

French Data Access Center

LSST-France _ Grenoble June 8th - 9th

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MOA signed in 2015 :

- CC-IN2P3 will process 50% of the level-2 data : Satellite Data Release Processing
- Active collaboration between CC-IN2P3 and NCSA (JCC)
 - Some R&D starting (including partenership with vendors)
 - 20 Gb/s dedicated bandwidth being commisionned





- Need to think about the next steps
 - We will have the data but how do we provide access to them ?
 - Which infrastucture do we set up for science / analysis ?
- Such an infrastructure will have a cost (\$ and human)
- Some important political aspects
 - Invited talk at the Belgrade meeting
 - Perhaps a good time to start talking with other European LSST partners
 - Need to reach an agreement with IN2P3 / CC-IN2P3

 \Rightarrow need to plan things now



- The French DAC will be a combination of
 - The LSST DAC as decribed in LDM-230
 - The DESC computing infrastructure as defined by the CI1-CI2 working groups
 - Relies heavily on facilities at NERSC
 - + some other requirements form the French / European LSST community
 - May include non DESC functionnalities

3 options :

- DAC restricted to IN2P3 community
 - Minimum option to guarantee the scientific return
- Open to a French wider community
 - Include INSU and CEA
- Open to the international LSST community
 - In-kind contribution to DESC
 - Set up something collaborative at the European level
 - Are we able to reach an agreement other European LSST partners and especially with the UK ?
 - Are there other potentially interested countries ?
 - Apply for EC funds ?

- Data repository
 - Store and serve level-2 / level 3 data + user data
- Catalog of Astronomical Objects a.k.a. Qserv
- HTC farm
- Parallel / large memory farm
 - Large cosmological fits
- User Interface and vizualization
 - Will mainly rely on the services developped at IPAC
- Data distribution system
 - To download datasets to local facilities / laptop
- Also need to specify the communication channels to be set up between all the components



 We need input from the user community in order to specify and to size more precisely each component