

WSL ENVIDAT USER GROUP MEETING: EAWAG RESEARCH DATA

— CURRENT STATUS AND CHALLENGES —









OVERVIEW

1. technical infrastructure development:

ERIC-internal, ERIC-public, ERIC-control
(ERIC = Eawag Research Data Institutional Repository)

2. support activities:

consulting w.r.t. "open data", DMP, general data management

3. other tasks:

policy development, outreach



INFRASTRUCTURE SOFTWARE DEVELOPMENT



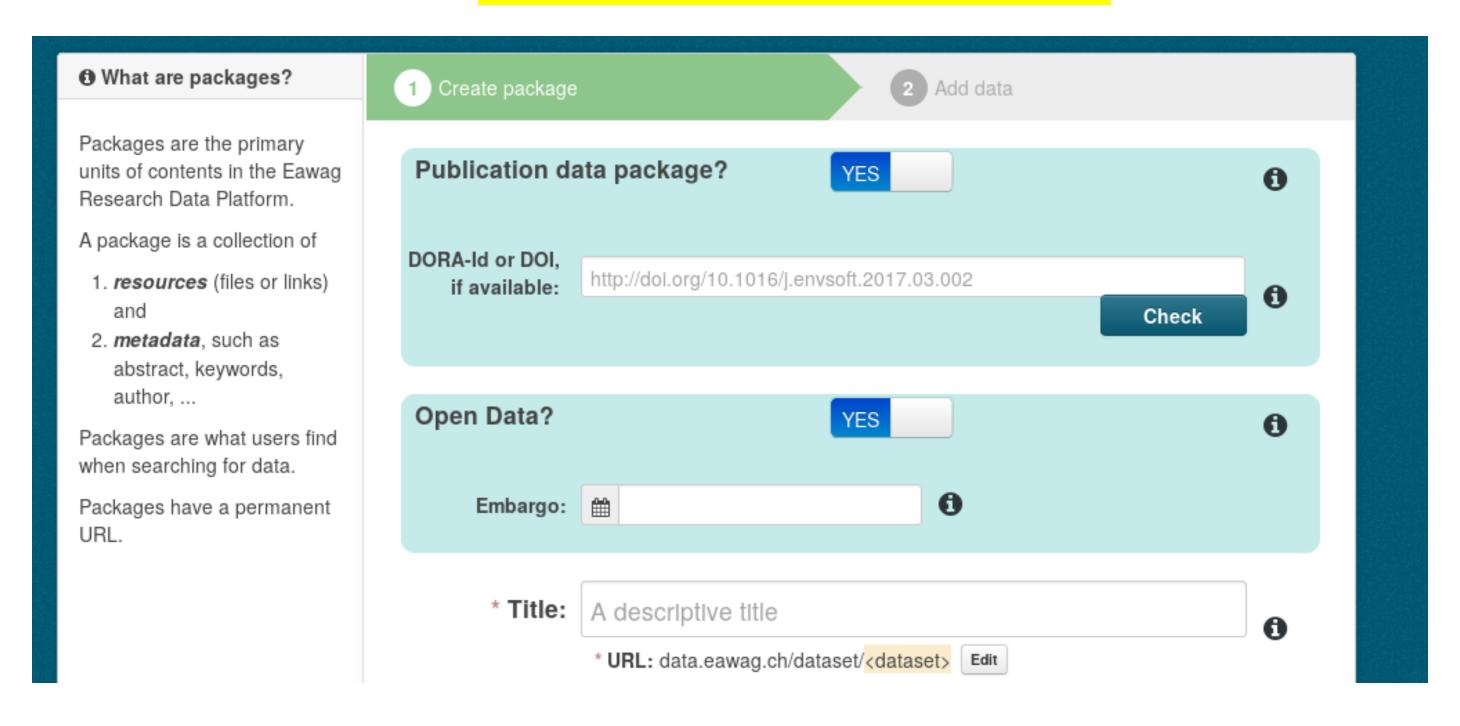
SYSTEM ADMINISTRATION



- Integrated user-feedback from public beta
- Added some necessary features (private data, publication package workflow)
- Connected to 11 TB fast storage
- SOLR index in Postgres DB in separate VM

