



Welcome to the series 'Reports on EOSC Projects', a new format that presents EOSC-related projects with contributions from Austrian partners, and provides insights into project objectives and developments.

**Report on EOSC Project
N°1**

March 2025



OSTrails – Open Science

Plan – Track – Assess Pathways

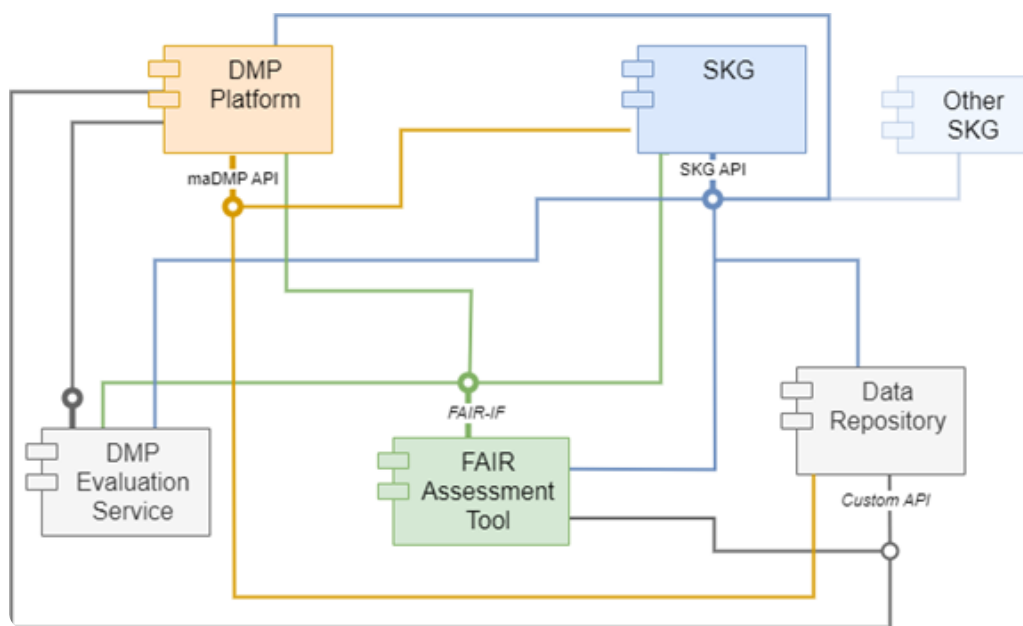
Context: OSTRails is dedicated to enhancing interoperability across Open Science through three key pillars, each supported by a dedicated Interoperability Framework:

- Data Management Plans ([DMPs](#))
- Scientific Knowledge Graphs ([SKG](#))

- [FAIR](#) Assessment

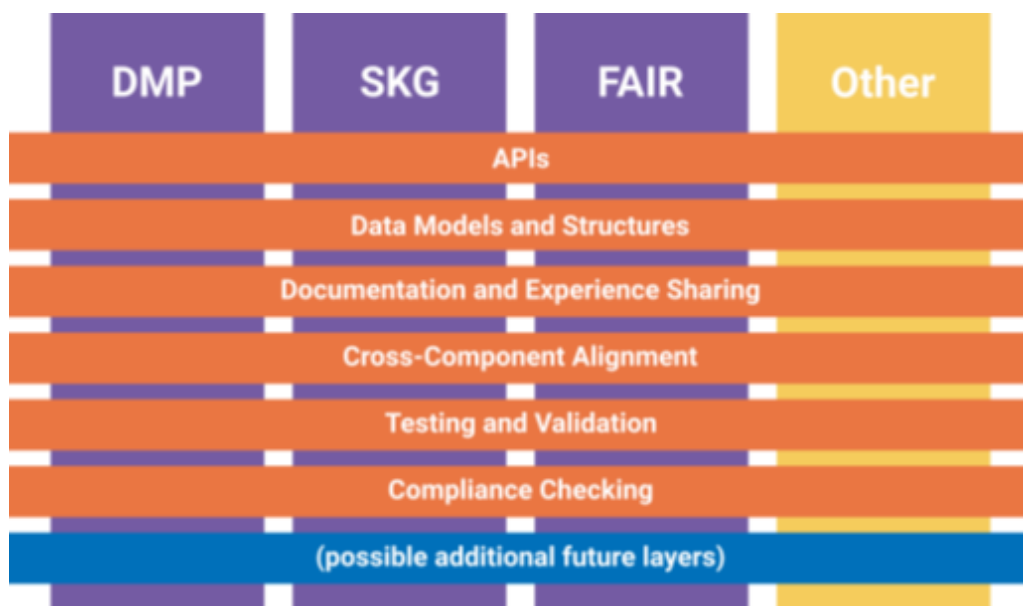
Interoperability Frameworks (IFs) refer to a set of guidelines, standards, and protocols that ensure the ability of different systems, applications, or organizations to work together effectively. Exchanging data and functions seamlessly despite differences in their underlying technologies. The framework typically addresses the technical, semantic, and organizational aspects needed to facilitate collaboration and integration between disparate systems.

