

MXCUBE/ISPYB MEETING

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# ISPyB status at MAXIV

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# Py-ISPyB status

- **Sample management**
  - Working on back-end to get a JSON object with the container info and upload all the samples at one time.
- **Results visualization**
  - Working on the panels to be used with different type of data collections
    - Default MX (ongoing)
    - SSX (soon)
    - XRF scan
    - Energy scan
    - Mesh

TODO LIST 2024-2025	
Proposals	✓
Sessions	✓
Proteins	✓
Shippings	✓
Parcels	✓
Containers	✓
Samples	⚠
Results visualization	⚠
Sample Changer	✗
Synchronization	⚠

# Py-ISPyB status II

- SSX experiments
  - Starting storing some SSX data about Processing results
    - Hit rate
    - Indexing rate
    - Indexing type
    - Number of crystals
  - New SSX panel soon






TODO LIST 2024-2025	
Proposals	✓
Sessions	✓
Proteins	✓
Shippings	✓
Parcels	✓
Containers	✓
Samples	⚠
Results visualization	⚠
Sample Changer	✗
Synchronization	⚠

# Py-ISPyB & MXCuBE & EDNA & FragMAX

- Q2 2025
  - Update MXCuBE authentication to use py-ispyb backend.
  - Use REST instead of SOAP in the ISPyB HWObj to store DataCollection info
- Q3 2025
  - Update EDNA code to use the new backend to store pipeline results
  - Update MXCuBE to get the samples info from the new backend
  - Update FragMAX to use the new backend to get the samples info

TODO LIST 2025	
Authentication	✗
Samples	✗
DataCollections	✗
Pipeline results	✗

# Repositories

- **py-ispyb** 
  - **py-ispyb-ui** 
  - **ispyb-models** 
  - **ispyb-database** 
  - **ispyb-models-pyispyb** 
- I forked the ispyb-models and ispyb-database repositories.
  - I created a new project in Pypi to push the ispyb-models library.
  - We cannot migrate the GitHub to GitLab yet, we need to re-implement all the workflows used by ispyb-models and ispyb-database.
  - I modified the database adding new tables for SSX Processing results, new experiment kinds, update the dockerized version of the database, ...
  - I'm not sure if I should push my changes in the official GitHub repositories instead of my personal ones.

# Py-ISPyB future

- You need to wait until the next session if you want to understand more about MX and SSX experiments at MAXIV

