FIDELIS – EOSC EDEN

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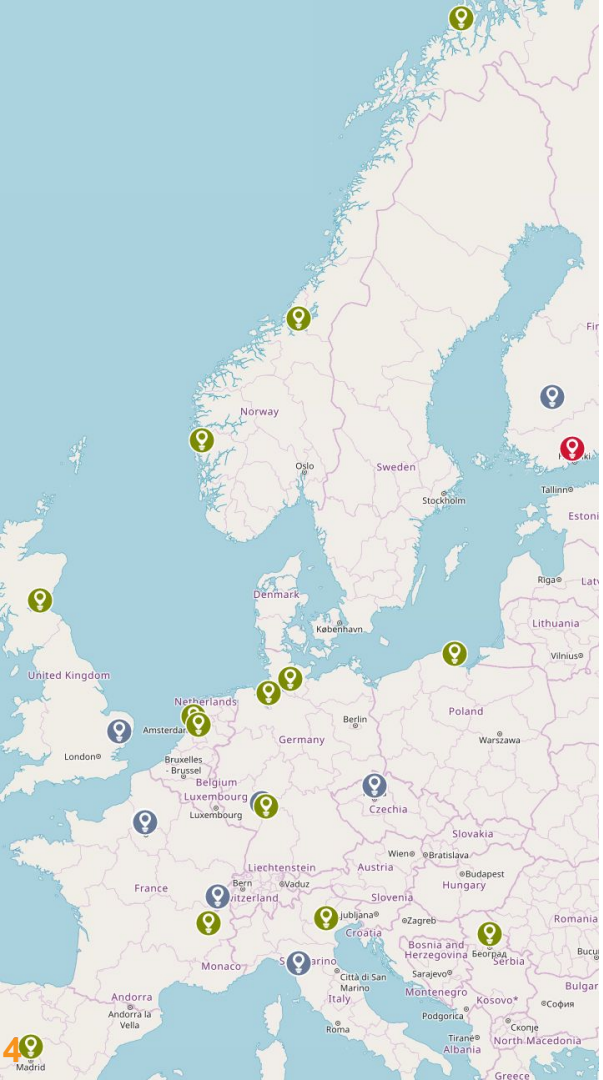
FIDELIS and EOSC EDEN Horizon Projects

- **FIDELIS** – Establishing a European Network of Trustworthy Digital Repositories
  - **Project Duration:** 2025-2027 (36 months)
  - **Funding Source:** Research Infrastructures
  - **EU Contribution:** €5M
  - **Coordinator**: CSC, Finland
- **EOSC EDEN** – Enhancing Digital Preservation Strategies at European and National Level
  - Same programme, source, duration, coordinator
  - Related topic: long-term preservation
  - **EU Contribution**: €8M

Context

- **EOSC**: Develop a web of FAIR (Findable, Accessible, Interoperable, Reusable) data and services for scientific research in Europe
- **Trustworthy Digital Repositories (TDRs)**: Essential for long-term data and service preservation within EOSC
- **FIDELIS goals**
  - Establish and initially operate a European **network of TDRs**
  - Foster a **self-sustaining** TDR network supporting open science
  - Facilitate FAIR data sharing and future **FAIR criteria compliance**
  - Promote **repository harmonisation and interoperability** within the EOSC ecosystem/federation
  - Enhance **repository capabilities and staff skills** through **training and support** programmes

