

FIDELIS Repository Landscape Survey

Fields marked with * are mandatory.

Thank you for participating in the FIDELIS Landscape Survey!

[The FIDELIS project](#) is funded by the European Commission to work towards establishing a European network of FAIR-enabling Trustworthy Digital Repositories (TDRs). Over its three-year duration, FIDELIS will set up, develop and operate a European network of trustworthy repositories that will: support the development and growth of TDRs within the EOSC ecosystem; foster harmonisation and interoperability across repositories to enable an EOSC federation of TDRs; and strengthen the upskilling of repositories and expand the network through an active training and support programme.

This survey aims to contribute to our understanding of the current needs of repositories in specific areas. The results will inform different parts of the project, guiding efforts in providing harmonisation, training, and support.

Repositories come in many different forms. For the purpose of this survey, we use the term “repository” to encompass all services that manage research objects (data, software, literature, or other), regardless of whether they are labelled as a repository, archive, e-depot, or anything else. Other data service providers and registries are also welcome to participate in the survey, though some questions may be less relevant to your organisation, operations, and needs. You will be able to indicate your repository type and primary content type(s) in the survey. While the FIDELIS project primarily focuses on Europe, repositories outside Europe are welcome to participate.

The survey consists of a core set of questions, with optional supplementary questions for those who wish to provide additional information. When you indicate willingness to answer additional questions, you are not obliged to answer all questions. The core questions are estimated to take around 20 minutes, with the whole survey taking approximately 40 minutes if all additional questions are also answered. Because of the inclusion of open ended questions, the true duration of the survey will vary largely between people.

As this survey focuses on identifying needs, you may respond from your personal perspective. Please invite your colleagues to also respond to the survey so we can gather as much input as possible from respondents with different expertise areas and responsibilities.

Participation in this survey is voluntary. You may choose not to participate, not to answer certain questions, or end your participation prior to submitting the survey without any negative consequences.

What do we do with your data?

The results of this survey will be analysed and reported. These reports and the dataset will be made available for public reuse under a [CC-BY licence](#). Individually identifiable characteristics will be removed from the dataset before publishing (i.e. 'e-mail address' and 'role in the repository'), but FIDELIS will remain in possession of the non-anonymised dataset throughout the duration of the project. The repository represented in the survey will not be anonymised. EU Survey has been set to 'anonymous mode' and will not collect any additional personal data.

FIDELIS works closely with its sister project, [EOSC EDEN](#). EOSC EDEN will develop user-centric tools, services and standards to support the establishment of a European distributed infrastructure for long-term preservation, curation and access. With a somewhat different, but related scope, EOSC EDEN aims to learn more about the current landscape and its needs. With your consent, which you can separately indicate below, we will share your non-anonymised data and contact information with EOSC EDEN so they can contact you for follow-up questions or further information collection (e.g. interviews).

FIDELIS and EOSC EDEN have just recently started. A joint website for both projects is under development. It will serve as the central hub where you will be able to learn about the projects' activities, find all outputs, sign up for the newsletter and join all training and support activities. With your consent, which you can separately indicate below, we will contact you directly once the website is live so you can register and follow our progress.

☐ I consent to participating in this survey, understanding that pseudonymised data (not personally identified but identified at the repository level) will be made publicly available for reuse.

Thank you for participating in this survey. If you have any questions or concerns, please contact maaike.verburg@dans.knaw.nl.

Please indicate your additional consent

- ☐ I consent to my non-anonymised data (i.e. including contact information and role at the repository) being shared with the EOSC EDEN project for potential follow-up information gathering.
- ☐ I consent to my contact information being used to invite me to register for the FIDELIS and EOSC EDEN website once it is live.

* Please provide your email address here:

Repository characteristics

These initial questions gather contextual information about the repository to enable meaningful analysis of the results.

*** What is the name of the repository you represent?**

If you represent multiple repositories, please choose one to focus on in the survey. You may retake the survey to represent another repository.

*** What is your role in the repository?**

If your job covers multiple roles, please select all that apply to you.

