



BASE4NFDI POLICY PAPER AT A GLANCE

Base4NFDI Services and EOSC: Guidance for Interoperability, Version 1

Base4NFDI actively pursues alignment with the European Open Science Cloud (EOSC) to achieve a federated, interoperable infrastructure that enables cross-border and cross-domain research cooperation. Central to this integration is the implementation of the EOSC Interoperability Framework (IF), which encompasses four key types of interoperability: technical, organisational, semantic, and legal. Through these mechanisms, Base4NFDI aims to make its basic services more accessible and reusable within a European and international context, reinforcing a culture of FAIR data practices.

To move forward with these objectives, Base4NFDI has outlined three primary actions:

- 1. Align with European and international initiatives:** The Base4NFDI team will stay engaged with developments from EOSC – specifically the EOSC Association, EOSC EU Node, EOSC projects, and will contribute to the EOSC Federation Handbook.
- 2. Support EOSC National Node efforts:** Base4NFDI embraces participation in potential German efforts towards an EOSC National Node via contributing to identifying areas of interoperability between basic services and EOSC EU Node services. This action will help ensure the inclusion of NFDI services in EOSC and establish interoperable practices across the landscape.
- 3. Establish pathways to EOSC interoperability across Base4NFDI service phases:** Each phase of the Base4NFDI service development – proposal preparation, initialisation, integration, and ramp-up – will incorporate elements of EOSC interoperability. The main focus will be during the integration phase where one concrete action will be to align the Base4NFDI service metadata criteria with the current EOSC onboarding guidelines and remain in close contact with these developments.

As Base4NFDI navigates these steps, it will also address future challenges, including creating sustainable governance models for its Basic services, clarifying service access policies, and enhancing user uptake. These actions position Base4NFDI as a collaborative, user-centred partner within the EOSC ecosystem, contributing to the long-term goal of a shared, federated research infrastructure across Europe and beyond.

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