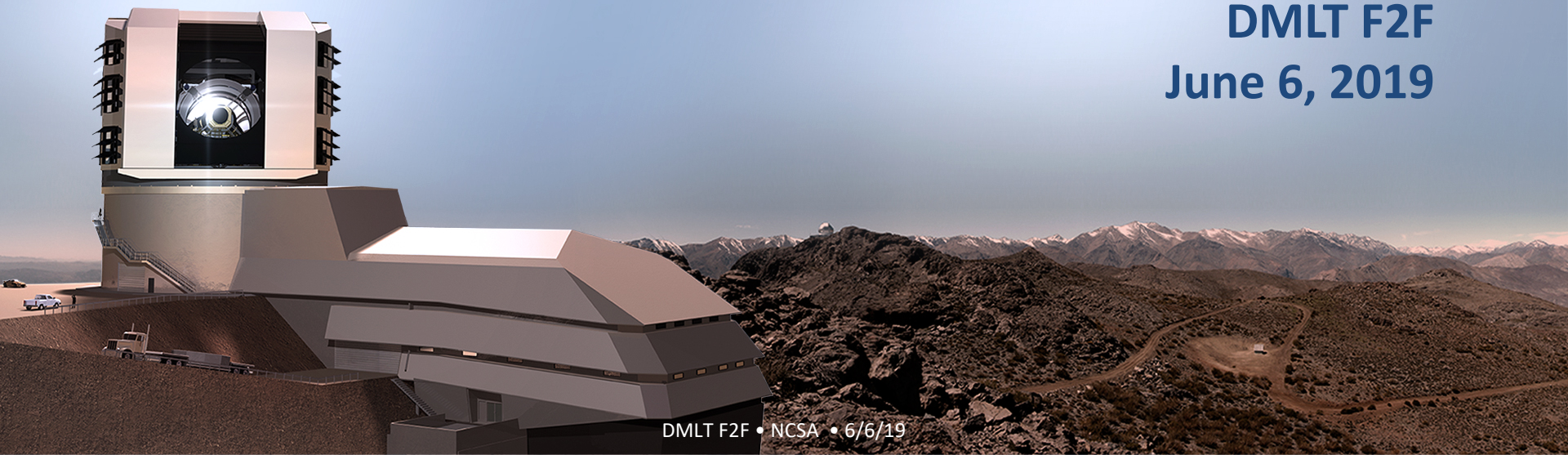# LSST Data Facility DM-specific activities in next six months

M. Johnson

DMLT F2F
**June 6, 2019**

Observatory Ops Services Software
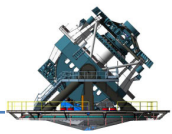
- Complete development/configuration/verification of spectrograph archiving service and header service prior to shipment

- Development and testing of ComCam archiving service and header service on Tucson test stand

- Catch-up archiver

- Migrate to new DAQ API v2.5 (when available)

- Integrate app-level monitoring into current framework

- Build and deploy framework for entire L1 environment (for efficient installation and configuration at all locations)

- Configuration management for NCSA L1 Complete Test Stand

- Deploy Spectrograph-related services in Chile/travel for DAQ install

- EFD service including LFA and Kafka->Oracle setup

Observatory Ops Systems Provisioning
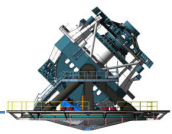
- Configure, test, pack, and ship systems for ComCam test stand in Tucson

- Configure, test, pack, and ship systems to Base Data Center (forwarders, DTN, EFD server, Oracle systems, security console, storage system, prompt-handoff)

- Security and networking configurations at Base and Summit

- Install and configure systems at BDC (travel in August)

- Deploy monitoring/alerting of LDF systems in Chile

- Onboarding NCSA's TMG group, moving into 24x7 operations desk
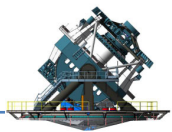
Gen3-related work

– Finish RC2 milestone

– DB-specific feedback, e.g., about schema and scalability and new or re-worked elements

– Other work related to Gen3 development, e.g., running tests, providing input on operational impact of new/emerging features
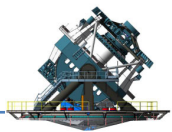
Batch Production Service

- Convert to HTCondor

- Initial BPS job activator

  - Some changes limited by availability of Gen3 features

- Add/improve operational information for debugging and reporting

  - Includes ingesting data into new database tables

- Change handling of science schema files as data files
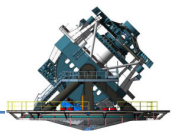
# Image Transfer from Test Stands + Ingestion into Repo

- Continue managing transfer and ingest from ATS and SLAC test stands

- Test scalability of rsync mechanism for ComCam; possible new transfer mechanism

- Deploy and manage transfer and ingest of ComCam test stand images

- Improve service monitoring and reporting (e.g., failed ingests, timings)

- Pending stability, test ingestion into Oracle Gen3 tables
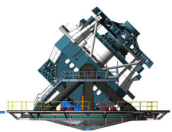
– File tracking system with Rucio + Oracle that would allow for prototyping file-based data management and movement processes

– Data DR system (file-based tracking)

– Documentation

Other Services and Activities
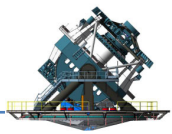
- K8s
  - GPFS native mount
  - Availability outside firewall and security policies
- Dataset reprocessing
- Prep ops rehearsal #2
- Service operations (ongoing)
- **Are there milestones or events you have coming up that rely on LDF services?**
  - We are tracking PMCS. Would appreciate notification of changes to dates.