## Status report on Pilot for DOIs service at DESY

What are the features you can expect?

What are the prospects?

What is left to do to get there?

Regina Hinzmann with input from many esp. IT collegues Johannes Reppin, Armando B Martinez, Tim Wetzel and Tobias Klann.





benefiting from DESY involvements in European project that triggered SciCat activities (DESY-IT-RIC)

#### Beginning Oct - Mar

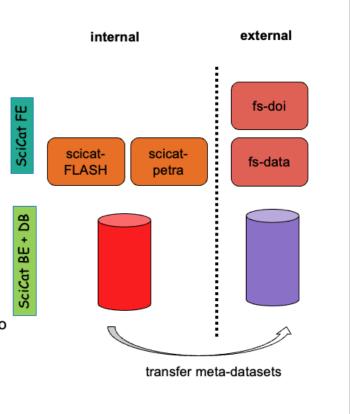
- IT and FS agreed on a set up: to handle data under embargo and those for which a DOI will be minted.
- we worked on such a setup with this concept:
  - to have an **internal catalogue** in which (**all**) **beamline data** is ingested into, just as the demonstrator instance at P08.
  - From that internal catalogue the user shall select those datasets (of metadata) which are to be published and DOI minted.
  - The user would need to transfer the metadatasets to an external catalogue, being exposed to the www without authentication and configured to point to a Landing page.

#### Sketch of DOI service for FS

- Coordinate efforts to set up a DOI service for FS: benefit from IT-RIC efforts who is involved in several European projects (e.g. EOSC beyond, NFDI, Helmholtz, etc).
- Pilot DOI service fo FS will be able to
  - transfer user selected meta-datasets from internal, existing SciCat to externally accessible SciCat,
  - publish meta-datasets; mint meta-datasets with DOI.
- Productive SciCat DOI service for FS will be able to
  - transfer selected datasets in a more user friendly way,
  - enable a more refined DOI minting process, introducing reservation of DOIs for DESY data, automated after embargo period, for better data curation.
- Timeline: pilot expected to be ready late Q1/2025

R Hinzmann | 20.01.2025

DESY.



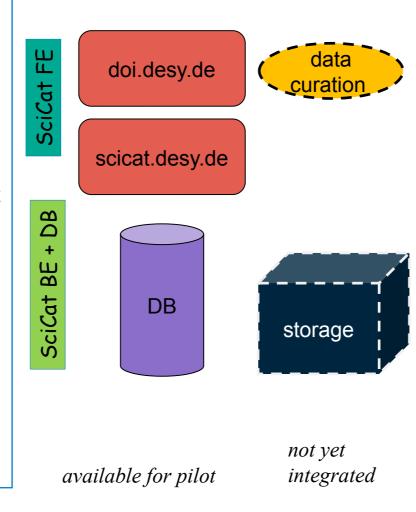


Seite 2

### Status update since start in Okt 2024

#### **Status**

- We moved away from OpenStack and use already the productive environment (systems Kubernetes cluster).
- We will deploy a single instance capable of dealing with internal and published meta data.
- Proprietary/industry metadata will not be ingested at all.
- We moved from fs-data.desy.de to scicat.desy.de to cover also cases beyond FS.
- a Landing Page has been configured and set up: doi.desy.de\*
- For the next 1 ½ 2 months: test workflow, collect missing features and benefit from the second round of DAPHNE contribution to SciCat.



#### Outlook

- pilot anticipated (early) Q2.
  - catalogue function for meta datasets for all beamlines where ingestion to SciCat is setup.
  - DOIs of selected metadata
  - no direct data access
  - no data curation

#### Prospects/to be decided

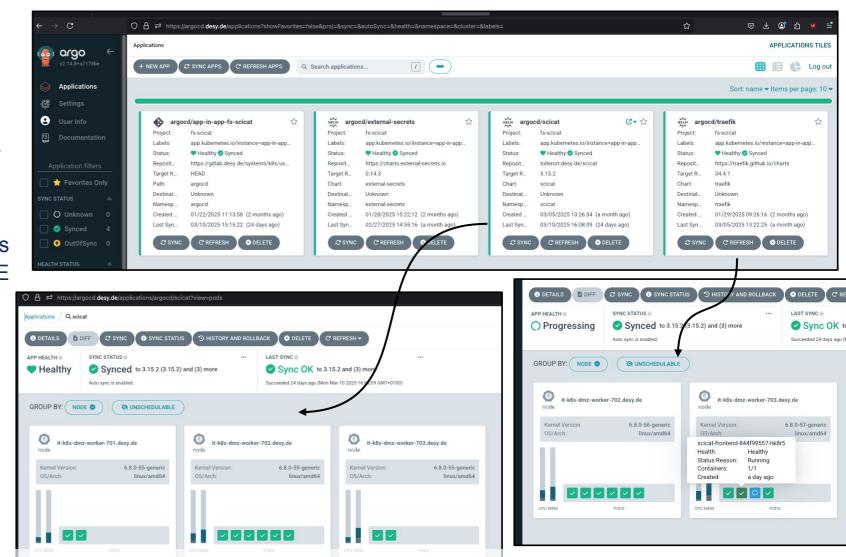
- To provide core functions of a metadata catalogue DESY must agree on
- workflow of DOI minting at DESY. The pilot offers a crude way to mint DOIs. But: combine it with curation service of library?
- 2. Needs agreement: What are automated and what manual parts in the workflow?
- 3. Define **concept of data access** or "download functionality".



