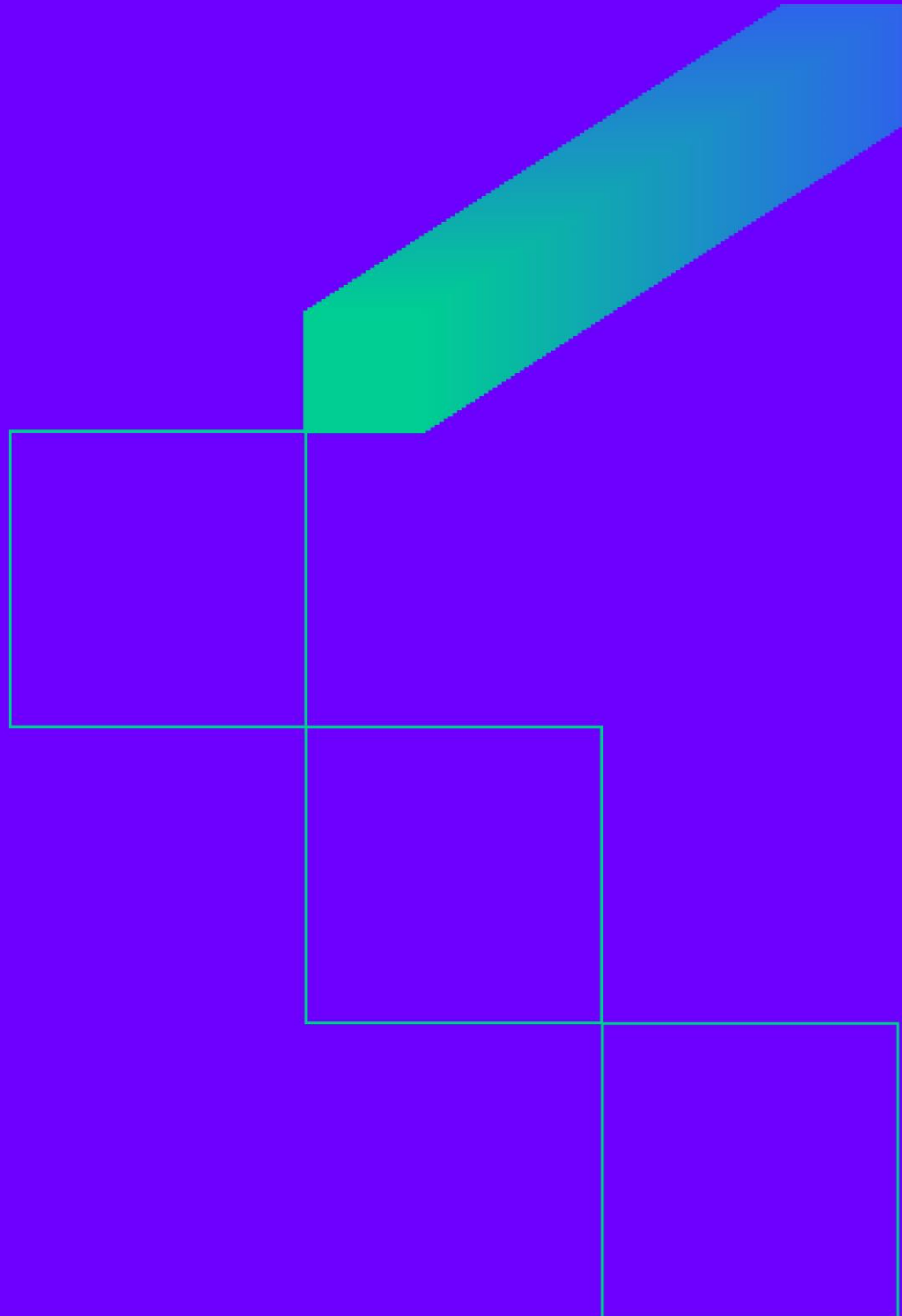


Table 2 - PATTERN datasets summary

DATASET NAME	PARTNER	SOURCE	SIZE	TASK	ACCESSIBILITY
Trainings_mapping	AU	Existing, generated	650KB	T1.1, T1.3	Integrated into D1.1 (dissemination level: PU) and also to be submitted for publication at the end of 2024
MLEs	ZSI/AU	Generated	2.5 GB	T1.2	Aggregated information is provided in D1.1 (dissemination level: PU) to protect participants' personal information.
Training_modules	OpenAIRE /LPI	Generated		T2.1	All training materials will be digitized and available on the project's website for open access. Users can access materials via the website or digital Ecosystem, organized by relevant categories.
Platform	LPI	User generated	80Mo	T2.2, T2.3	Accessible through APIs, visibility controlled by data owner
Training_plans	OpenAIRE			T3.1	Provided in detailed description via D3.1 (dissemination level: PU).
Piloting	OpenAIRE			T3.2	The ongoing process is provided through monitoring tools.
Evaluation_facilitat or_reflection	ZSI/ AU	Generated	4KB	T3.3	Responses to the template for facilitators may not be anonymous and will not be uploaded to a data repository. Aggregated information will be provided in T3.3 deliverables (D3.3, D3.4)
Evaluation_particip ant_questionnaire	ZSI/AU	Generated	23 KB	T3.3	All responses to the anonymous evaluation questionnaire will be uploaded to Zenodo by the end of T3.3 as a .csv file.
Policy_mapping	ESF	Existing		T4.1	Restricted to consortium
Dissemination	LOBA	Generated	700MB	T5.1	Templates and source files are restricted to consortium; all other materials (posters, booklets, infographics, presentations, etc.) are publicly available for communication and dissemination purposes
Management	APRE	Generated	20.5 GB	T6.1, T6.2, T6.3	Restricted to consortium

PATTERN.

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