

# ***SOLEIL: STATUS REPORT IMPLEMENTATION OF SMARGON AND REMOTE ACCESS***

**Leo Chavas**

**PROXIMA-I**

**Synchrotron SOLEIL**

**10<sup>th</sup> MxCuBE meeting at ESRF, Grenoble, France**

# Acknowledgments



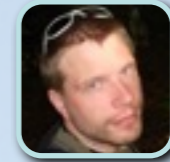
**Patrick Gourhant**  
Assistant engineer



**Leo Chavas**  
Beamline manager



**Bill Shepard**  
Beamline manager



**Damien Jeangerard**  
Assistant engineer



**Pierre Legrand**  
Beamline scientist



**Serena Sirigu**  
Beamline scientist



**Tatiana Isabet**  
Responsible industry



**Gavin Fox**  
Beamline scientist



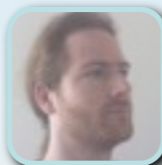
**Martin Savko**  
Beamline scientist



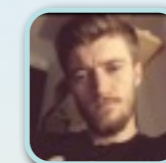
**Tiphaine Huet**  
Post-doctoral fellow



**Pierre Montaville**  
Post-doctoral fellow



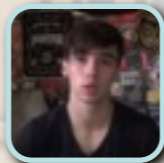
**Igor Chaussavoine**  
PhD student



**Adam Simpkin**  
PhD student



**Enrico Stura**  
Associate scientist



**Robin Lener**  
Apprenti

Ivan Polsinelli    Nicolas Foos  
James Torpey    Nicolas Richet  
Denis Duran    Laurent Gadea

# Acknowledgments



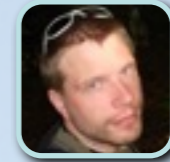
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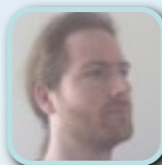
**Martin Savko**  
Beamline scientist



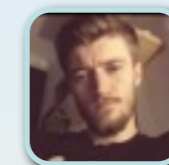
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Post-doctoral fellow



**Pierre Montaville**  
Post-doctoral fellow



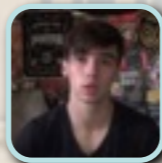
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PhD student



**Adam Simpkin**  
PhD student



**Enrico Stura**  
Associate scientist



**Robin Lener**  
Apprenti

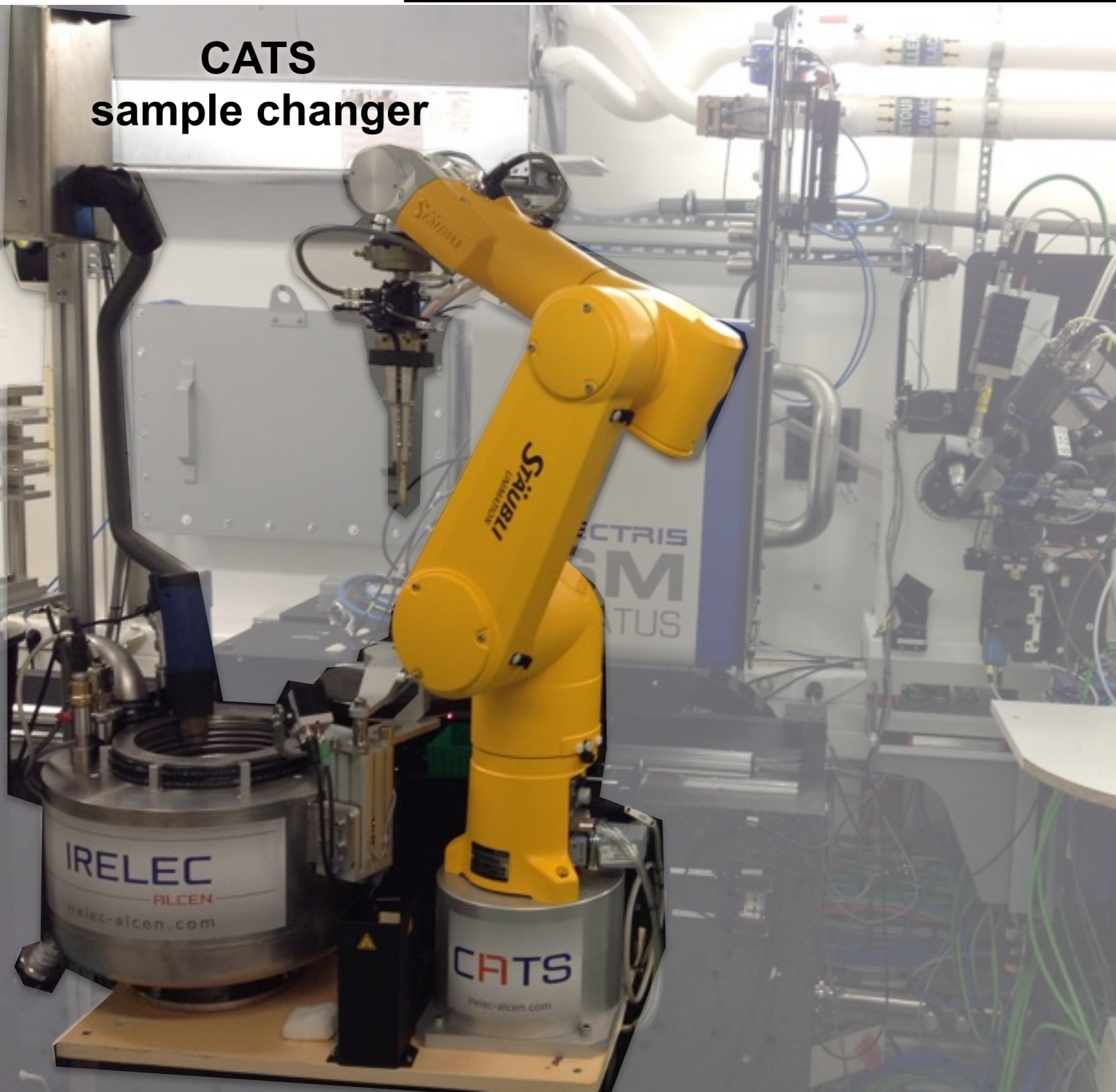
Ivan Polsinelli    Nicolas Foos

James Torpey    Nicolas Richet

Denis Duran    **Laurent Gadea**

# PROXIMA-I

**CATS  
sample changer**



**ENERGY RANGE**

**5.5 ~ 15.5 keV**

**0.8 ~ 2.25 Å**

**OPTICS**

**Channel cut monochromator**

**K/B bi-morph mirrors**

**TYPICAL BEAM SIZE AT SAMPLE**

**20 x 40  $\mu\text{m}^2$  (30x90 $\mu\text{m}^2$  full beam)**

**FLUX AT SAMPLE**

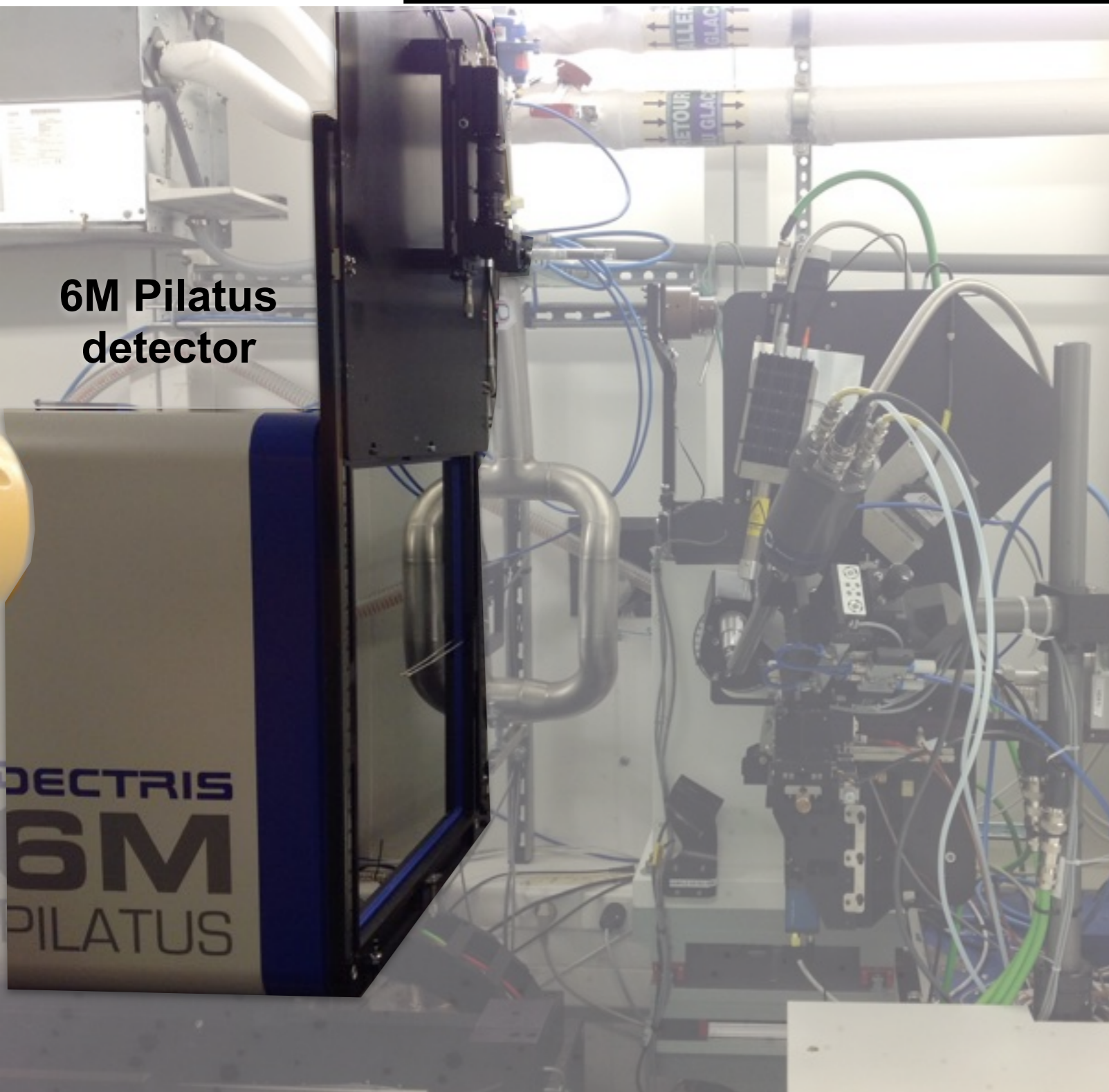
**2.0E+12 phot/s/0.02% bw 500 mA**

**SAMPLE CHANGER**

**CATS (3 spine pucks)**

**possible *in situ* measurements**

# PROXIMA-I



6M Pilatus  
detector

## ENERGY RANGE

5.5 ~ 15.5 keV

0.8 ~ 2.25 Å

## OPTICS

Channel cut monochromator

K/B bi-morph mirrors

## TYPICAL BEAM SIZE AT SAMPLE

20 x 40  $\mu\text{m}^2$  (30x90 $\mu\text{m}^2$  full beam)

## FLUX AT SAMPLE

2.0E+12 phot/s/0.02% bw 500 mA

## SAMPLE CHANGER

CATS (3 spine pucks)

possible *in situ* measurements

## CAMERA

6M Pilatus

# PROXIMA-I

$\kappa$  goniometry

## ENERGY RANGE

5.5 ~ 15.5 keV

0.8 ~ 2.25 Å

## OPTICS

Channel cut monochromator

K/B bi-morph mirrors

## TYPICAL BEAM SIZE AT SAMPLE

20 x 40  $\mu\text{m}^2$  (30x90 $\mu\text{m}^2$  full beam)

## FLUX AT SAMPLE

2.0E+12 phot/s/0.02% bw 500 mA

## SAMPLE CHANGER

CATS (3 spine pucks)

possible *in situ* measurements

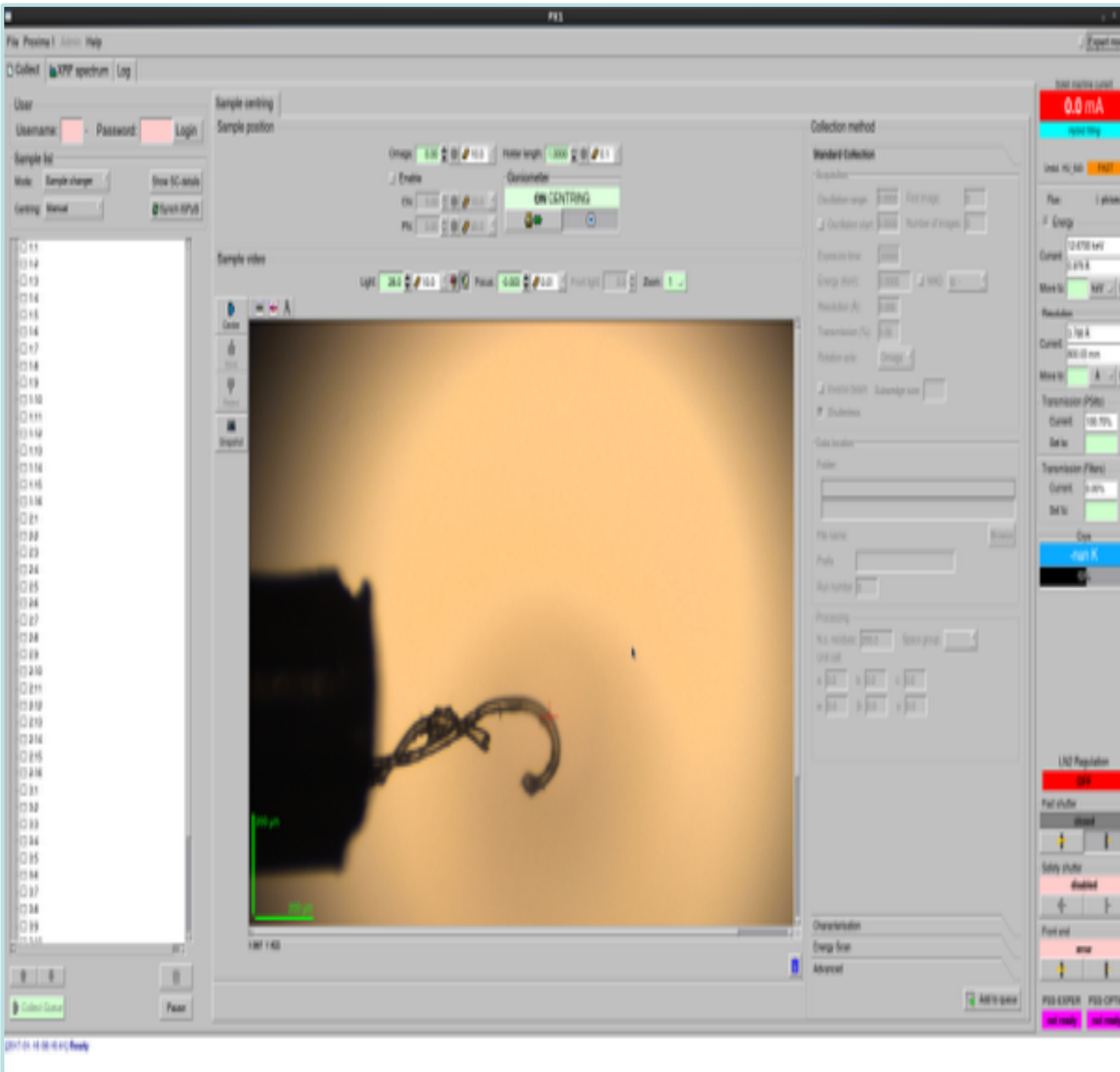
## CAMERA

6M Pilatus

## SAMPLE ENVIRONMENT

3-axis  $\kappa$ -goniometre

# PROXIMA-1



## ENERGY RANGE

5.5 ~ 15.5 keV

0.8 ~ 2.25 Å

## OPTICS

Channel cut monochromator

K/B bi-morph mirrors

TYPICAL BEAM SIZE AT SAMPLE

20 x 40  $\mu\text{m}^2$  (30x90 $\mu\text{m}^2$  full beam)