- ☐ Repository manager
- ☐ System developer/engineer
- ☐ Curator
- ☐ Legal (advisor, officer, etc.)
- ☐ Policy advisor
- ☐ Communications officer
- ☐ Collection manager
- ☐ Board member
- ☐ Other

* Other, namely:

*** In which country is your repository located?**

If your repository is related to multiple countries, select the country where headquarters are located.

- ☐ Albania
- ☐ Andorra
- ☐ Austria
- ☐ Belarus
- ☐ Belgium
- ☐ Bosnia and Herzegovina
- ☐ Bulgaria
- ☐ Croatia
- ☐ Cyprus
- ☐ Czech Republic
- ☐ Denmark
- ☐ Estonia
- ☐ Finland
- ☐ France
- ☐ Germany
- ☐ Greece
- ☐ Hungary
- ☐ Iceland
- ☐ Republic of Ireland
- ☐ Italy
- ☐ Latvia
- ☐ Liechtenstein
- ☐ Lithuania
- ☐ Luxembourg
- ☐ Malta
- ☐ Moldova
- ☐ Monaco
- ☐ Montenegro
- ☐ Netherlands

- ☐ North Macedonia
- ☐ Norway
- ☐ Poland
- ☐ Portugal
- ☐ Romania
- ☐ San Marino
- ☐ Serbia
- ☐ Slovakia
- ☐ Slovenia
- ☐ Spain
- ☐ Sweden
- ☐ Switzerland
- ☐ Turkey
- ☐ Ukraine
- ☐ United Kingdom
- ☐ Other

* Other, namely:

* Please provide the link to your repository's website.

Please provide all persistent identifier(s) your repository can be identified by.

For each persistent identifier schema your repository is registered with, please provide the identifier. If your repository does not use a certain identifier, you can leave it empty.

Research Organization Registry (ROR):

Re3data identifier:

FAIRsharing DOI:

Other(s):

* Which type best describes your repository?

- ☐ Institutional research data repository
- ☐

- ☐ Publisher's research data repository (owned by a publisher)
- ☐ Public research data repository (e.g. library, museum, archive)
- ☐ National research data repository (primarily holds objects from one specific country)
- ☐ Commercial research data repository
- ☐ Research project's data repository (created for a specific research project)
- ☐ The repository does not hold research data
- ☐ Other
- ☐ Do not know/cannot answer

* Other, namely:

*** Is your repository domain-specific or generalist?**

Select domain-specific if your repository offers specialist services for one or more scientific domains.

Select general-purpose if your repository offers services that are not tailored to a repository.

Choose the description that best describes your repository.

- ☐ Discipline-specific
- ☐ Generalist

*** Which domain(s) does your repository serve?**

Select all that apply.

- ☐ Natural Sciences
- ☐ Humanities
- ☐ Agricultural Sciences
- ☐ Social Sciences
- ☐ Medical and Health Sciences
- ☐ Engineering and Technology

Which communit(y/ies) is your repository a part of?

Select all applicable.

- ☐ ACTRIS ERIC
- ☐ AnaEE-ERIC
- ☐ BBMRI-ERIC
- ☐ CERIC-ERIC
- ☐ CESSDA ERIC
- ☐ CLARIN ERIC
- ☐ COAR
- ☐ CTAO ERIC
- ☐ DARIAH ERIC
- ☐ EATRIS-ERIC
- ☐ ECCSEL ERIC
- ☐ ECRIN-ERIC
- ☐ EHRI-ERIC
- ☐ ELI ERIC
- ☐ ELIXIR
- ☐ EMBRC

- ☐ EMSO ERIC
- ☐ EPOS ERIC
- ☐ ESS ERIC
- ☐ EU-OPENSOURCE
- ☐ EU-SOLARIS ERIC
- ☐ Euro-Argo ERIC
- ☐ Euro-BioImaging ERIC
- ☐ European Spallation Source-ERIC
- ☐ ICOS ERIC
- ☐ INFRAFRONTIER ERIC
- ☐ INSTRUCT ERIC
- ☐ JIV-ERIC
- ☐ LifeWatch ERIC
- ☐ LOFAR ERIC
- ☐ MIRRI-ERIC
- ☐ RDA
- ☐ SHARE-ERIC
- ☐ Software Heritage Community
- ☐ Other

*** Other, namely:**

Please include all other communities your repository is a part of that were not listed in the previous question. You can also include national, thematic, or local communities.

