

FOSS N4O Management Hub

Using RSE skills and Open Source Software to propose a heterogenous Management Hub in NFDI4Objects



NFDI4Objects

Research Data Infrastructure
for the Material Remains of
Human History

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NFDI4Objects

NFDI4Objects (N4O) represents a broad community dealing with material remains of human history from around 3 million years.

Goals of the Consortium

- Resolution of the "digital divide" between users and specialists, including between the sub-disciplines Integration into a uniform research data management strategy.
- Research data management strategy Creation of a broad range of services that serves the entire community serves the entire community Strategies for the integration and migration of legacy data.
- Establishment of a data-adequate long-term archiving (> 50 years) Expansion of data-supported networking with the engineering, natural, life and social sciences social sciences.

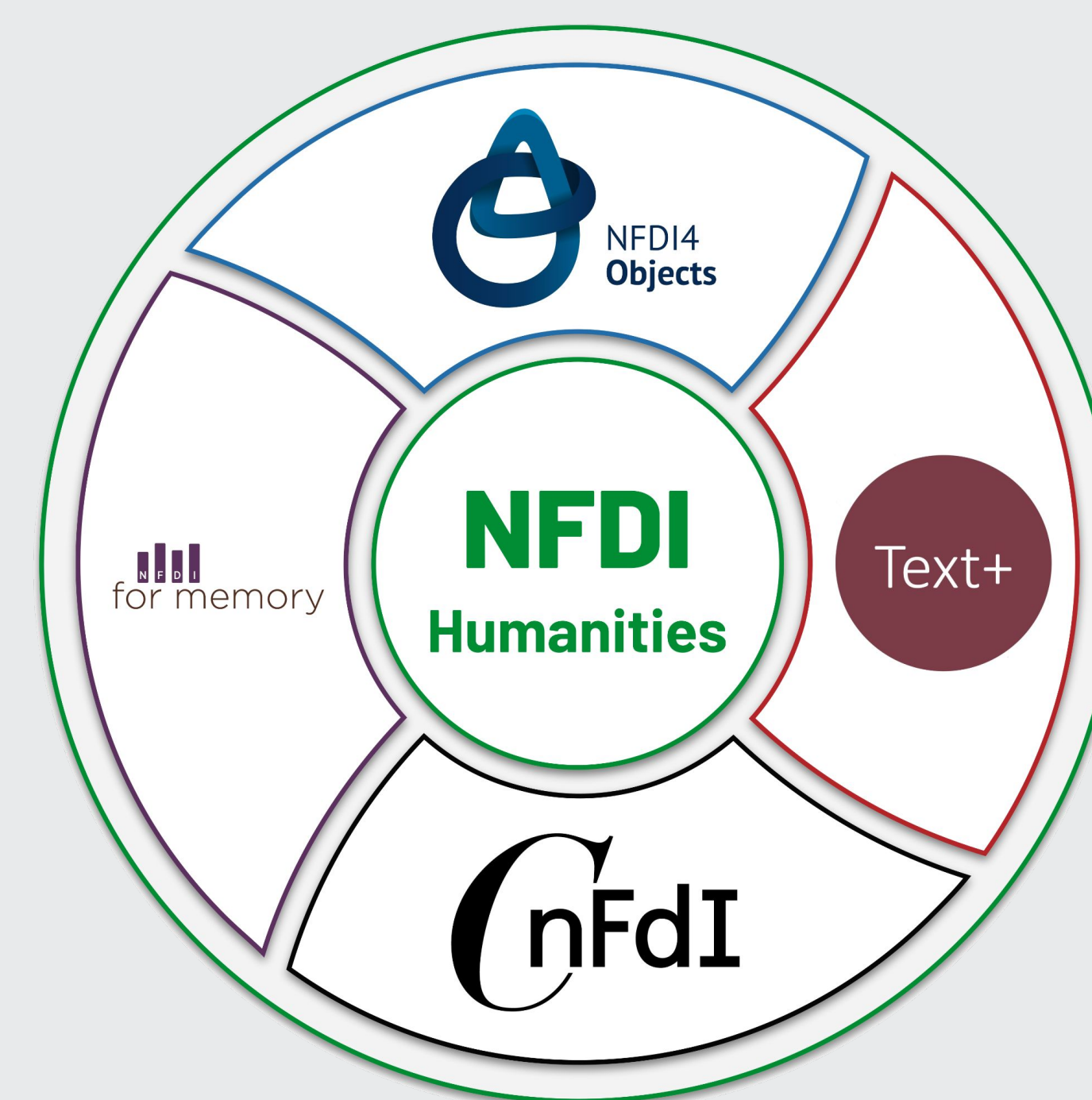


Fig.1: NFDI in the Humanities.

