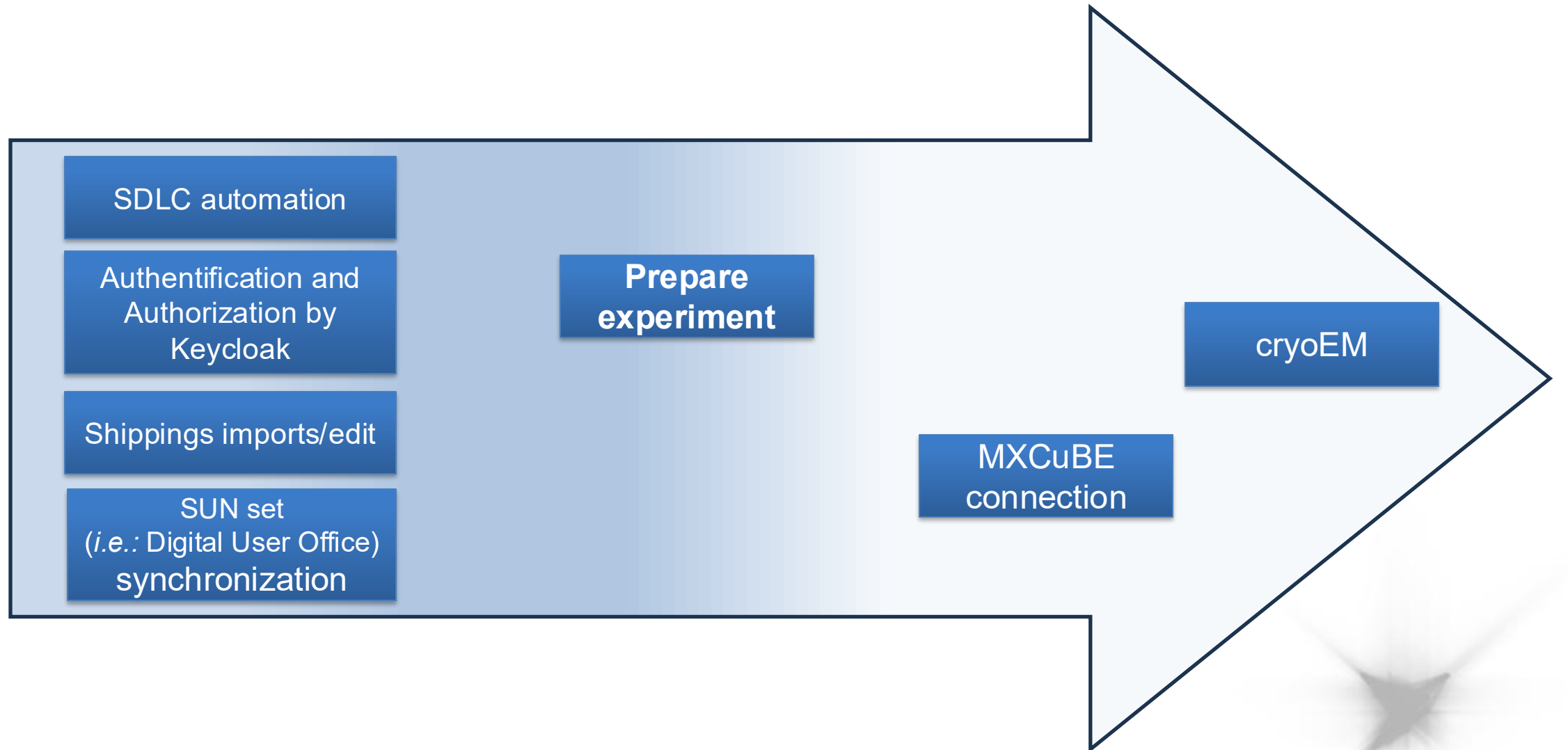


SOLEIL Status Report

Author and presenter: Mohsen Dahesh

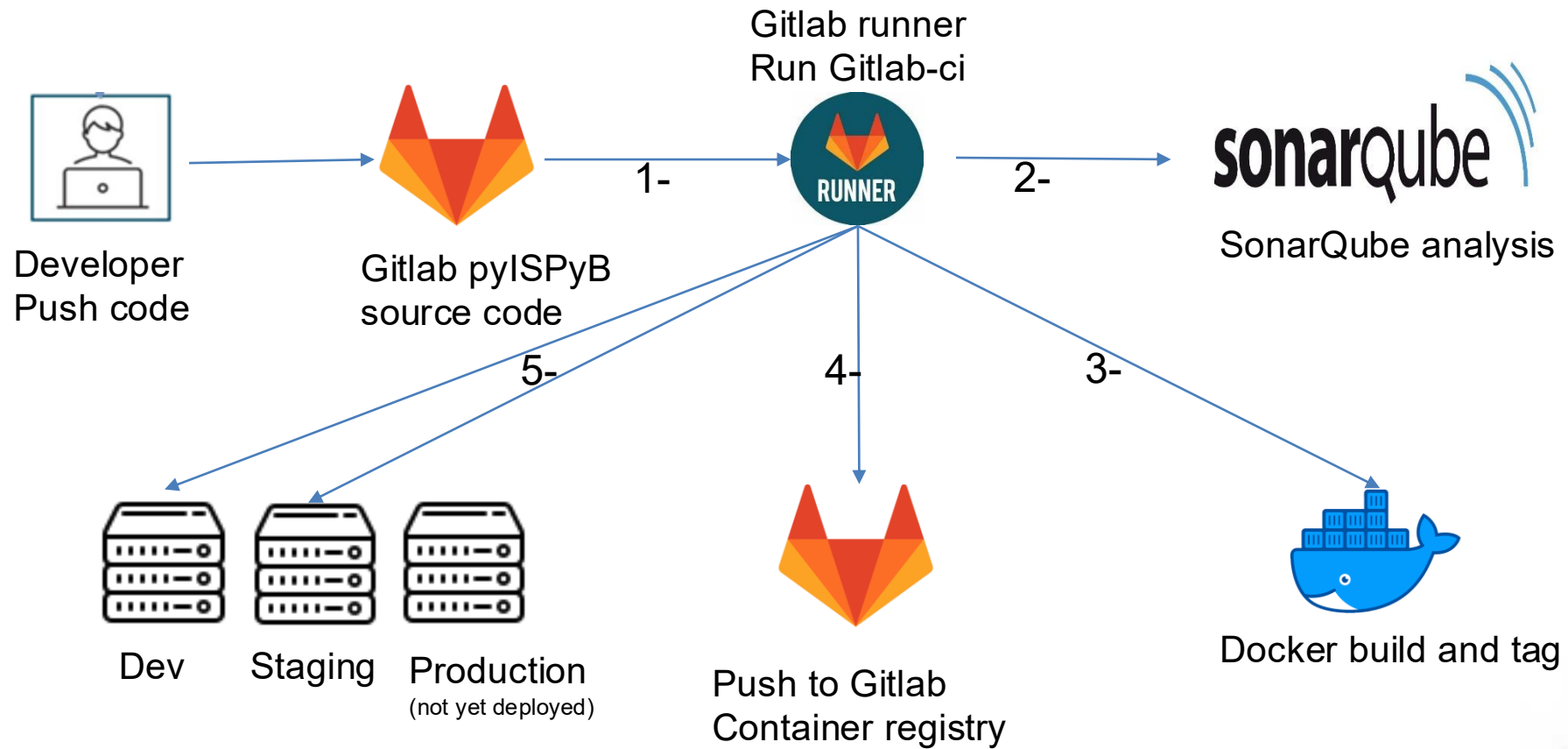


SDLC: Software Development Life Cycle

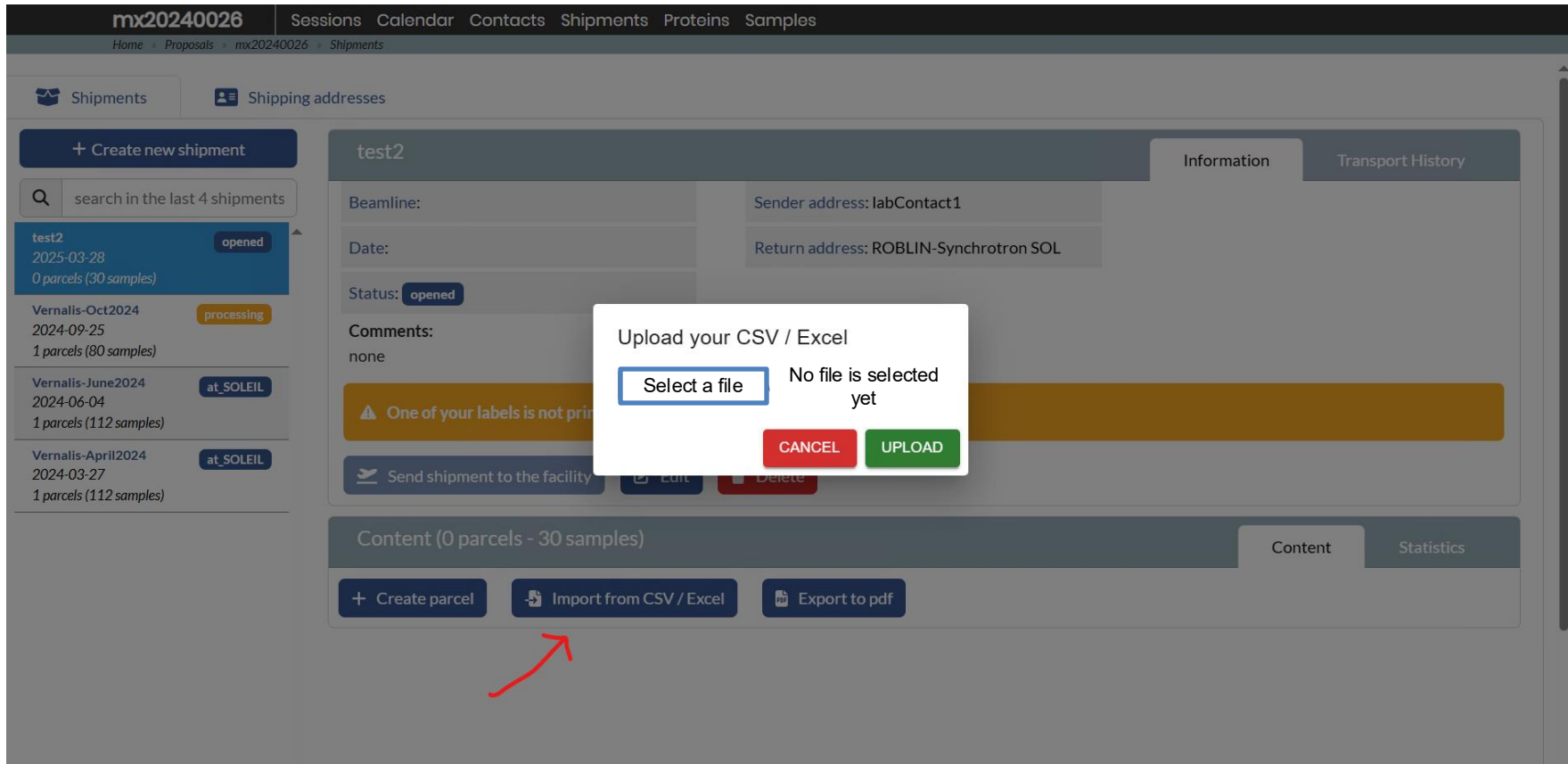
Results

Task	Status	Comments
SDLC automation	95%	Branching strategies, merge request rules, code review, <u>CI/CD pipelines</u> , quality checks, and approval flows
Authentication / Authorization by Keycloak	100%	
Resolve bugs	50%	Notice bug and treating them
Shippings import csv/excel	100%	Import csv/excel files of shipment data
Shippings Container	100%	Create or edit container's samples
Sunset (User office at Soleil) Synchronisation	100%	Connect to Kafka broker and consumed messages
Prepare experiment	50%	

