



Building a Portal for Interdisciplinary Planetary Data

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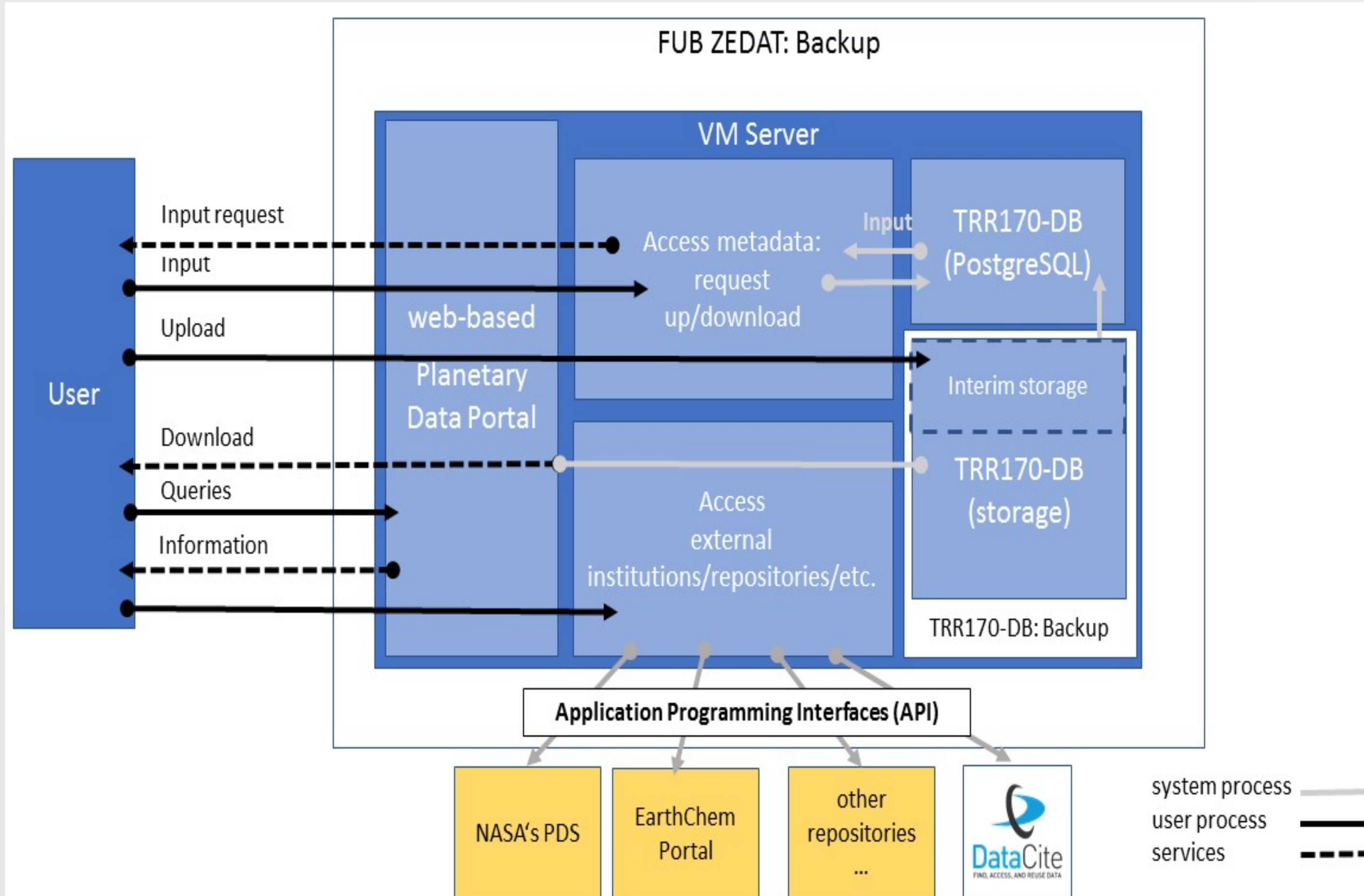
State and Limitation of Current Research Data Repositories

- Repository landscape in planetary sciences highly fragmented and dispersed between different scientific disciplines.
- Repositories often managed by institutions on national or European level: allow typically only deposition of data from supported projects.
- Currently no research data infrastructure to serve as a central point of access and to retrieve data from different community databases and information portals in planetary sciences.

Main Objectives of the TRR 170-DB Project

- Set up and run the file management and database system **TRR 170-DB** to manage and long-term store TRR 170 and other related research data.
- Set up **Planetary Data Portal** website for **TRR170-DB Access** (www.planetary-data-portal.org)
- Advance the **Planetary Data Portal** to provide a novel access point to diverse data from various planetary science communities.

