

EOSC EDEN

Enhancing Digital preservation strategies at
European and National level

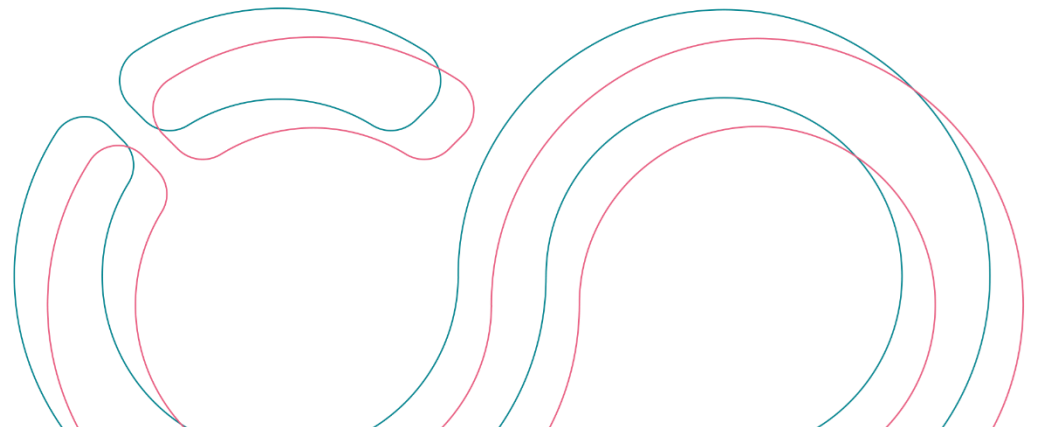
Presenter: Roxanne Wyns

5 November 2025



**Funded by
the European Union**

Grant agreement 101188015



EOSC EDEN Key Facts

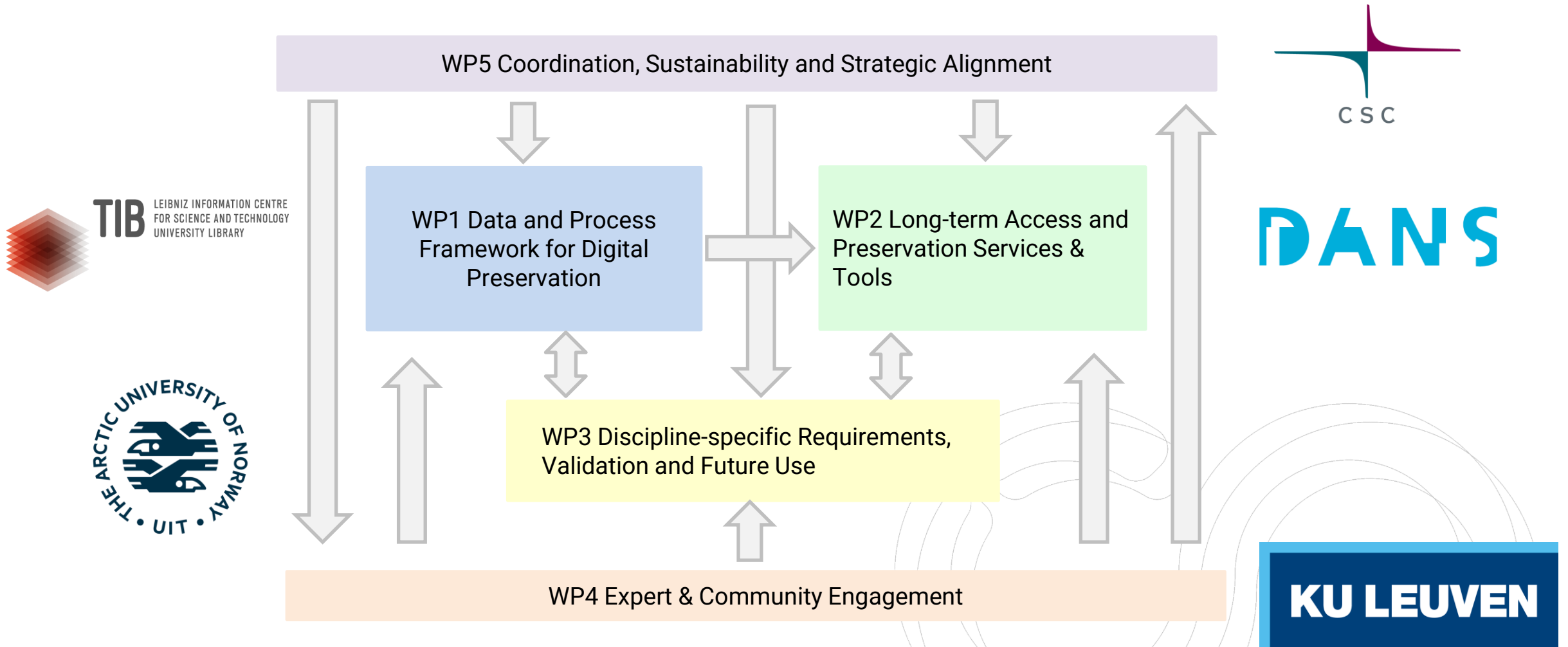
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|------------------------------------|--|
| Project full title: | EOSC EDEN - Enhancing Digital preservation strategies at the European and National level |
| Funding: | Horizon Europe, Grant agreement ID: 101188015 |
| Project type: | Research and Innovation Action (RIA) |
| Budget: | 8M € |
| Coordinator: | CSC – IT Center for Science, Finland |
| Project start and end date: | 1 Jan 2025 - 31 Dec 2027 |