*** What is the legal status of your repository?**

Legal status refers to the official recognition and authorization granted by a government to an individual or group, determining their rights and privileges within a particular country. ([ScienceDirect](#))

Select the legal status that best describes your repository, or add your legal status by selecting 'other'.

- ☐ The community is an informal body without having chosen a legal form.
- ☐ Agreement: The community is based on an agreement or formal contract.
- ☐ Association: The community is a "Verein" or another type of "club" with legal status.
- ☐ Consortium: The community is based on a consortium agreement.
- ☐ Foundation: The community is a foundation.
- ☐ Project
- ☐ Government body
- ☐ Extension of a parent organisation
- ☐ Part of a Research Performing Organisation (e.g. university)
- ☐ I do not know / cannot answer
- ☐ Other

*** Other, namely:**

*** What is/are the primary content type(s) in your repository holdings?**

Select all applicable.

- ☐ Data
- ☐ Software/Code
- ☐ Literature (articles, books, dissertations, conference proceedings, etc.)
- ☐ Other

* Other, namely:

Please provide a description of your repository holdings.

For example “Mainly datasets produced in social science survey research” or “All research outputs produced in country X”

What levels of retention, curation, and preservation does your repository provide?

For each level, please indicate the status that most accurately fits the situation of your repository.

	Unsure	No	Planned	In implementation	Implemented
* As deposited - Digital object content and supporting metadata are distributed to users exactly as they are provided by depositors.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Deposit compliance - Digital object content and supporting metadata deposited are checked for compliance with defined criteria, e.g. digital object formats, metadata elements, and compliance with legal and ethical norms.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Initial curation - The digital objects are curated by your repository to meet defined criteria, which may exceed those defined for Deposit Compliance.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Active preservation - In addition to Deposit Compliance and Initial Curation, your repository takes long-term responsibility for ensuring that the digital objects and metadata can be understood and rendered as required by the designated community for reuse.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What levels of retention, curation and preservation (other than the ones listed above) has your repository implemented or is implementing?

*** How long has your repository existed in its current form?**

- ☐ My repository is still in its planning/development stage
- ☐ Less than a year
- ☐ 1–2 years
- ☐ 3–5 years
- ☐ 6–10 years
- ☐ 11–20 years
- ☐ 20 or more years
- ☐ Do not know/cannot answer

What formal certification(s) does your repository have?

You will be able to mention other certifications in the next question if you consider them missing here.

	Do not have, not interested in	Do not have, interested in	In progress of achieving	Certified	Expired, not renewing	Expired, in process of renewing	Do not know /unsure
CoreTrustSeal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nestor Seal (DIN 31644)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ISO 16363	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ISO 27001	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What other certification(s) does your repository have, or are relevant for your repository to achieve?

For example community-specific frameworks, informal certifications/seals/schemas, or certifications related to other topics.

Activities and functions

FIDELIS will work towards improved harmonisation of repositories. The following section includes questions to identify gaps and needs in particular areas, services, activities, and functions where FIDELIS can provide recommendations and support.

This section will contain questions on three different topics: Digital Object Management, Organisational Infrastructure, and Technology and Security. Each topic will have some core questions and the possibility to answer additional questions.

Digital Object Management

The digital object management of repositories covers activities and functions carried out throughout the lifecycle of a digital object, beginning when the object is first deposited into the repository. These include, among others, appraisal and curation measures, activities to enable discovery, persistent identification, access and reuse of digital objects as well as digital preservation measures.

To what extent does your repository face challenges and needs in terms of digital object management activities and functions?

	No challenges	Minor challenges	Moderate challenges	Significant challenges	Critical challenges
* Deposit & Appraisal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Curation, Quality & Compliance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Discovery & Identification	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Access	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Interoperability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Preservation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Provenance & Authenticity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* User Support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What are the major challenges and needs your repository faces in terms of digital object management?

*** These were the core questions on digital object management. Would you like to answer some additional questions or continue to the next part of the survey?**

Answering the additional questions will take approximately 5 minutes more.

When you indicate willingness to answer additional questions, you are not obliged to answer all additional questions.

