DOIs for LSST-scale Queries

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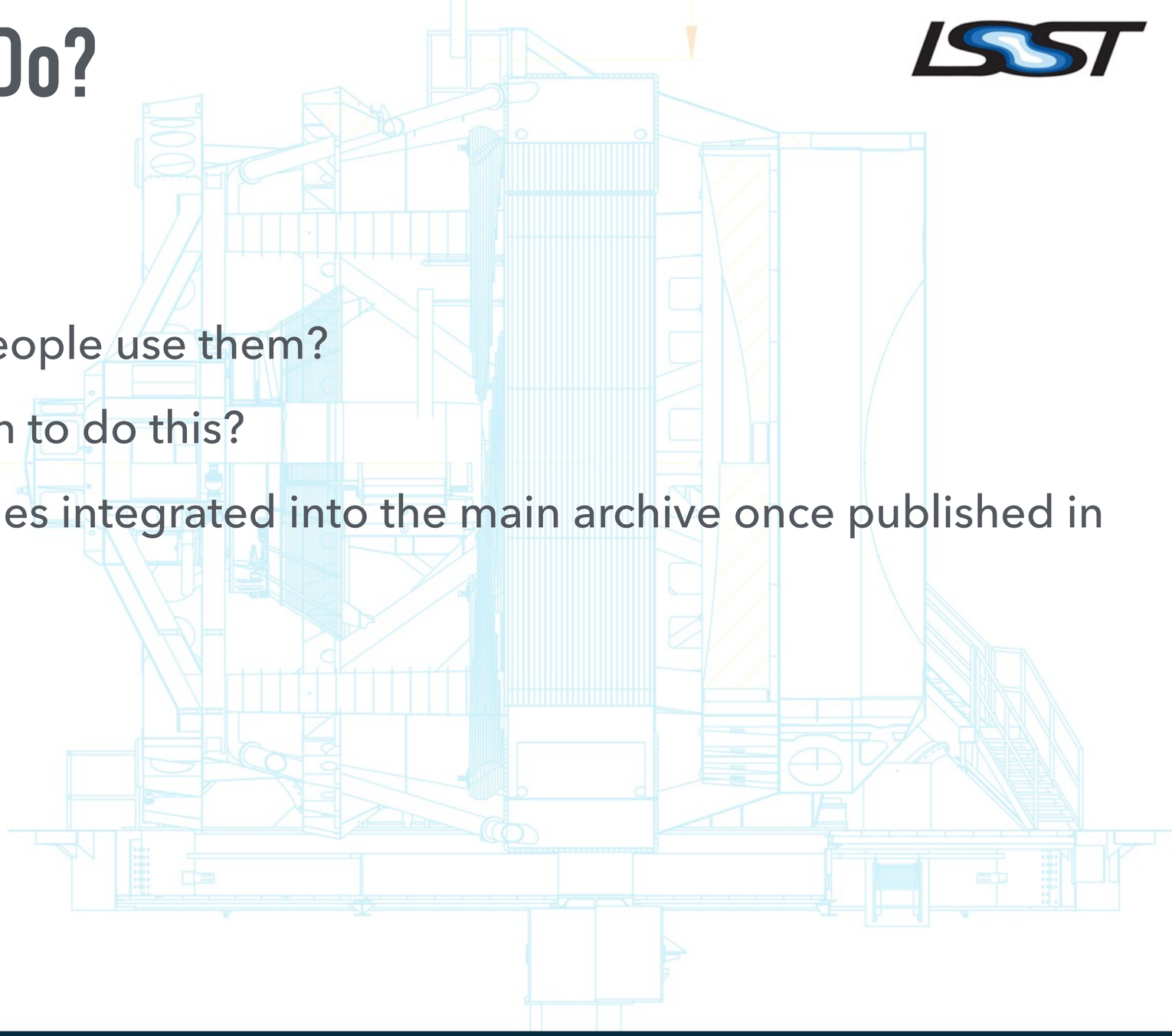
Reproducible Queries of LSST Catalogs

- Results from querying the LSST object tables could be multiple gigabytes.
- The query will be for a specific data release.
- Will astronomers want to put the query in their papers?
- Should AAS journals request it like they do for data from MAST?
- Should LSST allow for people to mint DOIs for specific queries?
- If the query is then filtered by client software should the results of that be retrievable as another DOI linked to the first?
  - Issued by whom? Zenodo? LSST?
  - All the results? The object IDs alone so that the results could be reconstructed?
  - What about added value columns?

What Do Other Archives Do?



- Is there a demand for this?
- If we support query DOIs will people use them?
- Do other archives do this or plan to do this?
- Are “added value” filtered queries integrated into the main archive once published in a journal?