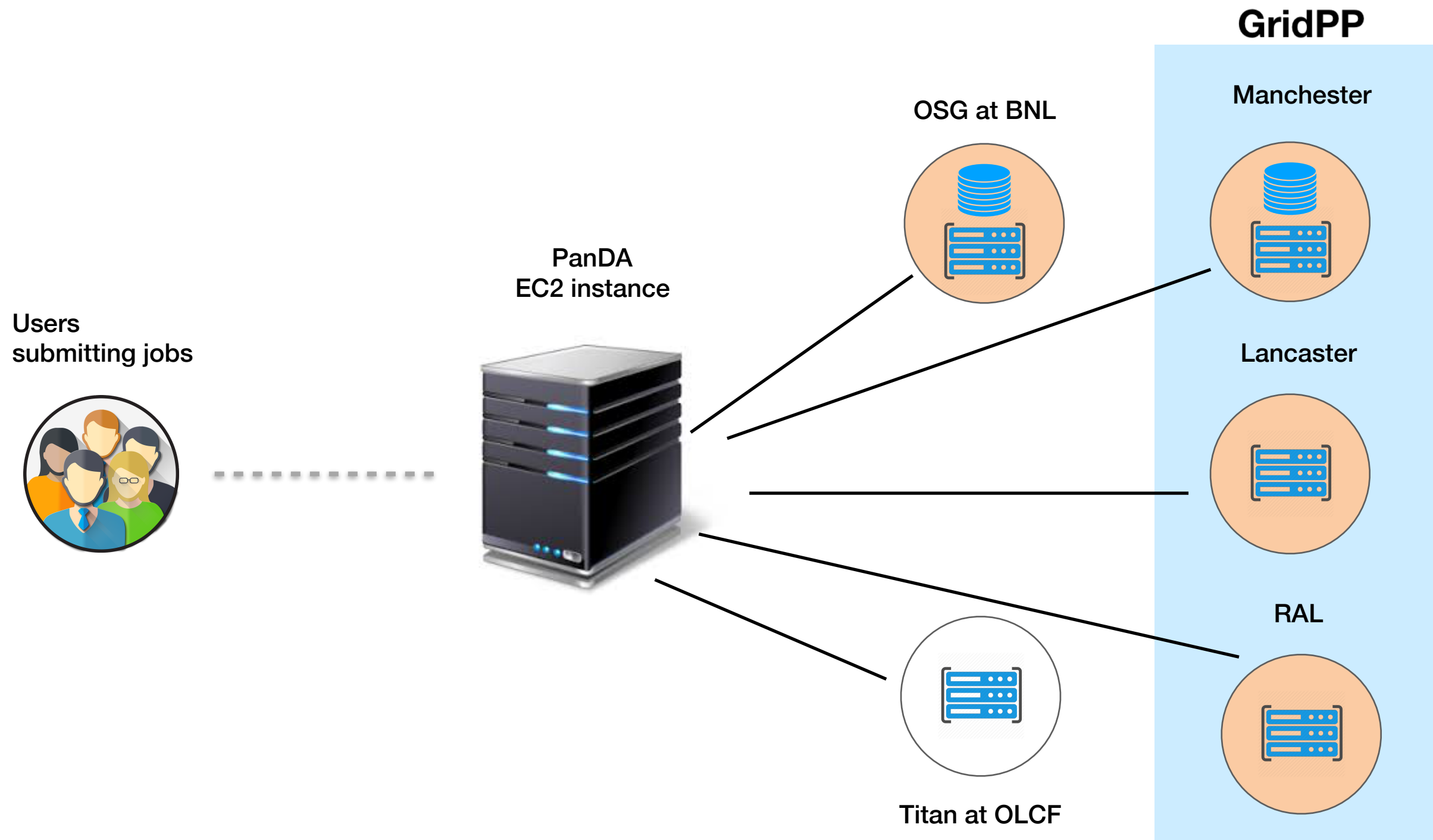


# LSST/PanDA status update

P. Svirin, S. Panitkin

BigPaDA Technical Interchange Meeting, Arlington  
February 17, 2018

# PanDA setup for LSST



# Grid

- OSG
  - tried with several sites from ATLAS Tier2 list: LSST jobs have to wait for a long time in the queue
  - Great Lakes ATLAS site (600+ cores): admins will discuss how could it be possible to enable LSST VO
  - Bellarmine university Grid site was immediately willing to join our infrastructure in December 2017 after my talk at Argonne Lab
- GridPP
  - 8 new sites were added (Imperial College, Glasgow, Oxford, etc.)
- 1 French site added: LAPP (Annecy)

# ORNL Titan

- The most limiting factor: LSST jobs were much longer than 2 hours
- In order to bypass time limits on Titan we tried checkpointing/restore software (DMTCP) with the latest PhoSim, working ok
  - how to handle checkpointed/paused state on PanDA?
- Titan may be interesting for LSST GPU payloads (ImSim); right now they are not ready

# LSST on Grid and Titan

Data Campaign 1 job used: catalog 1014427, R24\_S12, 8 threads

**Resource**

**Walltime**

Oxford

4:28

Titan  
(used PhoSim 3.7)

~10 hrs

# Summary

- PanDA server instance at EC2 was used to setup LSST job submissions to Grid sites (11 sites in UK, 1 in France, 1+1 US)
- Checkpoint/restore software working on Titan
- BNL LSST group will create use-cases for user analysis on Grid and Titan