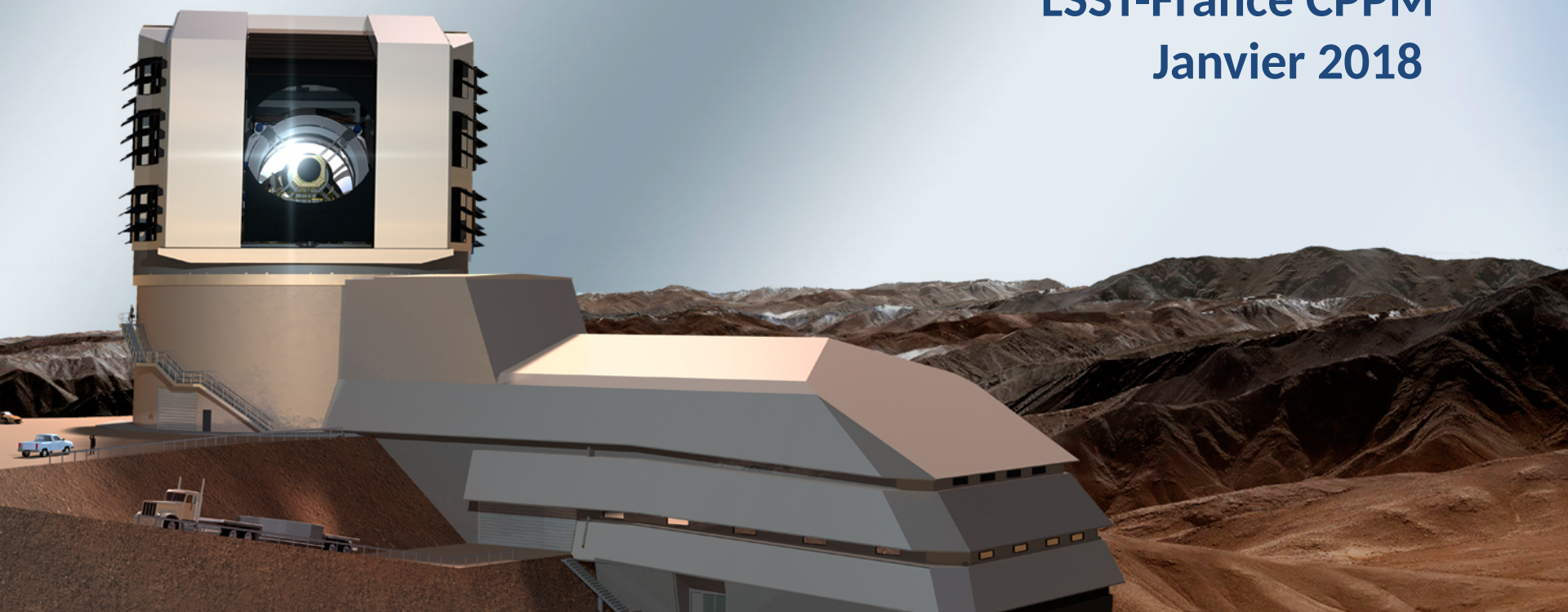
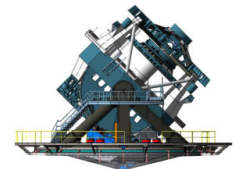


# Data Access and Analysis Center

Dominique Boutigny

LSST-France CPPM  
Janvier 2018





Note :

- Data rights does not imply Data Access → LSST will charge the access to the NCSA DAC