- ☐ Yes, I would like to answer some more questions on digital object management
- ☐ No thank you, I would like to continue to the next section

On what platforms/software does your repository operate?

Select all applicable.

- ☐ Archivematica
- ☐ arXiv
- ☐ AsPredicted
- ☐ AtoM
- ☐ bioRxiv
- ☐ Bitbucket
- ☐ CKAN
- ☐ ClinicalTrials.gov
- ☐ Dataverse
- ☐ DigitalCommons
- ☐ Djehuty
- ☐ Dryad
- ☐ DSpace
- ☐ EPrints
- ☐ EThOS (Electronic Theses Online Service)
- ☐ FAIRDOMHub
- ☐ Fedora
- ☐ Figshare
- ☐ Galaxy
- ☐ GitHub
- ☐ GitLab
- ☐ Haplo
- ☐ Hydra
- ☐ Invenio
- ☐ Islandora
- ☐ Janeway
- ☐ myExperiment
- ☐ OJS (Open Journal Systems)
- ☐ OMP (Open Monograph Press)
- ☐ Open Science Framework (OSF)
- ☐ Preservica
- ☐ ProQuest Dissertations & Theses Global
- ☐ PROSPERO
- ☐ Protocols.io
- ☐ Rosetta

- ☐ WorkflowHub
- ☐ Zenodo
- ☐ Other

* Other, namely:

What technologies or services do you use to deploy the platform/software on which your repository operates?

- ☐ Unsure
- ☐ Not relevant
- ☐ On-premises deployment on traditional servers, managed within the infrastructure of your repository, host institution(s) or partner institution(s)
- ☐ Cloud deployment, hosted and managed within the infrastructure of your repository, host institution(s) or partner institution(s)
- ☐ Cloud deployment, hosted and managed by a third-party provider
- ☐ Software as a Service (SaaS) solution, hosted and managed by a third-party provider
- ☐ Hybrid deployment, a combination of on-premises and cloud-based solutions
- ☐ Other

* Other, namely:

Does your repository use persistent identifiers (PIDs) for digital objects or metadata elements?

Previously, we asked about the persistent identifiers your repository can be identified by. This question asks about persistent identifiers that can be applied to digital objects or metadata elements in your repository.

- ☐ Unsure
- ☐ No
- ☐ Planned
- ☐ In implementation
- ☐ Implemented

Which Persistent Identifiers (PIDs) has your repository implemented or is implementing?

Select all applicable.

Previously, we asked about the persistent identifiers your repository can be identified by. This question asks about persistent identifiers that can be applied to digital objects or metadata elements in your repository.

- ☐ ADSbibcode
- ☐ ARK
- ☐ arXiv Identifier
- ☐ bibcode
- ☐ ConflDent
- ☐ Crossref DOI
- ☐ CrossRef Funder ID
- ☐ Crossref Grant ID
- ☐ CSTR

- ☐ DAI
- ☐ DataCite DOI
- ☐ DEIMS.ID
- ☐ DOI
- ☐ EAN-13
- ☐ EIDR
- ☐ eISBN
- ☐ eISSN
- ☐ ePIC Handle
- ☐ GND
- ☐ GRID
- ☐ Handle
- ☐ IGSN
- ☐ ISAN
- ☐ ISBN
- ☐ ISCC
- ☐ ISLI
- ☐ ISMN
- ☐ ISNI
- ☐ ISSN
- ☐ ISTE
- ☐ LCNA
- ☐ LISSN
- ☐ LSID
- ☐ NBN
- ☐ ORCID
- ☐ PIC
- ☐ PIDINST
- ☐ PMID
- ☐ PURL
- ☐ QID
- ☐ RAI ID
- ☐ RAIiD
- ☐ ResearcherID
- ☐ Ringgold
- ☐ ROR
- ☐ RRID
- ☐ ScopusAuthorID
- ☐ SWHID
- ☐ UPC
- ☐ URI
- ☐ URL
- ☐ URN
- ☐ VAT-number
- ☐ VIAF
- ☐ Wf4Ever Research Object Identifiers
- ☐ WorkflowHub Identifiers

☐ zbMATH

☐ Other

* Other, namely:

What are the main metadata schemas your repository uses?