FLUX AT SAMPLE

2.0E+12 phot/s/0.02% bw 500 mA

SAMPLE CHANGER

CATS (3 spine pucks)

possible *in situ* measurements

CAMERA

6M Pilatus

SAMPLE ENVIRONMENT

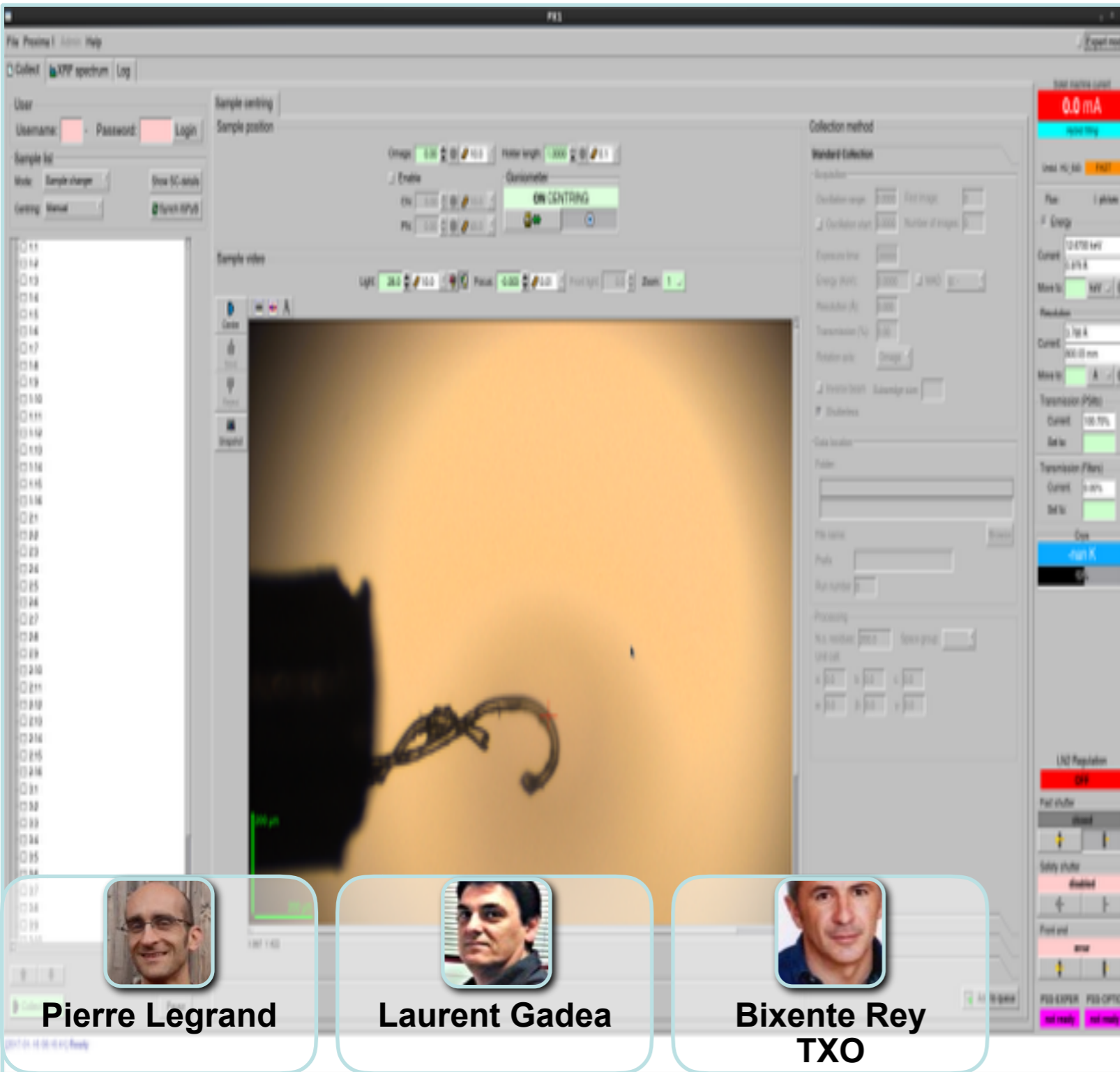
3-axis  $\kappa$ -goniometre

MXCUBE VERSION

v2.1 Qt3

ESRF - 16th-Jan-2017 | Leo Chavas (Px-1)

# PROXIMA-I



Pierre Legrand

Laurent Gadea

Bixente Rey  
TXO

## ENERGY RANGE

5.5 ~ 15.5 keV

0.8 ~ 2.25 Å

## OPTICS

Channel cut monochromator

K/B bi-morph mirrors

TYPICAL BEAM SIZE AT SAMPLE

20 x 40  $\mu\text{m}^2$  (30x90 $\mu\text{m}^2$  full beam)

FLUX AT SAMPLE

2.0E+12 phot/s/0.02% bw 500 mA

SAMPLE CHANGER

CATS (3 spine pucks)

possible *in situ* measurements

CAMERA

6M Pilatus

SAMPLE ENVIRONMENT

3-axis  $\kappa$ -goniometre

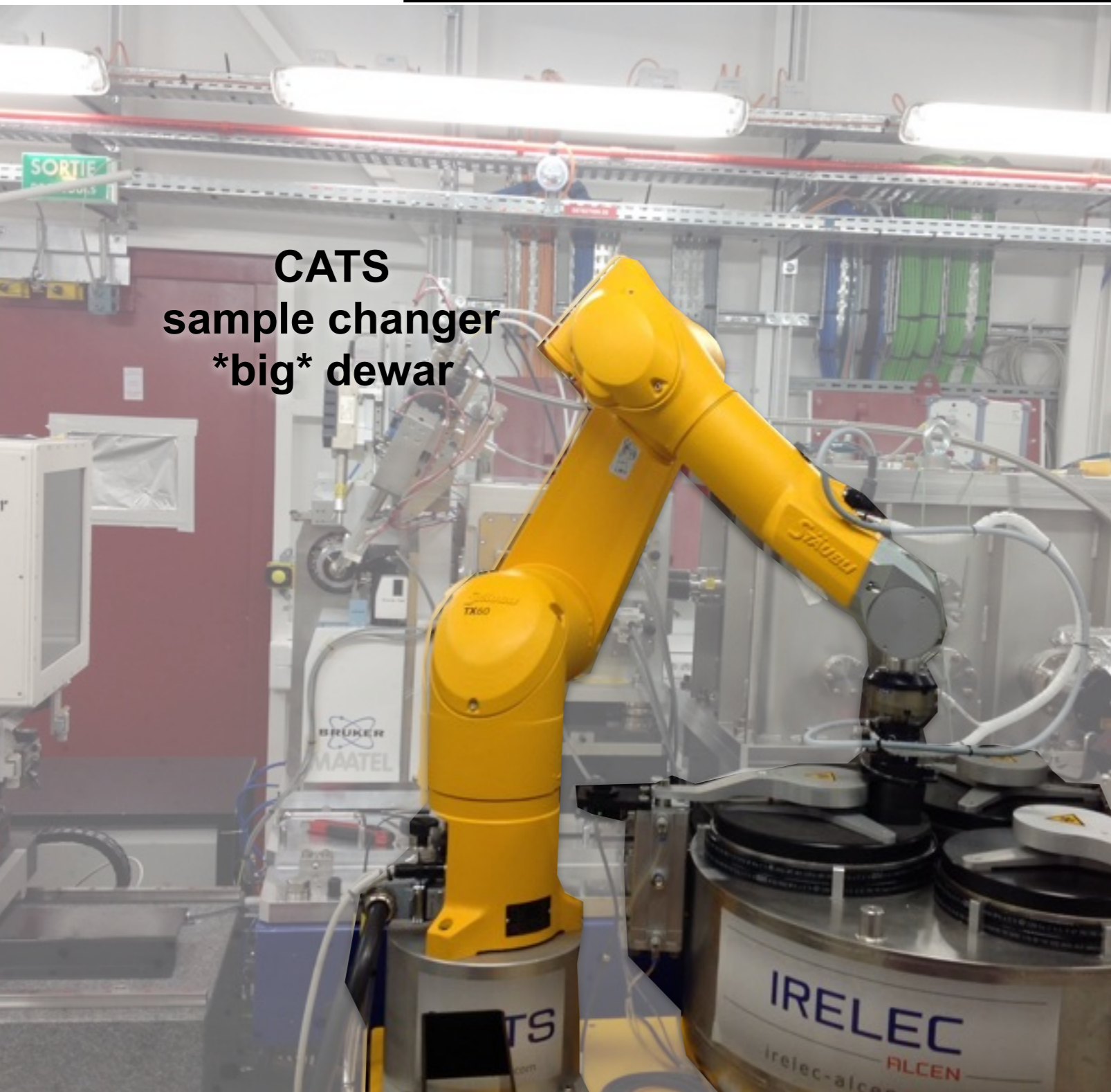
MXCUBE VERSION

v2.1 Qt3

ESRF - 16th-Jan-2017 | Leo Chavas (Px-1)



# PROXIMA-2A



**CATS**  
sample changer  
\*big\* dewar

## ENERGY RANGE

6 ~ 15 keV

0.8 ~ 2.0 Å

## OPTICS

Channel cut monochromator

Convex & K/B bi-morph mirrors

## TYPICAL BEAM SIZE AT SAMPLE

3 x 5  $\mu\text{m}^2$

## FLUX AT SAMPLE

3.5E+12 phot/s/0.02% bw 500 mA

## SAMPLE CHANGER

CATS (9 spine pucks)

*in situ* measurements available

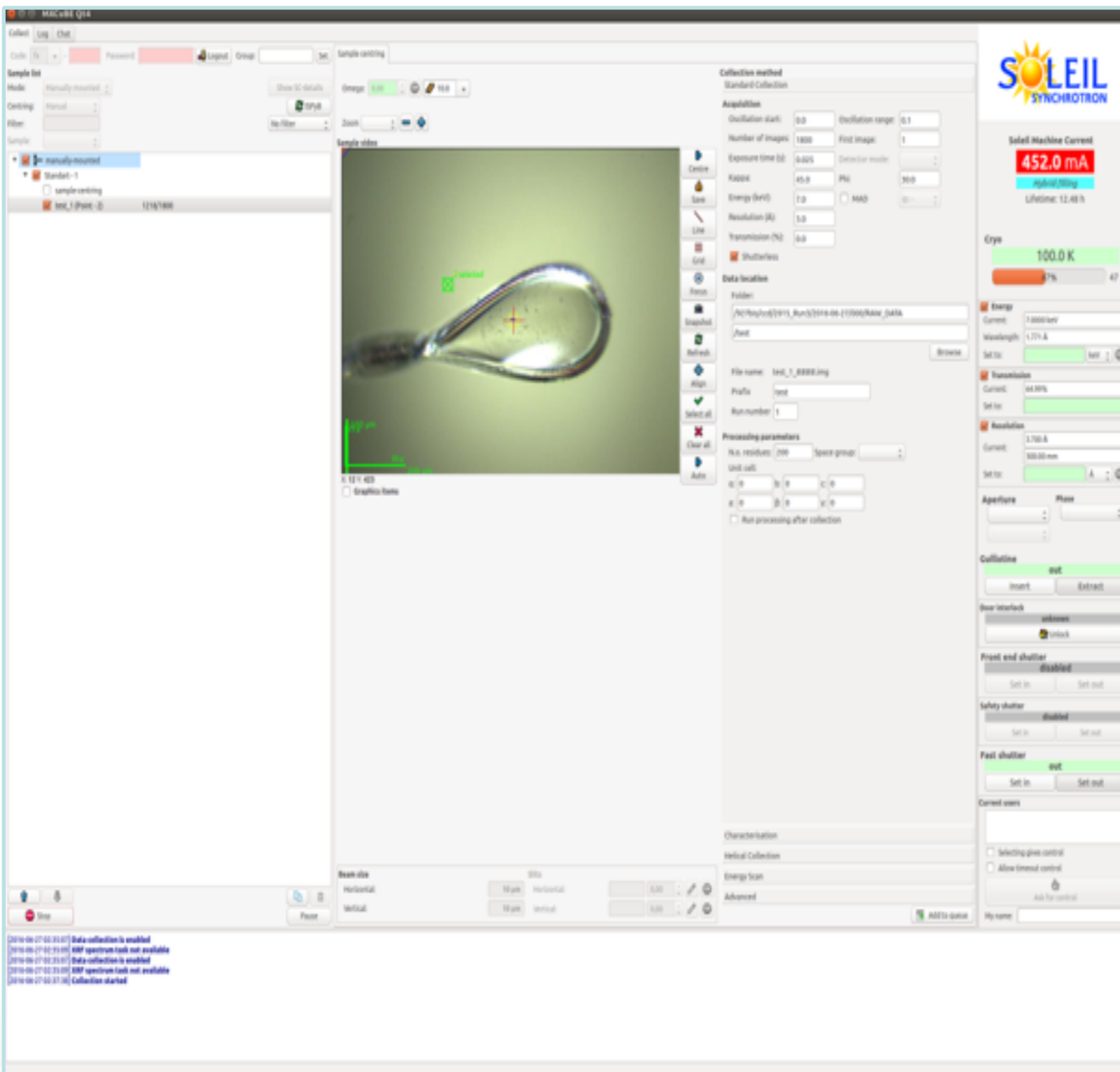
## CAMERA

Eiger X-9M

## SAMPLE ENVIRONMENT

microdiffractometer MD2

# PROXIMA-2A



## ENERGY RANGE

6 ~ 15 keV

0.8 ~ 2.0 Å

## OPTICS

Channel cut monochromator

Convex & K/B bi-morph mirrors

## TYPICAL BEAM SIZE AT SAMPLE

3 x 5  $\mu\text{m}^2$

## FLUX AT SAMPLE

3.5E+12 phot/s/0.02% bw 500 mA

## SAMPLE CHANGER

CATS (9 spine pucks)