We want to give full data access to the IN2P3 scientist

→ Scientific return for our investment in the project

We plan to deploy a Data Access Center and a Science User Interface

- Will re-use components being developed at IPAC as much as possible

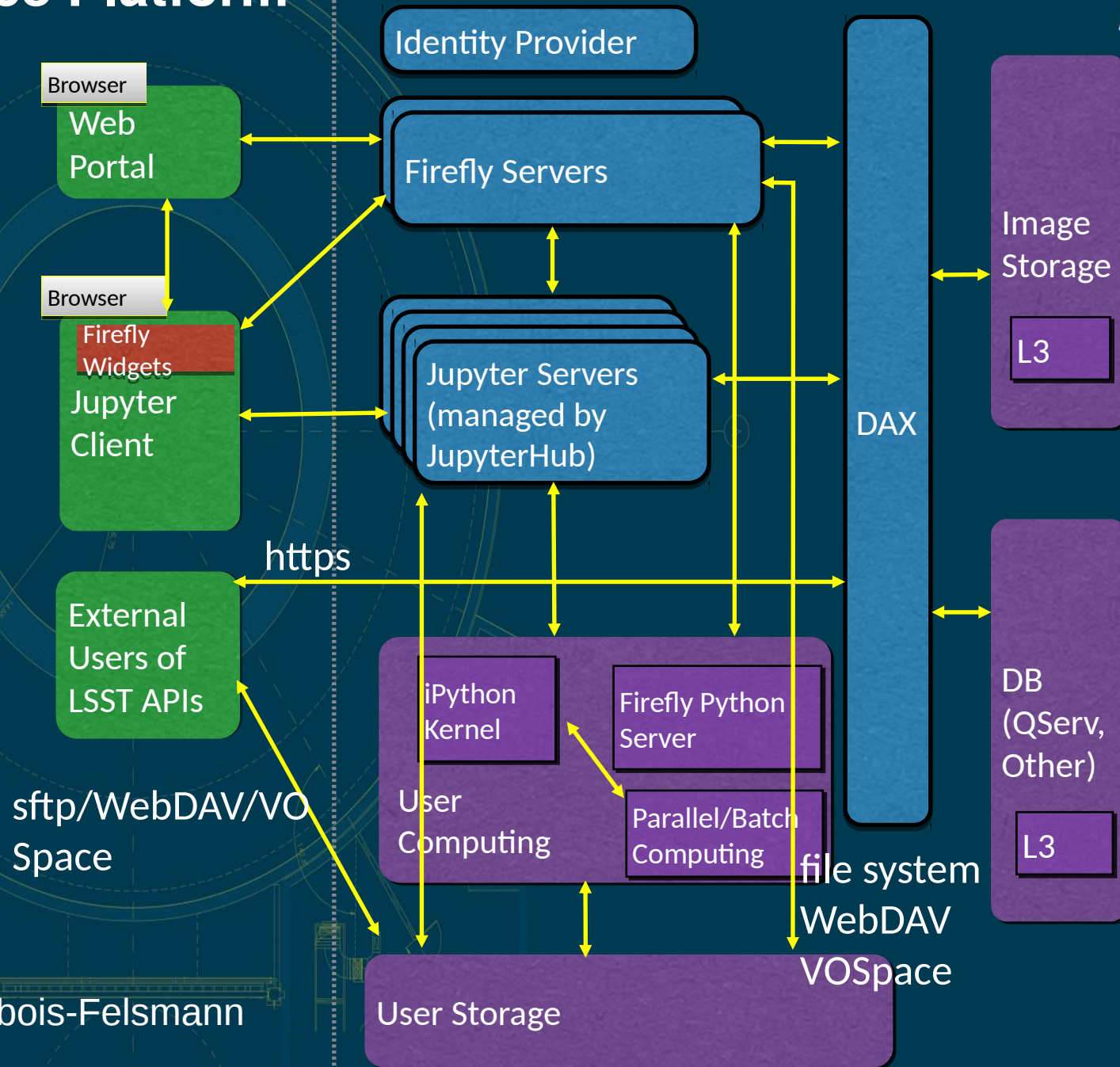
4 possible scopes for our “Science Platform” :

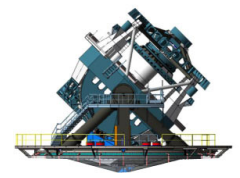
- Open to the French community at large → Transients – Stellar...
- Europe → within a EU project
- Limited to IN2P3 community → Mainly DESC
- Worldwide together with NCSA