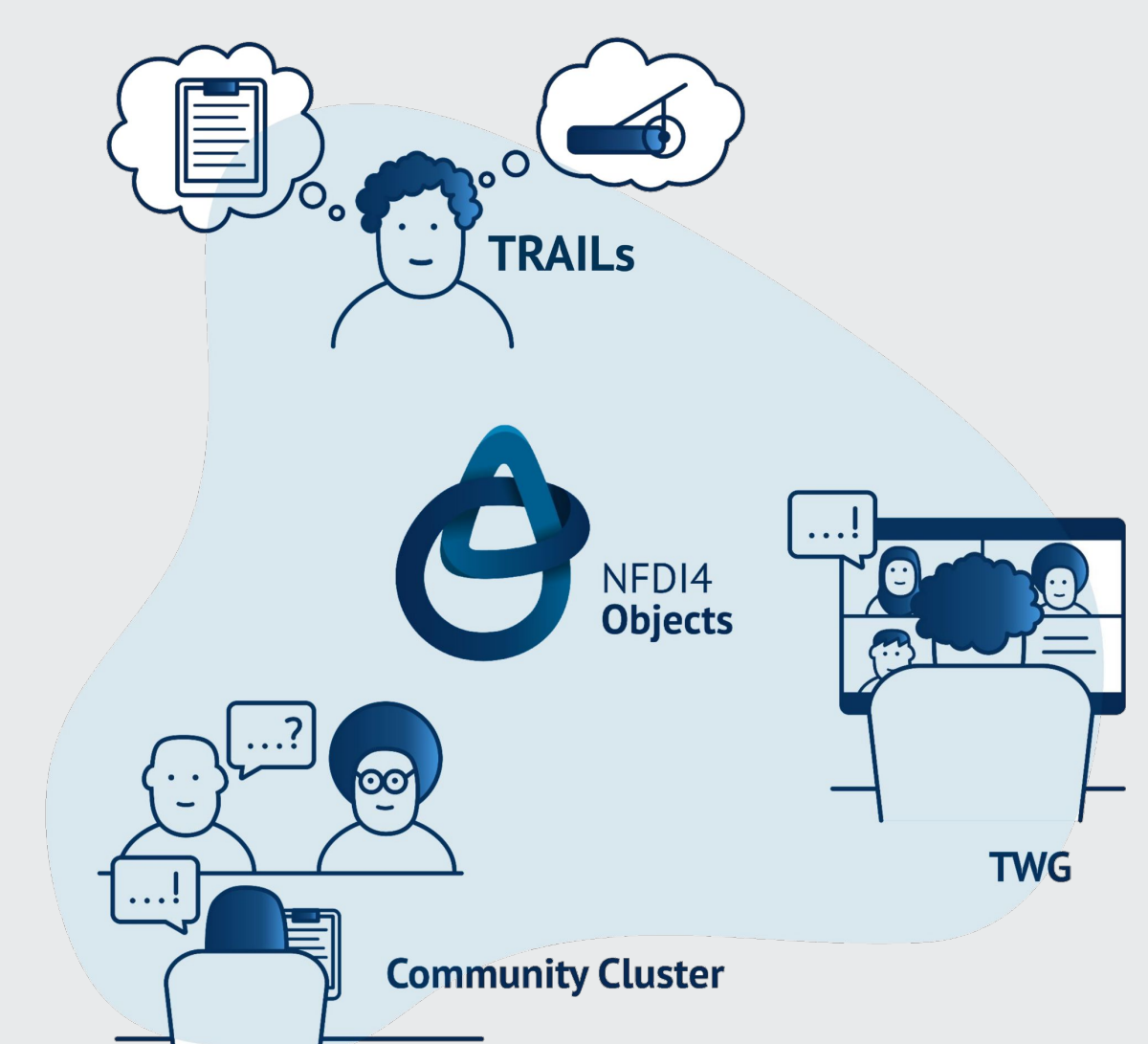


Fig.2: How to contribute within NFDI4Objects?