***'Fidelis'**: Derived from Latin, meaning trustworthy, faithful and dependable.*

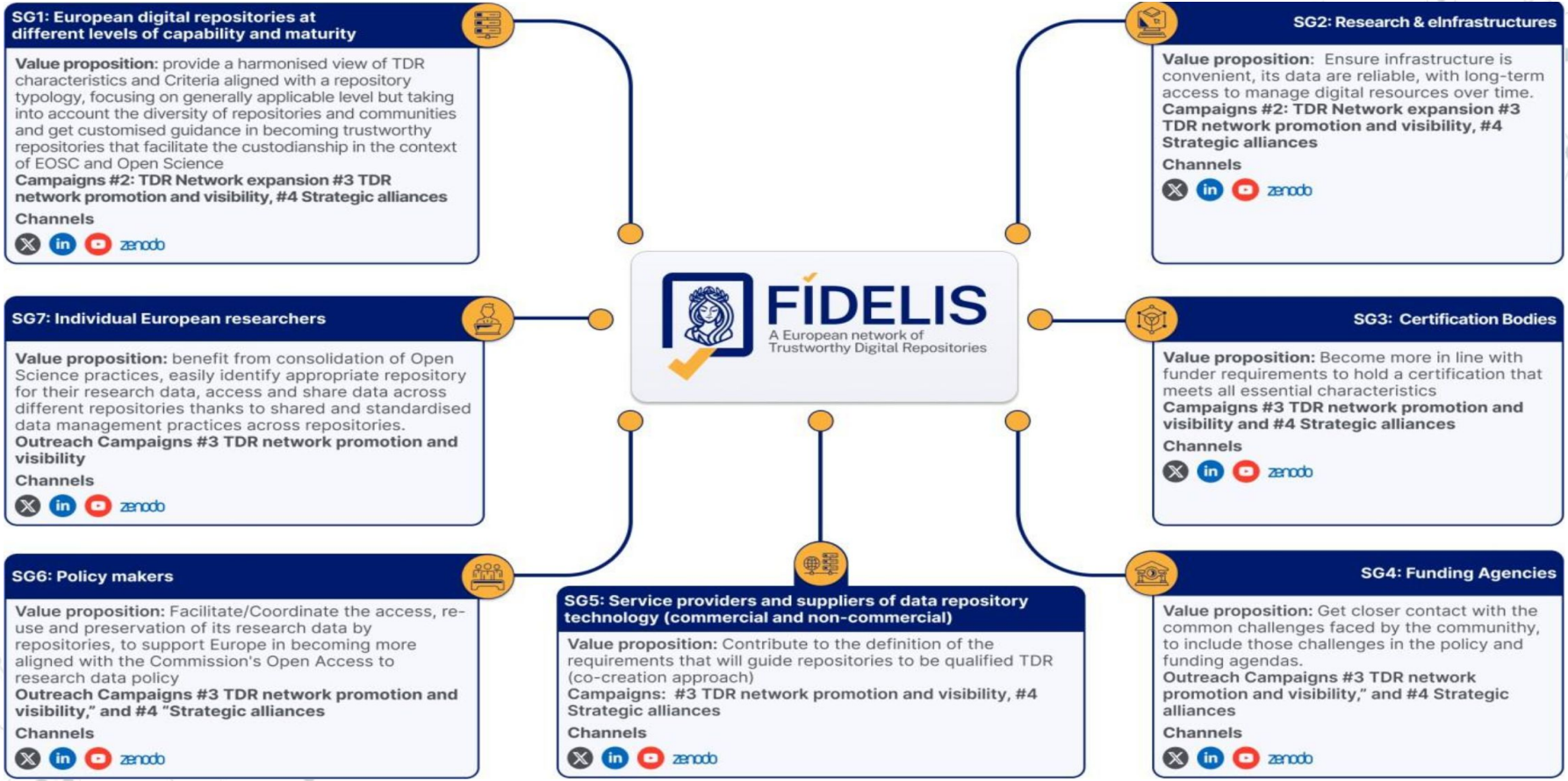


FIDELIS Participants

Serbia

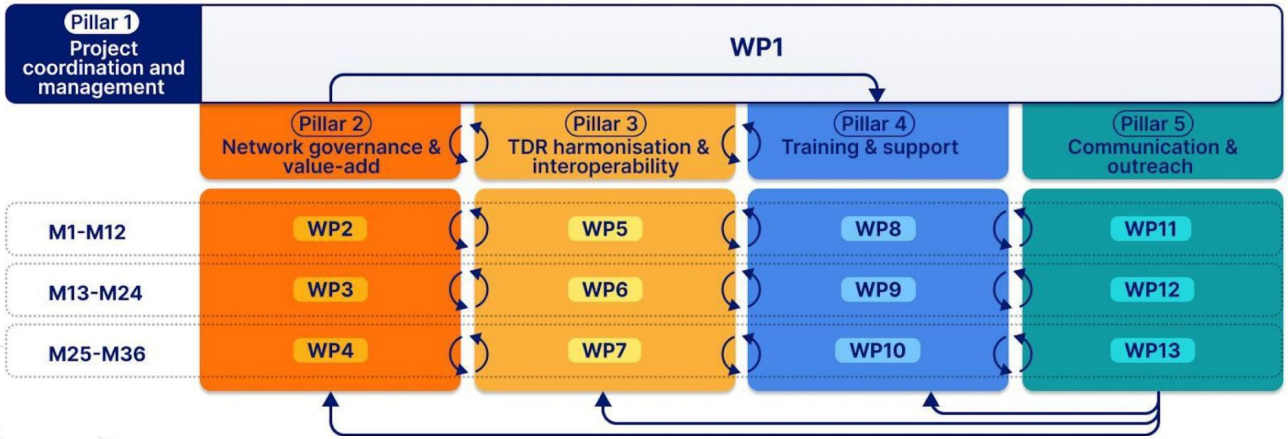
- **Coordinator**
  1. CSC – Tieteen Tietotekniikan Keskus Oy (IT Center for Science), Finland
- **Universities**
  1. Politechnika Gdańska (Gdańsk University of Technology), Poland
  2. The University of Edinburgh, United Kingdom
  3. Univerzitet u Beogradu (University of Belgrade), Serbia
  4. Università degli Studi di Padova (University of Padua), Italy
  5. Universität Bremen (University of Bremen), Germany
  6. Universitetet i Tromsø (UiT) – Norges Arktiske Universitet (UiT – The Arctic University of Norway), Norway
- **Research Organisations**
  8. Agencia Estatal Consejo Superior de Investigaciones Científicas (State Agency for Scientific Research), Spain
  9. CESSDA ERIC (Consortium of European Social Science Data Archives European Research Infrastructure Consortium), Norway
     - TAU-FSD – Tampereen Korkeakoulusaatio SR (Tampere Higher Education Community), Finland (Educational Association)
     - University of Essex, United Kingdom (University)
     - GESIS Gesellschaft Sozialwissenschaftlicher Infrastruktureinrichtungen, (Society of Social Science Infrastructure Institutions, Leibniz Institute for the Social Sciences), Germany (Institute)
  10. CLARIN ERIC (Common Language Resources and Technology Infrastructure European Research Infrastructure Consortium), Netherlands
      - Univerzita Karlova (Charles University), Czechia (University)
  11. Deutsches Klimarechenzentrum GmbH (German Climate Computing Centre), Germany
  12. ELIXIR – European Molecular Biology Laboratory, Germany