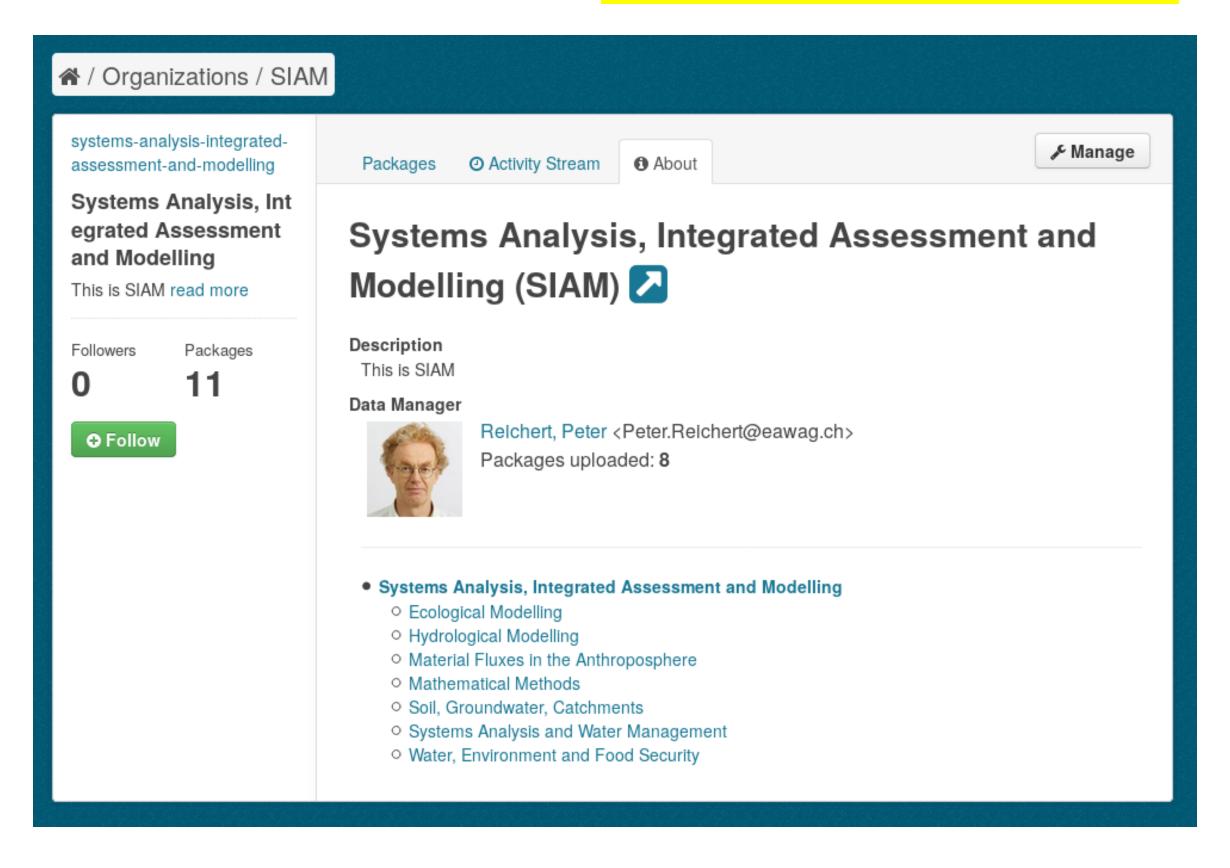


Improved support for publication data packages:



