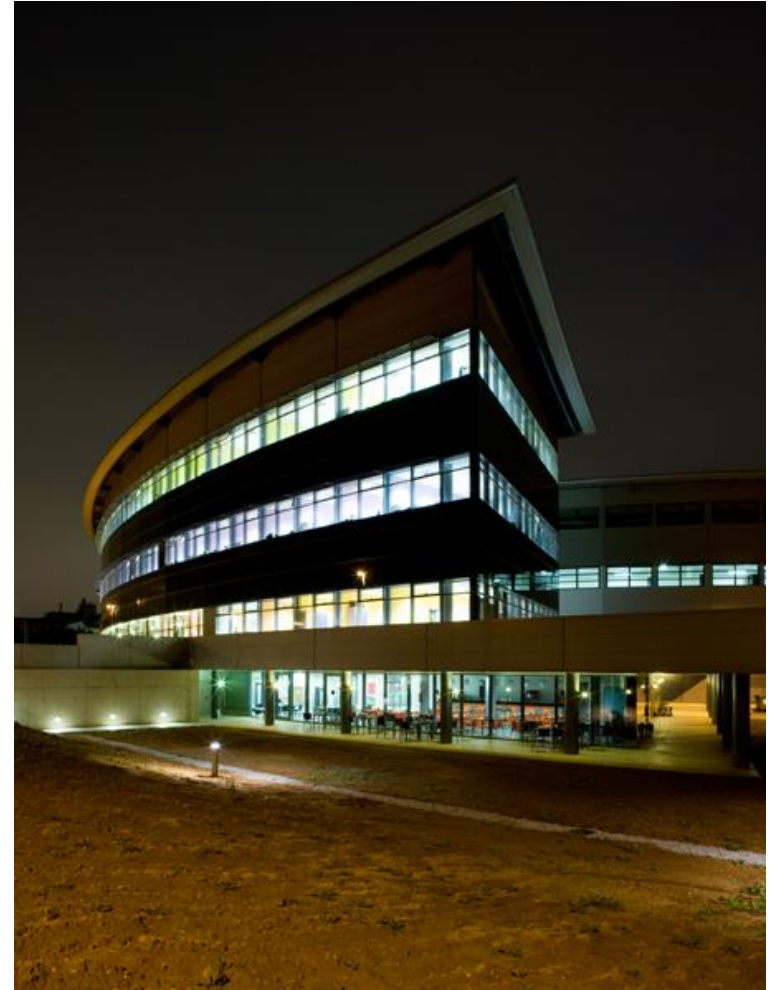


# ALBA Synchrotron Interests in participating

**Guifré Cuní**

**(Head of Controls)**

on behalf of Daniel Salvat  
(Head of MIS)



1

Current Status

2

CALIPSO Plus

3

Data Management  
Project

4

Summary

- Automatic data processing
  - X-Ray Microscopy beamline with custom workflows for tomography: data conversion, auto-alignment, normalization, reconstruction
  - New beamline to be approved soon (Sep18?)
- Metadata
  - Evaluation of ICAT in 2015 (not in production)
  - 2017 tests with specific macro to generate metadata like “commit experiment” (not in production)
- MX
  - One beamline in operation
  - One beamline in desing phase
  - Running standard pipelines + ISPyB (testing phase)

- ALBA Synchrotron is currently involved in CALIPSO Plus
  - First tests with a remote access to virtual desktops launched on demand and using the web browser
  - 2'50" video available if you are interested
- Working with a predefined or “on demand” set of software to be available on those desktops to analyze the data
- NOTE: MX and IR beamlines have “remote access” with a custom solution (dedicated desktop shared with the beamline)

- Branch 1 – Storage and Data Acq + Data Reduction
  - Data Policy (Jul17) implementation and coordination with IT and Controls
- Branch 2 – Data Catalogue and Metadata
  - Define a roadmap for ALBA's Data Catalogue implementation and coordination with MIS and Controls
- Branch 3 – Data Analysis as a Service
  - Analysis of current a future needs (online and offline)
- Branch 4 – General Data Management Strategy
  - Be synchronized and collaborate with other facilities

- Tomography:
  - New beamline to be approved soon
  - Focus on the acquisition, alignment and reconstruction workflows
- Implementation of a Data Catalogue and towards standardizing the metadata generation
- New project focused on Data Management
  - 1 new position open and covered + Transversal work IT+MIS+CT
- Better user experience with Data Analysis As a Service
- In general improve data acquisition, reduction, online and offline analysis workflows, and automatic processes

Thank you!