RIS SYNERGY

RIS Synergy Data Flows

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 on all sides, 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 calls, or publications, which are compliant to international standards (CERIF). This poster explains the use cases that the RIS Synergy project consortium has prioritised and that will be implemented as part of the project.
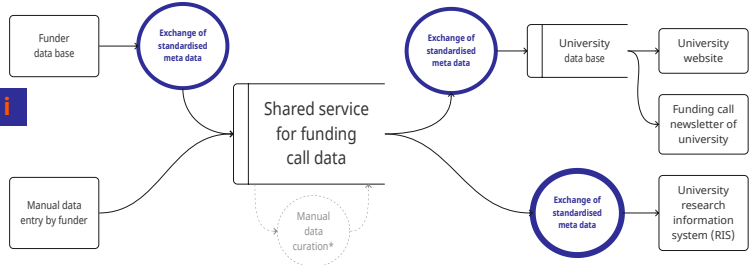
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*Planned extensions

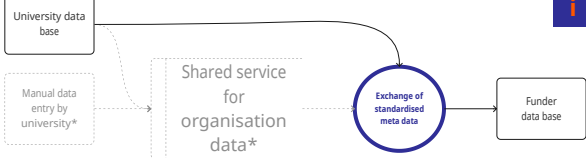## Funding call data

RIS Synergy develops a shared service for funding call data. Focussing on automated data exchange, the shared service allows funding organisations without a database to enter call data manually. Users of the shared service (e.g. universities, funding organisations) can access funding call information via REST API, and further use the data for the optimisation of internal services and for information purposes.
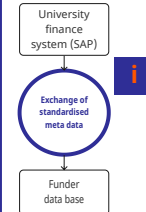

Funder data base → Exchange of standardised meta data → Shared service for funding call data

Manual data entry by funder

Manual data curation*

Exchange of standardised meta data → University data base → University website / Funding call newsletter of university

Exchange of standardised meta data → University research information system (RIS)

Organisation data

RIS Synergy provides data exchange for data on organisational units of Austrian research institutions. Data can be synchronised via REST API. As a planned extension, organisations will be able to also ingest organisation data manually in case no machine-actionable data on the internal organisations is available. Funders can access data via REST API for further use.
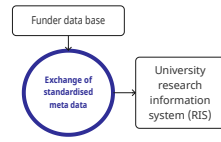
University data base → Shared service for organisation data* → Exchange of standardised meta data → Funder data base

Manual data entry by university*

Financial reporting data

RIS Synergy is streamlining financial reporting processes for research projects by auto-matising 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. This data flow has already been implemented by the FWF, and is currently being evaluated for usability by the WWTF.
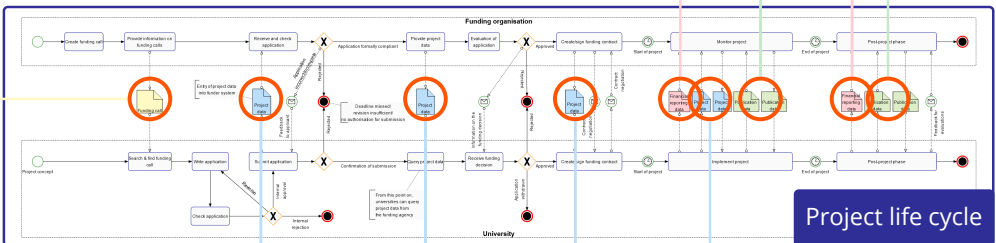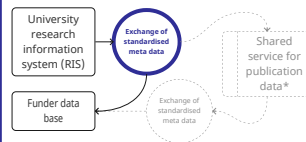
University finance system (SAP) → Exchange of standardised meta data → Funder data base

Project data

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

Funder data base → Exchange of standardised meta data → University research information system (RIS)

Publication data

RIS Synergy provides a solution for streamlining project reporting on publications. When entered in the local RIS, publications related to a research project can be submitted via REST API to a funding organisation. As a first step, the data transfer of publications with DOI will be established.

University research information system (RIS) → Exchange of standardised meta data → Shared service for publication data*

Funder data base → Exchange of standardised meta data

Project life cycle

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