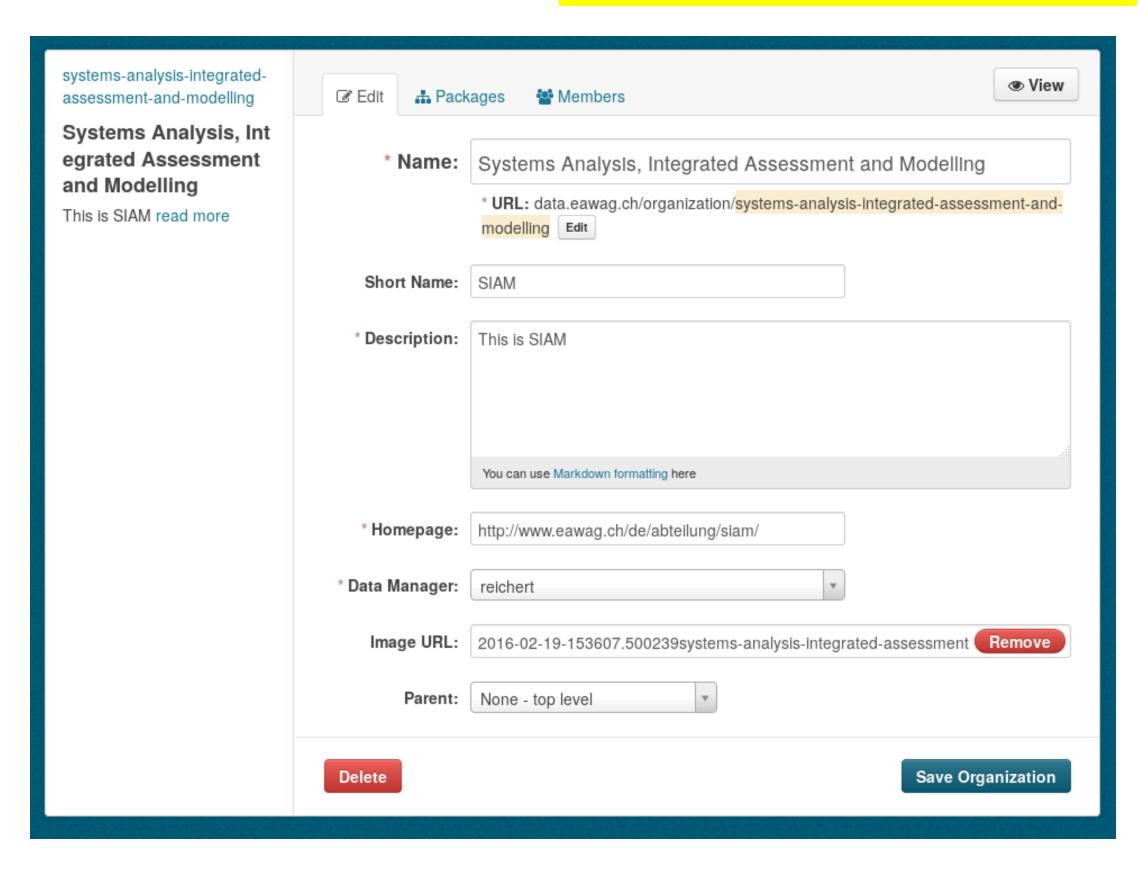


Improved representation of the organizational structure:





Improved representation of the organizational structure:





ERIC-PUBLIC

- Separate stripped-down (no user-management and package upload) CKAN instance.
- Separate (logical) storage: Exploit FS-level deduplication.
- Separate Index and DB (next step).
- In the DMZ.
- Consider it hacked.



ERIC-CONTROL DOI-MINTING PUBLIC-INTERNAL-MANAGEMENT DORA INTEGRATION

- DOI minting works semi-automatically (fill a JSON-template)
 There will be always a manual step (correctness check)
 A workflow augmented with a GUI needs to be established in the long run.
- public-internal-management: Not even started.
 I envision an independent micro-service.
 Start with CLI-scripts.
- DORA-integration: postponed indefinitely.



SUPPORT CONSULTANCY & SERVICES





Storage procurement:

We want to move 5 TB from external HDs to somewhere

- => develop IT-policy for shared storage access, develop intra-IT workflow, act as first contact for storage management.
- SNSF Data Management Plan: Individual reviews, SNSF DMP Guide, workshops.
- "Open Data", data journals, data publication strategy, ...
- General data management: data bases, workflow, project planning, file formats, software, ...





- ERIC support & workshops
- ERIC system administration
- data package quality control:
 calculate ~1 hr per data package
- DOI management:
 - Still quite manual
 - currently involves Zenodo or other public repository



OTHER OUTREACH & POLICY DEVELOPMENT





Development of an Eawag data archival policy

hvw/ 2018-01-04

Eawag directive on the archival of research data

1 Preamble

Eawag recognizes the fundamental importance of research data in maintaining quality research and scientific integrity, and is committed to pursuing the highest standards. data management standards [we should say highest standards regarding what, I suggest "data management", an alternative could be "research integrity"] Eawag acknowledges that correctly and easily retrievable research data are the foundation of and integral to most researchs projects. They are necessary for the verification and defence of most research processes and results. Research data have a long-term value for research and academia, with the potential for widespread use in society.

This directive is based on and concretizes the regulations regarding the collection, documentation and archival of research data set forth in the Guidelines for Good Scientific Practice¹.

Maintenance of Eawag research data management website: opendata.eawag.ch

QUESTIONS?

DATA MANAGEMENT



cc-by http://hochstenbach.wordpress.com