

DMP4NFDI - a Basic Service for Data Management Planning

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Abstract: [max. 500 words]

DMP4NFDI is a Basic Service to support consortia providing data management plan (DMP) services or analogues such as software management plan (SMP) services to their respective communities. DMP4NFDI offers RDMO tool hosting for the consortia, support and training for the creation of DMP templates, and coordinates the standardization by developing a DMP template framework. Its main goal is to implement machine-actionable DMPs across the NFDI.

The NFDI aims to establish processes for standardized data handling, quality assurance, and sustainable and interoperable research data management. DMPs can be an aid to achieve these goals and foster the necessary cultural change, if based on machine-actionable, community-curated DMP templates and if standardized by a common framework within the NFDI. DMP4NFDI aims to establish such a standardized framework utilizing the DMP tool *Research Data Management Organiser (RDMO)* in a centralized multi-tenant hosting environment for consortia-wide use. We address identified shortcomings of current DMP usage and implementations, e.g. the lack of discipline-specificity, standardized answer sets, controlled vocabularies, and automation processes. The envisioned role of the service includes supporting NFDI consortia in making the DMP information more user-friendly and seamlessly integrated into the research process.

During its initialization phase, DMP4NFDI cooperates with several consortia as early adopters to refine requirements and prototype service integrations. We set up RDMO clients and prototype service integrations to other Basis Services or specific communities. These clients can be tailored according to the community needs, e.g. theming, plugins and templates, while still being connected to the overall NFDI framework. We will establish an editorial board for this framework to ensure coherence and interoperability of DMP templates across disciplines. In addition, DMP4NFDI offers support and training for consortia to create DMP templates and services.

The Basic Service is largely shaped by previously gained knowledge from workshops, use cases and stakeholder interactions, which will be adapted through further exchange with consortia over the course of the first year. In subsequent phases of the Basic Service, we will add more interested consortia, accompanied by further standardization and integration of existing services.

Keywords: [max. 5 keywords]

Data Management Plan, Basic Service, DMP Templates, Standardization