To achieve this, the project has mapped integration pathways, ensuring future compatibility and expansion. The work focuses on developing open resources and tools accessible beyond the project itself.



The OSTRails approach

The project is developing **Commons** a set of open, reusable resources designed to **facilitate the adaptability of the IFs** across different research environments. By providing standardized guidelines, APIs, and reference models, OSTRails helps lower adoption barriers, making interoperability more accessible within EOSC and beyond.



DMP Commons

- OSTRails Application Profile
- Machine-Actionable Data Management Plan (maDMP) API Specification

SKG Commons

- OSTRails SKG-IF as an extension to RDA SKG-IF
- SKG-IF Common API

FAIR Commons

- FAIR Reference Model
- Interface Descriptors in form of OpenAPI specification

Cross-cutting and Supporting Resources

- Documentation, training materials, reusable libraries for technical implementation, ontologies, templates, ...

Impact on EOSC

The OSTRails Interoperability Frameworks (IFs) align with and actively contribute to the EOSC vision for interoperability, supporting the technical, semantic, organizational, and legal layers.

OSTRails – Contributions from Austrian institutions

Austrian institutions play central roles in the OSTrails project. As a consequence, OSTrails will have considerable impact on the Austrian community, through the tools that the project uses, as well as through a dedicated Austrian pilot.

- DAMAP will be a source of integral insight on DMPs – via the new API. It is one of three main DMP tools under investigation.
- TU Wien serves as the lead technical project coordinator, while TU Graz and the University of Vienna lead key work packages and tasks.
- [DMP Evaluation service](#) – Will provide automated evaluation of DMPs and feedback, also for Austrian institutions, able to apply Austrian funders requirements on it.
- FAIR assessment – conducted to assess existing collections and integrate them into Austrian repositories and ingest processes.

Austrian Project Partners



[Graz University of Technology](#), specifically the [Research Data Management Team](#) from the [university library](#). Project members: Ilire Hasani-Mavriqi, Laura Thaci, Miguel Rey Mazon, Stefan Reichmann



[TU Wien](#), specifically the Center for Research Data Management. Project members: Tomasz Miksa (Lead Technical Coordinator of OSTrails), Andres Tabima Romero, Suvini Lai



[University of Vienna](#), specifically the department Research and Publication Services from the [University Library](#). Project members: Gerda McNeill, Daniel Spichtinger, Lars Kaczmirek, Lisa Hirsch, Susanne Blumesberger, Dominik Denk

Project Factsheet



Project Acronym: Open Science Trails (OSTrails)

Project Runtime: 2/2024-1/2027 (36 months)

Project Coordinator: OpenAIRE

Budget: EUR 7.274.147,50

Partners: 38 partners representing 22 research-performing institutions, 5 ESFRI Clusters, and 24 pilots representing (5 science clusters, 17 national infras & 1 HE)

Additional Information

Tomasz Miksa, Mark Wilkinson, Paolo Manghi, and Marek Suchánek. D1.4 ostrails interoperability reference architecture v1. January 2025. [doi:10.5281/zenodo.14795000](https://doi.org/10.5281/zenodo.14795000).

Stefan Reichmann, Miguel Rey Mazón, Ilire Hasani-Mavriqi, Laura Thaci, and David Eckhard. D1.1: plan-track-assess pathways. July 2024. [doi:10.5281/zenodo.13145788](https://doi.org/10.5281/zenodo.13145788).

Marek Suchánek, Jana Martínková, John Shepherdson, Tomasz Miksa, Jakub Jirka, Vojtěch Knaisl, Katja Moilanen, Susanna-Assunta Sansone, and Tassos Stavropoulos. D2.5 ostrails commons specifications. January 2025. [doi:10.5281/zenodo.14795060](https://doi.org/10.5281/zenodo.14795060).

[Project Website](#)

Best wishes and much success from:
The EOSC SOA Secretariat Team



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