*in situ* measurements available

## CAMERA

Eiger X-9M

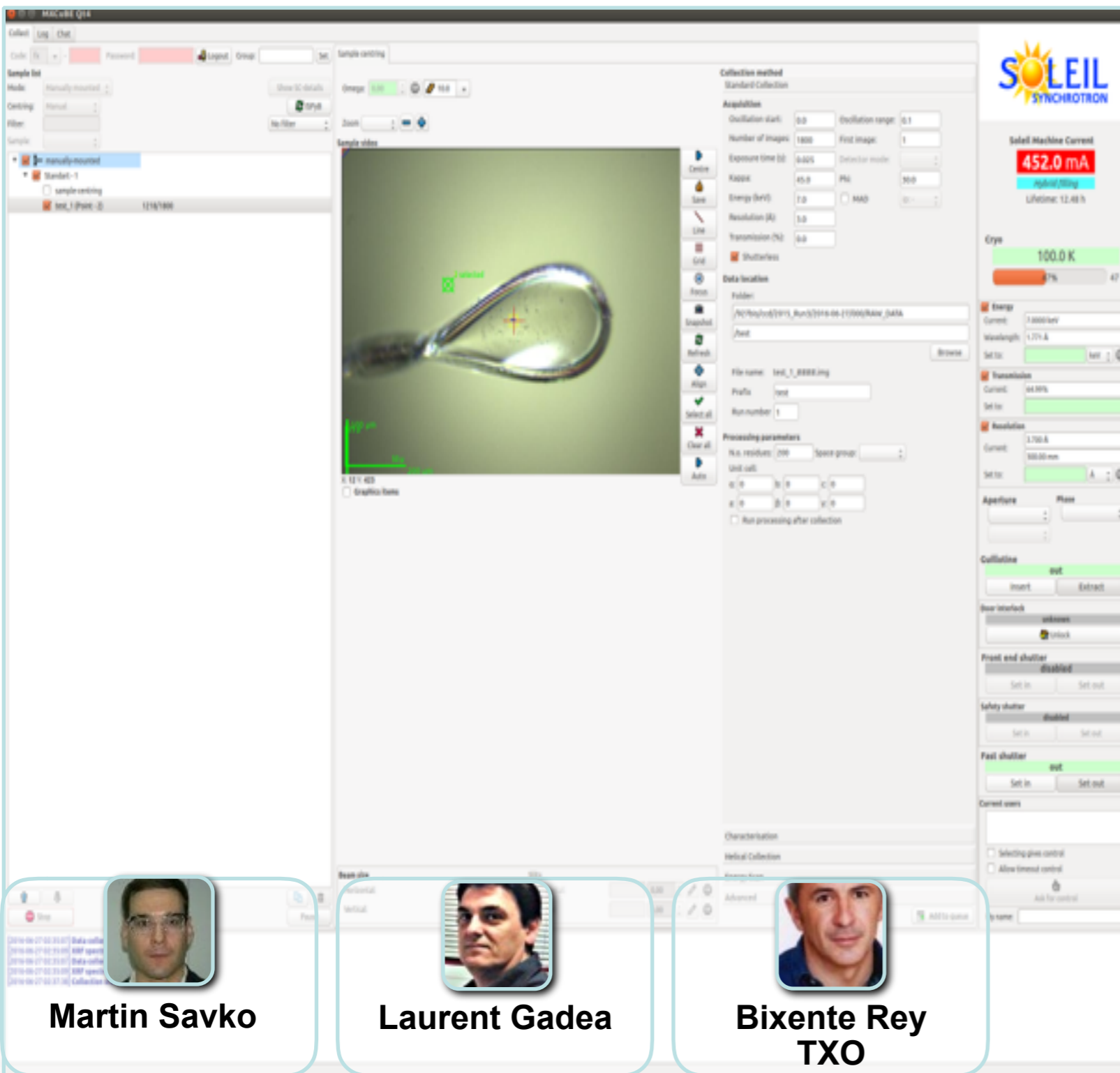
## SAMPLE ENVIRONMENT

microdiffractometer MD2

## MXCUBE VERSION

v2.1 Qt3 in transition to Qt4

# PROXIMA-2A



The screenshot displays the MXCUBE control software interface. On the left, there's a 'Sample list' and 'Sample video' section. The central area shows a live video feed of a sample, a teardrop-shaped object, with a red crosshair. To the right, there are several control panels: 'Collection method' (Standard Collection), 'Asaphellon' (Oscillation start, range, number of images, exposure time, kappa, energy, resolution, transmission, shutterless), 'Data location' (Folder, File name, Profile, Run number), 'Processing parameters' (N.A. resolution, Space group, Unit cell), 'SOLEIL SYNCHROTRON' logo, 'SOLEIL Machine Current' (452.0 mA), 'Cryo' (100.0 K), 'Energy' (Current, Wavelength, Set to), 'Transmission' (Current, Set to), 'Asaphellon' (Current, Set to), 'Aperture' (Phase), 'Collimation' (Insert, Extract), 'Beam interlock' (Unlock, Lock), 'Front end shutter' (Disabled, Set in, Set out), 'Safety shutter' (Disabled, Set in, Set out), 'Fast shutter' (Set in, Set out), and 'Current users'.

**Martin Savko**

**Laurent Gadea**

**Bixente Rey  
TXO**

## ENERGY RANGE

6 ~ 15 keV

0.8 ~ 2.0 Å

## OPTICS

Channel cut monochromator

Convex & K/B bi-morph mirrors

## TYPICAL BEAM SIZE AT SAMPLE

3 x 5  $\mu\text{m}^2$

## FLUX AT SAMPLE

3.5E+12 phot/s/0.02% bw 500 mA

## SAMPLE CHANGER

CATS (9 spine pucks)