SLCD Automation



Shippings Import CSV or Excel files



The screenshot displays the SOLEIL Shippings management interface. The top navigation bar includes links for Sessions, Calendar, Contacts, Shipments, Proteins, and Samples. The main content area shows a shipment detail view for 'test2' with tabs for Information and Transport History. The Information tab is active, displaying fields for Beamline, Date, Status, Sender address, and Return address. A modal dialog box titled 'Upload your CSV / Excel' is overlaid on the screen, featuring a 'Select a file' button, a 'No file is selected yet' message, and 'CANCEL' and 'UPLOAD' buttons. A red arrow points to the 'Import from CSV / Excel' button in the bottom navigation bar.

mx20240026 Sessions Calendar Contacts Shipments Proteins Samples

Home » Proposals » mx20240026 » Shipments

Shipments Shipping addresses

+ Create new shipment

search in the last 4 shipments

test2 2025-03-28 0 parcels (30 samples) opened

Vernalis-Oct2024 2024-09-25 1 parcels (80 samples) processing

Vernalis-June2024 2024-06-04 1 parcels (112 samples) at_SOLEIL

Vernalis-April2024 2024-03-27 1 parcels (112 samples) at_SOLEIL

test2

Beamline: Sender address: labContact1

Date: Return address: ROBLIN-Synchrotron SOL

Status: opened

Comments: none

One of your labels is not printed

Send shipment to the facility Edit Delete

Content (0 parcels - 30 samples) Content Statistics

+ Create parcel Import from CSV / Excel Export to pdf

Upload your CSV / Excel

Select a file No file is selected yet

CANCEL UPLOAD

After importing a CSV file

Edit

 Send shipment to the facility
  Edit
  Delete

Content (0 parcels - 30 samples)

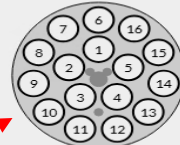
ContentStatistics

+ Create parcel

 Import from CSV / Excel

 Export to pdf

Name: Dewar1
 Status:
 Location:
 Storage:



code: MX-001

type: Unipuck



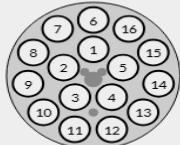
code: MX-002

type: Unipuck



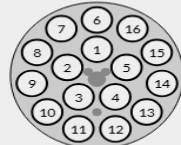
code: MX-003

type: Unipuck



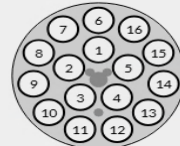
code: MX-004

type: Unipuck



code: MX-005

type: Unipuck



code: MX-006

type: Unipuck



code: MX-007

type: Unipuck

Add container... ▾

 Edit

 [Print Label](#)

 [Print Label - modal](#)

 Remove

Edit container's sample

Edit container

Editing container from:
test2 (Dewar1)

Code: *

Type: Unipuck

Beamline :

#Sample Changer:

Status:

⚠ Sample name field is mandatory and no special characters are allowed

⚠ Protein + sample name should be unique for the whole proposal

#	Protein Acronym	Sample Name	Pin BarCode	Crystal Form	Exp. Type	Aimed resolution	Required resolution	Beam Diameter	Number of positions	Aimed multiplicity	Aimed Completeness	Forced Space G.	Radiation Sensitivity	Smiles	Tot Rot. Angle	Min Osc. Angle	Observed resolution	Comments	Ligands	Energy	Transmission range	Exposure Time	Oscillation Range
1	bo	SampleA01		undefined - (null, null, null - null, null, null)	Default	1.5		50							360					17	100	0.002	0.1
2	bo	SampleA02		undefined - (null, null, null - null, null, null)	Default	1.5		50							360					17	100	0.002	0.1
3	bo	SampleA03		undefined - (null, null, null - null, null, null)	Default	1.5		50							360					17	100	0.002	0.1
4	bo	SampleA04		undefined - (null, null, null - null, null, null)	Default	1.5		50							360					17	100	0.002	0.1
5	bo	SampleA05		undefined - (null, null, null - null, null, null)	Default	1.5		50							360					17	100	0.002	0.1
6	bo	SampleA06		undefined - (null, null, null - null, null, null)	Default	1.5		50							360					17	100	0.002	0.1
7	bo	SampleA07		undefined - (null, null, null - null, null, null)	Default	1.5		50							360					17	100	0.002	0.1
8	bo	SampleA08		undefined - (null, null, null - null, null, null)	Default	1.5		50							360					17	100	0.002	0.1
9	bo	SampleA09		undefined - (null, null, null - null, null, null)	Default	1.5		50							360					17	100	0.002	0.1
10	bo	SampleA050		undefined - (null, null, null - null, null, null)	Default	1.5		50							360					17	100	0.002	0.1
11	bo	SampleA011		undefined - (null, null, null - null, null, null)	Default	1.5		50							360					17	100	0.002	0.1
12	bo	SampleA012		undefined - (null, null, null - null, null, null)	Default	1.5		50							360					17	100	0.002	0.1
13	bo	SampleA013		undefined - (null, null, null - null, null, null)	Default	1.5		50							360					17	100	0.002	0.1
14	bo	SampleA014		undefined - (null, null, null - null, null, null)	Default	1.5		50							360					17	100	0.002	0.1
15	bo	SampleA015		undefined - (null, null, null - null, null, null)	Default	1.5		50							360					17	100	0.002	0.1
16	bo	SampleA016		undefined - (null, null, null - null, null, null)	Default	1.5		50							360					17	100	0.002	0.1

