

A photograph of a modern building with a curved glass facade and a metal grid roof structure. The building is situated on a green lawn under a clear blue sky. The text "ExPaNDS WP3 Status @ SOLEIL" and "June 2021" is overlaid on the bottom right of the image.

ExPaNDS WP3 Status @ SOLEIL
June 2021

WP2 (Fair Data) & WP3 (Data Catalog) :

- **Brigitte Gagey** (IT Strategy),
- **Idrissou Chado** (Management Information System),
- **Majid Ounsy** (Data Reduction and Analysis)

WP3 (Data Catalog Services):

- **Idrissou Chado** (Management Information System),
- **Nawel Berqouch** (Software Engineer – Information System Strategy Department)

WP4 (Data Analysis Services):

- **Majid Ounsy** (Data Reduction and Analysis),
- **Eric Moge** and **Alain Buteau** (Information System Infrastructure),
- **Emmanuel Farhi** (Data Reduction and Analysis)

WP5 (Training):

- **Thibaud Cayla** (Scientific Partnerships),
- **Ana Valcarcel-Orti** (Scientific Partnerships),
- + **hiring** in progress (an application has been validated by SOLEIL management)

Data Infrastructure

Facility Proposal Info :

- ✓ Use Office System (UOS) call [SUN set](#) since the opening of SOLEIL
- ✓ Upgrade of the UOS is ongoing
- ✓ Multiple authentication system:
 - ✓ basic authentication, linked to [Umbrella](#) and forseen to link it to Keycloak



Welcome to the **SOLEIL User Net set**.

This is your space to submit a proposal, to ask for access, ..., and manage your personal record as stored in the SUN set.

Please do not hesitate to [contact SOLEIL user office](#) in case you need help.

New SUN set User

Enter here if you were never registered at SOLEIL as a User to create a SUN set account. Registration has to be done only once.

Registered SUN set User

Enter here to log in to the SUN set. You will be prompted for your SUN set user name and password.

Lost Password

Enter here if you do not remember your SUN set username and/or password. You will be prompted for your email address and the SUN set will email to you login information. Please [contact SOLEIL user office](#) in case of remaining problems.

Umbrella User

Enter here to create an Umbrella account or to log in through Umbrella. A federated identity system for the users of the (European) large neutron and photon facilities.



Data Infrastructure

Standard Data:

- ✓ Nexus file is available for most the data recording on all beamlines
 - ✓ Highly recommended
 - ✓ But Data structure is not always followed

PID Issuer:

- ✓ Registered a repository to DataCite : (Test and Production)
- ✓ Carried out tests on minting DOIs
- ✓ Forseen to generated DOI at the level of experiment session
- ✓ But communication action need to be undertaken

Data Policy:

- ✓ Existing [SOLEIL Data Policy](#) since 2018.
- ✓ It is based on the Umbrella consortium data policy
- ✓ Three year under embargo with possibility to extend to five

Ressources:

- ✓ Existing: short & long term storage

Clear and agreed requirements:

- ✓ iCat was tested in the past but finally SOLEIL will stay with SciCat
- ✓ Very large documentation : User & Developers Guide many more
- ✓ Developer meeting and very reactive teams 😊

Solution researched:

- ✓ Not any more

Solutions tested :

- ✓ SciCat has been deployed at SOLEIL very easily (Thanks to microservices)
- ✓ Customized the look and feel
- ✓ Tested and presented to some Beamline Scientists
- ✓ Connected to the DOI landing page

Decision:

- ✓ SciCat because it fit all our need at SOLEIL

File Ingest:

- ✓ Don't have yet.
- ✓ Now we are focusing on the interface between SciCat and the UOS

Authenticated data access:

- ✓ Foreseen set up Keycloak as IAM to data access
- ✓ Idea is to set up an SSO above all our web applications

PaN API:

- ✓ Not yet installed.
- ✓ But we are going to use the search API developed by ESS and PSI in SciCat

