

Open Science Trails (OSTrails) is a Horizon Europe project focused on enhancing the planning, tracking, and assessing of scientific knowledge production. By collaborating with service providers and research communities across countries and domains, it aims to streamline FAIRness, interconnectivity and machine actionability that improve and extend existing Research and Innovation (R&I) ecosystems and align them with EOSC.

### Facing the Facts

- Limited interoperability within and across the Plan-Track-Assess stages of research.
- Lack of harmonisation of best practices adopted by Scientific Knowledge Graphs (SKGs), Data Management Planning (DMP) platforms and FAIR assessment tools.
- Uncertainty to compliance with FAIR principles and DMP practices.
- Different levels of Open Science, FAIR and EOSC maturity across countries and scientific domains.

### Methodology

- 1 Co-design: Establish the initial specifications to guide the modeling of OSTrails components and the pathways for Planning-Tracking-Assessing informed by requirements' analysis.
- 2 Early co-development and evaluation: Adapt onboarded services to meet specifications, with ongoing pilot evaluation, leading to the creation of OSTrails Commons.
- 3 Late co-development and evaluation: Integrate all OSTrails components into the EOSC-embedded, production-ready release.
- 4 Adoption: Iterate the design and implementation of OSTrails Commons to realise the pathways based on the evaluation process' findings.

### Pilots for Adoption

To define, create, validate and evaluate its activities and outputs, OSTrails is centered around and informed by 24 pilots representing **17 countries** and **5 ESFRI scientific clusters**. Aiming to align with the wider community, it will engage with other projects and service providers.

### OSTrails Contribution

Lower the barriers to plan and practice FAIR research; improve evidence-based evaluation of research via a more networked scholarship.

### Key Outputs

OSTRAILS COMMONS

DMP EVALUATION RUBRIC & SERVICE

GOVERNANCE FOR FAIR ASSESSMENT

SKG RESEARCH PRODUCT QUALITY TOOLBOX

TRAINING LIBRARY AND COMPETENCE CENTRE

CASE STUDIES AND PROOF OF CONCEPT INSTANCES



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