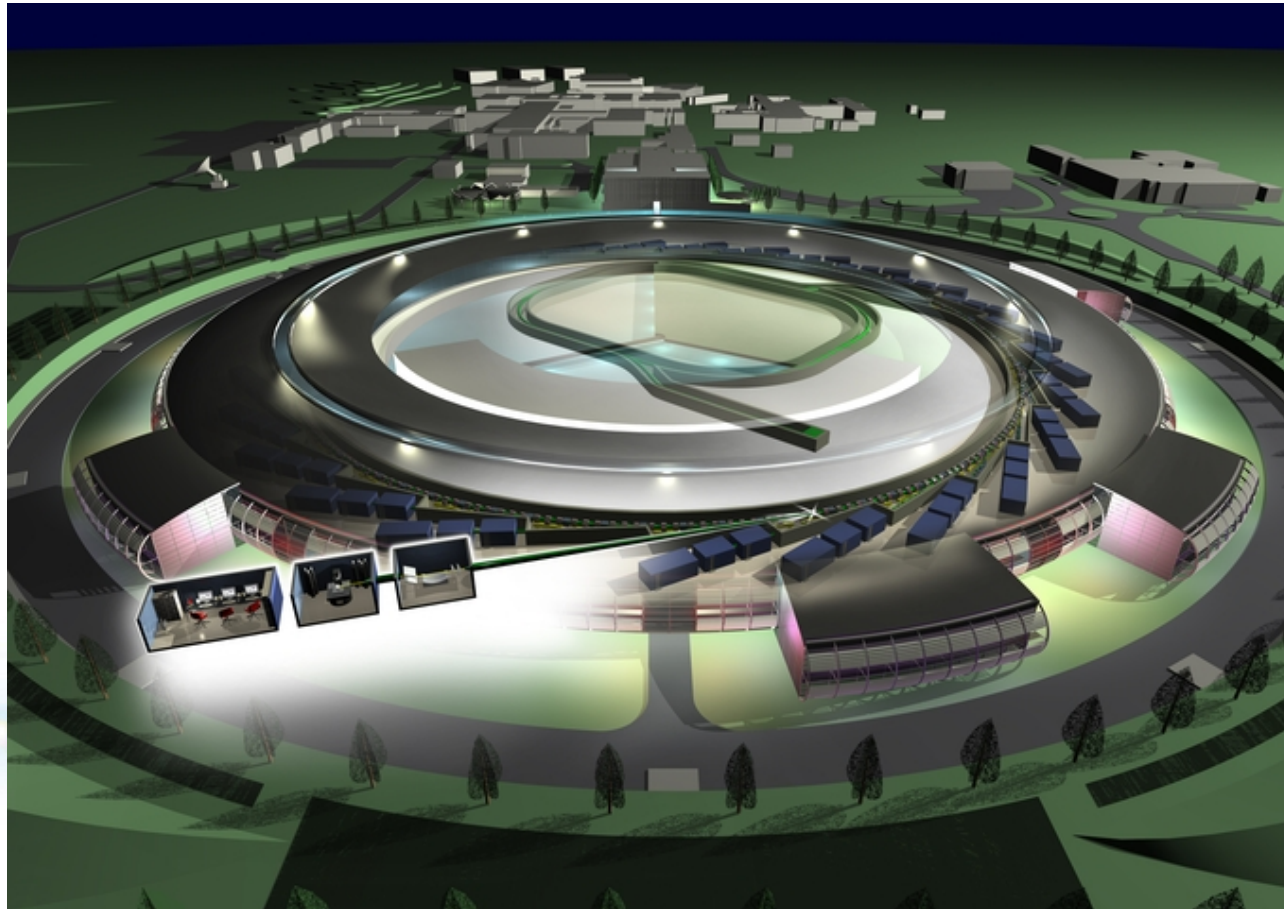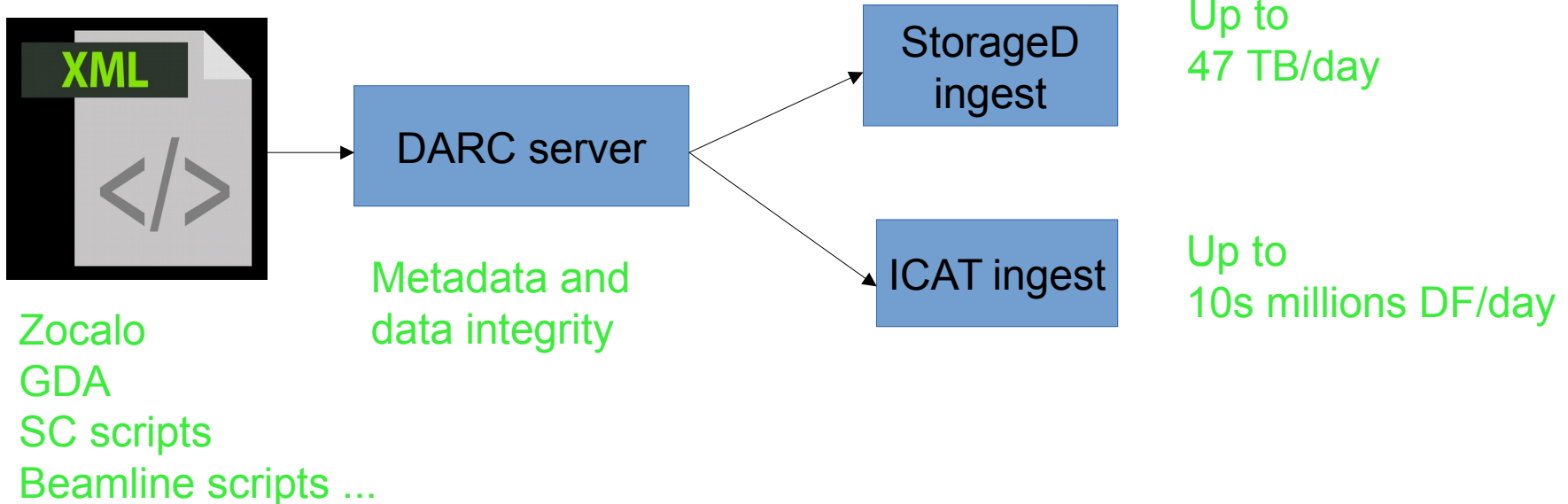# DLS update report