*in situ* measurements available

## CAMERA

Eiger X-9M

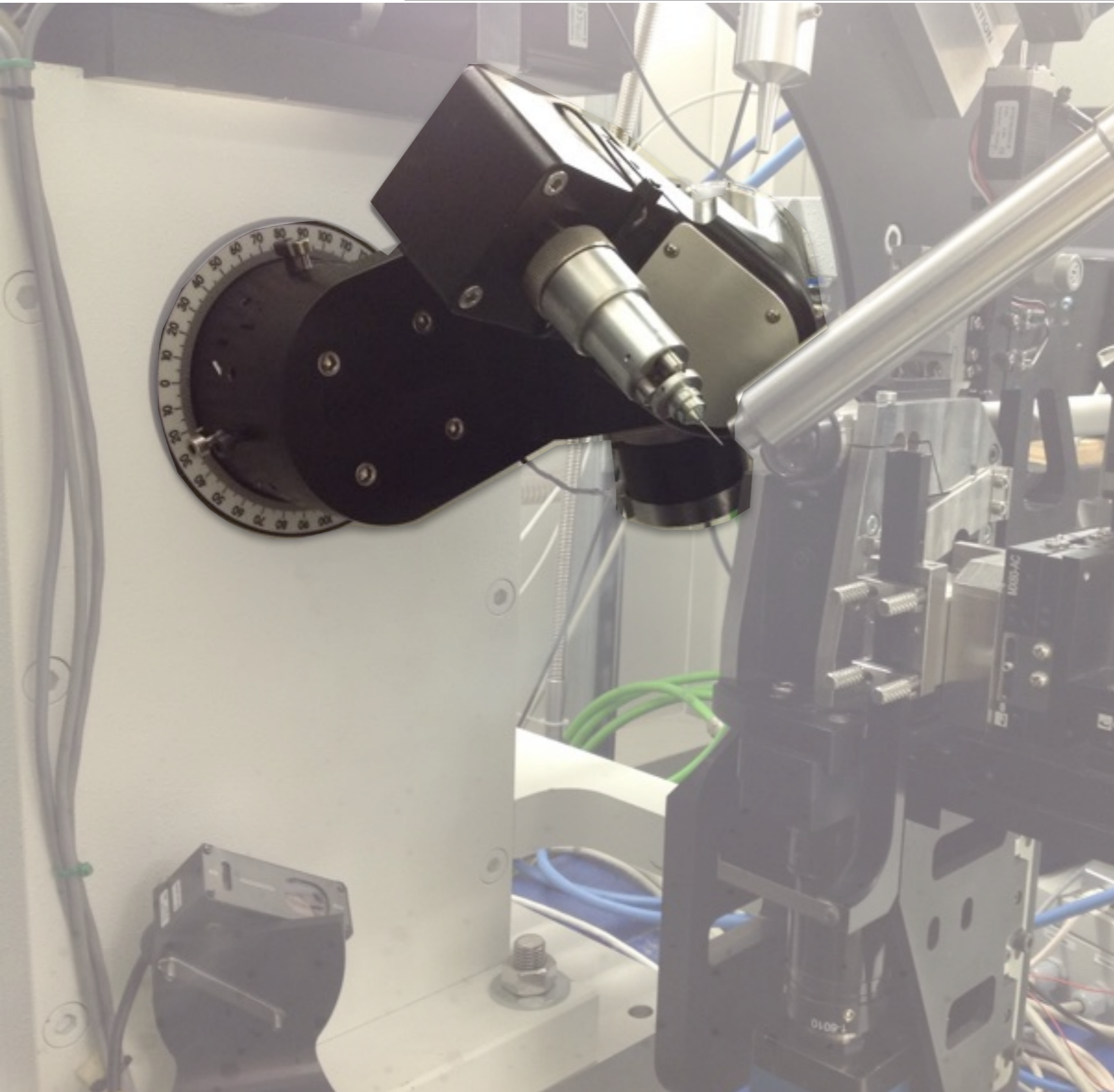
## SAMPLE ENVIRONMENT

microdiffractometer MD2

## MXCUBE VERSION

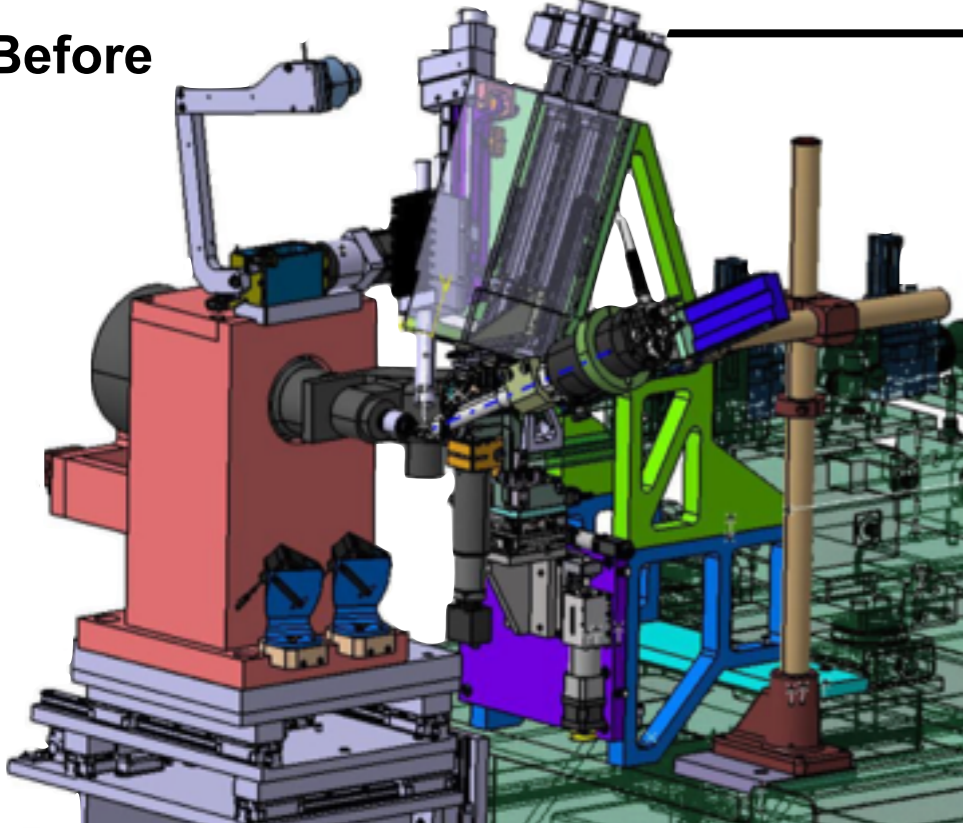
v2.1 Qt3 in transition to Qt4

# SMARGON IMPLEMENTATION



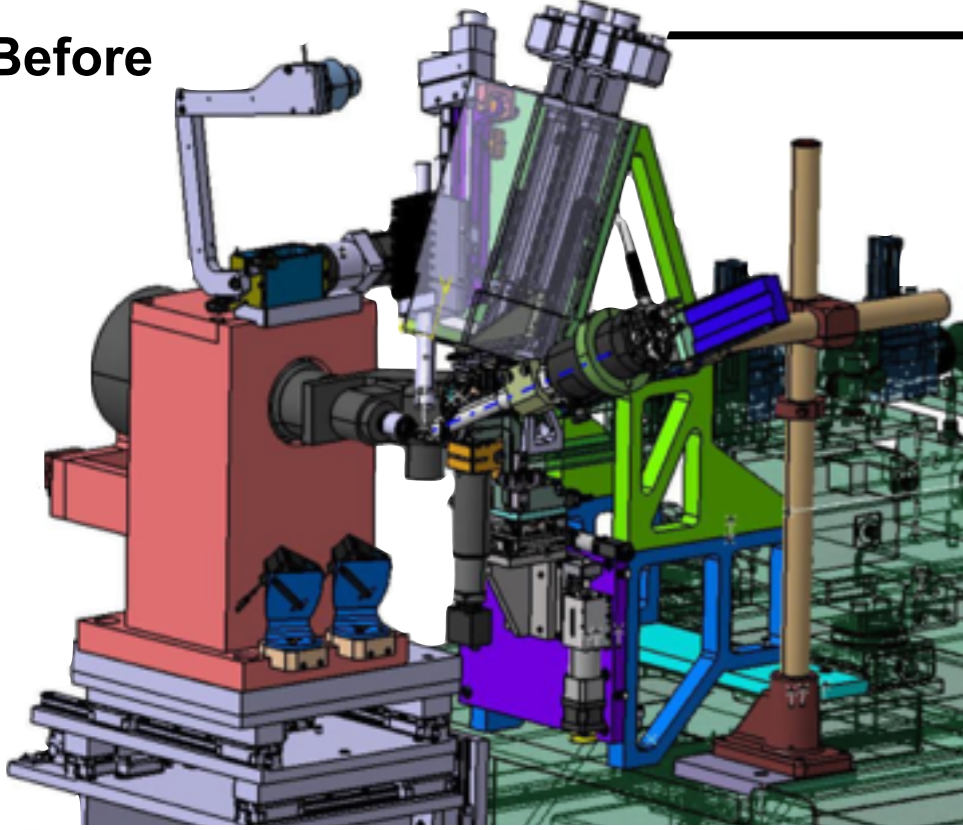
# SMARGON IMPLEMENTATION

Before

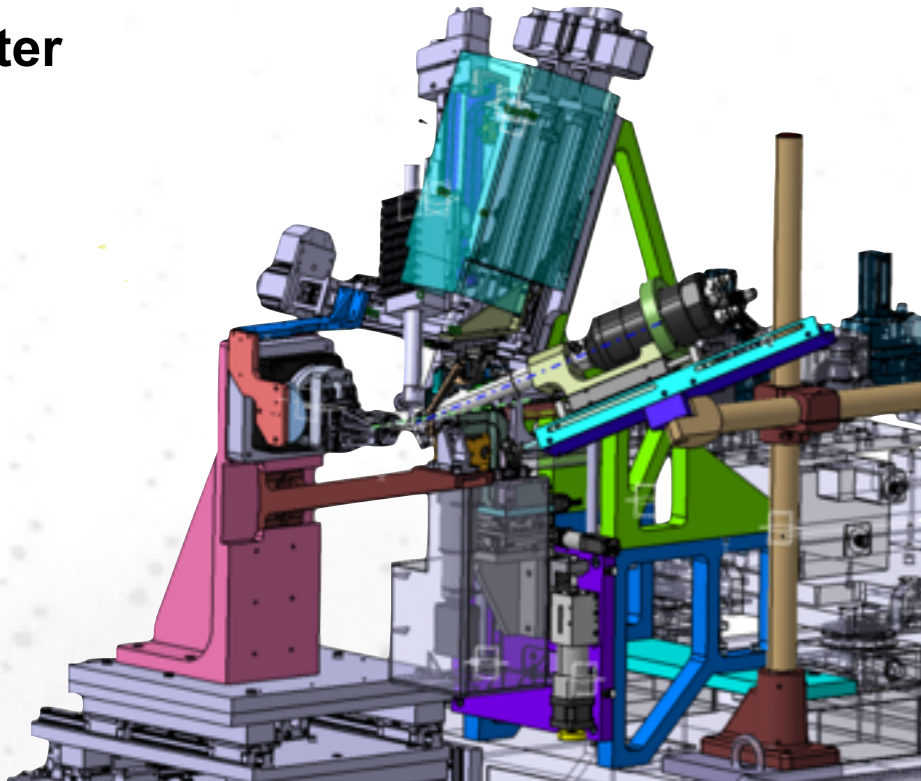


# SMARGON IMPLEMENTATION

Before

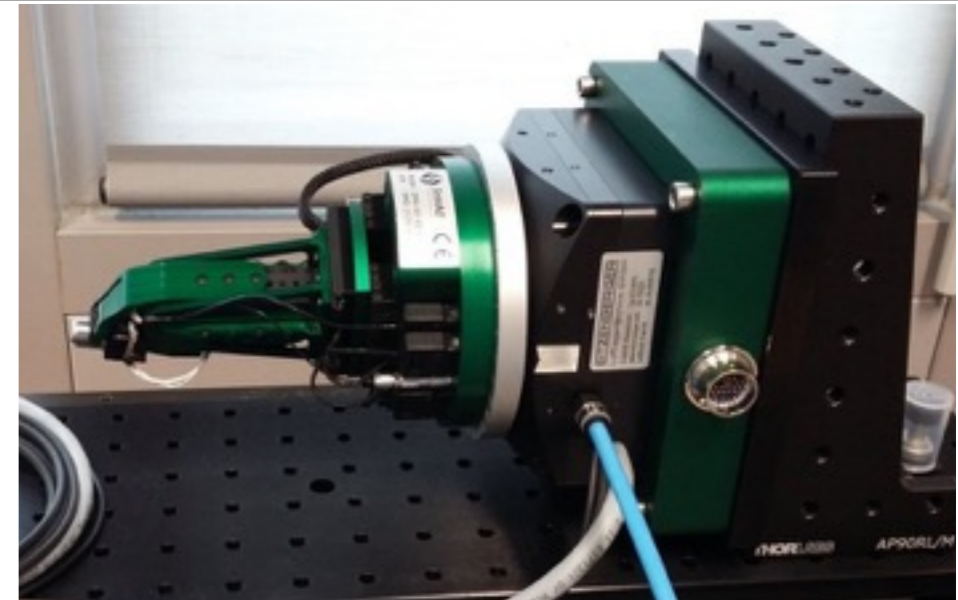
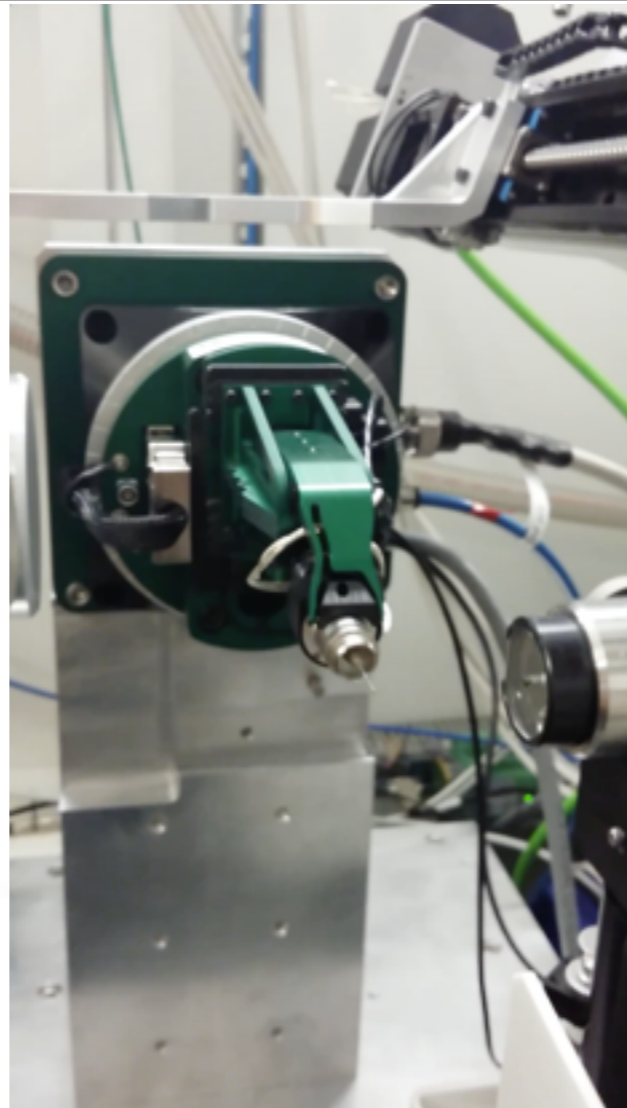
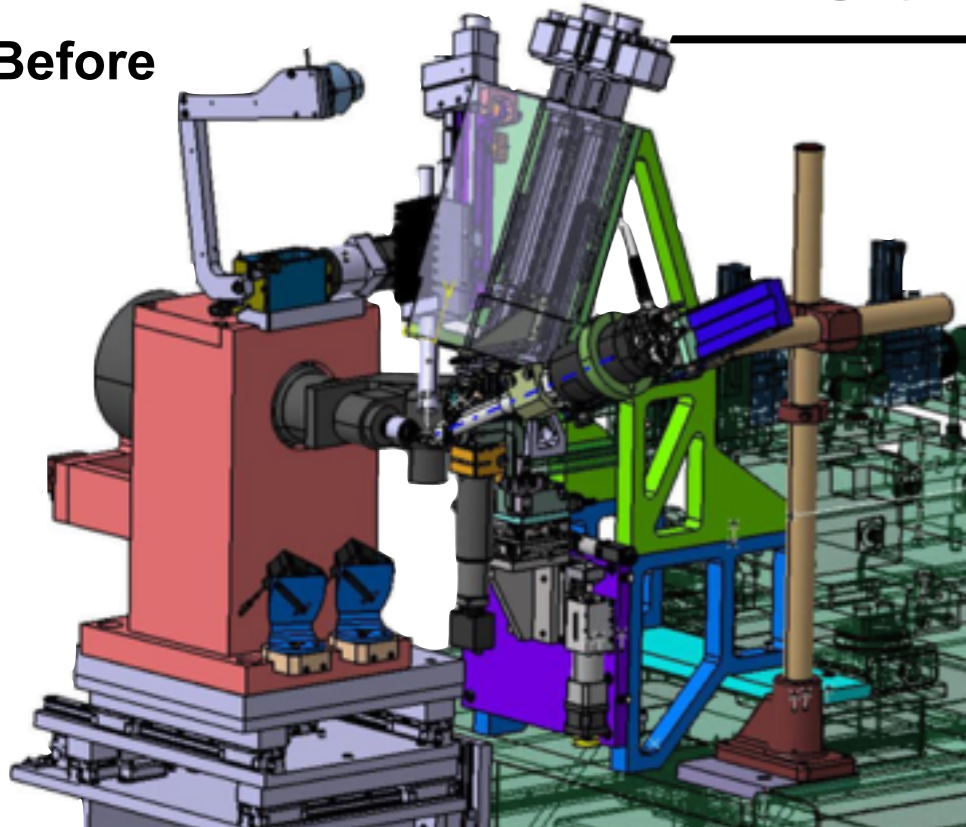


After

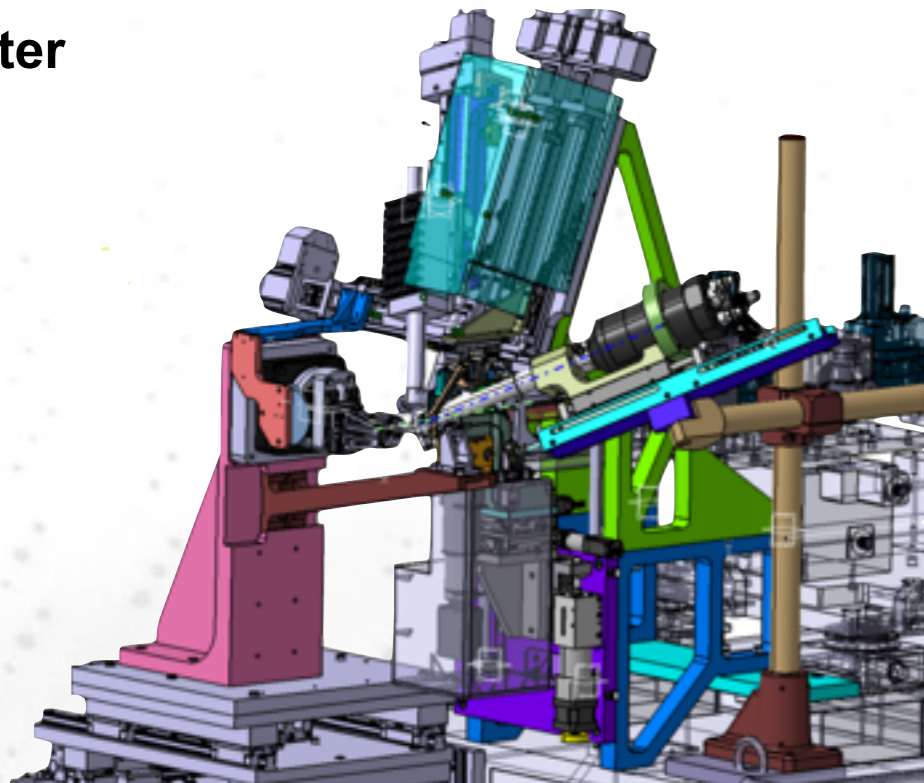


# SMARGON IMPLEMENTATION

Before

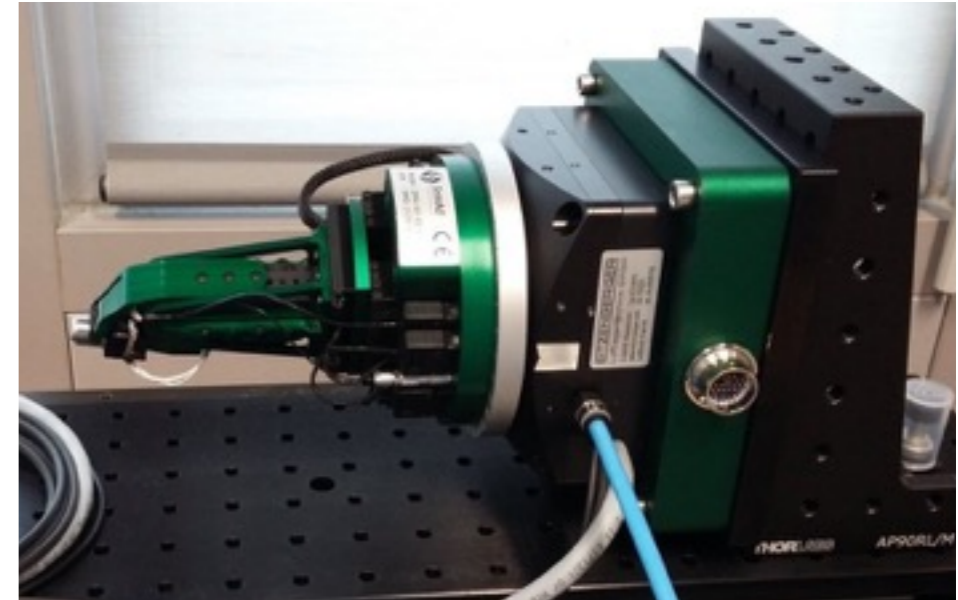
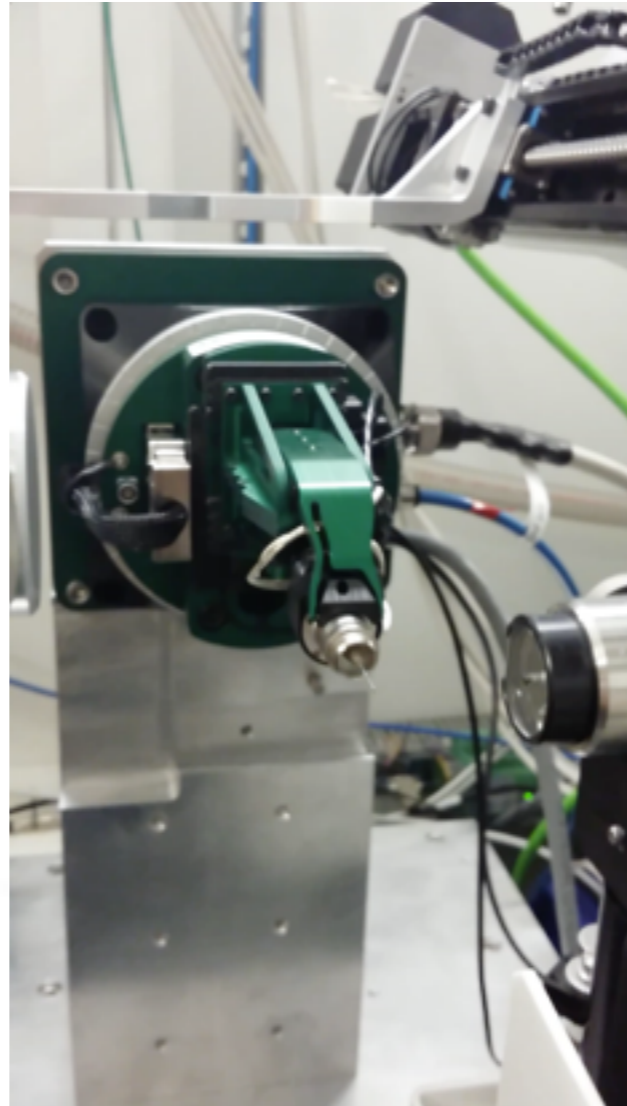
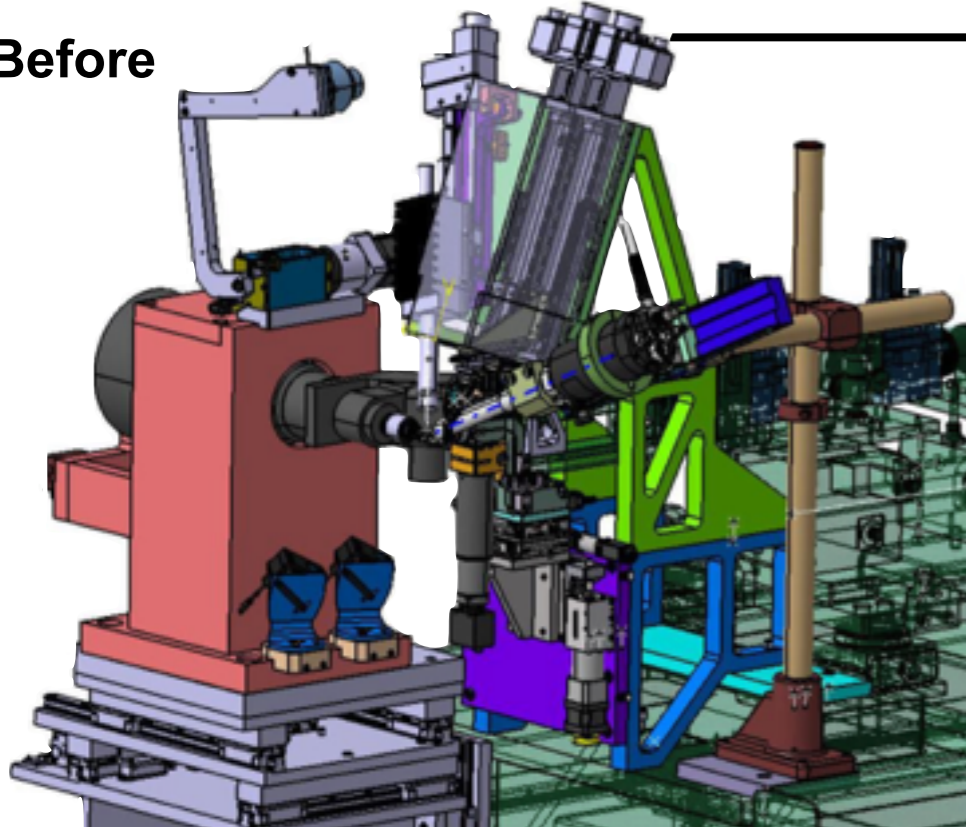