  13. European Synchrotron Radiation Facility, France
  14. Institut National de Recherche pour l'Agriculture, l'Alimentation et l'Environnement (National Institute for Agricultural, Food and Environmental Research), France
  15. KNAW-DANS – Koninklijke Nederlandse Akademie van Wetenschappen (Royal Netherlands Academy of Arts and Sciences – Data Archiving and Networked Services), Netherlands
- **Service Providers and Companies**
  16. SIKT – Kunnskapssektorens Tjenesteleverandør (Knowledge Sector Service Provider), Norway
  17. Trust-IT Services SRL (Consultancy and support in technology, research and innovation), Italy
      - COMMPLA SRL (Digital solutions for research and innovation projects), Italy (Company)
- **Associated Partners**
  18. Ministère de l'Enseignement Supérieur et de la Recherche (Ministry of Higher Education and Research), France (Government Body)
  19. SIB Swiss Institute of Bioinformatics, Switzerland (Research Organisation)

Stakeholders



FIDELIS Project Structure

	Year 1	Year 2	Year 3
Pillar 1 (CSC)	Project Management (WP1)		
Pillar 2 (Sikt)	Preparing and initiating the network (WP2)	Consolidating the network and value-add (WP3)	Transition the network and value-add (WP4)
Pillar 3 (TAU-FSD+ Skit)	Building common understanding of TDRs and a harmonized matrix of repository capabilities and characteristics (WP5)	Enhancing maturity and enabling federation of TDRs (WP6)	Recommendations and guidance (WP7)
Pillar 4 (DANS)	Repository training and support: Initiating network cohesion and support (WP8)	Strengthening the network (WP9)	Consolidating the network (WP10)
Pillar 5 (Trust-IT)	Strategic alliance, cascading grants, communication and dissemination (WP11-13)		