Save

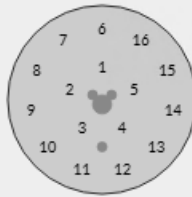
Create samples for container

Name: Dewar178

Status:

Location:

Storage: Dry Shipper



code:

type: Unipuck

Create samples for a container

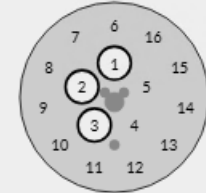


Name: Dewar178

Status:

Location:

Storage: Dry Shipper



code: abcd

type: Unipuck

- Proposal (create/update) —————→
 - Contacts
 - Proteins
- Session (create/update)
 - Contacts
- Proteins (create/update)

```
{
  "proposalId": 10000001,
  "type": "Standard",
  "status": "Accepted",
  "title": "Investigation of hybrid nanostructure formation
mechanisms",
  "abstract": "Generic abstract text",
  "mainProposer": {
    "firstName": "Alice",
    "lastName": "DOE",
    "title": "Dr.",
    "email": "alice.doe@example.org",
    "instituteName": "Generic Research Institute",
    "instituteCountry": "Countryland",
    "instituteCity": "Science City",
    "instituteAddress": "123 Research Avenue"
  },
  "coProposers": [
    {
      "firstName": "Bob",
      "lastName": "SMITH",
      "title": "Dr.",
      "email": "bob.smith@example.org",
      "instituteName": "Advanced Materials Center",
      "instituteCountry": "Countryland",
      "instituteCity": "Innovation Town",
      "instituteAddress": "45 Knowledge Road"
    }
  ],
  "researchArea": "Materials Science",
  "cycle": {
    "name": "CYCLE-25",
    "startDate": "2025-08-31T22:00:00Z",
    "endDate": "2026-02-27T23:00:00Z"
  },
  "components": [
    {
      "componentId": 90001,
      "componentName": "Sample Compound A",
      "componentType": "Chemical",
      "safetyLevel": "Green",
      "componentMetaData": {
        "Mass": "10",
        "formula": "H2O",
        "Substance": "Sample Compound A",
        "massGram": "10"
      }
    }
  ],
  "beamlineStations": [
```

[←](#)
[→](#)
[↺](#)

localhost:3000/proposals/mx20240023/prepare

Home
 [Calendar](#)
[Proposals](#)

efgh Logout

mx20240023

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[Calendar](#)
[Contacts](#)
[Shipments](#)
[Prepare experiment](#)
[Proteins](#)
[Samples](#)

[Home](#)
[Proposals](#)
[mx20240023](#)
[Prepare Experiment](#)

1. Select shipments

<<

<

>

>>

Page 1 of 1

Show 20

Name

Search...