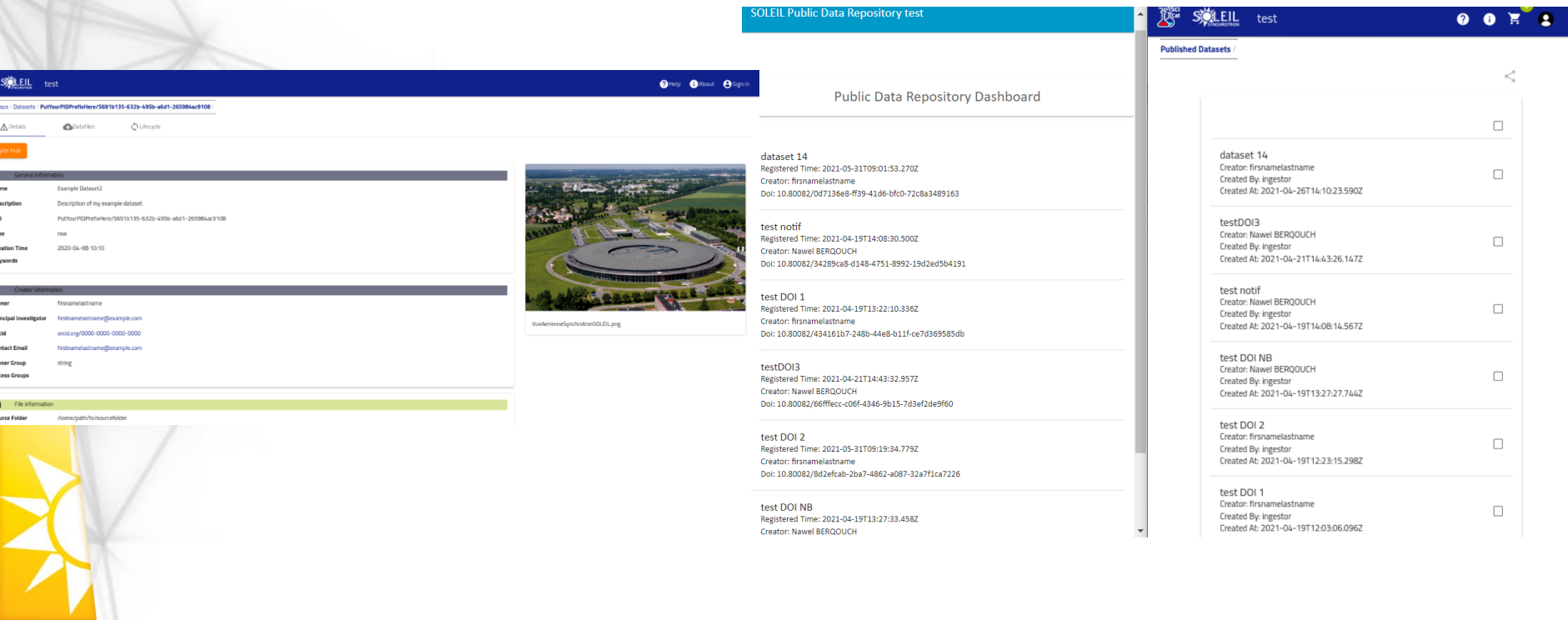


Current Integration status:

✓ 0% < SOLEIL < 25%

Stability

✓ Not yet in production



The screenshot displays the SOLEIL Public Data Repository test interface. The main dashboard area shows a list of datasets with the following details:

- dataset 14**: Registered Time: 2021-05-31T09:01:53.270Z, Creator: firstname.lastname, Doi: 10.80082/0d7136e8-f93-41d6-bf0-72c8a3489163
- test notif**: Registered Time: 2021-04-19T14:08:30.500Z, Creator: Nawel BERQOUCH, Doi: 10.80082/34289ca8-d148-4751-8992-19d2ed5b4191
- test DOI 1**: Registered Time: 2021-04-19T13:22:10.336Z, Creator: firstname.lastname, Doi: 10.80082/434161b7-248b-44e8-b11f-ce7d369585db
- testDOI3**: Registered Time: 2021-04-21T14:43:32.957Z, Creator: Nawel BERQOUCH, Doi: 10.80082/66ffec-c06f-4346-9b15-7d3ef2de9f60
- test DOI 2**: Registered Time: 2021-05-31T09:19:34.779Z, Creator: firstname.lastname, Doi: 10.80082/8d2efcab-2ba7-4862-a087-32a7f1ca7226
- test DOI NB**: Registered Time: 2021-04-19T13:27:33.458Z, Creator: Nawel BERQOUCH

On the right side, the 'Published Datasets' section lists several datasets with checkboxes for selection:

- dataset 14**: Creator: firstname.lastname, Created By: ingestor, Created At: 2021-04-26T14:10:23.590Z
- testDOI3**: Creator: Nawel BERQOUCH, Created By: ingestor, Created At: 2021-04-21T14:43:26.147Z
- test notif**: Creator: Nawel BERQOUCH, Created By: ingestor, Created At: 2021-04-19T14:08:14.567Z
- test DOI NB**: Creator: Nawel BERQOUCH, Created By: ingestor, Created At: 2021-04-19T13:27:27.744Z
- test DOI 2**: Creator: firstname.lastname, Created By: ingestor, Created At: 2021-04-19T12:23:15.298Z
- test DOI 1**: Creator: firstname.lastname, Created By: ingestor, Created At: 2021-04-19T12:03:06.096Z

The interface also includes a sidebar with general information, creator information, and file information, as well as a central image of the SOLEIL facility.

EOSC Integration

Federated access to data:
OAI-PMH implemented
Harvesting by EOSC services
EOSC Services access
EOSC statistics

PaN specific Implementation

Domain metadata ingest
Raw and derived data catalogued
Data provenance
Calibration data
Link to external PIDs (such as instrument, ORCID, Organisation, sample ...)
Link to publications

eLogBook data

- ✓ Discussion group with scientists to review the needs about the existing Elog inherited from PSI but we look for new one

Close the gap to set up Data catalog

- Implementation of webservice to retrieve administrative metadata from Digital User Office Tool (SUN set) and insert them into SciCat Database
- Set up an authentication on SciCat ==> connect it to SOLEIL's AD
- Develop an ingestor to collect proposals, samples ... metadata into SciCat
- Test the Search API integrated into SciCat

Question ?