TRR170-DB Research Data Management (RDM) System



- Operated on Dataverse
- Continuous software updates
- Host: virtual machine with FUB's central computing center ZEDAT
- Backups: centrally: ZEDAT, locally: Dataverse
- Choice of metadata templates (DDI, Dublin core, DDI, IVOA, etc.),
- Data formats for CSV, XLSX; images: JPEG, TIFF, or PNG). => JSON
- Data entries quality checked, categorized
- Data obtain DOI through DataCite

Current Work

Data collection and quality assurance

- Continuous transfer of TRR 170 research data into **TRR 170-DB**
- Check on uploaded data for completeness and usefulness

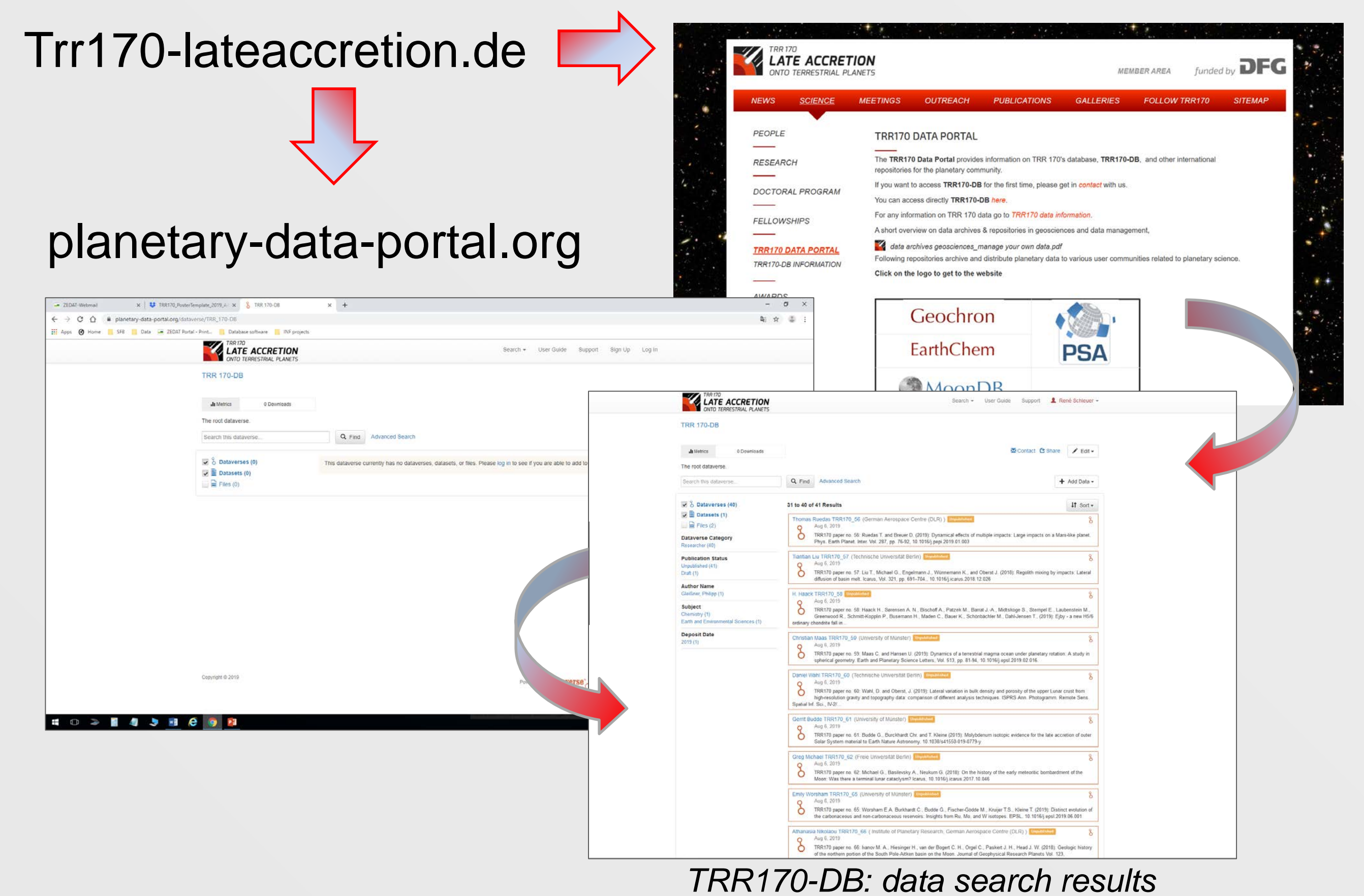
Building and improving functionalities

- Provide adjusted metadata forms
- Re-format data into supported metadata formats
- Obtain DOIs, define CC licenses

Visibility

- Presentations at international conferences and workshops

Access of TRR170-DB



Future Work

TRR170-DB

Data collection and quality assurance

- Continuous data transfer and quality assurance

Visibility

- Register with r3data

Building and improving functionalities

- Speed up data collection via improved workflow routines
- Improve search and other functionalities

Storage and sustainability

- Long-term storage options: ongoing discussion with major data repositories in geo and planetary sciences

Manuscripts, documents, etc:

- Data publications, user manual, etc.
- Community engagement**
- Workshops, webinars
- Newsletter**

Interoperability with external repositories

- Interface with other information infrastructures and repositories via APIs

