DAX F19 Highlights and S20 Plans

DAX F19 Highlights

DAX Services

- Auth for TAP and SODA
- Async for TAP and SODA
- PyVO enhancements
- Conference presentations (IVOA, ADASS)

Qserv

- Qserv monitoring dashboard
- Ingest and loading improvements
- Progress on Multi-master and distributed 2-ary index
- Data Synthesizer design
- Query Coverage (no more special `qserv_areaspec` syntax)

DAX F19 Highlights

Middleware

- HSC RC2 single-tract reprocessing carried out at NCSA w/ Gen3 Butler, Oracle-backed registry, and prototype BPS workflow
- Gen3 middleware now in use in AWS POC
- PipelineTask API review and improvements
- Progress on obs_lsst and obs_decam camera support packages
- S3 Datastore released
- BG3 ci_hsc now available in Jenkins to guard against regressions
- CPP task conversion is moving along well

Datasets

- PDAC ingest of DPDD-ified HSC
- PDAC ingest of Gaia DR2 (underway)

DAX S20 Plans

DAX Services

- ObsTAP (WISE)
- SIAv2
- Further PyVO enhancements
- SODA batched image retrieval
- Serve HSC from SODA, retire SDSS
- VOSpace implementation evaluations

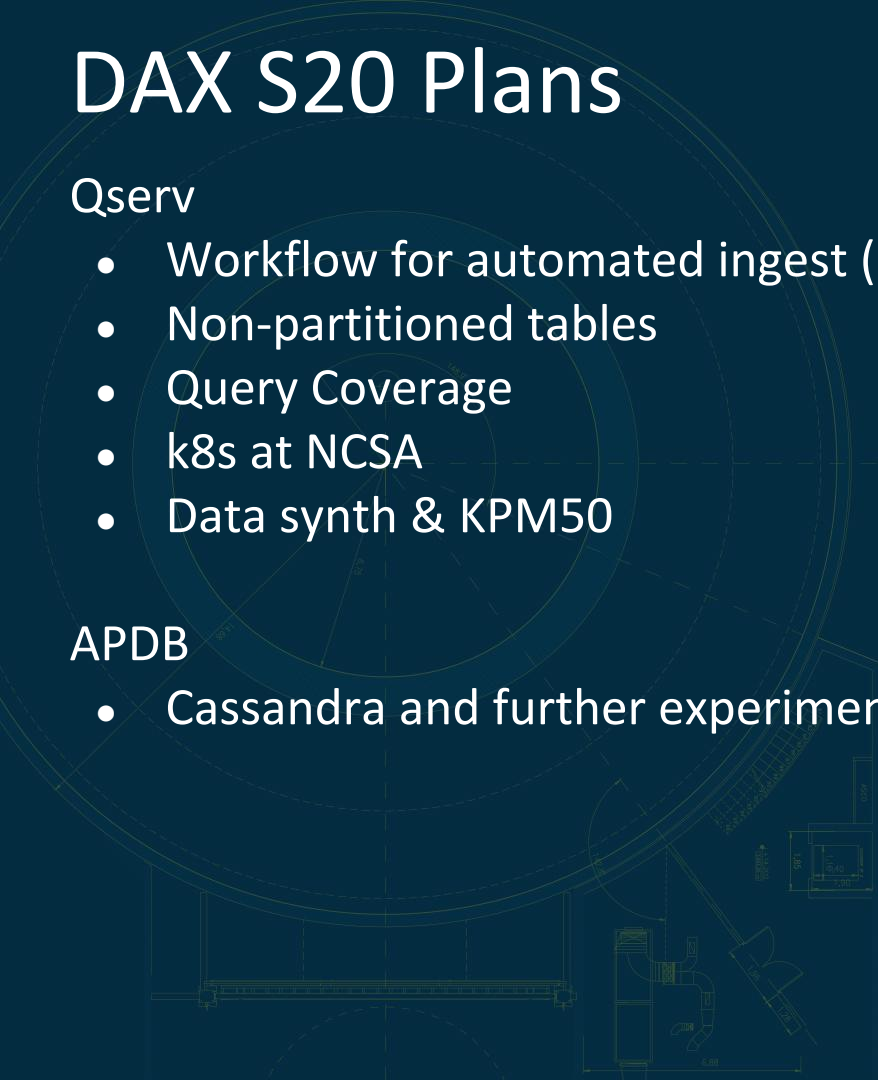
DAX S20 Plans

Qserv

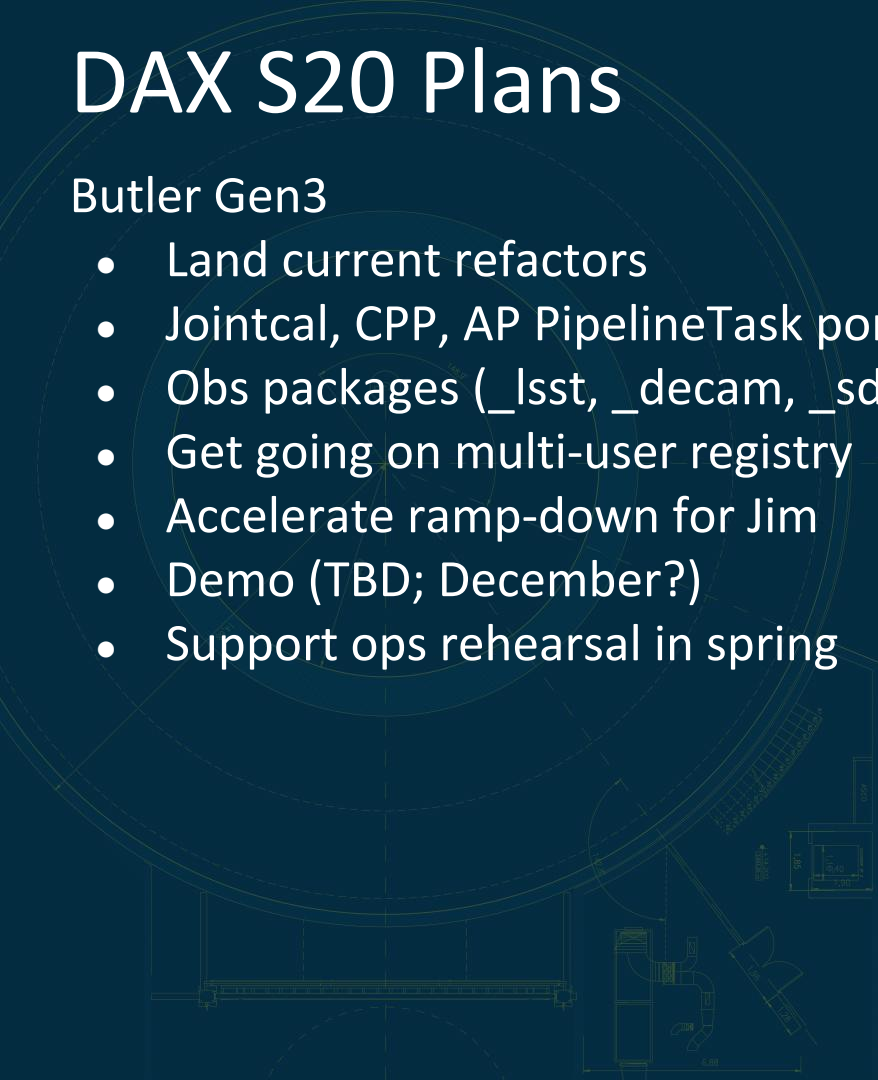
- Workflow for automated ingest (hook up to RC2/DC2)
- Non-partitioned tables
- Query Coverage
- k8s at NCSA
- Data synth & KPM50

APDB

- Cassandra and further experiments (per presentation)



DAX S20 Plans

Butler Gen3

- Land current refactors
- Jointcal, CPP, AP PipelineTask ports
- Obs packages (_lsst, _decam, _sdss, _cfht)
- Get going on multi-user registry
- Accelerate ramp-down for Jim
- Demo (TBD; December?)
- Support ops rehearsal in spring