Please add up to 5 main metadata schemas, and for each schema indicate for what purpose(s) it is used.

	Metadata schema	Purpose(s) of use
1		
2		
3		
4		
5		

How are metadata schemas implemented in your repository?

- ☐ Unsure
- ☐ Not relevant
- ☐ Hard-coded in your repository platform/software
- ☐ Through integration with an external tool, service or metadata schema catalogue/registry via API or similar mechanism
- ☐ Other

* Other, namely:

Does your repository use semantic artefacts (e.g., controlled vocabularies, ontologies, taxonomies) to annotate, describe or index digital objects?

- ☐ Unsure
- ☐ No
- ☐ Planned
- ☐ In implementation
- ☐ Implemented

How are semantic artefacts implemented in your repository?

- ☐ Unsure
- ☐ Not relevant
- ☐ Hard-coded or embedded in your repository platform/software
- ☐ Through integration with an external tool, service or semantic artefact catalogue via API or similar mechanism
- ☐ Other

* Other, namely:

What are the main catalogues or registries your repository uses for digital object management?

Please add up to 5 main catalogues or registries, and for each catalogue or registry indicate for which purposes it is used, e.g., for which digital objects and metadata elements, PIDs, licenses, and/or for which Activity/Function (e.g., Deposit & Appraisal, Curation, Quality & Compliance, Access, Reuse, Preservation, etc.).

	Catalogue or Registry	Purpose of use
1		
2		
3		
4		
5		

What are the main shared resources or services or federated systems your repository uses for managing digital objects?

Please add up to 5 main resources, and indicate for each of them for which purposes it is used, e.g., for which Activity/Function (e.g., Deposit & Appraisal, Curation, Quality & Compliance, Access, Reuse, Preservation, etc.).

	Shared resource, service or federated system	Purpose of use
1		
2		
3		
4		
5		

Organisational Infrastructure

A repository's mission and scope, its governance and legal framework, as well as available resources, skills, and expertise directly impact digital object management. Organisational Activities and Functions such as managing standards and policies, research and development, engaging with external stakeholders and collaborating third parties need to be considered in this context.

To what extent does your repository face challenges and needs in terms of organisational infrastructure activities and functions?

	No challenges	Minor challenges	Moderate challenges	Significant challenges	Critical challenges
* Mission & Scope	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Governance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Resources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Continuity of Service	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* People & Expertise	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* External Engagement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Community Watch	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Release & Publishing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Legal & Ethical	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Policy & Standards Management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Criteria, Assessment, Improvement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Analysis & Impact	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Rights Management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Training	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Research & Development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Third Party Dependencies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What are the major challenges and needs your repository faces in terms of organisational infrastructure?

*** These were the core questions on organisational infrastructure. Would you like to answer some additional questions or continue to the next part of the survey?**

Answering the additional questions will take approximately 5 minutes more.

When you indicate willingness to answer additional questions, you are not obliged to answer all additional questions.

- ☐ Yes, I would like to answer some more questions on organisational infrastructure
- ☐ No thank you, I would like to continue to the next section

For the reuse of metadata, which license(s) does your repository apply?

For the reuse of data, which license(s) does your repository apply?

For the reuse of code/software, which license(s) does your repository apply?

For the reuse of digital objects other than metadata, data or code/software, which license(s) does your repository apply?

Please specify the type of digital object and the license(s).

Does your repository have a continuity agreement with another organisation(s) to ensure ongoing access to and preservation of your digital objects and metadata?

- ☐ Unsure
- ☐ No
- ☐ Planned
- ☐ In implementation
- ☐ Implemented

If you have implemented or are implementing a continuity agreement, what type of organisation(s) is the agreement with?

To what extent does your repository have sustainable funding to carry out your mission?

Please select the option that best describes the typical duration of funding allocation for your repository.

- ☐ Unsure
- ☐ 1 year at a time
- ☐ 2-5 years
- ☐ 6-10 years
- ☐ More than 10 years
- ☐

Other

* Other, namely:

How would you describe the extent to which your repository has sustainable funding to carry out your mission?

What are the main funding sources of your repository?

Select all applicable.