After

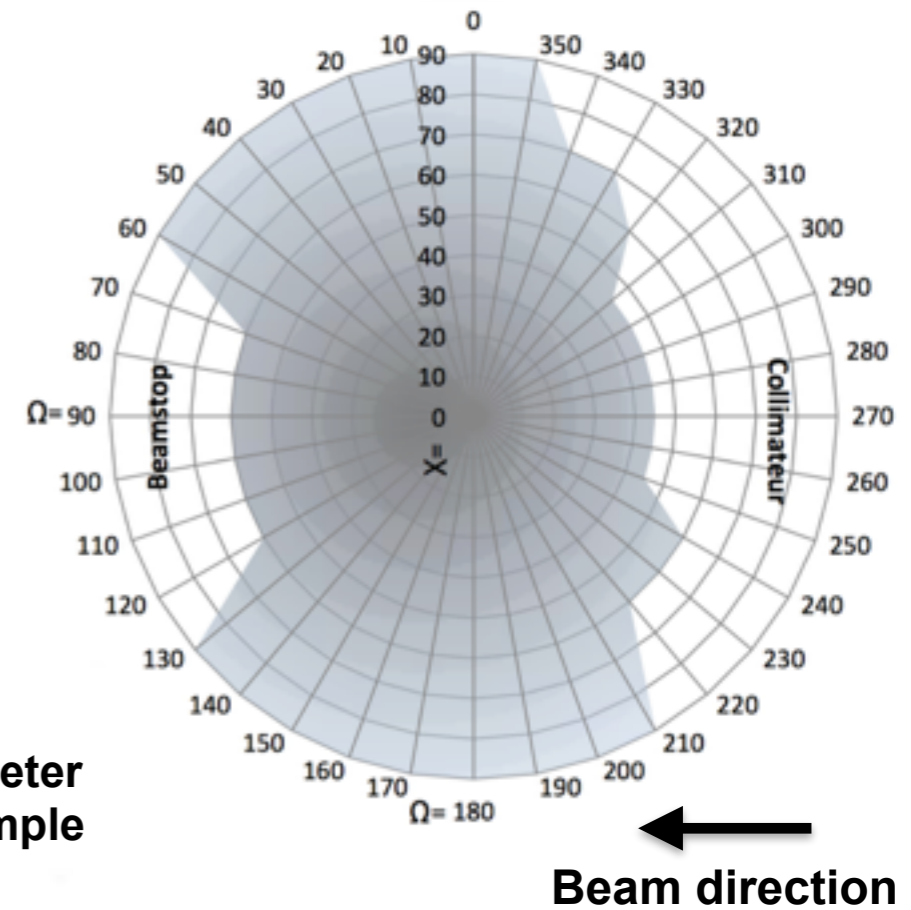
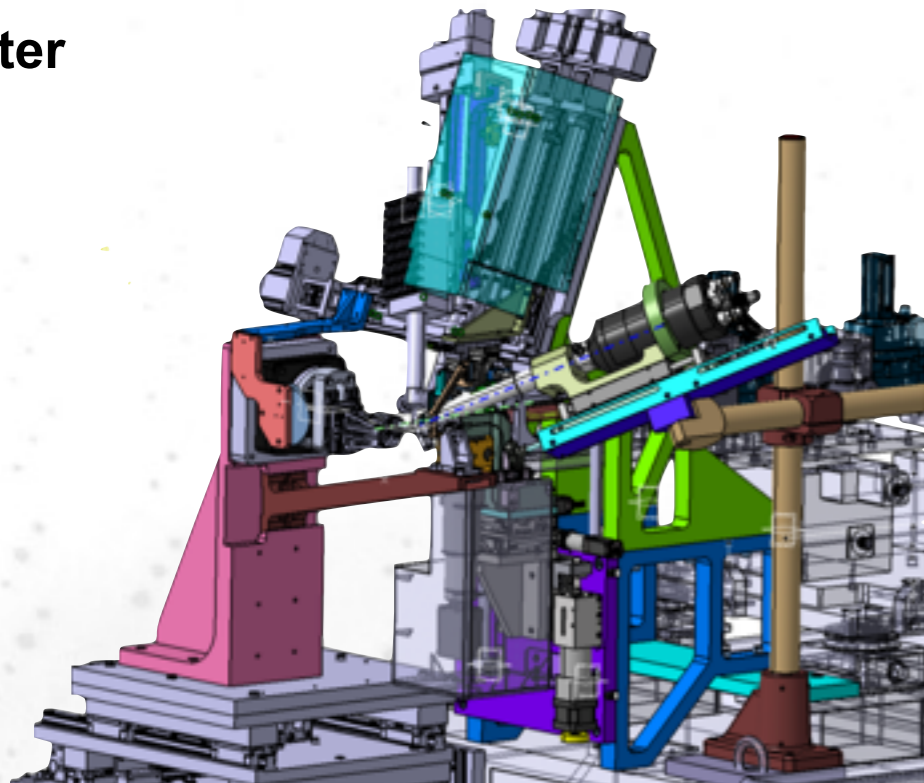


# SMARGON IMPLEMENTATION

Before



After



Sphere of possible goniometer movements around the sample position



# SMARGON DEVICES AND MxCUBE SETUP

**Pierre Legrand**  
Beamline scientist



# SMARGON DEVICES AND MxCUBE SETUP

The screenshot displays the PX1 control software interface. The main window is titled 'PX1' and includes a menu bar (File, Proxima, Admin, Help) and a toolbar (Collect, XRF spectrum, Log). The interface is divided into several panels:

- User:** Username and Password fields with a Login button.
- Sample list:** A list of sample IDs (1.1 to 2.16) with checkboxes.
- Sample centring:** Controls for Omega (0.00), Holder length (1.0000), Goniometer (ON CENTRING), Chi (0.00), and Phi (0.00).
- Sample video:** A central video feed showing a dark sample against a light background. A 200 µm scale bar is visible. Below the video are controls for Light (28.0), Focus (-0.003), Front light (0.0), and Zoom (1).
- Collection method:** Standard Collection settings including Acquisition (Oscillation range, start, number of images), Exposure time, Energy (KeV), Resolution (Å), Transmission (%), and Rotation axis (Omega).
- Data location:** Fields for Folder, File name, Prefix, and Run number.
- Processing:** Settings for N.o. residues (200.0), Space group, and Unit cell parameters (a, b, c, α, β, γ).
- Characterisation:** Energy Scan and Advanced options.
- Right sidebar:** Soleil machine current (0.0 mA), Undul. HU\_640 (FAST), Flux (0 ph/sec), Energy (12.6700 keV, 0.979 A), Resolution (3.788 Å, 900.03 mm), Transmission (PSiLts) (100.70%), Transmission (Filters) (0.00%), Cryo (-nan K, 53%), LN2 Regulation (OFF), Fast shutter (closed), Safety shutter (disabled), Front end (error), and PSS-EXPER/PSS-OPTIC (not ready).

In the bottom left corner, there is a small portrait of Pierre Legrand with the text: **Pierre Legrand**  
Beamline scientist

This panel shows the Goniometer control interface. It includes:

- Omega: 0.00 (with a 10.0 multiplier)
- Holder length: 1.0000 (with a 0.1 multiplier)
- Chi: 0.00 (with a 10.0 multiplier)
- Phi: 0.00 (with a 45.0 multiplier)
- A central button labeled **ON CENTRING** with a green background and a robot icon.



# SMARGON DEVICES AND MxCUBE SETUP

The screenshot displays the PX1 control software interface. On the left, there is a 'Sample list' with a vertical scroll bar showing sample IDs from 1:1 to 2:16. Below it is a 'User' section with 'Username:' and 'Password:' fields and a 'Login' button. The main area is divided into several panels: 'Sample centring' with 'Omega: 0.00', 'Holder length: 1.0000', 'Chi: 0.00', and 'Phi: 0.00' controls; 'Collection method' with 'Standard Collection' and 'Acquisition' settings; 'Sample video' showing a live feed of a sample with a '200 µm' scale bar; and a right-hand sidebar with 'Soleil machine current' (0.0 mA), 'Flux: 0 ph/sec', 'Energy' (12.6700 keV), 'Resolution' (3.788 Å), and 'Transmission' (100.70%) controls. At the bottom left, a small inset shows a portrait of Pierre Legrand.

**Pierre Legrand**  
Beamline scientist

This panel shows the Goniometer controls. It includes 'Omega: 0.00' with a '10.0' multiplier, 'Holder length: 1.0000' with a '0.1' multiplier, 'Chi: 0.00' with a '10.0' multiplier, and 'Phi: 0.00' with a '45.0' multiplier. A central 'Goniometer' section has a green 'ON CENTRING' button and a 'Goniometer' icon.

This panel shows the 'Collection method' settings. Under 'Standard Collection', the 'Acquisition' section is visible with fields for 'Oscillation range: 0.0000', 'First image: 0', 'Oscillation start: 0.0000', and 'Number of images: 0'. Other fields include 'Exposure time: .00000', 'Energy (KeV): 0.0000', 'Resolution (Å): 0.000', and 'Transmission (%): 0.00'. The 'Rotation axis' is set to 'Omega'. There are also checkboxes for 'Inverse beam' and 'Shutterless'.

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# QT4: MIGRATION STATUS

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# QT4: MIGRATION STATUS

The screenshot displays the PX3A control software interface. Key components include:

- Sample position:** A central video window showing a sample with a green crosshair. Above it are controls for sample position (X, Y, Z) and sample video (Start, Stop, Play, Pause).
- Collection method:** A panel for configuring data collection parameters, including oscillation range, exposure time, energy, resolution, and transmission.
- Data location:** Fields for specifying the folder and file name for data storage.
- Processing:** Parameters for data processing, such as resolution and unit cell dimensions.
- SOLEIL SYNCHROTRON Status:** A sidebar on the right showing real-time operational data: 450.3 mA current, 20 kV voltage, and 11.20 keV energy.
- Run List:** A table at the bottom left listing various sample runs with their respective dates and times.

# QT4: MIGRATION STATUS

SOLEIL SYNCHROTRON

SOLEIL Machine Current  
**452.0 mA**  
Up/Down 500mg  
Lifetime: 12.48 h

Cryo  
**100.0 K**  
7% 47

Energy  
Current: 1.000 keV  
Wavelength: 1.21 Å  
Set to: test

Transmission  
Current: 44.9%  
Set to:

Resolution  
Current: 1.700 Å  
Set to: A

Aperture  
Mask

Collimator  
out  
Insert Extract

Over interface  
unlock  
lock

Front end shutter  
disabled  
Set in Set out

Safety shutter  
disabled  
Set in Set out

Fast shutter  
out  
Set in Set out

Current users

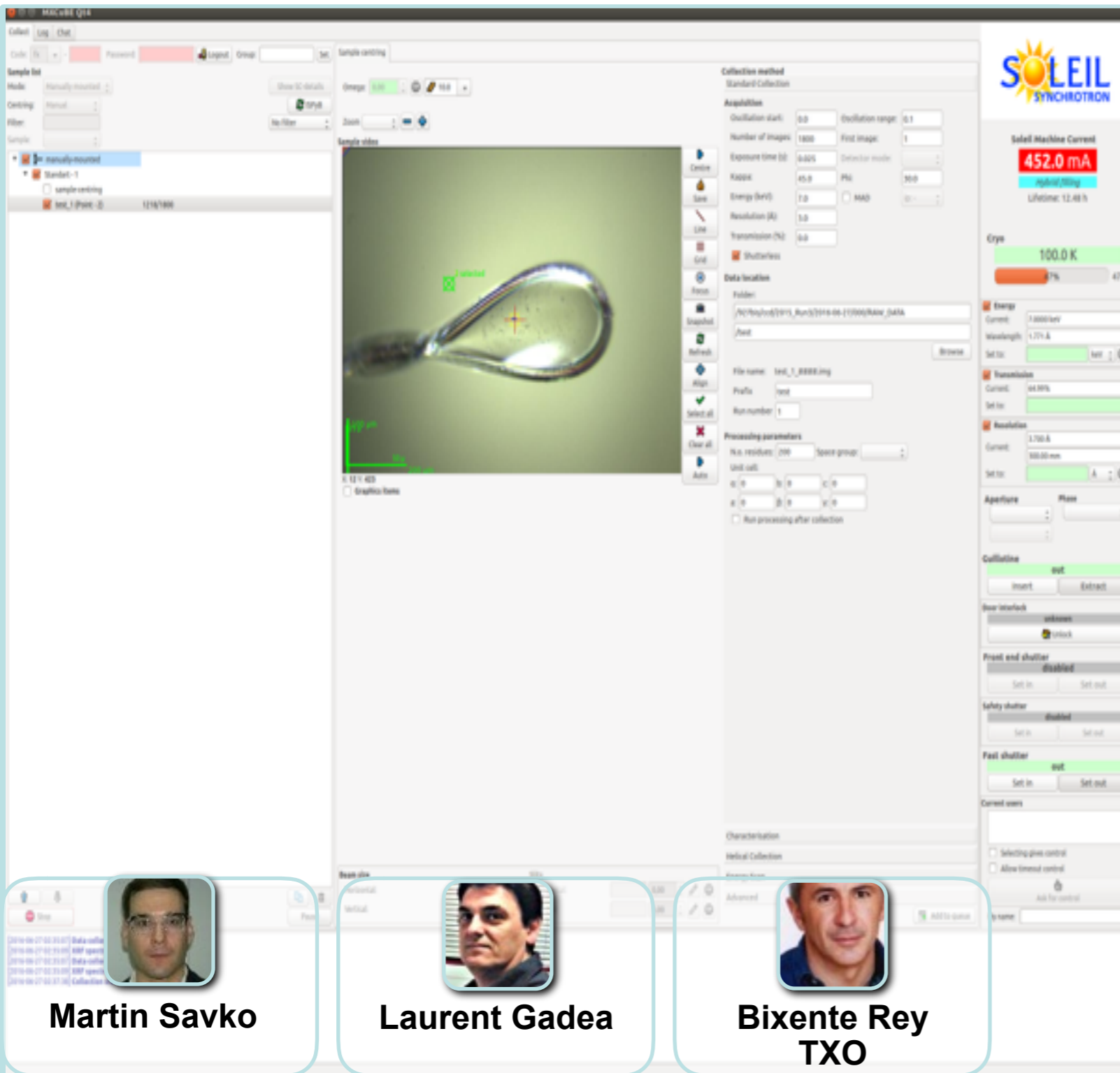
Beam size  
Horizontal: 15 μm Vertical: 15 μm  
Horizontal: 500 μm Vertical: 500 μm

Characterisation  
Helical Collection  
Energy Scan  
Advanced

Log

2016-08-27 00:23:07 Data collection is enabled  
2016-08-27 00:23:07 XRF spectrum task not available  
2016-08-27 00:23:07 Data collection is enabled  
2016-08-27 00:23:07 XRF spectrum task not available  
2016-08-27 00:23:07 Collection started

# QT4: MIGRATION STATUS



The screenshot displays the SOLEIL Synchrotron control interface. The central window shows a microscope view of a sample, likely a protein crystal, with a red crosshair indicating the center. The interface includes several control panels:

- Sample control:** Includes fields for Omega, Zoom, and Sample video.
- Collection method:** Standard Collection, with parameters for Oscillation start, Oscillation range, Number of images, Exposure time, Kappa, Energy, Resolution, and Transmission.
- Data location:** Fields for Folder, File name, Prefix, and Run number.
- Processing parameters:** Fields for N.A. resolution, Space group, and Unit cell.
- SOLEIL SYNCHROTRON status:** Shows Soleil Machine Current at 452.0 mA, Cryo temperature at 100.0 K, and Energy at 4.000 keV.
- Aperture and Collimator:** Controls for Aperture, Collimator, and various shutters (Beam, Fast, Safety).

At the bottom of the screenshot, three circular portraits are shown, each with a name below it:

- Martin Savko**
- Laurent Gadea**
- Bixente Rey TXO**

# QT4: MIGRATION STATUS

The screenshot displays the SOLEIL SINCROTRON control interface. The central window shows a sample centring view with a green crosshair and a 'selected' label. The right panel contains various control parameters:

- SOLEIL SINCROTRON** logo
- Soleil Machine Current:** 452.0 mA (yellow bar), Lifetime: 12.48 h
- Cryo:** 100.0 K (green bar), 7% (orange bar), 47
- Energy:** 1.000 keV, Wavelength: 1.231 Å, Set to: [green bar]
- Transmission:** 44.90%, Set to: [green bar]
- Resolution:** 1.700 Å, Current: 300.00 mm, Set to: [green bar]
- Aperture:** [green bar]
- Collimator:** [green bar], Insert, Extract
- Beam interlock:** [green bar], Unlock
- Front end shutter:** Disabled, Set in, Set out
- Safety shutter:** Disabled, Set in, Set out
- Fast shutter:** [green bar], Set in, Set out
- Current users:** [empty list]

At the bottom, three circular portraits are shown with names: Martin Savko, Laurent Gadea, and Bixente Rey TXO.

