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Enhancing Research Reproducibility: TIER2's Integration with the European Open Science Cloud

The reproducibility crisis presents a significant challenge in modern science, with researchers worldwide struggling with issues of transparency, data management, and methodological consistency. TIER2, a three-year project funded jointly by the EU and UKRI, addresses these challenges through a multi-faceted approach.

At the heart of TIER2 are eight strategic pilot activities, each designed to tackle specific aspects of the reproducibility challenge. These pilots focus on developing practical tools and methodologies for managing digital research objects throughout their lifecycle, from initial data collection through analysis, publication, and long-term preservation. Through our co-creation approach, we bring together researchers, funders, and publishers to ensure solutions that are both technically robust and practically implementable.

Building on this foundation, TIER2 serves as a crucial bridge between grassroots reproducibility initiatives and large-scale Open Science infrastructures like the European Open Science Cloud (EOSC).

As we approach project completion, we present our mature solutions including: planning and management tools with decision aid and reproducibility management plans; implementation support through reproducible workflows and monitoring tools; and institutional guidelines featuring funders' promotion plans and editorial tools to strengthen institutional support for reproducibility.

These developments directly support EOSC's mission by providing practical tools for researchers while addressing the needs of infrastructure providers, publishers, and funders, ultimately advancing the cause of open, reproducible science.

Tagline

We present TIER2's tools, methodologies, and guidelines that empower researchers, funders, and service providers to conduct more transparent and reproducible science.

Keywords

Reproducibility, Transparency, Integrity, EOSC

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