Status

Created on

✕ 2024-12-14

processing

2024-12-13

✕ 2024-10-23

processing

2024-10-22

+ 2024-06-12

at_SOLEIL

2024-06-11

+ 2024-06-05

at_SOLEIL

2024-06-03

+ 2024-03-28

at_SOLEIL

2024-03-25

+ 2024-03-20

at_SOLEIL

2024-03-14

Name

Status

Created on

<<

<

>

>>

Page 1 of 1

Show 20

2. Load sample changer

Fullscreen

Visual

Table

PROXIMA1

Set for all

<<

<

>

>>

Page 1 of 1

Show 20

Prepare Experiment (under development)

localhost:3000/proposals/mx20240019/prepare

Home Calendar Proposals

mx20240019 Sessions Calendar Contacts Shipments Prepare experiment Proteins Samples

Home » Proposals » mx20240019 » Prepare Experiment

1. Select shipments

<< < > >> Page 1 of 2 Show 20

Name

Search...

Name	Status	Created on
20250122_proxima1	processing	2025-01-22
+ test shipment	opened	2025-11-13
+ 20241212_proxima2a	at_SOLEIL	2024-12-11
+ 20241204_proxima1	at_SOLEIL	2024-12-03
+ 20241128_proxima2a	at_SOLEIL	2024-11-26
+ 20241121_proxima2a	at_SOLEIL	2024-11-19
+ 20241031_proxima2a	at_SOLEIL	2024-10-29
+ 20241017_proxima2a	at_SOLEIL	2024-10-16
+ 20241010_proxima2a	at_SOLEIL	2024-10-09
+ 20241003_proxima2a	at_SOLEIL	2024-10-01
+ 20240926_proxima2a	at_SOLEIL	2024-09-25
+ 20240919_proxima2a	at_SOLEIL	2024-09-17
+ 20240912_proxima2a	at_SOLEIL	2024-09-10
+ 20240905_proxima2a	at_SOLEIL	2024-09-04
+ 20240725_proxima2a	at_SOLEIL	2024-07-23
+ 20240718_proxima2a	at_SOLEIL	2024-07-16
+ 20240711_proxima2a	at_SOLEIL	2024-07-09
+ 20240704_proxima2a	at_SOLEIL	2024-07-03

2. Load sample changer

Fullscreen

Show not loaded

0250122_proxima BX041A

PROXIMA1 cell 1 pos 0

0250122_proxima BX033A

PROXIMA1 cell 1 pos 0

0250122_proxima BX029A

PROXIMA1 cell 1 pos 0

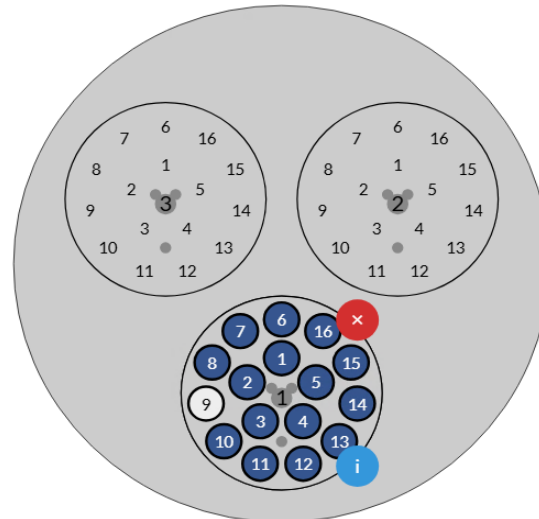
0250122_proxima BX022A

Visual Table

Unload sample changer

Select destination beamline and drag containers to their location.

PROXIMA1



- **MXCuBE connection**
- **Production deployment (Merge MAXIV works on Data acquisitions)**
- **Bug resolutions**
- **Improve API performance (n+1 query problem, caching, heavy computation APIs, etc)**
- **Update third party libraries**
- **Interface with the cryoEM**

Thank you



- MAXIV
 - Alberto NARDELLA,
 - Fabien CORONIS
 - Jie NAN,
 - Ana GONZALEZ
- ESRF
 - SWG group
- SOLEIL
 - PROXIMA-1:
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 - Pierre LEGRAND
 - PROXIMA-2A:
 - Martin SAVKO,
 - William SHEPARD
 - SWING:
 - Aurélien THUREAU,
 - Javier PEREZ
 - IT:
 - Majid OUNSY,
 - Idrissou CHADO