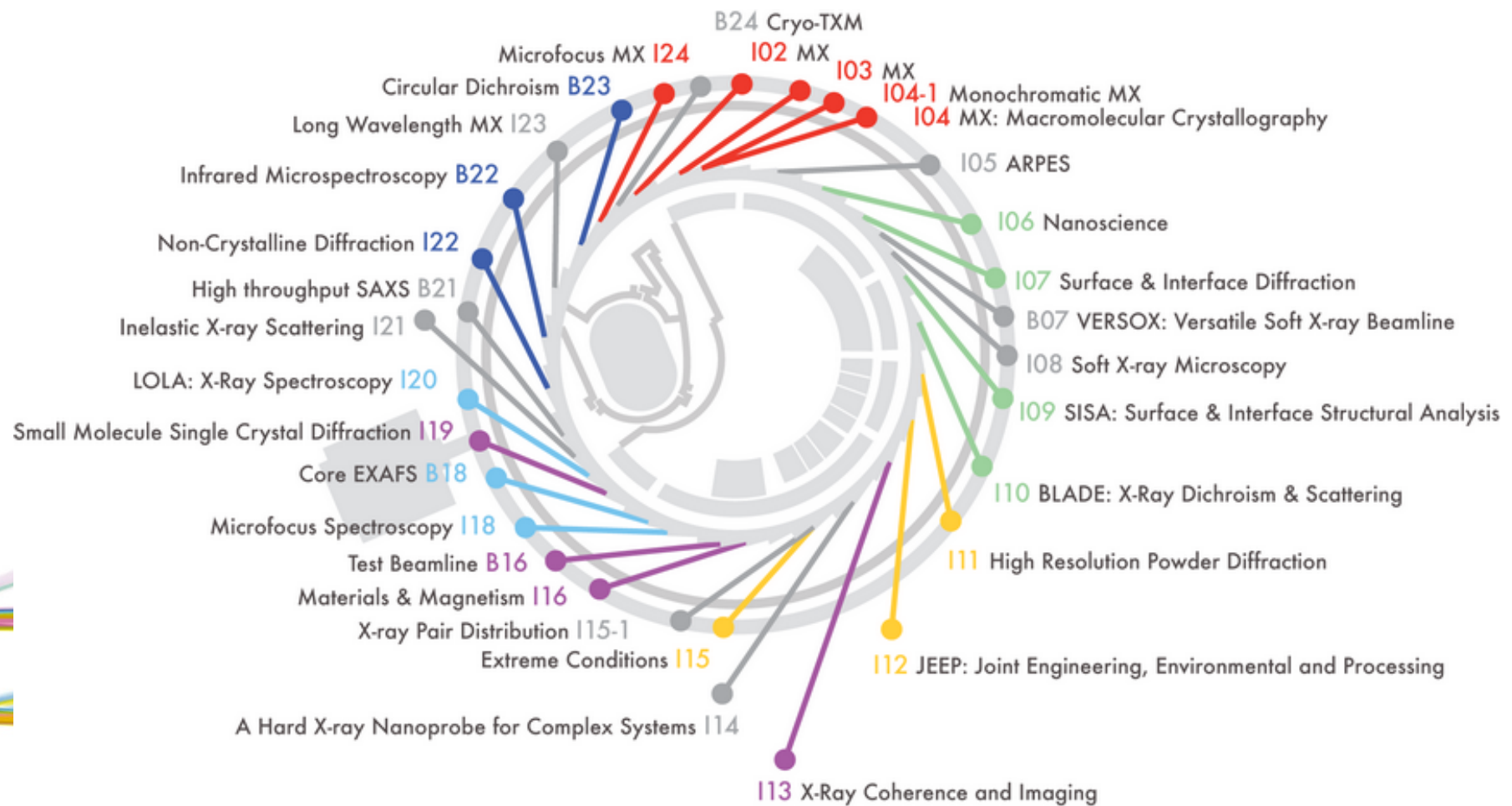DLS: Sylvie da Graca, G. Matthews, A. Ashton, A. J. Richards
SCD Software Engineering and Data Services Groups

Data ...

and More Data ...