EOSC EDEN Objectives

- **Objective 1:** To establish a general **framework and practices** to support the creation of curation, digital preservation, and access strategies in Europe
- **Objective 2:** To **enrich EOSC with tools** to store and access digital data for long periods, automate and federate certain specialised curation and preservation tasks
- **Objective 3:** To increase **adoption** of curation, digital preservation and access practices within different **scientific disciplines**
- **Objective 4:** To boost the **data curation and quality in Europe**
- **Objective 5:** To identify and consolidate a **network of repositories and archives for digital preservation** within EOSC in collaboration with the FIDELIS project (HORIZON-INFRA-2024-EOSC-01-03)

Project Structure and Work Packages

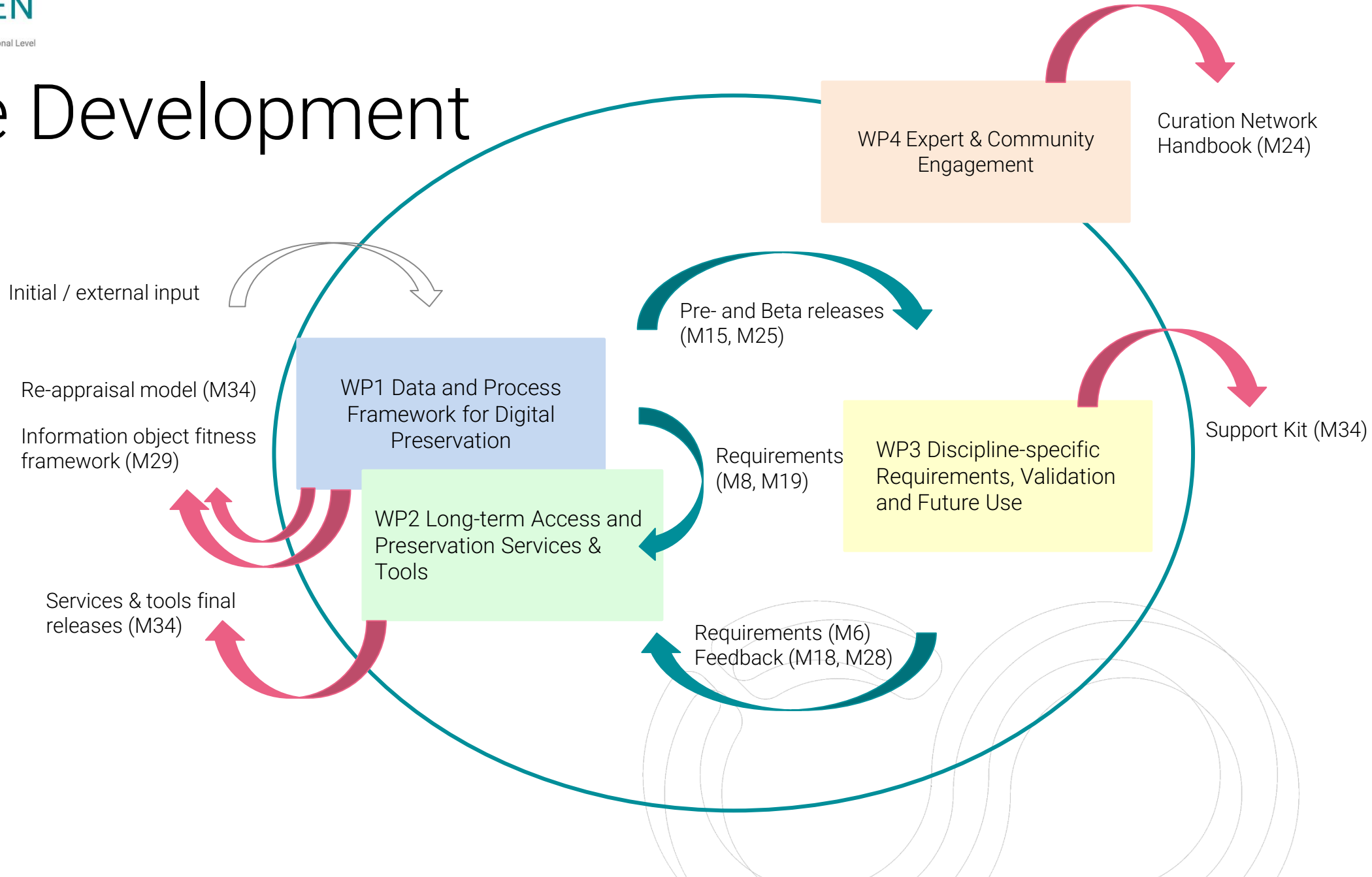


Iterative Development

Year 1
 M1 Jan 2025
 M6 Jun 2025
 M12 Dec 2025

Year 2
 M13 Jan 2026
 M18 Jun 2026
 M24 Dec 2026

Year 3
 M25 Jan 2027
 M30 Jun 2027
 M36 Dec 2027



EOSC EDEN

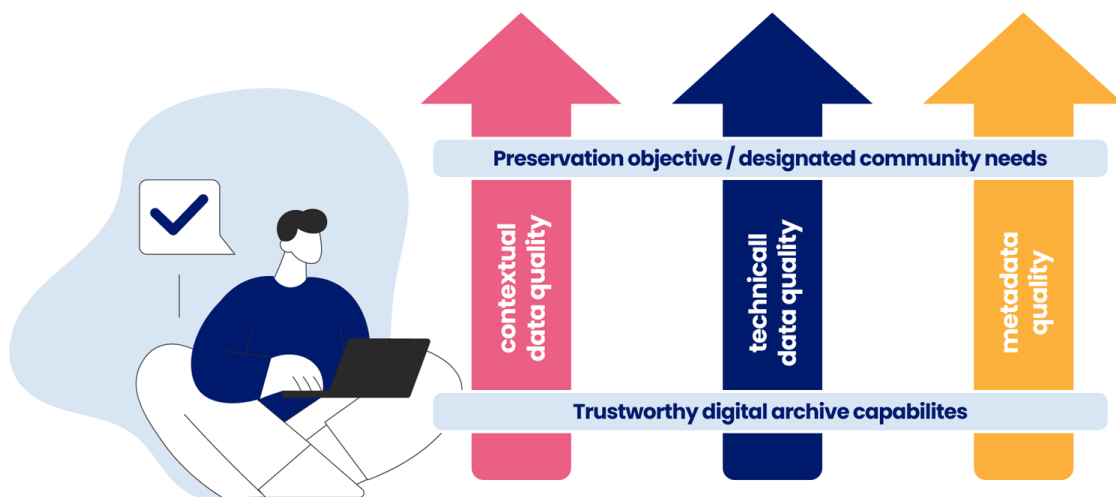
Work Packages and Key Output



Funded by
the European Union



WP1 Data and Process Framework for Digital Preservation



Develops processes as requirements for implementation (WP2) and community adoption (WP3, WP4)



Existing practices for identification, selection and appraisal of data for digital preservation



Requirements in digital preservation processes for **re-use fitness** of digital objects



Framework to identify candidates to digital preservation based on use, benefit and quality



Model for re-appraisal points along data lifecycle

Core Preservation Processes

A Core Preservation Process (CPP) is a specific action that every Trustworthy Digital Archive should undertake adequately - either directly or through its associated parties or services, in order to fulfil its digital preservation missions as evidenced in its preservation policy.

Visualisation tool for CPP relationships:

<https://cpp.fd-dev.csc.fi/>

For more information: <https://eden-fidelis.eu/core-preservation-processes>

Leave your feedback via the [GitHub repository](#) or [webform](#).