- ☐ Unsure
- ☐ Structural funding (i.e. central funding or contract from (a) research or infrastructure funder(s) that is in the form of (a) longer-term, multi-year contract(s))
- ☐ Support by the host or partner institution(s) (i.e. direct or indirect support from the host or partner institution (s))
- ☐ Depending on data deposit fees (i.e. in the form of annual contracts with depositing institutions or per-deposit fees)
- ☐ Funding from access charges (i.e. charging for access to standard data or to value-added services and facilities)
- ☐ Support through contract services or project funding (i.e. charges for contract services to other parties or for research contracts)
- ☐ Other

* Other, namely:

Technology and Security

The technology and security management of repositories ensures that any digital objects handled by the repository are securely stored and transmitted via reliable technical infrastructure, and that relevant changes in the technological environment are monitored and acted upon.

To what extent does your repository face challenges and needs in terms of technology and security activities and functions?

	No challenges	Minor challenges	Moderate challenges	Significant challenges	Critical challenges
* Storage & Integrity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Technical Infrastructure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Tech Watch	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Sensitive data management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Security	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What are the major challenges and needs your repository faces in terms of technology and security?

*** These were the core questions on technology and security. Would you like to answer some additional questions or continue to the next part of the survey?**

Answering the additional questions will take approximately 5 minutes more.

When you indicate willingness to answer additional questions, you are not obliged to answer all additional questions.

- ☐ Yes, I would like to answer some more questions on technology and security
- ☐ No thank you, I would like to continue to the next section

What processes and/or documentation does your repository use to ensure appropriate digital object and metadata storage and integrity?

Select all applicable.

- ☐ Processes and documents that ensure that the repository staff have clear understanding of all storage locations and how they are managed
- ☐ Strategy for multiple copies of digital objects
- ☐ Risk management strategies and mechanisms
- ☐ Procedures for handling and monitoring of storage media
- ☐ Procedures for deletion of digital objects
- ☐ Checks to verify that a digital object has not been altered or corrupted
- ☐ Other

*** Other, namely:**

What (other) main standards, best practices and solutions does your repository use for its technology and security management?

Please add up to 5 main standards, best practices and solutions and indicate for what purpose it is used.

	Standard, best practice or solution	Purpose(s) of use
1		
2		
3		
4		
5		

Training and support needs

FIDELIS will offer different support and training mechanisms for repositories. To ensure our training strategy will align with the needs of the community, we would appreciate your input on the following questions.

Which of these topics have you previously received training or support on?

Select all applicable.

- ☐ Repository certification
- ☐ FAIR-enabling qualities (how to make and keep digital objects in your repository FAIR)
- ☐ FAIR assessment
- ☐ Persistent Identifiers
- ☐ Access conditions and sensitive data
- ☐ Licensing and reuse
- ☐ Legal and ethical legislation
- ☐ Long-term preservation
- ☐ Technical infrastructure and repository software
- ☐ Policymaking
- ☐ Stakeholder engagement and communication
- ☐ Developing and sustaining the repository service
- ☐ Other

* Other, namely:

Where do you currently (or have you previously) find/receive training on topics related to Trustworthy Digital Repositories?

Select all applicable.

- ☐ At my host institution – from my peers
- ☐ At my host institution – formally offered training
- ☐ In specific communities I am part of (e.g. CESSDA, ELIXIR, RDA)
- ☐ National training initiatives
- ☐ European project-based training initiatives (e.g. EOSC-Nordic, FAIRsFAIR, FAIR-IMPACT)
- ☐ International training initiatives (e.g. COAR)
- ☐ Offerings available online
- ☐ From peers – (inter)nationally
- ☐ Nowhere / I am not aware of any training opportunities related to Trustworthy Digital Repositories
- ☐ Other

* Other, namely:

Which format(s) of training or support have you previously experienced?

Select all applicable.

- ☐ Peer support (i.e. from direct colleagues or other repositories)
- ☐ Financial support
- ☐ Expert guidance
- ☐ Personal mentoring
- ☐ Seminars/webinars (i.e. listening to information being provided)
- ☐ (online) workshops (i.e. some level of interactivity in a seminar/webinar)
- ☐ Dedicated time for independent work on a topic
- ☐ Open hours (i.e. possibility to drop in and ask any questions you have)
- ☐ Hands-on working sessions (e.g. hackathons)
- ☐ Other

* Other, namely:

Was the training and/or support you have previously received sufficient for your needs? If not, what was missing from the experience?

