

openRDM.swiss Extended (201-001)

A National Platform for FAIR Research Data Management and Analysis

In the openRDM.swiss project, ETH Zurich Scientific IT Services (ETH SIS), together with partners from the Zurich University of Applied Sciences and the University of Zurich, have established a national research data management (RDM) service based on the openBIS platform. The service allows users to store, annotate and backup their research data according to the FAIR data principles (Findable, Accessible, Interoperable, Reusable). Here we propose openRDM.swiss Extended, a project to extend the openRDM.swiss service with resources for reproducible processing and analysis of data. In particular, we aim to extend the openRDM.swiss service by a JupyterLab-based reproducible research platform (RRP) developed by ETH SIS. This extension will provide a user-friendly interface to promote the reproducible analysis of datasets stored in openBIS. In addition to integrating with the RRP-solution developed by ETH SIS, we also propose to investigate integrations of openRDM.swiss with other discipline-specific national data infrastructures. Finally, we aim to evaluate opportunities for offering the openRDM.swiss service outside of Switzerland as part of the emerging European Open Science Cloud service portfolio. The enhancements proposed as part of openRDM.swiss Extended will add substantial new value to the established openRDM.swiss service for existing and prospective customers. Furthermore, they will extend the service offering to a new user base outside of Switzerland. In general, openRDM.swiss Extended will prepare the ground work for further integrations with national and international resources as part of the upcoming PgB Open Science. This will contribute to a FAIRer national RDM landscape, thereby promoting the overall competitiveness of science in Switzerland.