Visualisation tool for CPP relationships: <https://cpp.fd-dev.csc.fi/>

Classification: Logical/Strategic ▾

View: Graph ▾

- Select All Deselect All Preservation Planning Dissemination Bit-level Preservation Generation of New Files Other Activities Lifecycle Management Characterisation

Category Source Relations Only

Select All Deselect All

Total Visible: 513

Procedural

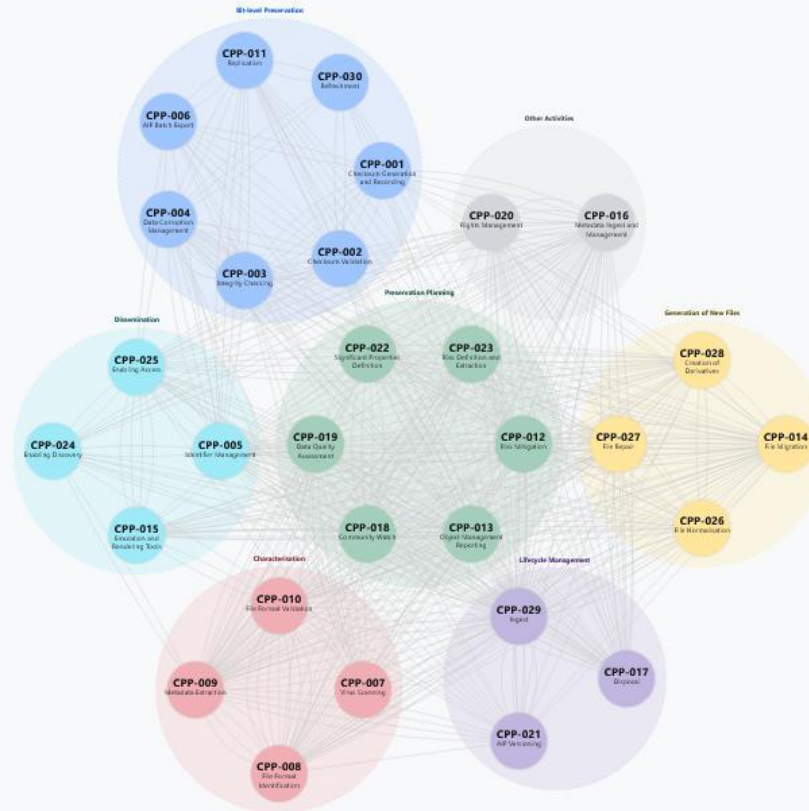
- Triggered By (85) Triggers (8)
 Supplier (91) Customer (67)
 Alternative To (2)

Dependencies

- Requires (84) Required By (80)
 May Require (16) May Be Req. By (16)

Logical

- Affects (2) Affected By (2)
 Facilitates (3) Facilitated By (3)
 Affinity (36)
 Not to be confused with (18)



Visualisation tool for CPP relationships: <https://cpp.fd-dev.csc.fi/>

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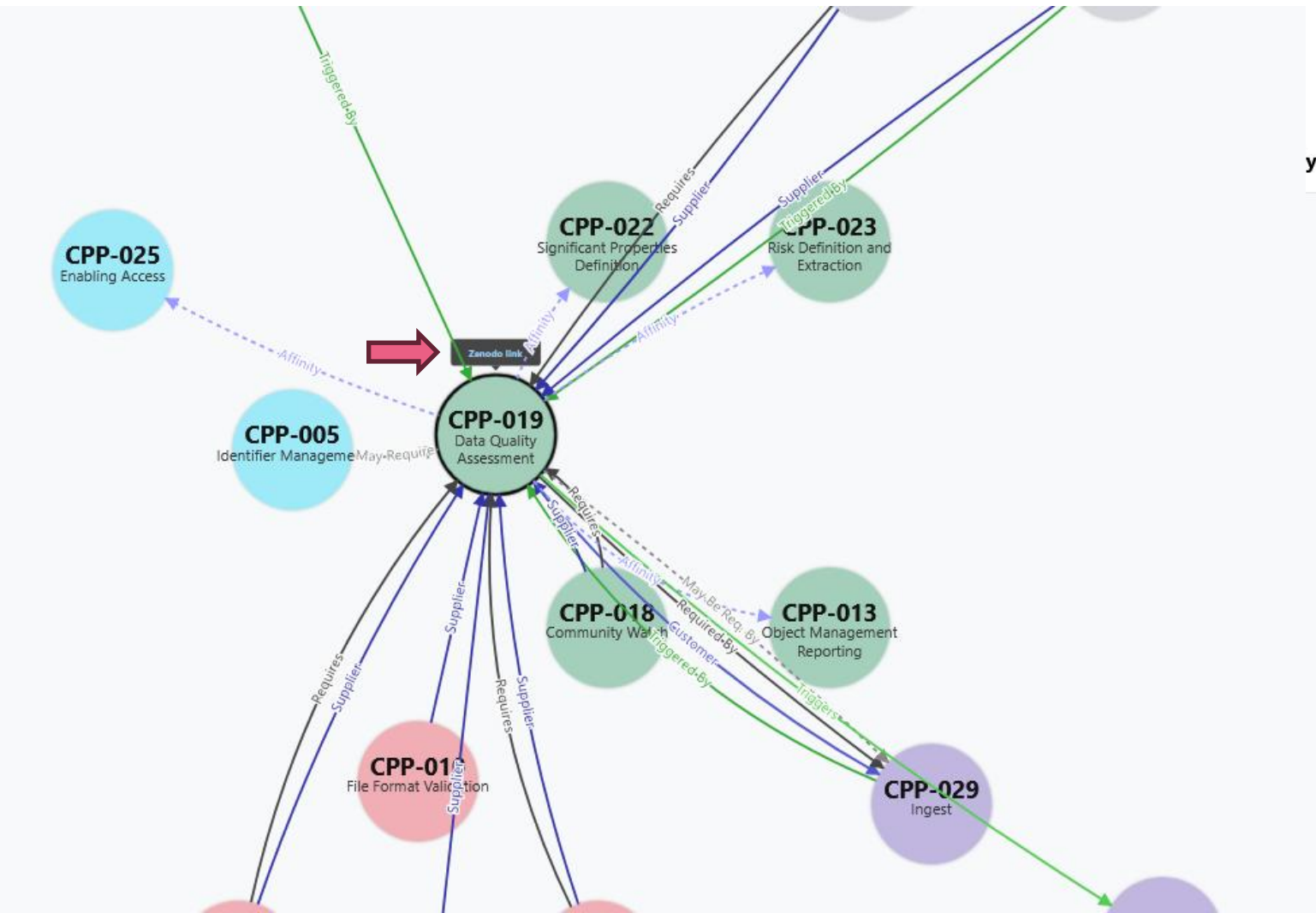
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CPPs are described as a sequence of implementable steps, either by humans or by automation.