*** Which of these topics would you be interested in receiving (more) training or support on?**

Select all applicable.

- ☐ Repository certification
- ☐ FAIR-enabling qualities (how to make and keep digital objects in your repository FAIR)
- ☐ FAIR assessment
- ☐ Persistent Identifiers
- ☐ Access conditions and sensitive data
- ☐ Licensing and reuse
- ☐ Legal and ethical legislation
- ☐ Long-term preservation
- ☐ Technical infrastructure and repository software
- ☐ Policymaking
- ☐ Stakeholder engagement and communication
- ☐ Developing and sustaining the repository service
- ☐ Other

* Other, namely:

Which format(s) of training or support would you like to receive?

Select all applicable.

- ☐ Peer support (i.e. from direct colleagues or other repositories)
- ☐ Financial support
- ☐

- ☐ Expert guidance
- ☐ Personal mentoring
- ☐ Seminars/webinars (i.e. listening to information being provided)
- ☐ (online) workshops (i.e. some level of interactivity in a seminar/webinar)
- ☐ Dedicated time for independent work on a topic
- ☐ Open hours (i.e. possibility to drop in and ask any questions you have)
- ☐ Hands-on working sessions (e.g. hackathons)
- ☐ Other

* Other, namely:

Please indicate how much you agree or disagree with the following statements:

	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
* I am more likely to join a training or support activity if I will receive a digital badge or formally recognised certificate at the end of it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* I want training to result in a tangible product I have created.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* I want to have achieved a specific objective or outcome by the end of training.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* My organisation encourages me to join training and support activities.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* I prefer multiple shorter activities (e.g. max. 2 hours) over one long activity (e.g. a full day).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* I want to train at my own pace.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* I want to learn on my own.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* I want learning opportunities with peer engagement.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please indicate how important you find the following aspects of a training or support activity:

	Not important at all	Slightly unimportant	Neutral	Slightly important	Very important
* The activity does not take up too much of my time.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* The ability to connect with, learn from, and network with fellow participants, organisers, (guest) speakers, and other experts.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* The activity covers a topic that is new and cutting-edge.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* The activity allows me to join as part of a team with my colleagues.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* The activity consists of a mix of different teaching formats (e.g. lectures, workshops, peer collaboration, flipped classroom, etc.).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* The activity allows me to become familiar with a topic (i.e. beginner level, not too advanced).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* The activity allows me to dive deeper (i.e. more advanced level, not beginner level).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

FIDELIS will organise different training and support activities.

- **Open training:** (online) webinars or workshops that are free for all to join. These can cover different kinds of topics.
- **Support for the adoption of solutions:** a combination of financial support and expert guidance to implement and adopt good practices, tools, and services that can increase your repository trustworthiness.
- **Mentoring:** this programme will bring together peers in the community for support between mentors with knowledge on a certain topic and mentees who would like to learn more about it.

How likely do you currently think it is that you would join or apply for each activity?

	Very unlikely	Unlikely	Neither likely nor unlikely	Likely	Very likely
* Open training on technical topics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Open training on repository management and governance topics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Open training on legal topics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Support for the adoption of solutions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Mentoring programme – as a mentor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Mentoring programme – as a mentee	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*** Please elaborate on your choices. Why would you (not) apply for these activities?**

Legal challenges

FIDELIS will offer support to increase understanding of common legal issues and requirements that Trustworthy Digital Repositories face. This section is designed to gather initial input on the topic to design meaningful support for the community.

Do you or someone in your repository (or host institution) have expertise on any of the following topics?

	Yes, we have expertise on this topic	No, we could use support on this topic	No, we are not interested in this topic
GDPR	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Copyright / Intellectual Property Rights	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Open Access and Open Science Policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research Ethics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data Governance and Data Security	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
International Agreements and Collaboration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Liability and Indemnity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Freedom of Information Laws	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Competition Law	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Contract Law	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (<i>specify below</i>)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* Other, namely:

Does your repository already have experience collaborating with other countries or institutions across borders on legal issues?