## TEST instance scicat.desy.de on systems cluster

Under development and continous improvement. Don't expect stable behavior for now!

- Configured to enable each user to ingest a dataset:
  - no functional account for ingestor is needed which makes it more secure.
- Tweak performance: requested new features for SciCat for better administration, e.g. move the credentials of BE to DB so one can have several BE API servers for 1 DB.
- Next in April: Test the DOI minting workflow with larger test data.
- Plan is to dump TEST data of current SciCat instances into our pilot cleaned from any proprietary data.





credits for set up & running: My IT collegues Johannes Reppin, Armando B Martinez, Tim Wetzel and Tobias Klann.

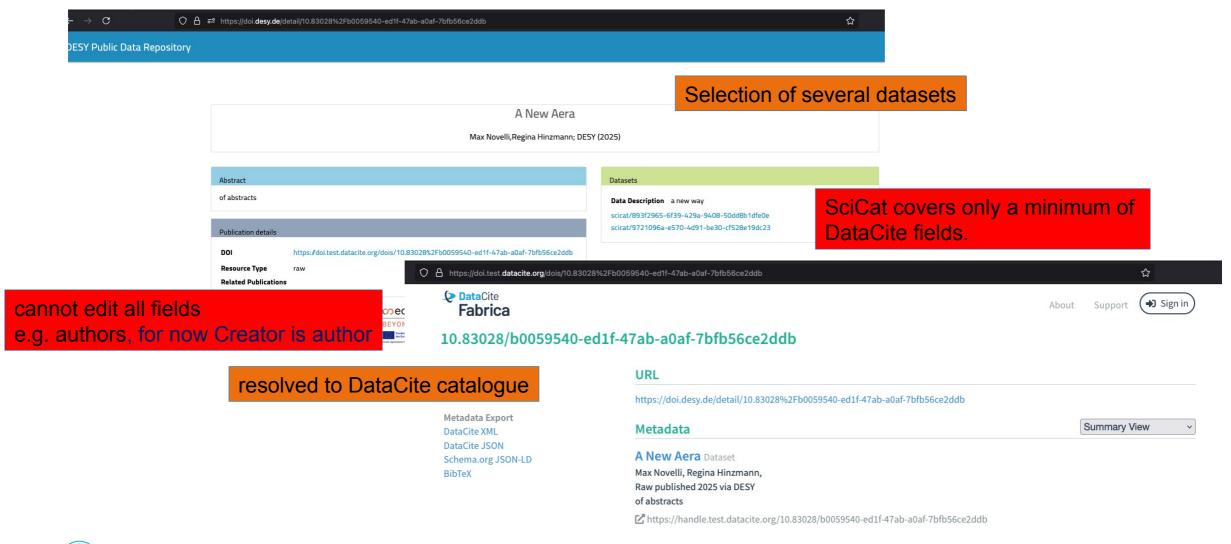
## **DESY-wide metadata catalogue**

for all FS data under embargo





First impressions.