Definition and scope

Data Quality Assessment refers to the systematic evaluation of *Objects* and their associated *Metadata* against predefined measures to ensure they meet the standards necessary for consumers' needs and continued access. The assessment typically covers several key dimensions, some of these are for example:

- *Authenticity*: The *Object* is what it purports to be (i.e. it has been created, modified and sent by the person purported to have done it at the date and time purported). The designated community must be able to trust that the data is real and credible and is managed by a trustworthy TDA. Sufficient information must exist to understand the *Object's* creation circumstances, provenance, and relationship to other content. In addition to integrity checks, the authenticity of the data is ensured by controlled changes through preservation actions and the *Provenance metadata*.

- *Completeness*: The *Object* and the *Metadata* are complete. They do not have missing parts or links to targets outside the preserved *Object* which should remain accessible.
- *Consistency*: The *Object* is presented in applicable file formats or *Representations* with applicable metadata formats. Conflicting values in the *Metadata* should be avoided.
- *Relevance*: The data preservation is based on a predefined collection development policy (i.e. has a purpose of being preserved).
- *Structured*: The structure of the *Object* is described in the *Metadata*. Complex *Objects* are organised, including relationships between *Files*, proper sequencing of multi-part *Objects*, and the integrity of any embedded *Metadata* or links.
- *Understandability*: The information is understandable and meaningful for the designated community.
- *Validity*: The *Object* and *Metadata* are valid against the *File* and metadata format specifications and standards, and comply with all other predefined profiles and rules.

Step-by-step description

| No | Supplier | Input | Steps | Output | Customer |
|----|---------------------------|---|--|--|----------|
| 1 | CPP-018 (Community Watch) | Preservation objectives | Based on preservation intent as defined by Community Watch, derive quality properties that will be extracted by other CPPs | Quality properties | |
| 2 | | Quality properties | The TDA receives a defined set of quality properties and determines what data is required to create a quality assessment report. This triggers steps 3 to 8) | Specification of the data required for the assessment. | |
| 3 | CPP-008 (File Format) | Specification of the data required for the assessment | If quality properties concern file formats: | Technical quality report | |

| | | | | | |
|---|----------------------------------|---|---|--------------------------|--|
| | Identification) | File | Assess the file format against the preferred formats policy | | |
| | | File format identifier | | | |
| | | Format policy - preferred formats | | | |
| 4 | CPP-010 (File Format Validation) | Specification of the data required for the assessment | If quality properties concern the validity of formats: Assess the validity status. | Technical quality report | |
| | | File | | | |
| | | Validity status | | | |

Webinar on CPPs on 1/12/2025



 | EDEN

Exploring Core Preservation Processes (CPPs)
Join the 1st EOSC EDEN Seminar!

01 Dec 2025
11:00-12:00 CET

[Register now](#)

EDEN

What every Trustworthy Digital Archive should be doing: 30 Core Preservation Process Descriptions

Exploring Core Preservation Processes (CPPs) - Join the 1st EOSC EDEN Seminar...