FIDELIS Work Packages

- **WP1: Project Coordination and Management**
  Manage project administration and quality assurance, support governance and ensure effective project management.
- **WP2: Preparing and Establishing the Network**
  Establish the TDR Network with interim governance, onboard initial members and develop a sustainable business model to provide ongoing value to the TDR community.
- **WP3: Consolidating the Network and Value-Add**
  Expand TDR Network membership, refine governance based on feedback, enhance value proposition and create a sustainability plan.
- **WP4: Transition Network and Value-Add to Sustainability**
  Secure resources for the Network's operations in the first year after the project, transition the secretariat and online presence to stable governance, expand membership and strengthen governance and value for members.
- **WP5: Building Common Understanding of TDRs and a Harmonised Matrix of Repository Capabilities and Characteristics**
  Develop a harmonised attribute matrix for repositories aligned with EOSC needs and standards, identify repositories' needs and standards, catalogues and gaps in best practices, and guide stakeholders and members.
- **WP6: Enhancing Maturity and Enabling Federation of TDRs**
  Support repositories in reaching higher capability levels, provide federation building blocks and enhance service discoverability through interoperability improvements.
- **WP7: Recommendations and Guidance**
  Offer actionable guidance for repositories using the TDR matrix, enhance semantic interoperability and promote harmonised use of semantic artefacts.
- **WP8: Repository Training and Support: Initiating Network Cohesion and Expansion**
  Assess repositories' support and training needs, align training and solutions with initiatives, and develop a comprehensive training programme.
- **WP9: Repository Training and Support: Strengthening the Network**
  Enhance repository trustworthiness across Europe through coordinated training, support and mentoring, fostering a sustainable network.
- **WP10: Repository Training and Support: Consolidating the Network**
  Finalise support for trustworthy repositories, ensuring sustainability through feedback-driven training and capacity-building for long-term impact.
- **WP11: Strategic Alliance, Cascading Grants, Communication and Dissemination – Phase 1**
  Promote collaboration with the EOSC community, implement a communication strategy and establish the TRUST-GRANTS platform to manage cascading grants.
- **WP12: Strategic Alliance, Cascading Grants, Communication and Dissemination – Phase 2**
  Strengthen collaboration with the EOSC Partnership and other initiatives, expand the TDR Network and promote visibility for training programmes and open calls.
- **WP13: Strategic Alliance, Cascading Grants, Communication and Dissemination – Phase 3**
  Solidify the Network's role for TDRs in the European Open Science community, ensure seamless transition of strategic alliances and mechanisms to the Network for continued EOSC Partnership collaboration.

Serbia

UoB Role in FIDELIS

- UoB-RCUB
  - Among partners operating generic digital repositories at the national level
  - Proven track record in supporting repositories at the regional level – NI4OS (2019-2023) and beyond
- In “Repository Training and Support” work packages
  - WP8 – Initiating Network Cohesion and Expansion
  - WP9 – Strengthening the Network
  - WP10 – Consolidating the Network

