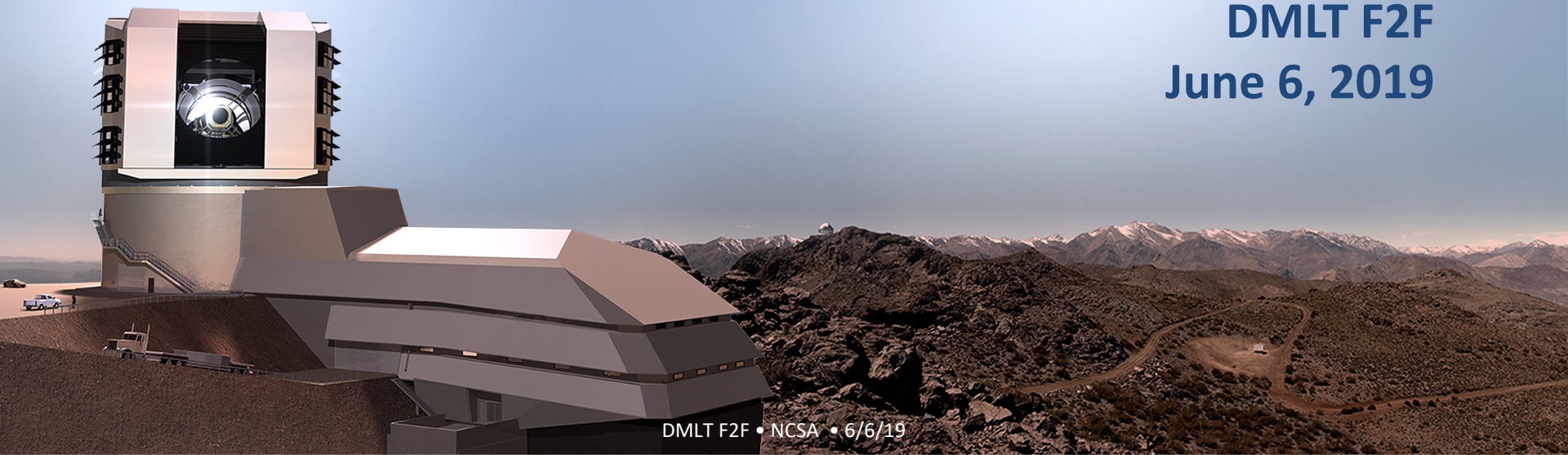


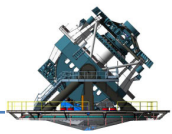


LSST Data Facility DM-specific activities in next six months

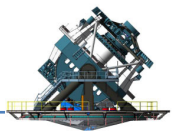
M. Johnson

DMLT F2F
June 6, 2019

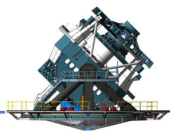




- Complete development/configuration/verification of spectrograph archiving service and header service prior to shipment
- Development and testing of ComCam archiving service and header service on Tucson test stand
- Catch-up archiver
- Migrate to new DAQ API v2.5 (when available)
- Integrate app-level 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



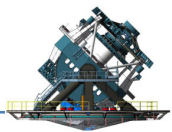
- Configure, test, pack, and ship systems for ComCam test stand in Tucson
- Configure, test, pack, and ship systems to Base Data Center (forwarders, DTN, EFD server, Oracle systems, security console, storage system, prompt-handoff)
- Security and networking configurations at Base and Summit
- Install 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, migration from Gen2,...



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

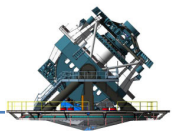
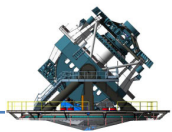


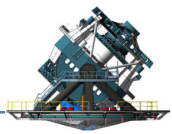
Image Transfer from Test Stands + Ingestion into Repo



- 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



- 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.