1 December 2025

[Read more](#) 

Funded by the European Union

Registration: <https://eden-fidelis.eu/form/eosc-eden-exploring-core-preserv>



WP2 Long-term Access and Preservation Services & Tools



Delivers reference implementations and supporting tools to integrate repositories and services into the EOSC Federation



Registry of digital preservation services and tools



Publish machine-interoperable services for curation and preservation actions

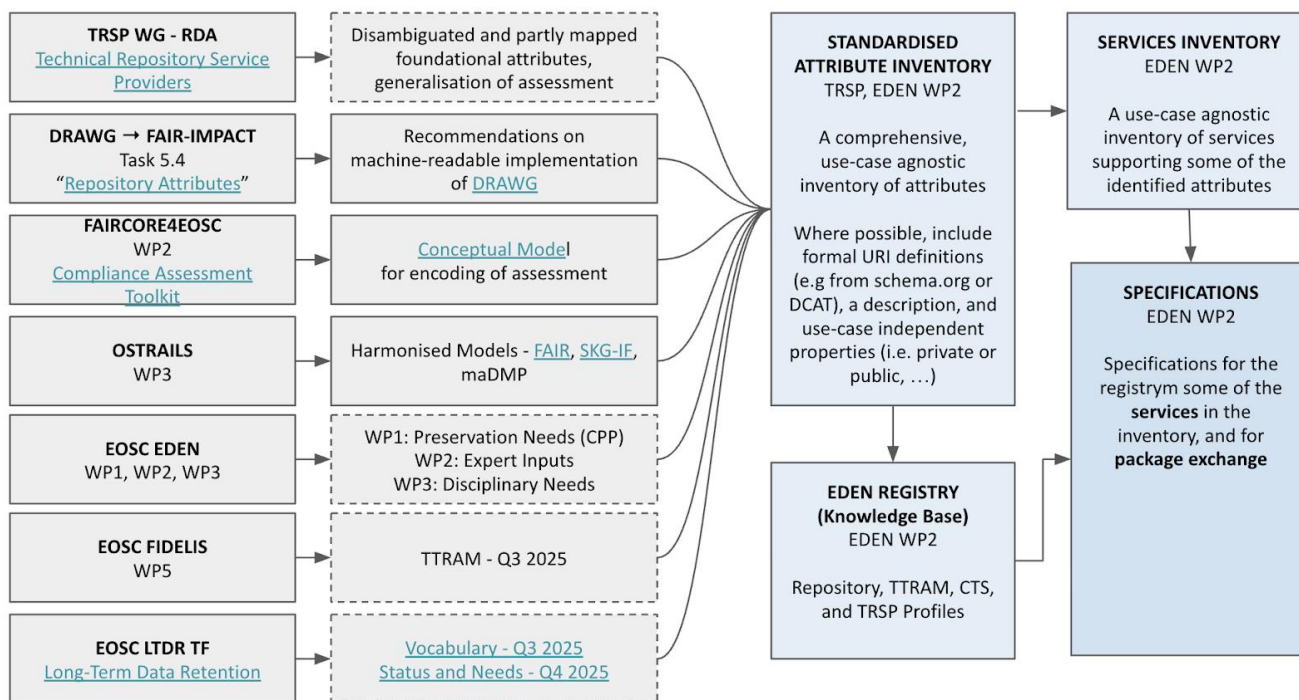


Identify standards and protocols for submit and exchange Information packages



Use case implementation and testing of services and tools

Specifications and architecture for long-term access and preservation services



Overview of WP2 Methodology

- Interoperability
- Quality assurance of research outputs
- Rights & Ethics
- Services
- Attributes
- Requirements
- Specifications

For more information: <https://zenodo.org/records/17232536>

WP3 Discipline-specific Requirements, Validation and Future Use



Links the project to discipline and data-type specific needs and requirements



Iteratively provide discipline-specific, and cross-disciplinary / data type-specific requirements for digital preservation and data quality to WP1 and WP2



Validate and enhance the new digital preservation framework (WP1) and tools (WP2) via pilot testing



Provide a support-kit to empower discipline and data type-oriented communities to adopt, extend and use the new digital preservation framework (WP1) and fit-for-purpose tools (WP2)

Discipline Requirements and Needs

Applied several methods including:

- *desk-based mapping*
- *stand-alone interviews*
- *survey*

The main results is organized in 5 main components of the Re-use Fitness model:

- Contextual Data Quality
- Technical Data Quality
- Metadata Quality
- Trustworthy Digital Archive Capabilities
- Preservation Objective/Designated Community Needs.



