

EUDAT services in ROHub for storage of scientific artefacts and publication of research objects

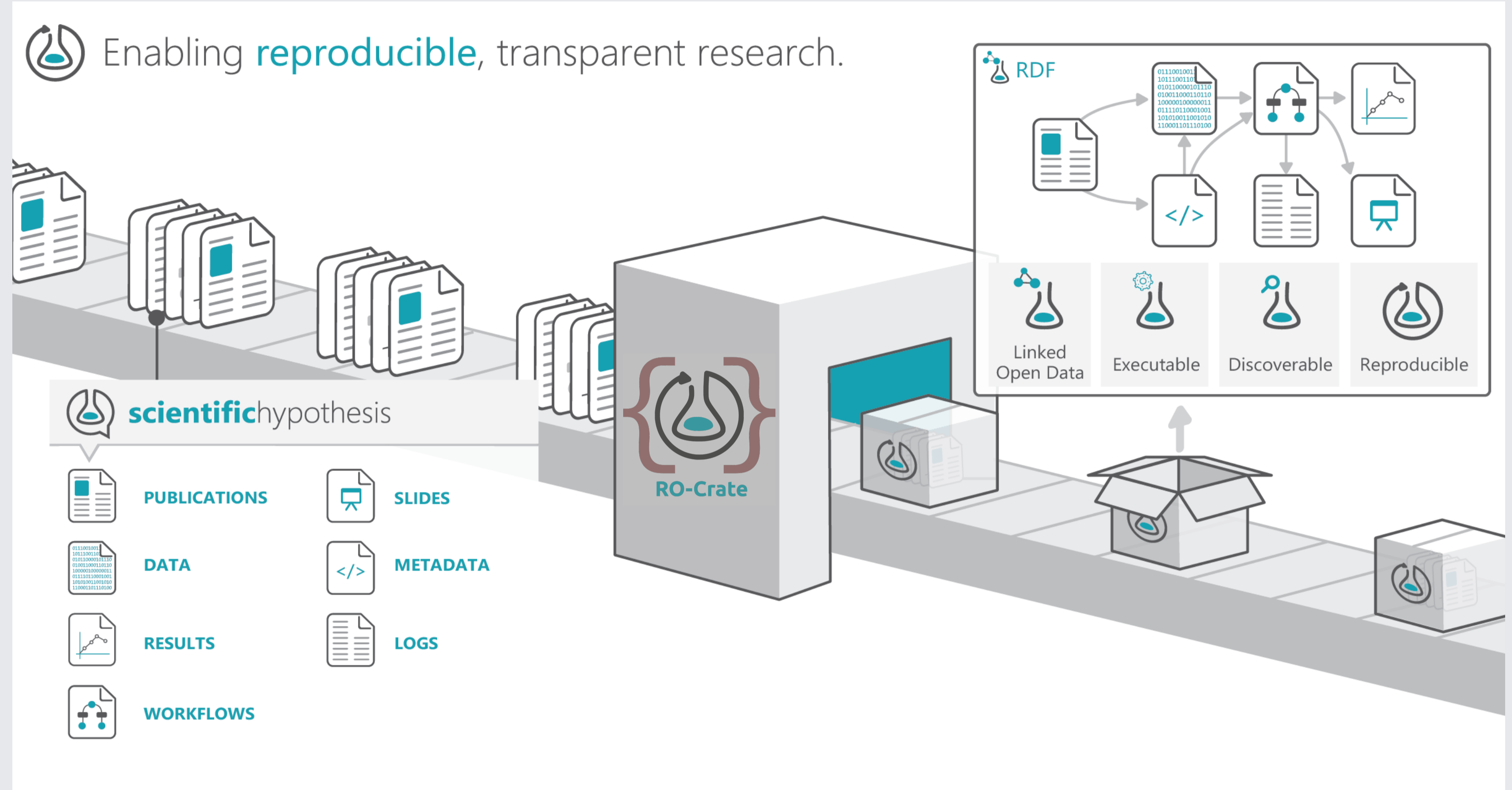
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SCIENTIFIC CHALLENGE

Resources generated/consumed by researchers and data managers during the research lifecycle are in many cases **scattered** and **not easily shareable**, or **too large** for local storage.

Access to the research resources, their provenance, and relations via a **single entry point** can support the reuse and reproducibility of results, facilitate trainings, and reduce the learning curve of new group members.

Research Objects (ROs) and supporting services in RELIANCE, and their integration other **EOSC services**, provide the mechanisms to address those challenges.



BENEFITS OF EUDAT SERVICES

RELIANCE integrates different **EUDAT services** in **ROHub**, benefiting researchers/data producers:

- B2Drop provides a **personal storage space** to ROHub users
- B2Drop resources are accessible and findable via different interfaces (e.g., ROHub, **EOSC explore**, B2Drop and other EOSC services integrating it, e.g., **EGI Notebook**)
- B2Drop resources are connected via the encapsulating **RO**, which provides an **integrated view** over fragmented resources using PIDs and metadata.
- RO snapshots/releases can be published in B2Share by ROHub, making them **findable by other communities**.