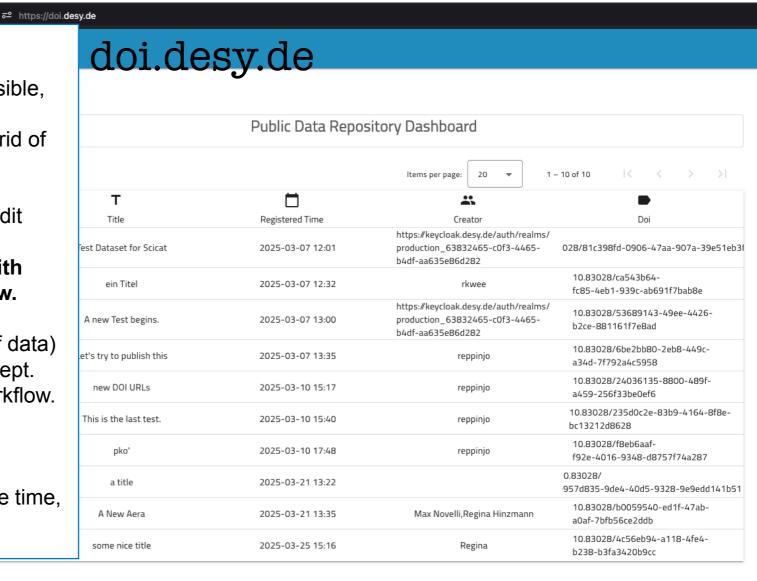
### Next tasks for pilot early O3

- **1.** Iteration with developers, e.g. no search on global Landing Page is currently possible.
  - Be able to edit more fields than currently possible, e.g. authors.
  - Remove selection column (left) or better: get rid of LP but integrate the more general approach published Data as home page
  - Fix DOI minting workflow (e.g. user can still edit record after registration).

Collect all missing features for production. With Nicolas H we worked on an improved workflow.

- Test findability of datasets.
- 3. Disclaimer that no direct data access (download of data) is granted until IT/FS/L agrees and realises a concept.
- Define and perform tests to test stabilty of DOI workflow. Involvement of test user and L (and FS).

**Prospects**: within the next (4) month, ie. early O3, significant improvement will be made. With some grace time, the pilot is considered ready (w/ agreed plan for data access).





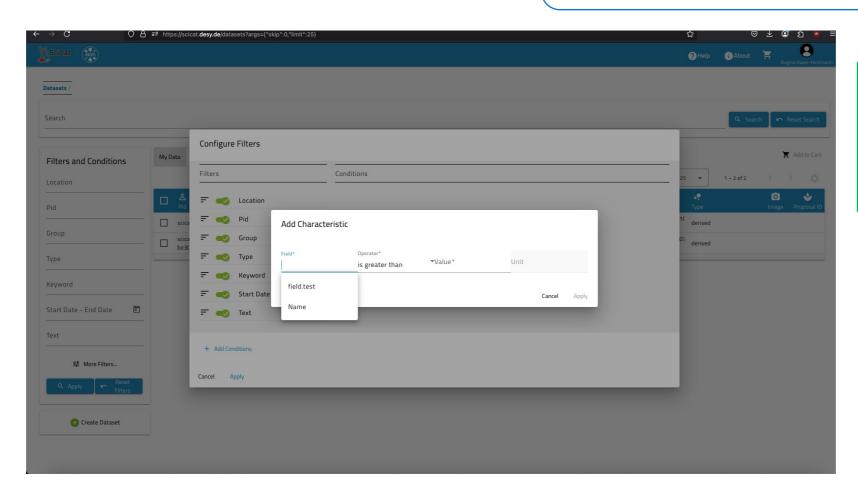
# additional info (reminder)

## **Outlook Pilot**

When SciCat becomes useful...

#### Next items on the table:

- Further improvements on UI/UX especially the **search**.
- Refactor DOI minting procedure.

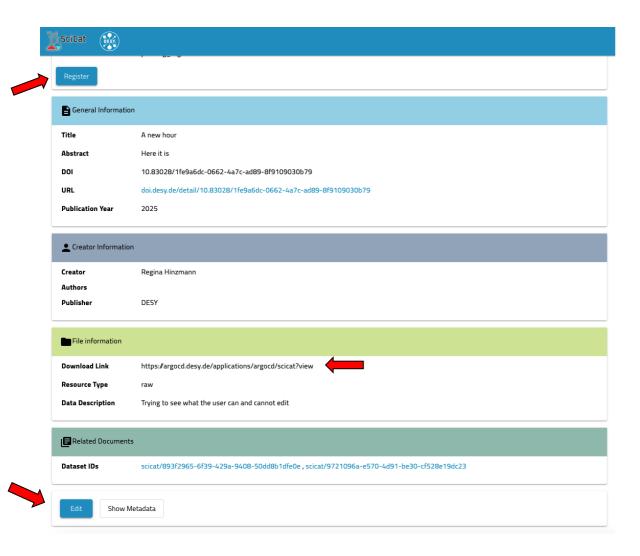


shown at SCT 2025-03-31 https://indico.desy.de/event/48566

Improvements for the second round of DAPHNE contributions to SciCat (DCS).

## **Outlook Pilot**

#### **Usefulness of SciCat: DOIs**



shown at SCT 2025-03-31 https://indico.desy.de/event/48566

Improvements for the second round of DAPHNE contributions to SciCat (DCS).

Next items on the table:

- Further improvements on UI/UX especially the search.
- Refactor **DOI** minting procedure.

From annual meeting last week we worked on a list which Max is now preparing for the next contract.

A big THANK YOU to all who contributed!