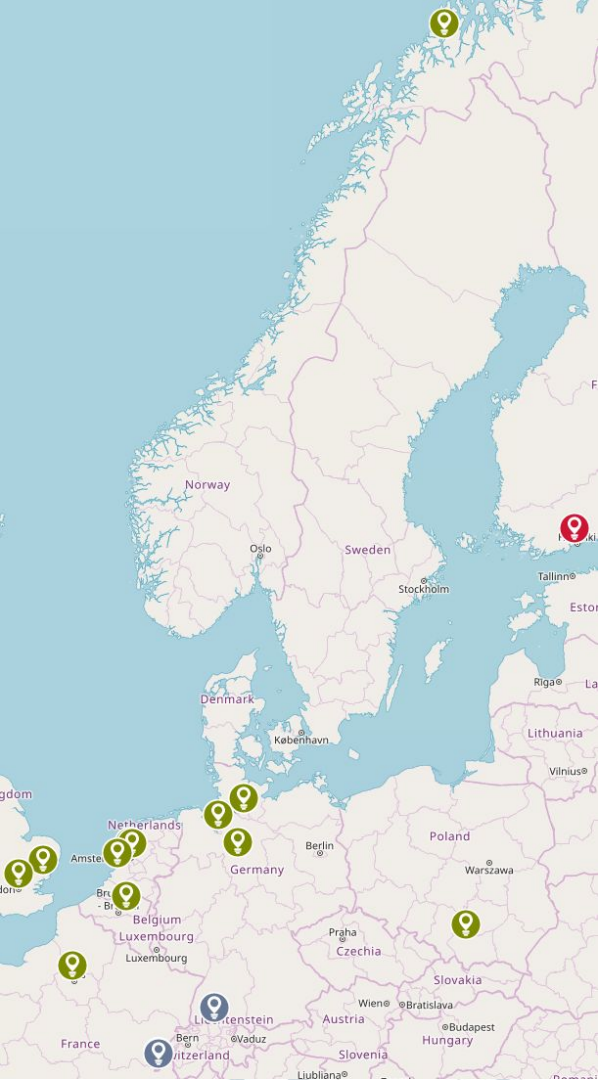
RCUB

Serbian Early Adopters in FIDELIS

- Four pre-selected repositories
  - In the early group of 36 repositories
  - To be onboarded to the Network at the beginning of the project
  - Expected to be among the early adopters of developments and practices
- Agri-food
  - RIVeC – Repository of the Institute for Vegetable Crops, Smederevska Palanka
  - FiVeR – Repository of the Institute of Field and Vegetable Crops, Novi Sad
- Physical and material sciences
  - CER – Central Repository of the Institute of Technology and Metallurgy, University of Belgrade
- Generic
  - DAIS – Digital Archive of the Serbian Academy of Sciences and Arts (SASA), Belgrade

EOSC EDEN Goals

- Develop **infrastructure** to support the **long-term access and preservation** of data for the European Open Science Cloud (EOSC), focusing on data quality and sustainability
- Establish **practices to determine high-quality data worth preserving** long-term, considering usability, adherence to standards, metadata completeness, FAIR-ness and cross-disciplinary reuse
- Coordinate **with scientific communities to harmonise curation standards** and practices across disciplines, promoting interoperability and reusable data formats
- Collaborate with existing and new **domain-specific networks to enhance practices** around metadata, ontologies and standards for reproducibility and data integrity
- Enrich EOSC with **preservation tools and services**, automating processes to support data longevity and interoperability across repositories
- **Establish a discipline-oriented curation network** to assist in preserving and curating data, adapting to evolving technologies and ensuring data remains accessible
- Identify and consolidate a **network of trusted repositories** within EOSC, optimising resource use and **providing scalable support** for data preservation needs
- Leverage **results from the ARCHIVER** project to address long-term sustainability, creating enduring preservation solutions within the EOSC ecosystem
- Coordinate with disciplinary networks to develop **guidelines and standards for data quality**, ensuring consistent high-quality data across scientific fields
- **Collaborate with related EOSC-funded projects** on repository interconnectivity, data quality standards and cross-disciplinary applicability



EOSC EDEN Participants

- **Coordinator**
  1. CSC – Tieteen Tietotekniikan Keskus Oy (IT Center for Science), Finland
- **Universities**
  1. Katholieke Universiteit Leuven (Catholic University of Leuven), Belgium
  2. Universität Bremen (University of Bremen), Germany
  3. Universitetet i Tromsø (UiT) – Norges Arktiske Universitet (UiT – The Arctic University of Norway), Norway
  4. University of Essex, United Kingdom
- **Research and Supporting Organisations**
  6. CODATA – Comité de données pour la science et la technologie (Committee on Data for Science and Technology), France
  7. Deutsches Klimarechenzentrum GmbH (German Climate Computing Centre), Germany
  8. CERN – Organisation Européenne Pour La Recherche Nucleaire (European Organisation for Nuclear Research), Switzerland
- **Companies**
  9. Arkivum Limited, United Kingdom
  10. Premotec Poland Sp. z o.o., Poland
  11. Open Preservation Foundation, Netherlands
  12. Surf BV, Netherlands
- **Libraries**
  13. TIB – Technische Informationsbibliothek (Technical Information Library), Germany
  14. KNAW-DANS – Koninklijke Nederlandse Akademie van Wetenschappen (Royal Netherlands Academy of Arts and Sciences), Netherlands
- **Associated Partners**
  15. Premotec GmbH, Switzerland (Company)
  16. SIB Swiss Institute of Bioinformatics, Switzerland (Research Organisation)

EOSC EDEN Actions

- Establish a **framework for data usage, value and quality** to identify digital objects suitable for long-term preservation
- Create a **model with reassessment points** throughout the data lifecycle to ensure ongoing evaluation of data suitability for preservation
- Develop and test **prototype services and tools** for curating and archiving research data across various disciplines
- Improve practices and methodologies for **research data management** to ensure data remains accessible and usable **over time**
- Foster collaboration **across research disciplines** to **share best practices** in data preservation and curation