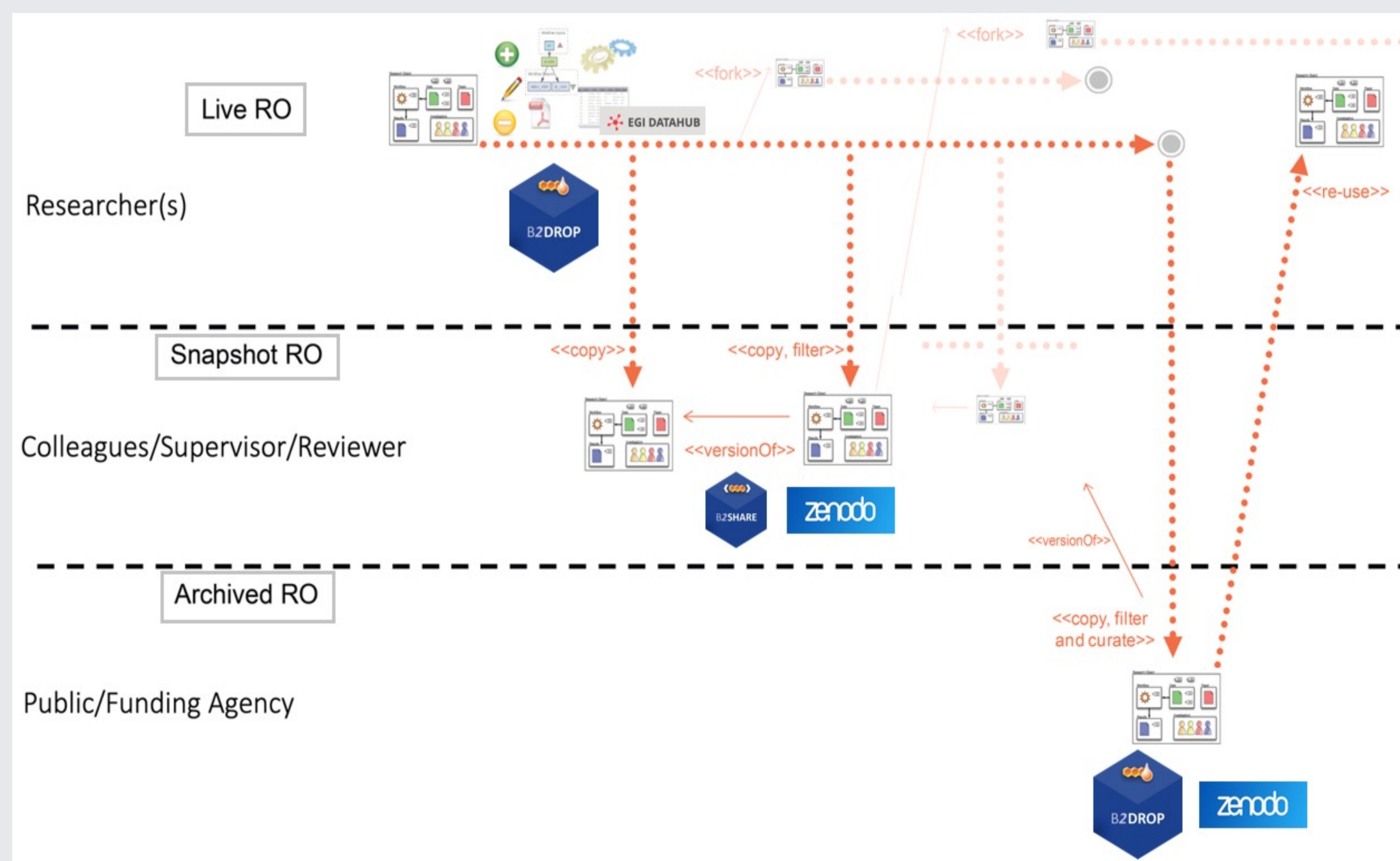
IMPLEMENTATION

Regarding B2Drop

- ROHub creates the root folder “/RoHub/ros/” in the users’ B2Drop space
- The RO content is reflected in the RO folder in root folder
- For ROHub users, resources in B2Drop are displayed and can be used/shared in the same way as any other resource
- Changes in resources via ROHub are reflected in B2Drop, and viceversa (in progress)

Regarding B2Share

- ROHub users can select B2Share as publication service during the generation of RO snapshots/releases,
- ROHub creates a record in B2Share with a subset of the research object metadata, and uploads the RO-crate zip file
- B2Share record includes link to the original RO in ROHub, and ROHub includes link to the B2Share record.
- DOI can be generated either by ROHub or B2Share



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