But no real reasons to limit the scope of the DAC / Science platform to LSST data

→ The platform should be science driven

# Science Platform



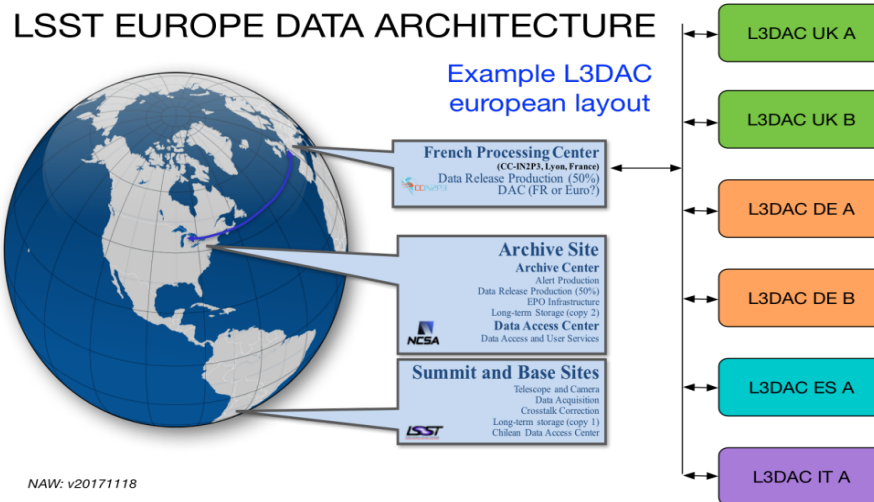


# Preliminary discussions with UK



2 meetings with the Cambridge group (R. McMahon, N. Walton et al.)

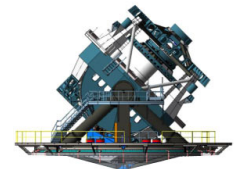
- Very interested to push a model where the data are stored at CC-IN2P3 and where the analysis platform are located in remote sites



Walton - LSST:FR - IoA Data Meeting @ Lyon

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- Idea to use this model to federate an effort at the European level and to answer to an H2020 call.
- But internal tensions within UK could not allow this to happen
- Situation could be clarified by early February
- Too late for this call, but nothing prevent us from starting to coordinates with European partners



PDAC V1 available at NCSA :

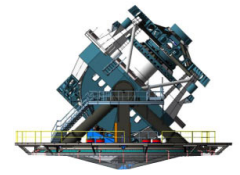
<https://confluence.lsstcorp.org/display/DM/Prototype+Data+Access+Center>

- Contains the catalog of the 2013 reprocessing of SDSS Stripe 82
  - calibrated single epoch images (calexp)
  - coadds
  - Measurements on coadds
  - Forced photometry
- Image and catalogs query results displayed using Firefly
- Access granted on a case by case basis according to LDM-482
- WISE (Wide-field Infrared Survey Explorer) and NEOWISE (Near Earth Objects) data

Is there any interest in getting access for a couple of people ?

- I think yes...





## Qserv

At the moment :

- 2 Qserv clusters: 2x25 servers for Qserv developers
- Test platform deployed on OpenStack (Sabine)

In the middle term, we need to have our own instance of Qserv

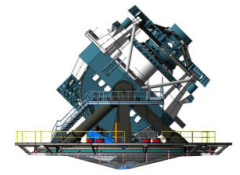
- Get a subset of ~5 servers from the official test platform
- Not clear when we can get this without impacting too much the Qserv developers

## Kubernetes

- Status at CC-IN2P3 ?
- At which point is it becoming critical for DAC test @IN2P3 ?

## DAX

- ???



## Firefly

- Firefly client / widget is relatively easy to install
- Need to start testing Firefly server
  - On which platform ?

At the moment, all the software components are supposed to be deployed at the same place

- Explore possibilities to setup DAX / Qserv / Batch system / ... at CC-IN2P3 and the User Interface / local computing at a remote site