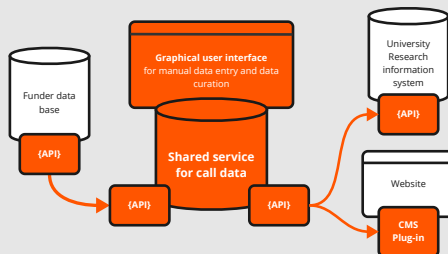


Data Flows

How to model data exchange
across different research
information systems

RIS Synergy establishes the data exchange between the IT systems of funding organisations and research institutions. The key to this is process optimisation via technical interfaces and well-defined data flows. Aiming to improve data quality and freeing up resources for researchers, funding bodies and university administrations by implementing the once-only-principle, RIS Synergy contributes to the sustainable digitisation of the Austrian higher education sector. RIS Synergy is providing standards for exchanging meta data on research information, such as projects, funding programme calls, or publications, which are compliant to international standards (CERIF). The standardised exchange of metadata relieves the administrative workload of researchers, enhances the efficiency and quality of research support. This poster illustrates in detail the data flows of RIS Synergy's use cases throughout the entire research life cycle.

Funding programme call data



RIS Synergy developed a shared service for funding programme call data. The shared service allows organisations to transmit data automatically via a REST API. Organisations without a database can provide call data manually. Users of the shared service (e.g. universities, funding organisations) can access funding call information via REST API, and can also curate data in the data base. The data can be used for the optimisation of internal services and for information purposes.

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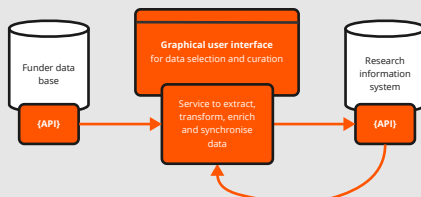
Adapted from: Jakob Puttinger, Sabine Neff, & Ulrike Hicker. (2022). RIS Synergy: Data Flows. Zenodo. <https://doi.org/10.5281/zenodo.7027210>.



Symbols

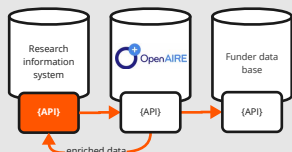


Project data



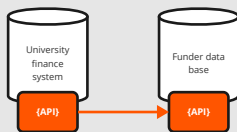
During the life cycle of a funded research project, information about the project or the funding status often needs to be updated and exchanged between funding organisations and research institutions. RIS Synergy provides REST APIs to automate these complex data flows. Funding organisations provide data that will be automatically synchronised into research information systems by research institutions.

Publication data



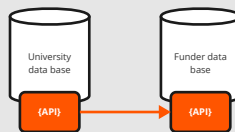
RIS Synergy provides a solution for streamlining project reporting on publications. When entered in the local RIS, publications related to a project can be submitted via Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH) to OpenAIRE where the systems of funding organisations can collect this information.

Financial data



RIS Synergy is streamlining financial reporting processes for research projects by automatising the digital submission of financial data. Financial reporting data on projects is sent from the finance systems (SAP) of research institutions to the funding organisations.

Organisation data



RIS Synergy provides data exchange for data on organisational units of Austrian research institutions. Data can be synchronised via REST API. Organisation data is exchanged during the entire project lifecycle.