- ☐ Yes
☐ No
☐ I do not know / cannot answer

Please list who you collaborate with and the legal topics involved.

What would you say are the biggest legal challenges your repository faces when sharing data between repositories or with scientists from other research organisations?

Select all applicable.

- ☐ GDPR
- ☐ Copyright / Intellectual Property Rights
- ☐ Open Access and Open Science Policies
- ☐ Research Ethics
- ☐ Data Governance and Data Security
- ☐ International Agreements and Collaboration
- ☐ Other

* Other, namely:

Would your repository be interested in collaborating on frameworks and guidelines regarding GDPR and/or Intellectual Property Rights with others in the network? Why (not)?

* These were the core questions on legal challenges. Would you like to answer some additional questions or continue to the next part of the survey?

Answering the additional questions will take approximately 5 minutes more.

When you indicate willingness to answer additional questions, you are not obliged to answer all additional questions.

- ☐ Yes, I would like to answer some more questions on legal challenges
- ☐ No thank you, I would like to continue to the next section

Does your repository have clear legal frameworks, policies and guidelines for handling personal data in accordance with GDPR and other relevant data protection laws?

- ☐ Yes
- ☐ No
- ☐ Do not know / cannot answer

Does your repository have clear frameworks and guidelines for sharing data within Europe?

- ☐ Yes
- ☐ No
- ☐ Do not know / cannot answer

Does your repository follow one or several specific legal metadata standards for data governance and compliance?

Select all applicable.

A common standard will simplify sharing, accessing, and using research data across different legal jurisdictions and institutions while ensuring compliance with relevant laws, regulations, and policies (legal interoperability).

- ☐ Data catalog vocabulary (DCAT)
- ☐ Preservation Metadata: Implementation Strategies (PREMIS)
- ☐ Dublin Core
- ☐ Data Documentation Initiative (DDI)
- ☐ RightsStatements.org
- ☐ Other
- ☐ Data Privacy Vocabulary (DPV)
- ☐ Data Privacy Vocabulary (DPV)
- ☐ Open Digital Rights Language (ODRL)
- ☐ Open Digital Rights Language (ODRL)
- ☐ RDA Legal Interoperability of Research Data Principles
- ☐ RDA Legal Interoperability of Research Data Principles
- ☐ Other

* Other, namely:

Would your repository be open to change to/adopt/add another core metadata schema if that would improve legal interoperability? Why (not)?

What workflows does your repository have in place for ensuring legal interoperability?

How does your repository manage rights and licences for deposited content?

For example, imposing a single licence, offering licence selection, providing licensing guidance for contributors, etc.

FIDELIS network interest and expectations

The FIDELIS network will be built within the FIDELIS project. This network of Trustworthy Digital Repositories (TDRs) will support the development and growth of TDRs within the EOSC ecosystem; foster harmonisation and interoperability across repositories to enable an EOSC federation of TDRs; and strengthen the upskilling of repositories and expand the network through an active training and support programme. These final questions cover your initial thoughts and expectations on the network so it can be shaped to support the needs of the community.

*** What do you see as the most important benefit(s) this network should provide to you or your organisation?**

What potential barriers could limit your participation in the network?

- ☐ Technical (e.g. changing technical implementation for increased interoperability)
- ☐ Financial (e.g. membership fee)
- ☐ Legal (e.g. agreements around international collaboration)
- ☐ Organisational (e.g. management support)
- ☐ Other

* Other, namely:

The FIDELIS network may offer mechanisms to facilitate collaboration and harmonisation on different topics (e.g. working groups).

What topics would you be interested in joining a collaborative effort on?

What format of collaborative mechanisms would you be most likely to join?

Select all applicable.

- ☐ A mailing list everyone can post to
- ☐ A forum where you can write and share documents
- ☐ A dedicated (working/interest) group that meets online for a specific period of time
- ☐ Documents open for feedback and input
- ☐ Organised topical events - online
- ☐ Organised topical events - in person
- ☐ Other

* Other, namely:

What are your expectations from such collaboration mechanisms, and what expertise, resources, or insights could you contribute?

In what other ways should the network help you address challenges?

Closing question

Do you have any comments or feedback related to the FIDELIS network that you weren't able to express elsewhere in the survey?