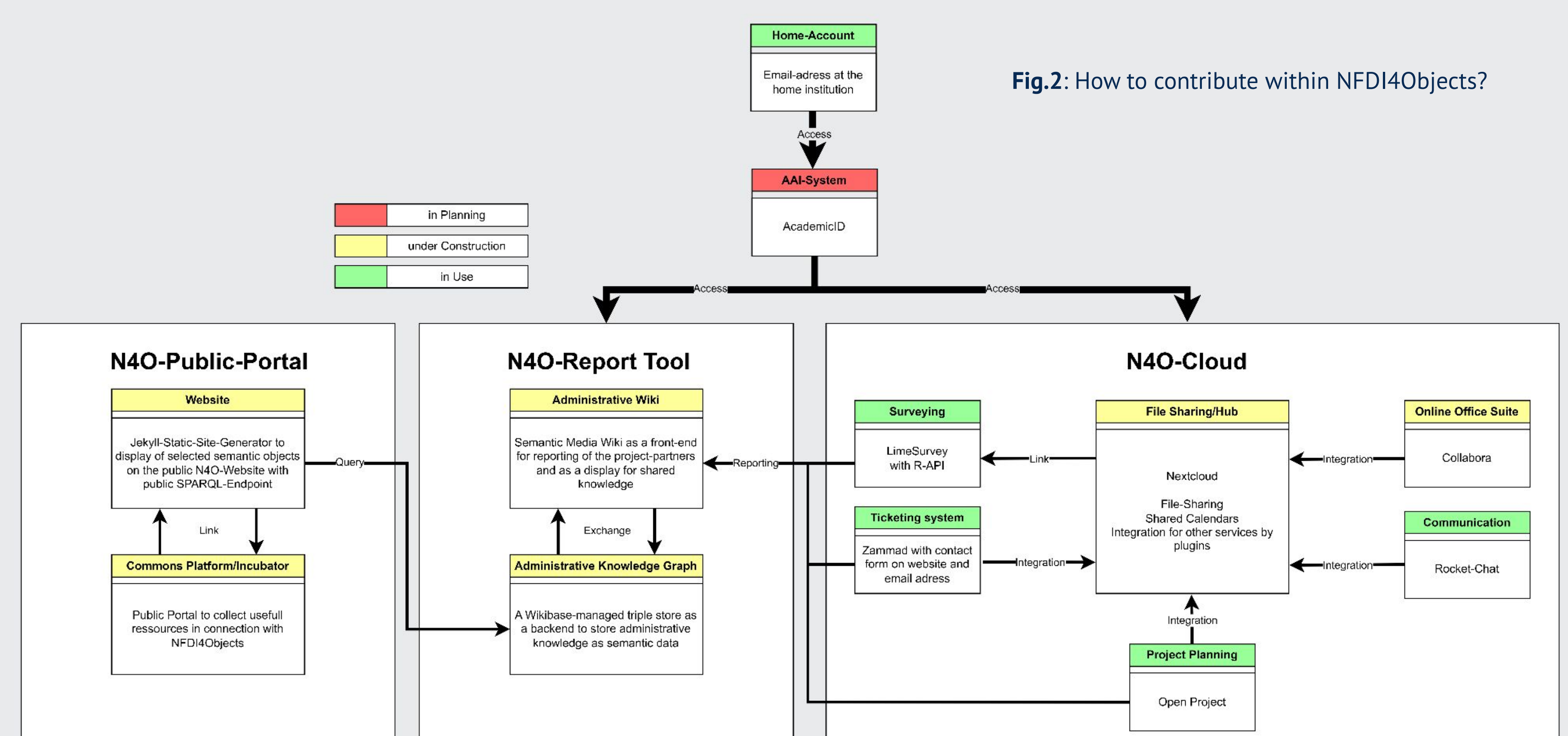


Fig.3: Scheme of the complete N4O-Management Hub as of March 2024.

The Hub

RSE skills and the combination of FOSS help to create a Management Hub. The hub of our planned management tool will be a Nextcloud instance. This instance will provide a set of basic services (file sharing, task management, notes, shared calendars) and other FOSS services can be easily integrated. These services include OpenProject for project launch planning, Zammad as a helpdesk ticketing system, Collabora for online document editing, and LimeSurvey combined with ShinyR for surveys. On top of that, reports could be imported/exported into a Wikibase using the included frameworks to create a Management Knowledge Graph. Rocket Chat isn't FOS, but provided by the directorium of the NFDI e.V. and therefore a central communication tool for the whole NFDI-community.

The Philosophy

As mentioned above the core task of the NFDI is the construction of a up-to-date, sustainable, sovereign and powerful infrastructure for the needs of scientific research. The tools, which we combine into this infrastructure provide solutions for most tasks in the everyday-working-life of our consortium and they do that based on the same design principles as those infrastructures, which contain the research data itself. This way we foster expertise and understanding of these principles within our community and we practice the usage of those technologies as developers and as users.

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