Social Sciences



UK Data Service



Earth & Environmental Sciences



Universität Bremen



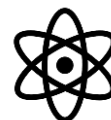
Food Sciences



Climate Simulations



DKRZ
DEUTSCHES
KLIMARECHENZENTRUM



High-Energy Physics



Life Sciences and Bioinformatics



Swiss Institute of Bioinformatics



Linguistics



For more information: <https://zenodo.org/records/15789261>

WP4 Expert & Community Engagement



Support the other WPs in effectively engaging with communities and experts



Gather input and feedback during the development, testing and validation cycles



Increase awareness, knowledge and uptake of digital preservation actions and processes in the EOSC ecosystem



Identify and consolidate a network of service providers

European Expert Curation and Digital Preservation Network

The EOSC EDEN Project will establish a **European Expert Curation and Digital Preservation Network** with representation from organisations, repositories (both generalist and specialist), collections, catalogues, and at various digital object type levels.

During the EOSC EDEN project, two curation network events will be organised for intensive learning and discussions with curation and digital preservation specialists.



For more information on the 1st workshop in Leuven, Belgium:

<https://eden-fidelis.eu/blog/1st-eosc-eden-curation-workshop-leuven-belgium-gathering-experts-build-european-curation-and>

WP5 Coordination, Sustainability and Strategic Alignment



Project coordination and management incl. content work, finance & administration



Liaison with the External Advisory Board



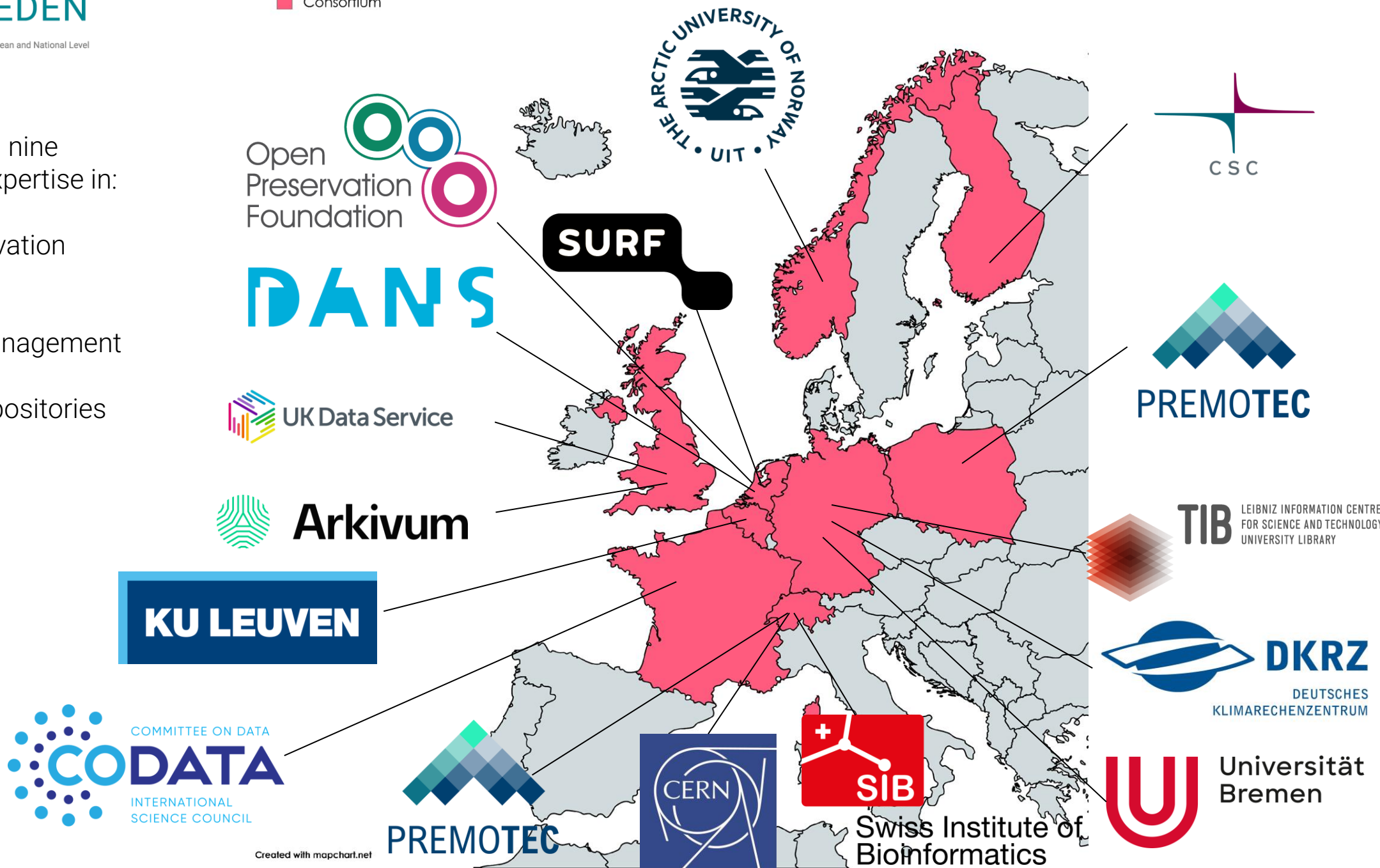
Strategic alignment with the EOSC Partnership and other relevant strategic initiatives