The X-Ray Centring dialog box shows the following configuration:

- X-Ray Centring Procedure**
- Directory: /927bis/ccd/x-centring
- Angles: [0.90, 180.27] Relat. Length: 0.3 Step size: 0.005
- Transmission: 10  Calc Only  New scan
- Scanning at angle: [ ]
- Log window content:

```
<XRay Centring> Starting
- parameters: {'relative': False, 'stepsize': '0.005', 'length': '0.3', 'angles':
[0.0, 90.0, 180.0, 270.0], 'directory': '/927bis/ccd/x-centring', 'transmission': '10', 'calonly':
False, 'newscan': False}
Running scan with option : False
RESULTresidual=<function residual at 0x6a2c398>varse=<built-in
function vars>Phi=[90.0, 180.0, 270.0]
Image Parameters:
beam_xc: 368.441042194
beam_yc: 216.859033226
```
-



# QT4: MIGRATION STATUS

**Martin Savko**

**Laurent Gadea**

**Bixente Rey TXO**

```
<XRay Centring> Starting
- parameters: {'relative': False, 'stepsize': '0.005', 'length': '0.3', 'angles':
[0.0, 90.0, 180.0,
270.0], 'directory': '/927bis/ccd/x-centring', 'transmission': '10', 'calonly':
False, 'newscan': False}
Running scan with option : False
RESULTResidual=<function residual at 0x6a2c398>vase=<built-in
function vars>Phi=[90.0, 180.0, 270.0]
Image Parameters:
beam_xc: 368.441042194
beam_yc: 216.859033226
```

## Migration status...

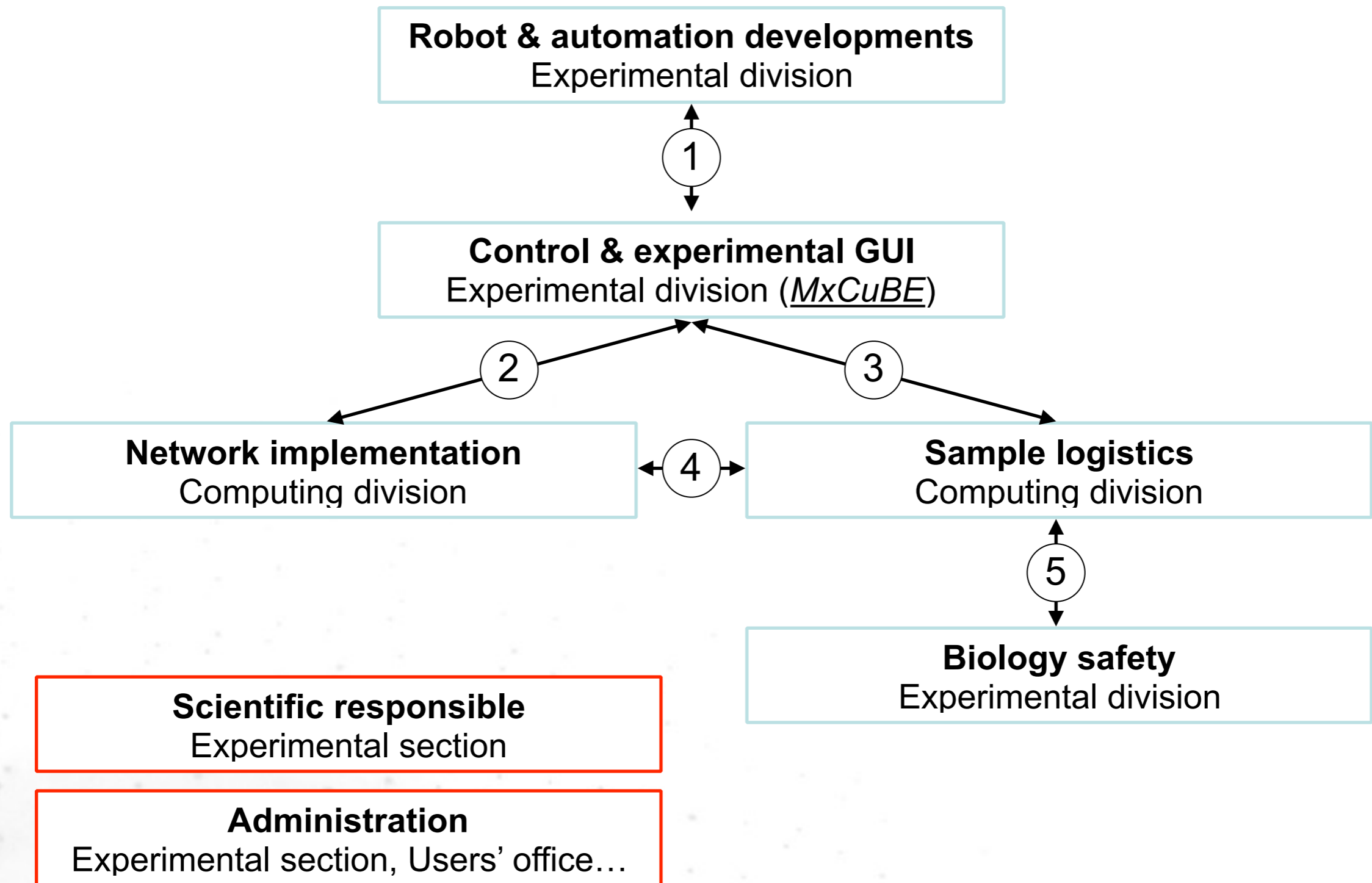
- all devices connected
- collection, helical scan etc. okay
- ISPyB connected
  
- many 'minor' bugs to be corrected
- interface still slow
- mesh-scan yet to be implemented

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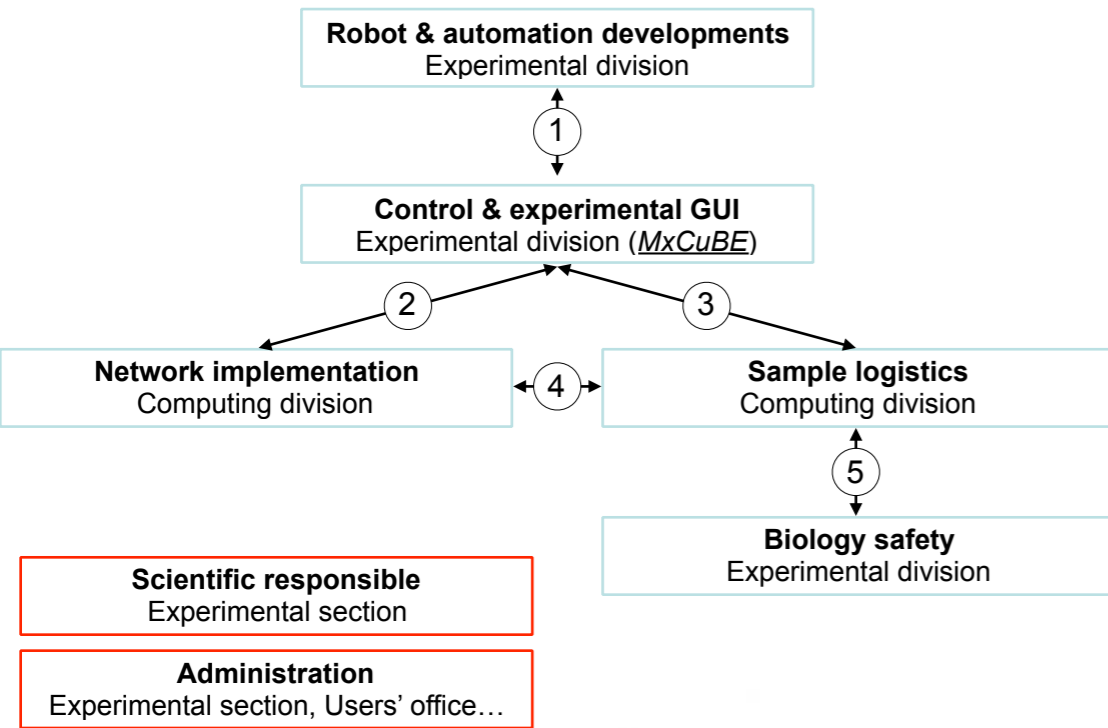
# *REMOTE ACCESS AT SOLEIL*

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# REMOTE ACCESS AT SOLEIL



# REMOTE ACCESS AT SOLEIL



Réunion de Direction

NOTE

Désignation des ressources

De manière à mettre en place le projet de manière efficace, un planning avec jalons a été proposé aux différents responsables de groupes impliqués. Suite à ce planning préliminaire, des décisions de faisabilité vont devoir être prises, comprenant en compte le staffing et les ressources budgétaires éventuelles.

Ci-dessous sont listés les responsables de groupes ainsi que les personnes ayant été assignées les tâches diverses pour la bonne réalisation en temps et qualité du projet remote-access.

Groupe	Responsable	Personne assignée	Signature (date)
PROXIMA-1	Léonard CHAVAS	L. CHAVAS	[Signature]
Laboratoire	Gabriel DAVID	G. David	[Signature]
Bâtiments Infrastructures	Stéphen DIER	[Signature]	[Signature]
Bureau Utilisateurs	Françoise FRASSARD	F. FRASSARD	[Signature]
Direction Informatique	Erigène GAGEY	E. GAGEY	[Signature]
SI	Emmanuel GRAND	eric grand	[Signature]
Vie Cryogénie	Olivier HERBEUX	O. Herbeux	[Signature]
SIH	Pascal PERRICOT	P. Perricot	[Signature]
ISG	Angélique PREVOST	Angélique Prevost	[Signature]
sciences des instruments	Pascal PRIGENT	Pascal Prigent	[Signature]
Purification	Nathalie ROUJOT	Nathalie Roujot	[Signature]

Direction de l'Exploitation  
Ch. LC, PL, SE, NS



# REMOTE ACCESS AT SOLEIL

Robot & automation  
Experimental

1

Control & experi  
Experimental divisi

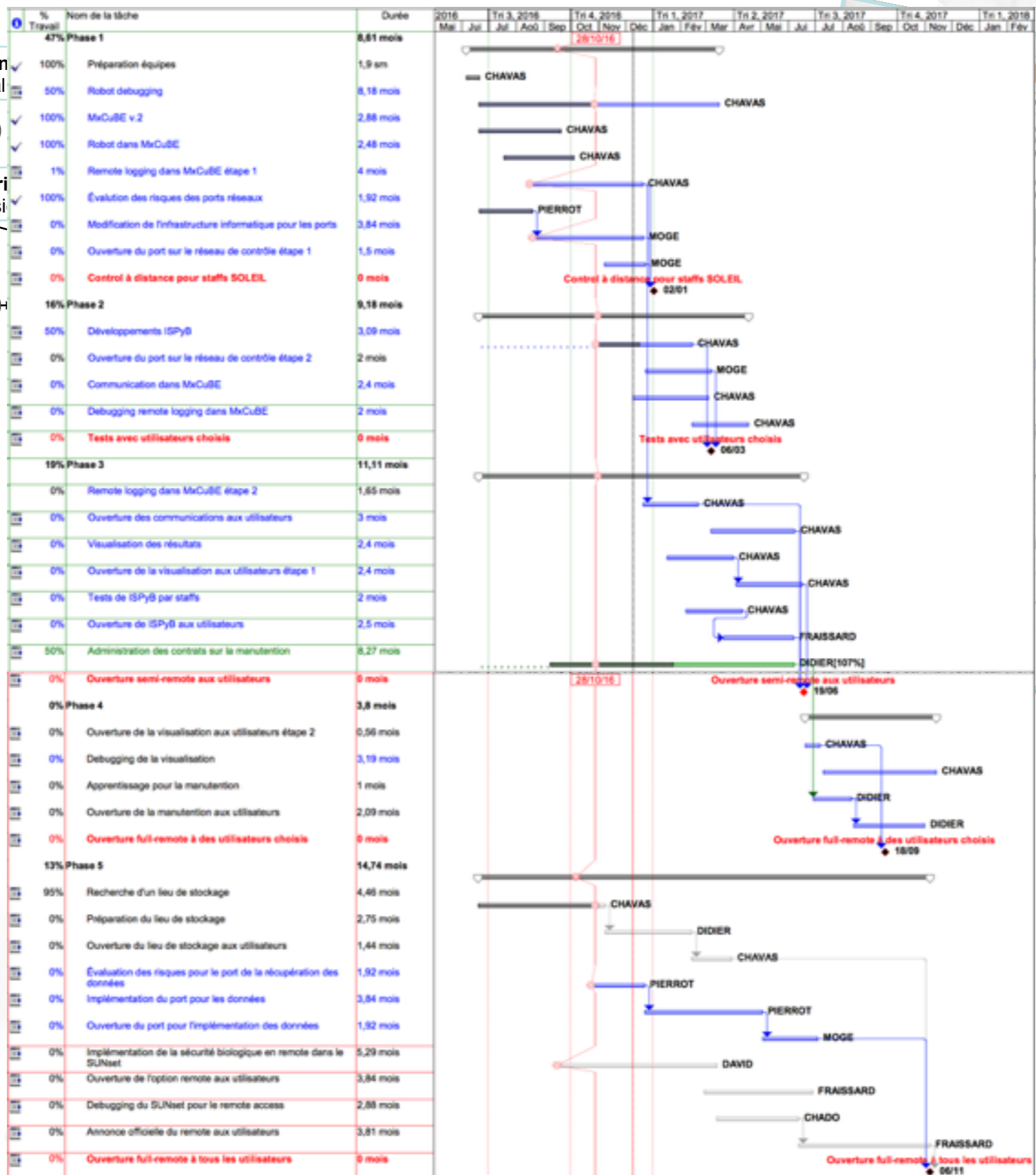
2

Network implementation  
Computing division

4

Scientific responsible  
Experimental section

Administration  
Experimental section, Users' office...



# REMOTE ACCESS AT SOLEIL

Robot & automation developments  
Experimental division



Control & experimental GUI  
Experimental division (MxCuBE)



- How to submit
- Preparing your experiment
- Laboratories support facilities
- Safety requirements
- Beamlines
- User Office

Home

➤ Proposal Management

- Proposal Application
- Management Before experiment
- Management After experiment

➤ Experiment data

- SOLEIL Data Retrieval

➤ Personal Management

- Personal Information
- Umbrella Information
- Change password

← Other functions

🔌 LogOff

## ➤ Proposal Management

### ➤ Proposal Application

Click here if you want to create, edit or delete your own proposal. A proposal is partially completed until it is submitted (submit button). From then on, the proposal is defined as completed and for any modification you need to contact the SOLEIL user office directly.

### ➤ Management Before experiment

Management proposal before the experiment

### ➤ Management After experiment

Management proposal after the experiment

## ➤ Experiment data

### ➤ SOLEIL Data Retrieval

Consultation project experiment files (to see downloaded files you will need to download the databrowser from the help button)

## ➤ Personal Management

### ➤ Personal Information

Click here for changing your personal information like institute, phone number, email address or to create an Umbrella account and/or linked it to your SUN set account.

### ➤ Change password

Click here to change your password. You will be asked for the current one for confirmation.