- eBIC (electron Bio-Imaging Centre):
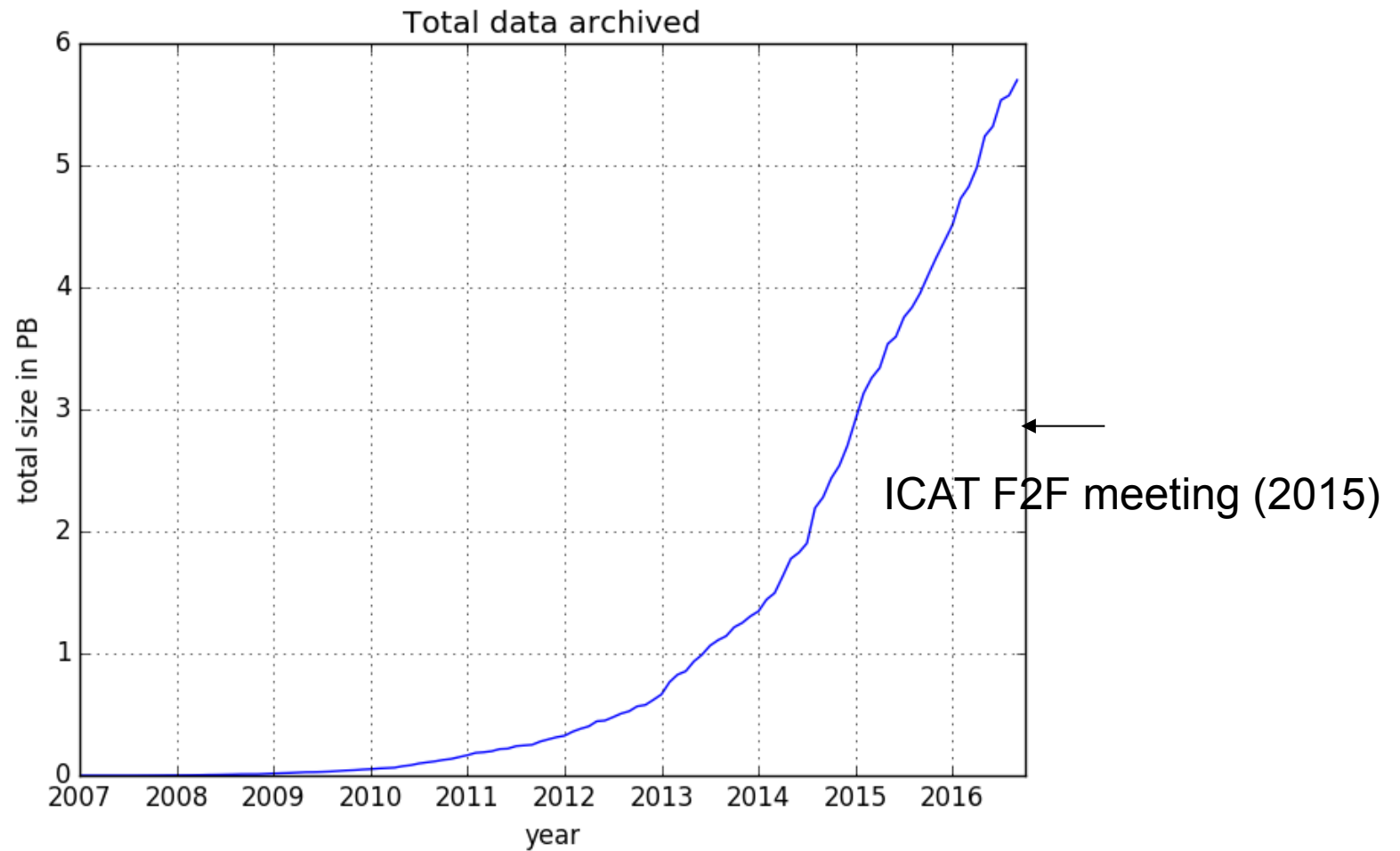Titan Krios I (2015)
Titan Krios II (2015)
Polara (2016)

- UK XFEL Hub

- ePSIC (electron Physical Science Imaging Centre):
Building ready. Coming soon ...

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Quantities ?

Total data archived

ICAT F2F meeting (2015)

Total archived files ~1.265 billion

Getting data

- Download into a disk drive during visit.
- Transfer data from DLS parallel filesystem (ftp, globus) to home institute up to 40 days after the visit.
- Use TopCat to get the data from tapes after 40 days. Processing and raw data are archived. Visits with commercial data are not archived.
- Recommend to use Globus for data transfer > 20 GB.
- Need for the user to install either Globus Connect Server (home institution) or Globus Connect Personal.