Sustainability and exploitation of the project results

16 partners from nine countries with expertise in:

- digital preservation
- data quality
- curation
- FAIR data management and services
- hosting of repositories and archives





eden-fidelis.eu



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[@eosc-eden.bsky.social](https://eden-fidelis.eu)



[@EOSC-EDEN](https://eden-fidelis.eu)



<https://eden-fidelis.eu/#newsletter>



[github.com/EOSC-EDEN](https://eden-fidelis.eu)



[EOSC EDEN Zenodo Community](https://eden-fidelis.eu)

#EOSCEDEN



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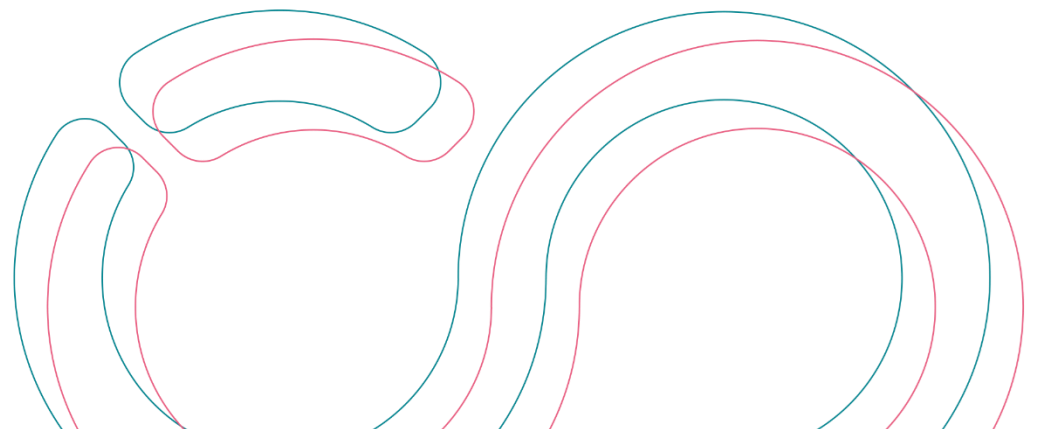
Read more →

Registration: <https://eden-fidelis.eu/form/eosc-eden-exploring-core-preserv>

Thank You



FIDELIS, towards a network of TDRs



FIDELIS the Project

| | |
|--------------------|--|
| Project full title | FIDELIS: Establishing A European Network of Trustworthy Digital Repositories |
| Acronym | FIDELIS |
| Call identifier | HORIZON-INFRA-2024-EOSC-01-03 |
| Type of action | Coordination and Support Action (CSA) |
| Coordinator | CSC - IT Centre for Science |

In June 2022, a group of renowned European repository owners and infrastructure providers published a working paper titled *Towards a European network of FAIR-enabling Trustworthy Digital Repositories (TDRs)*, articulating a shared community vision to launch “a European network of FAIR-enabling Trustworthy Digital Repositories which will support the development and growth of TDRs”¹.

The paper, which received broad input from the community and was endorsed by the EOSC Task Force on Long-Term Data Preservation, argues that such a network “can unite the repository community beyond finite project efforts, and offer a coordination and networking mechanism for addressing common challenges, like the need for long-term sustainability resources.”

The FIDELIS project aims to further develop and implement the vision set by the community in this paper and establish, by the end of a three-year project, a healthy, vibrant and self-sustaining network of TDRs

Project Consortium

Coordinator



CLARIN



Swiss Institute of Bioinformatics



UNIVERSITÀ
DEGLI STUDI
DI PADOVA



FIDELIS: help us shape a future-proof
network!



Tour de table



- Which repository do you represent?
- Would your organisation consider to join the network?
- What are your expectations of the network?
 - useful topics for the network to discuss

 | Blue-Cloud2026

Any questions?

5-6 November 2025, Brussels [Belgium]



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