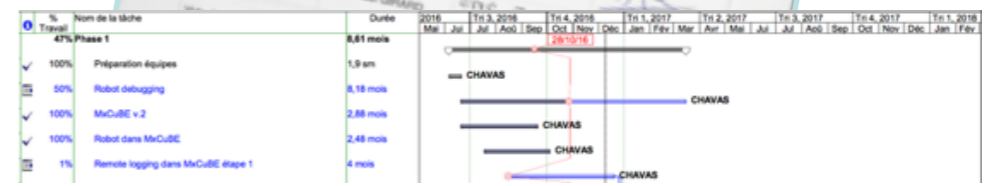
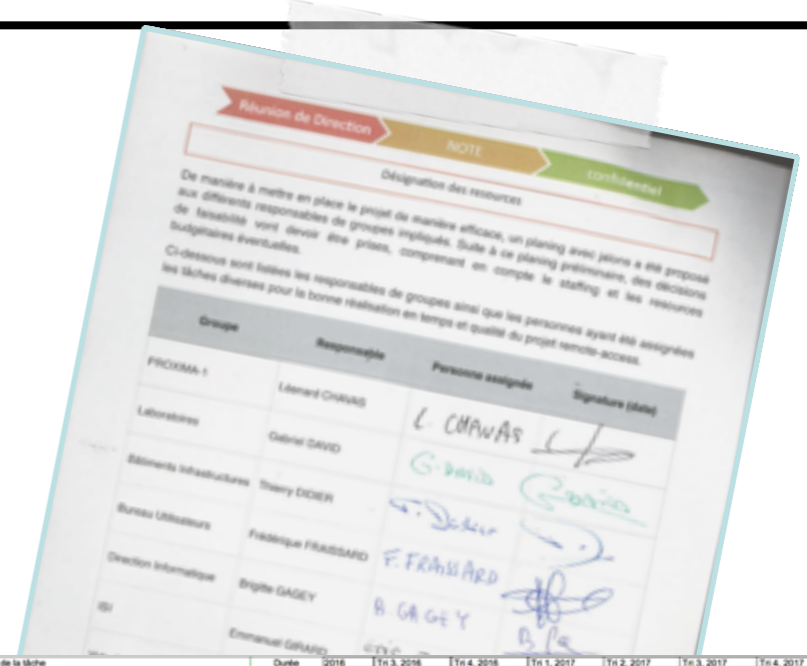
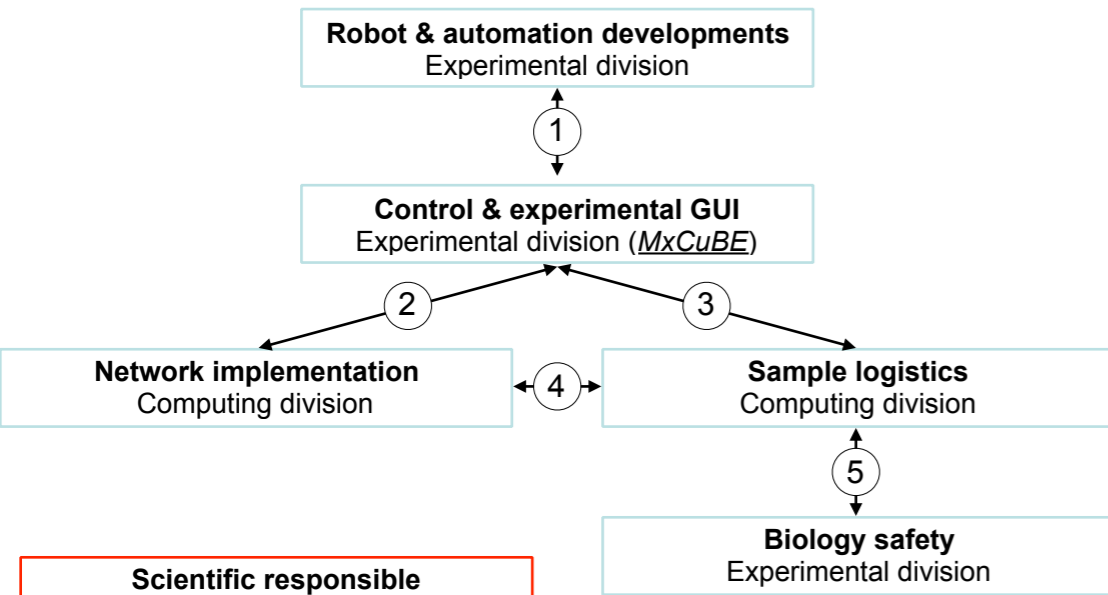
### ➤ Umbrella Information

Click here to create an Umbrella account or to link it to your SUN set account if you were logged in through Umbrella.

0%	Implémentation de la sécurité biologique en remote dans le SUNset	5,29 mois
0%	Ouverture de l'option remote aux utilisateurs	3,84 mois
0%	Debugging du SUNset pour le remote access	2,88 mois
0%	Annonce officielle du remote aux utilisateurs	3,81 mois
0%	Ouverture full remote à tous les utilisateurs	0 mois



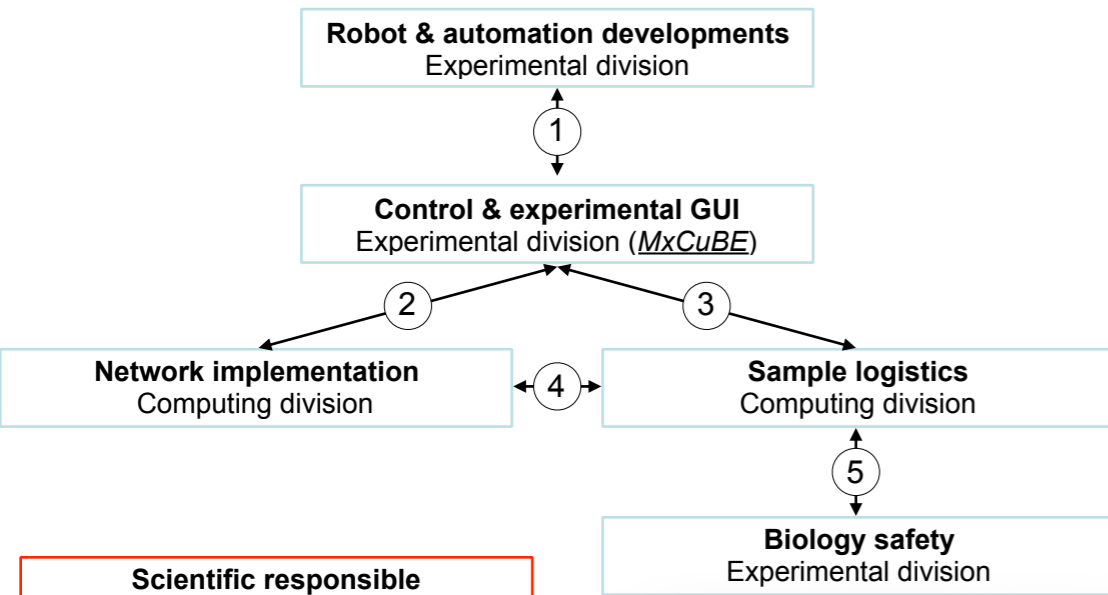
# REMOTE ACCESS AT SOLEIL



Proposal ID	Title	Lab	City	BAG coordinator or main proposer	1st Beamline Requested / Assigned	Proposal Type
2010023	Preparation for high pressure experiments, stabilisation of crystals for data collection at room temperature	Compartmentation et Dynamique Cellulaires - Institut ; INSB	PARIS CEDEX 05	Dr. HOUDUSSE Anne	PROXIMA 1	Rapid Access
2012009	High resolution studies on the soil bacterial proteins TodT, TodS, PtxS and McpS	Lab. of Crystallographic Studies - Structural Biology Brussels	ARMILLA (GRANADA)	Dr. PINEDA Estela	PROXIMA 1	Standard
20121253	Structural Biology of chemical and electrical signaling, redox metabolism and host-pathogen interaction.	Lab. - Molecular and Cellular Interactions	BRUXELLES	Prof. Dr. REMAUT Han	PROXIMA 1	Block Allocation Group
20140706	A1412 : Laurent	Synchrotron SOLEIL -	GIF SUR YVETTE CEDEX	Mrs. LORY Céline	PROXIMA 1	Rapid Access
20140887	A1420 : Tom	Synchrotron SOLEIL -	GIF SUR YVETTE CEDEX	Mrs. LORY Céline	PROXIMA 1	Rapid Access
20140918	BAG for Signal transduction, DNA Repair, Marine Glycobiology, bacterial polyketide synthases and IDPs involved in leucemia	Laboratoire de Biologie intégrative des modèles marins - INSB ; INC ; INEE	ROSCOFF CEDEX	Dr. CZJZEK Mirjam	PROXIMA 1	Block Allocation Group
20150660	Paris Rive Gauche BAG: from macromolecular structures to drug targets.	Faculté de Pharmacie - Univ. Paris-Descartes - Lab. de Cristallographie and RMN Biologique; Instituts; INSB; INC	PARIS CEDEX 06	Dr. PHAN Gilles	PROXIMA 1	Block Allocation Group
20150717	Macromolecular crystallography and SAXS of proteins and macromolecular complexes involved in human disease	Structural Biology Brussels Lab. - Molecular and Cellular Interactions	BRUXELLES	Prof. Dr. LORIS Remy	PROXIMA 1	Block Allocation Group

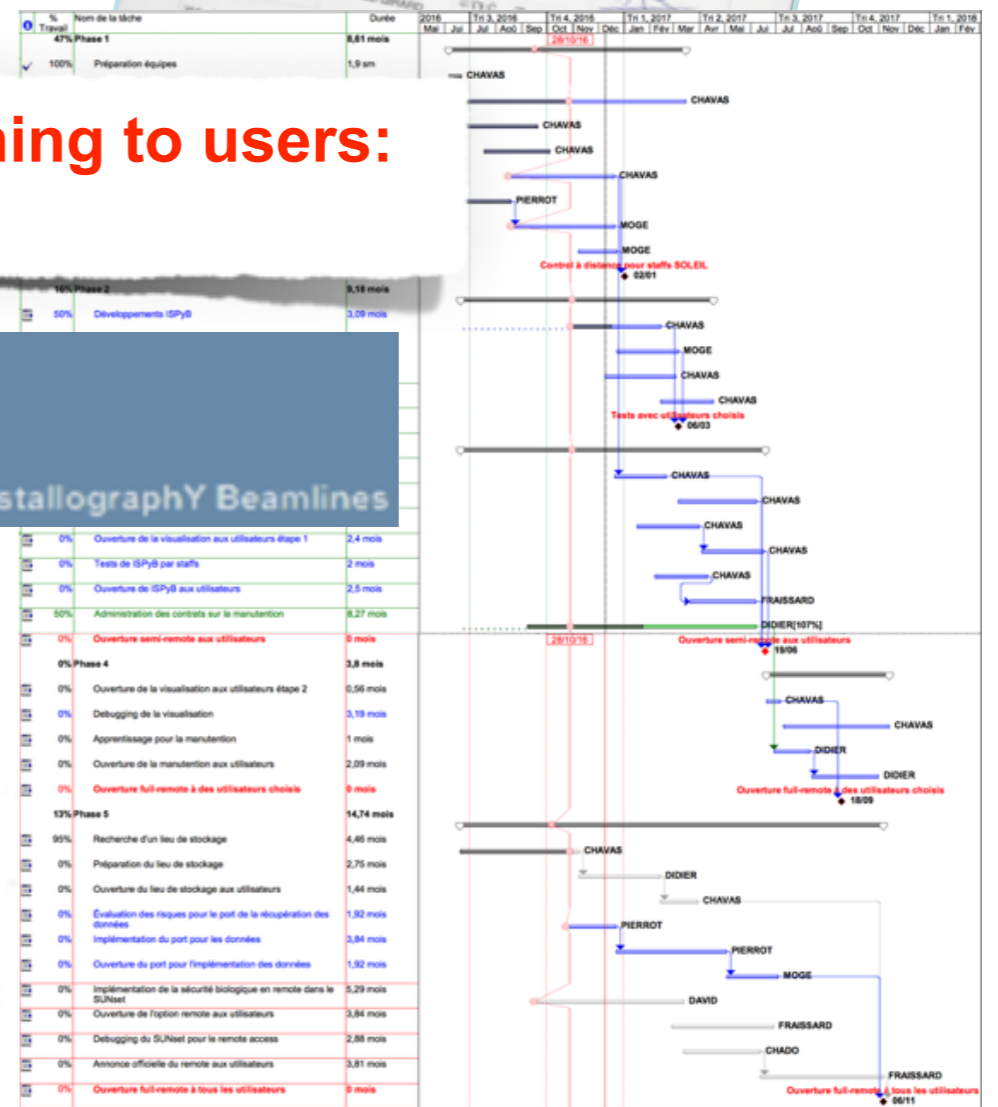


# REMOTE ACCESS AT SOLEIL



**Proposed schedule for opening to users:  
October 2017**

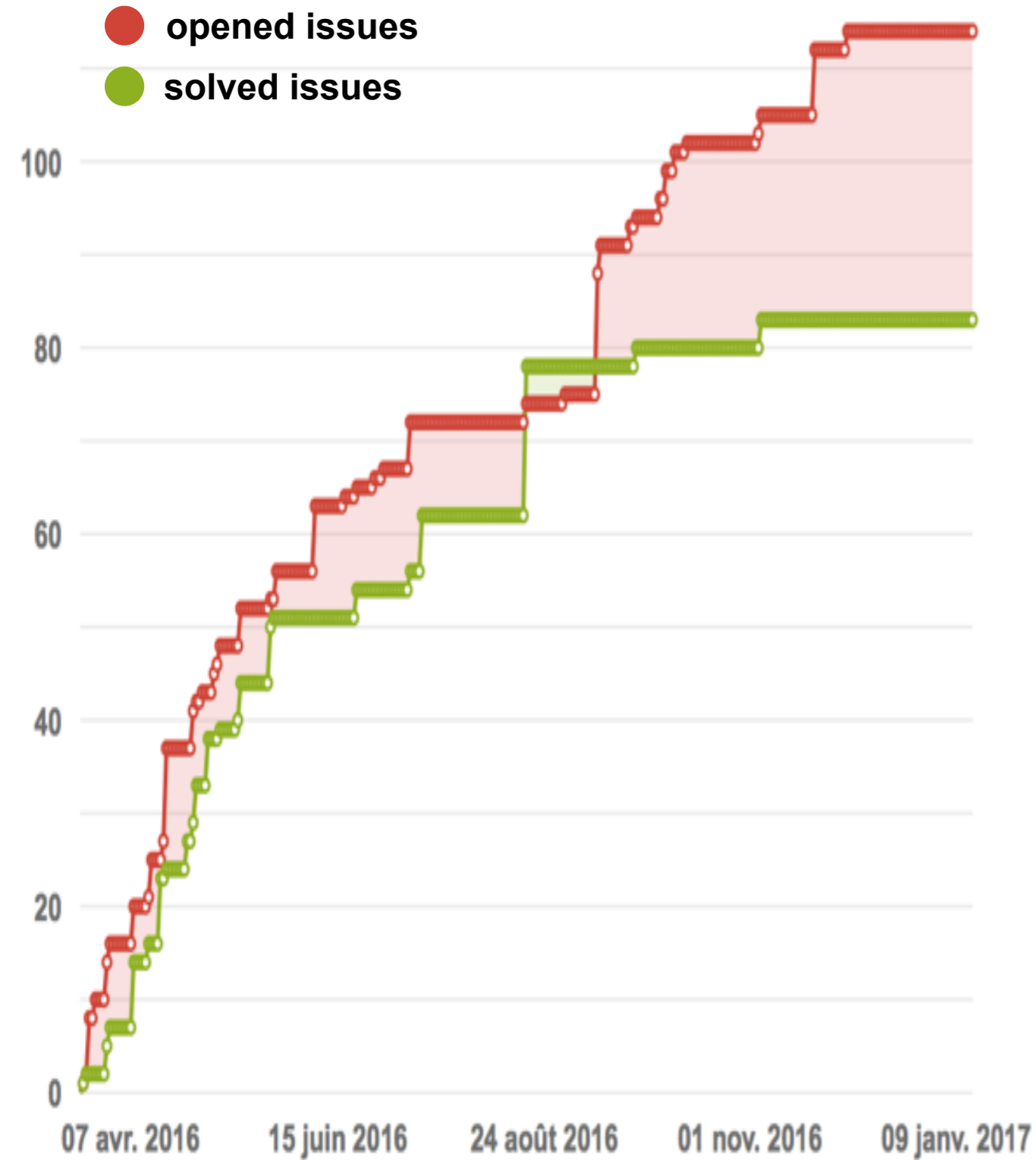
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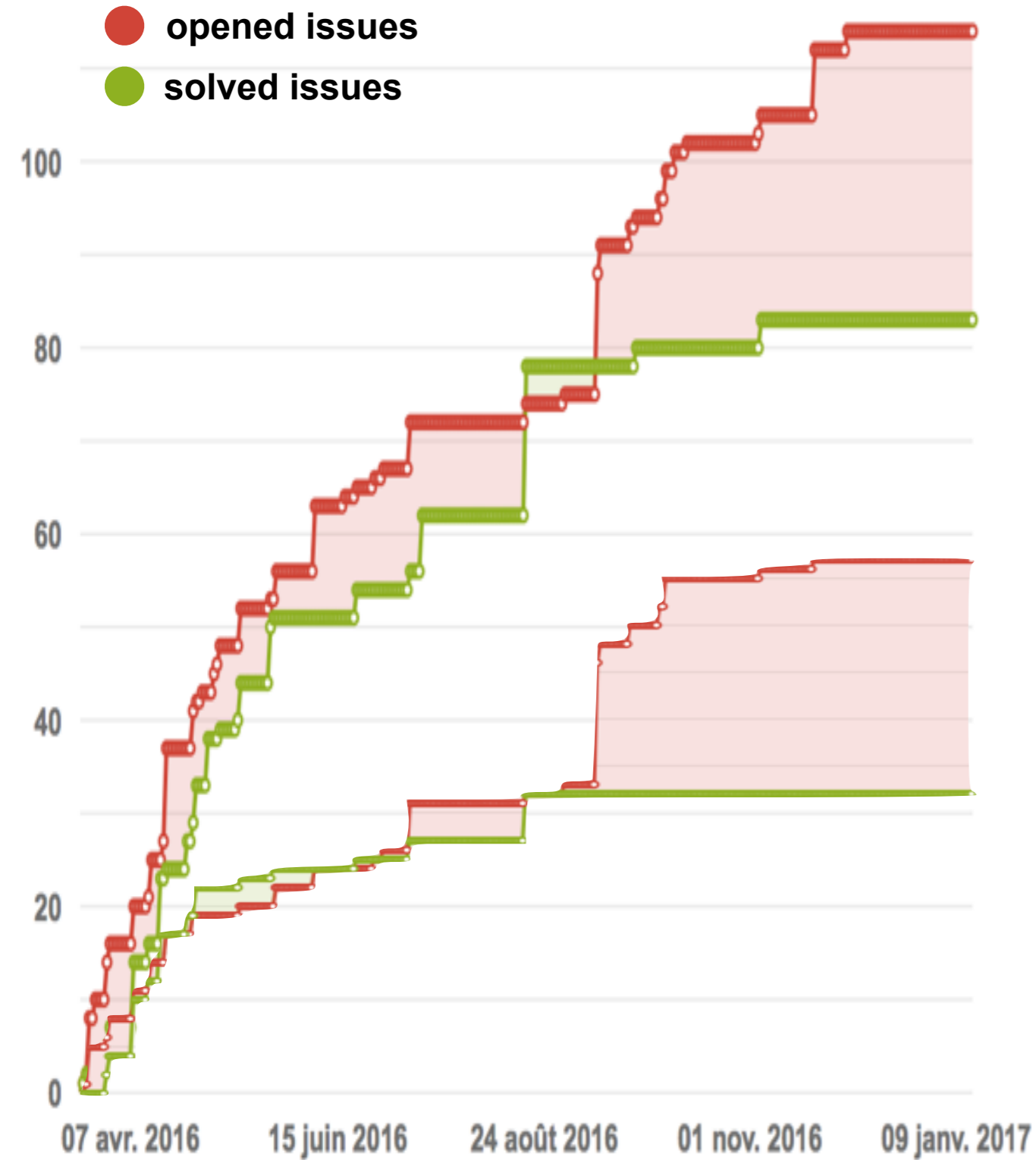
# EVOLUTION OF BUG-FIXES (PXI ONLY)