Current status

- ICAT v4.8 with Glassfish (2 servers)

- IDS v1.8.0 with Glassfish (for https and globus servers)

- TopCat v2.3.2 with Payara (move recently due to DoS Glassfish vulnerabilities).

- Instrument scientist can access their data (sync between Ldap and ICAT Users and InstrumentScientists tables, rules changed).

- Good progress with the integration of the various ICAT components → increase in the number of downloads

- Improve production environment: remove unnecessary legacy hardware and software → reduced maintanability effort

- Pre-prod environment available for system integration or end-to-end testing.

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Current status (cont.)

XML

DARC server

StorageD ingest

Up to
47 TB/day

ICAT ingest

Up to
10s millions DF/day

Metadata and
data integrity

Zocalo
GDA
SC scripts
Beamline scripts ...

- DARC currently python scripts. Refactoring. Critical bug fixes & new features
- Define release procedure: Git (testing and master branch), rpm package, deployment with CFEngine.
- Unit and system integration tests. Unit test integrated into Jenkins.
- Ongoing: DARC server in Java using Apache Camel. Easy to integrate with both XML and Active MQ.
- ICAT ingest: automated system integration tests available in preprod environment.

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Current status (cont.)

Current issues

- TopCat: UI not intuitive for users.

    - Problem with large number of files,

    - users can't find their data,

    - cannot select a whole visit for low data rate beamlines,

    - search functionality need improvements.

- Problem with SQL queries.

Conclusion

Diamond 10 years of operation
and 10 PB of data on tape!