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Current Status

- ICAT 4.6.1
- Glassfish 4
- TopCat 2.0
- IDS 1.5.0 for https transfer
- PollCat for Globus transfer
- Recently: update InstrumentScientist table using information from DLS LDAP (in production) and set the rules for beamline scientist to access beamline data through TopCat (tested, to be deployed)
- Rules: Administrator, Safe administrators, data ingestor, investigation user, instrument scientist (soon).

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Upgrade plan

- Long DLS shutdown (Oct-Nov-Dec 2016):

- ICAT 4.8.0: potentially solve authorization issue (occasionally not all data files present in zip file). Needed for new DOI functionality on TopCat.

- IDS 1.7.0: potentially solve the problem of having multiple datafiles with the same location (error when user unzip the downloaded zip file).

- TopCat 2.2.0: performance improvements and bug fixes. Need a later upgrade when DOI functionality is ready.
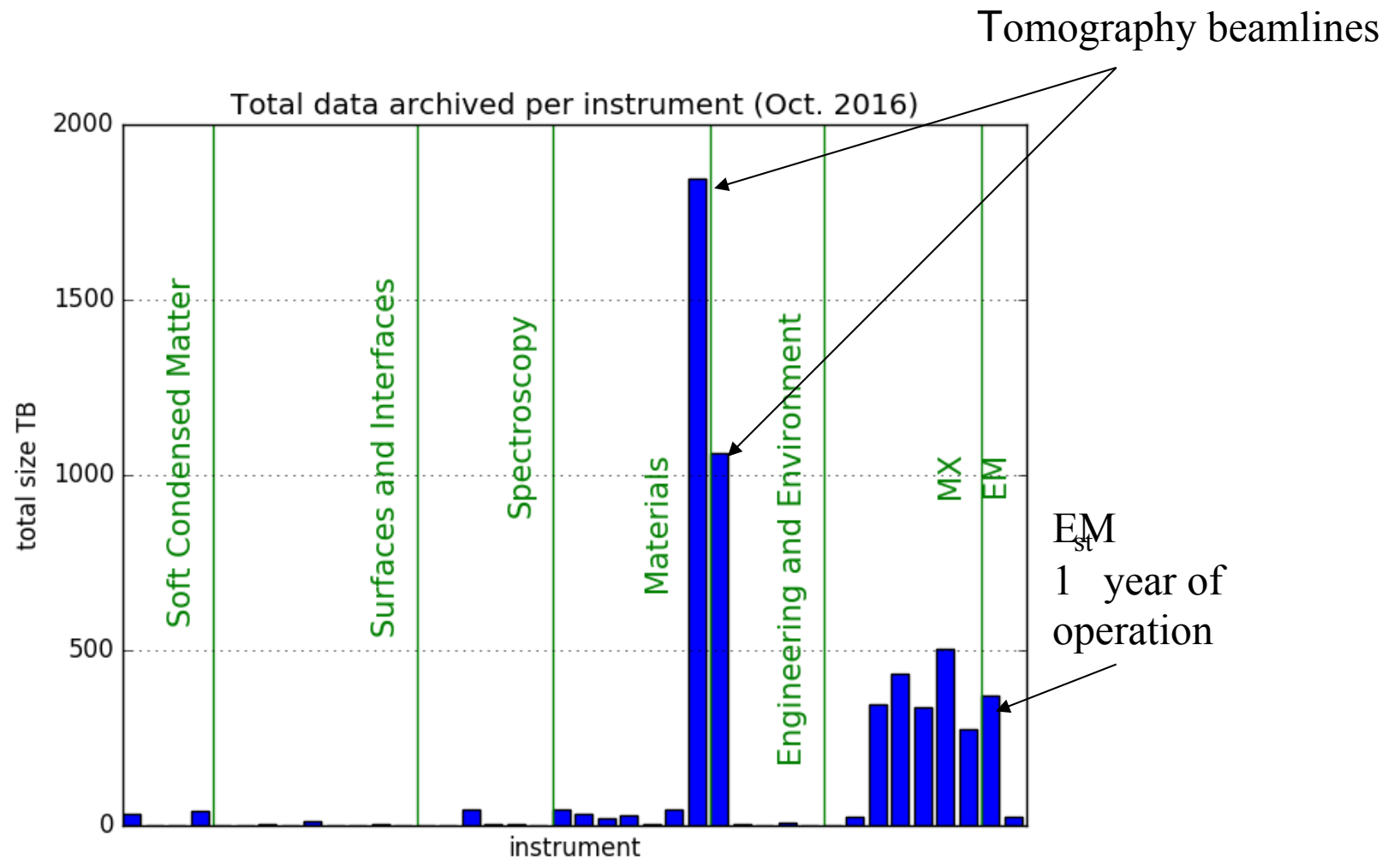
Restore node
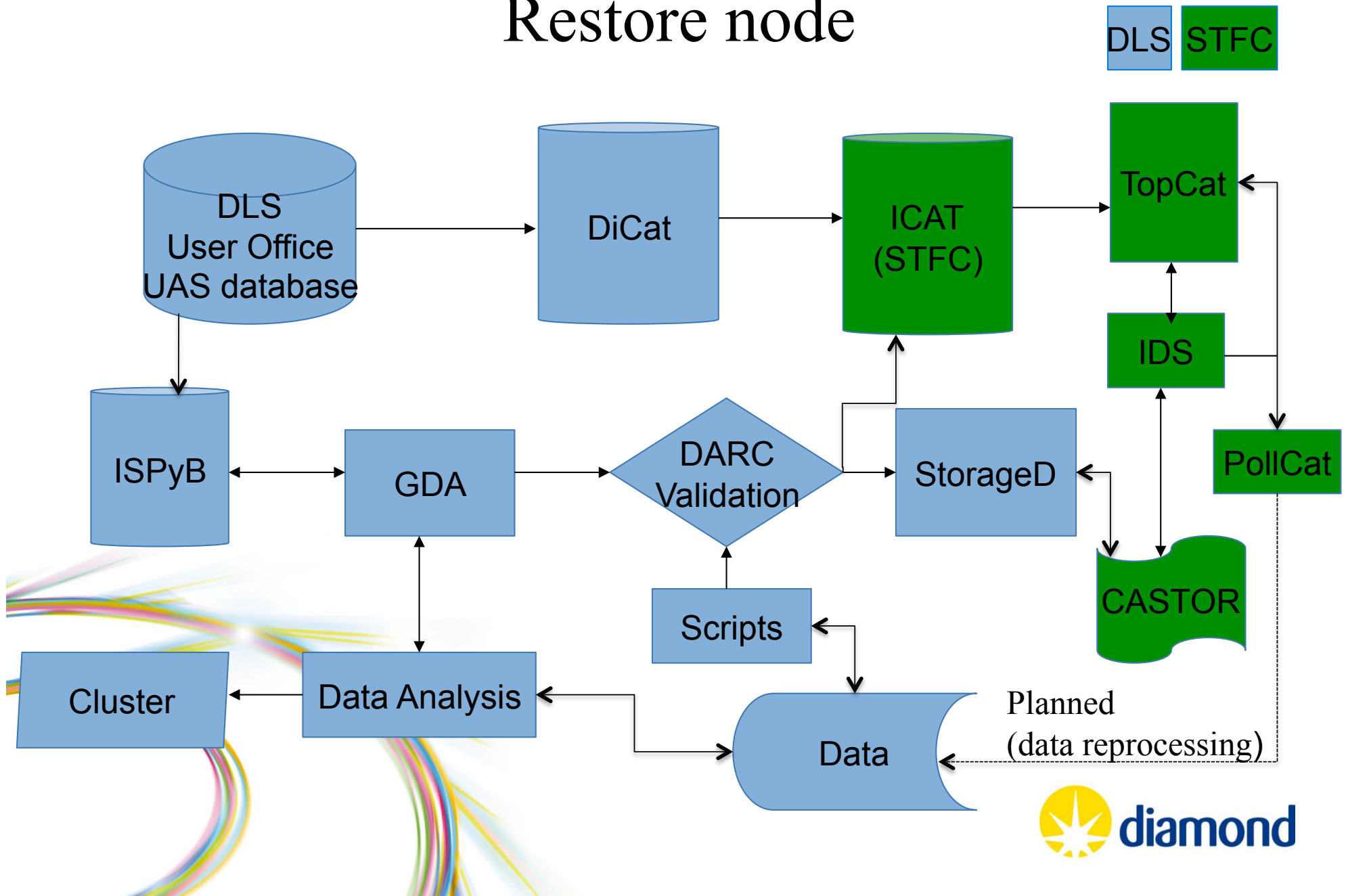
Future requirements

- Rich Metadata: information from ISPyB and Nexus.
Currently the information in ICAT is "minimal".

- TopCat use either the file location or dataset/datafile structure.

- Install Dashboard.

Backup slide

Tomography beamlines

Total data archived per instrument (Oct. 2016)

EM
1$_{st}$ year of operation

Backup slide

Total archived files per instrument (Oct. 2016)