- opened issues
- solved issues



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- opened issues
- solved issues

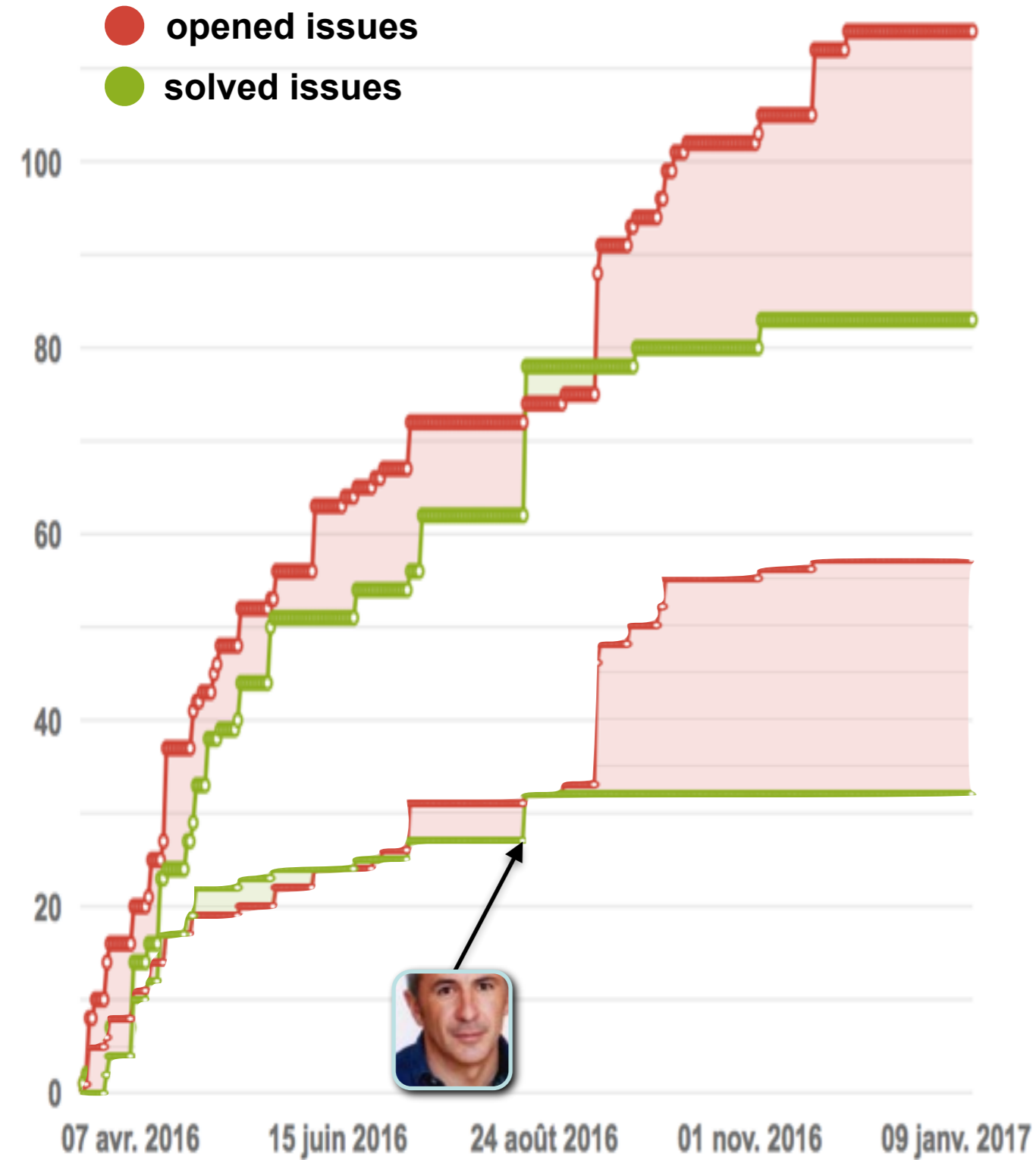


# EVOLUTION OF BUG-FIXES (PXI ONLY)

● opened issues  
● solved issues

first series of issues related to:

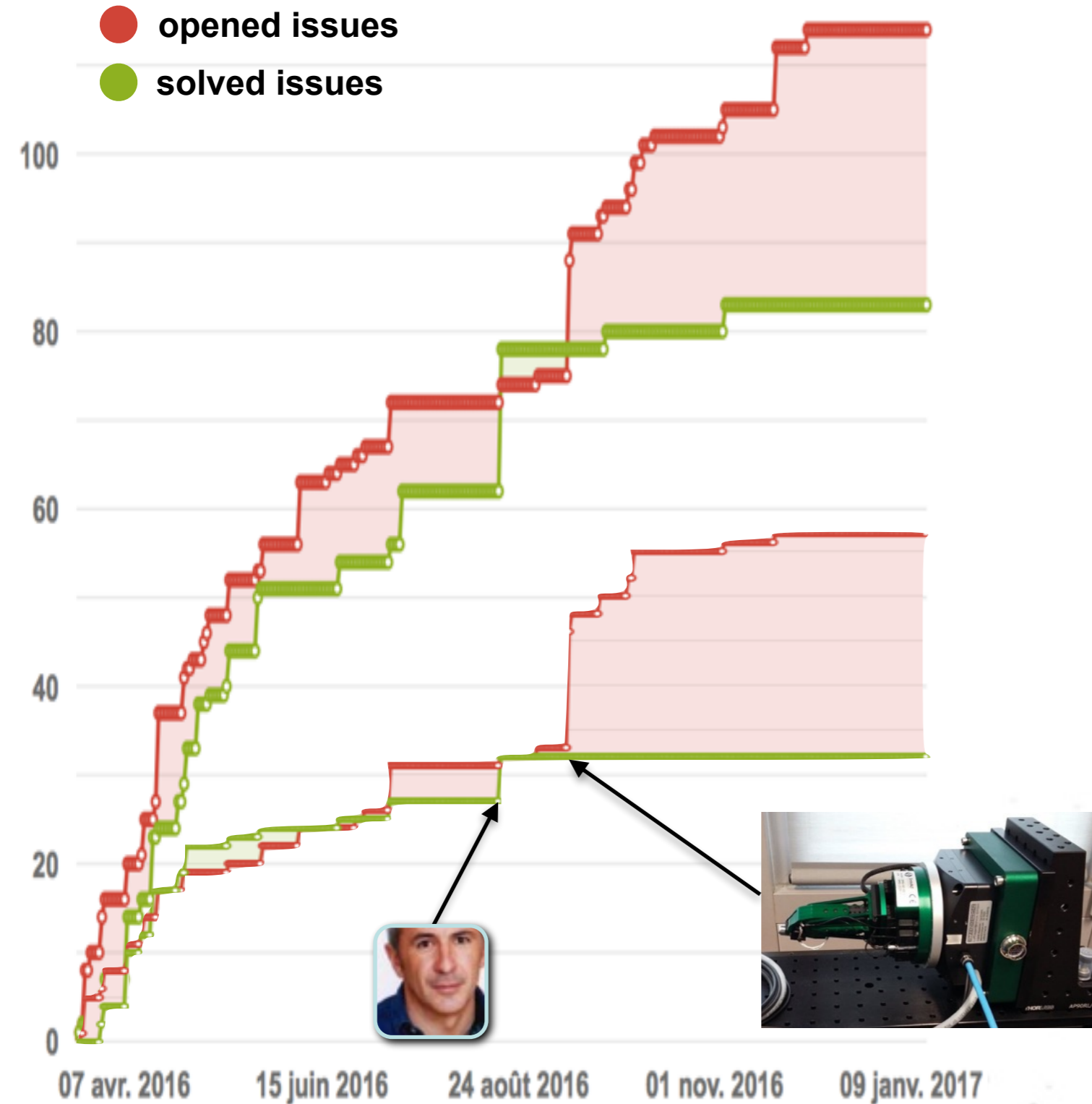
- robot operation 'smoothing'
- slow-down of the interface



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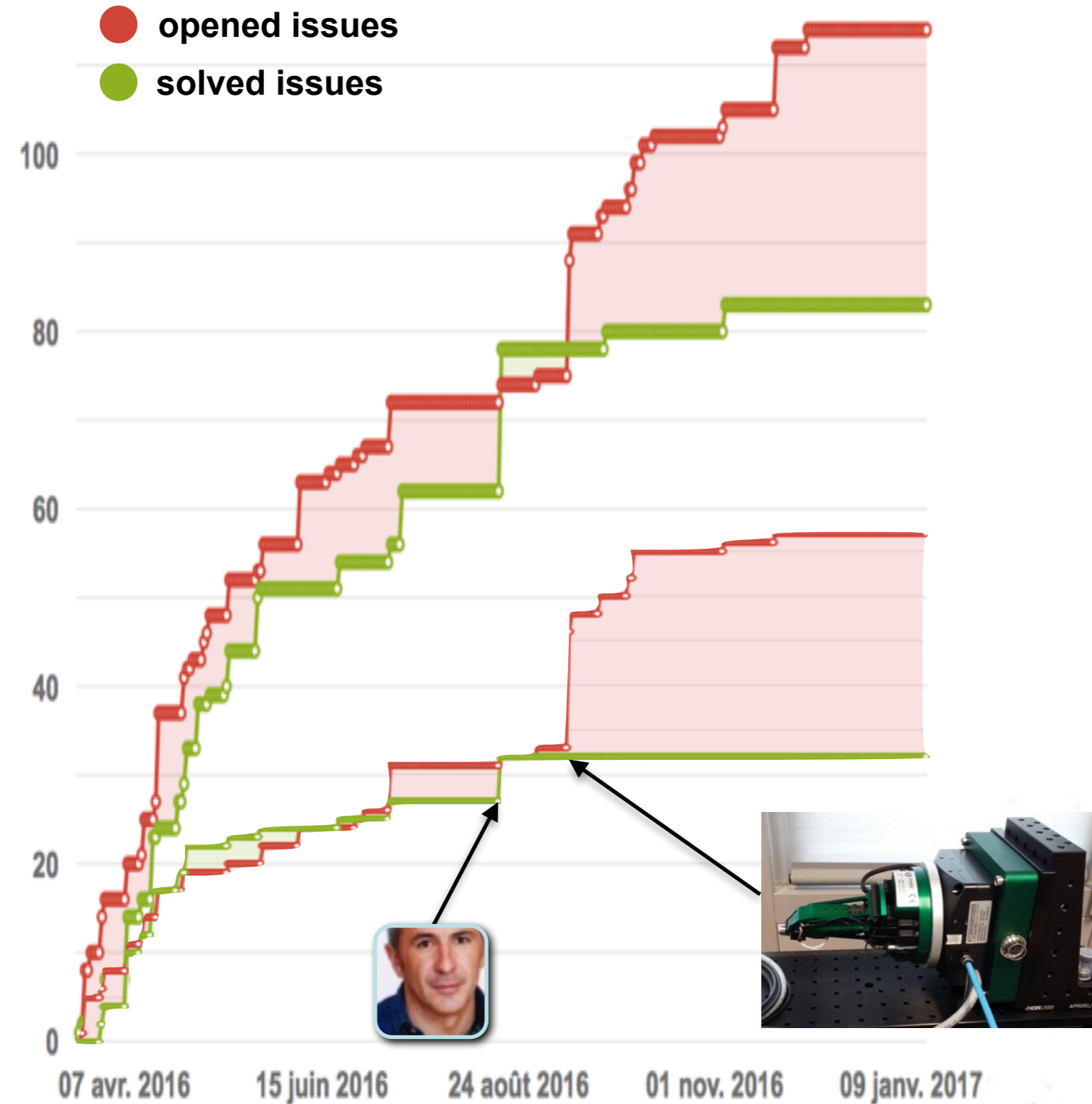
second series of issues related to:

- implementation of SmarGon
- all devices surrounding SmarGon
- new slow-down of the interface
- XDS results linked to ISPyB
- neighbouring beam line status

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● opened issues

● solved issues



first series of issues related to:

- robot operation 'smoothing'
- slow-down of the interface

second series of issues related to:

- implementation of SmarGon
- all devices surrounding SmarGon
- new slow-down of the interface
- XDS results linked to ISPyB
- neighbouring beam line status

current plans for upcoming period:

- fix most of above issues
- addition of 'basic' functions
  - ~ on-the-fly indexing (new server)
  - ~ *in situ* data measurements
  - ~ remote access options

# Acknowledgments



**Patrick Gourhant**  
Assistant engineer



**Leo Chavas**  
Beamline manager



**Bill Shepard**  
Beamline manager



**Damien Jeangerard**  
Assistant engineer



**Pierre Legrand**  
Beamline scientist



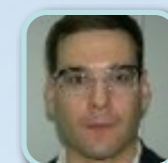
**Serena Sirigu**  
Beamline scientist



**Tatiana Isabet**  
Responsible industry



**Gavin Fox**  
Beamline scientist



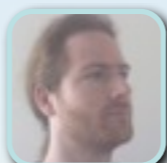
**Martin Savko**  
Beamline scientist



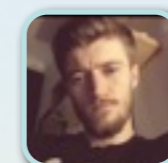
**Tiphaine Huet**  
Post-doctoral fellow



**Pierre Montaville**  
Post-doctoral fellow



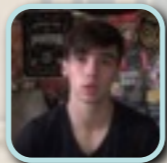
**Igor Chaussavoine**  
PhD student



**Adam Simpkin**  
PhD student



**Enrico Stura**  
Associate scientist



**Robin Lener**  
Apprenti

Ivan Polsinelli    Nicolas Foos  
James Torpey    Nicolas Richet  
Denis Duran    Laurent Gadea