# VAO AstroExplorer Update

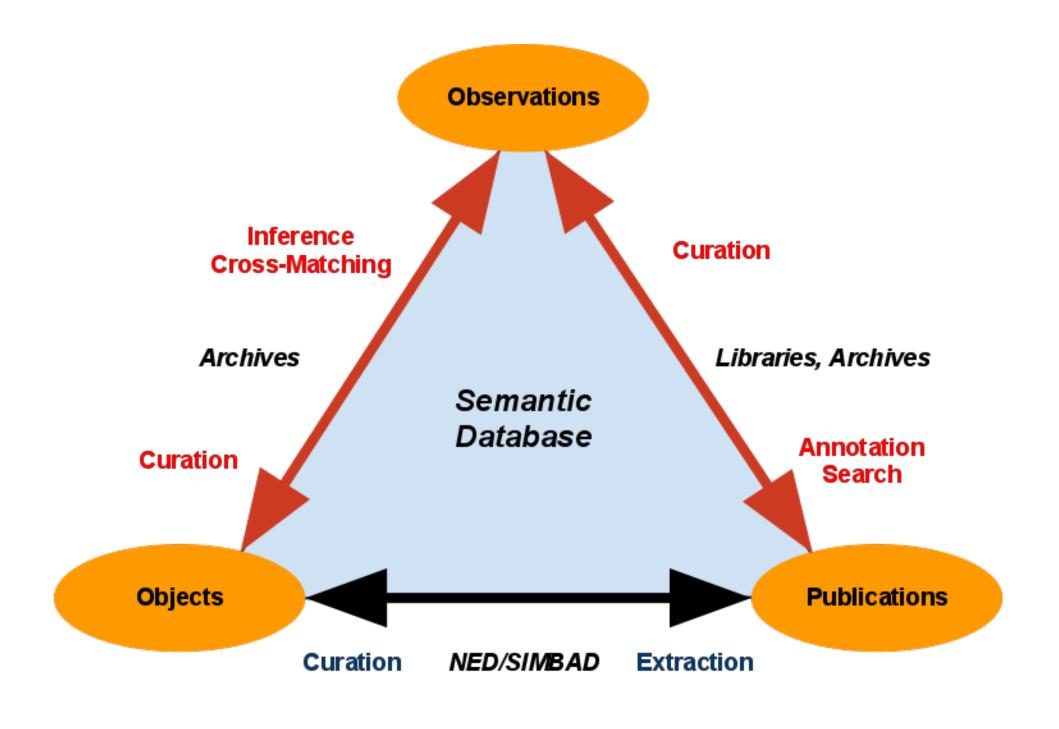
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## **Aim**

- Research Portfolio App to browse Resources, Concepts
  - Connect Publications, Objects, Datasets, Proposals
  - Focus on Pointed Observations from missions, archives
  - Incorporate bibliographic, object metadata
- Science Functions: Explore, Search, Filter, Save
  - Provide views of Publications, Datasets, Objects, Proposals
  - Complement Portal: do not replicate positional search
  - Promote data reuse, research repeatability
- Generate Metrics
  - App will additionally be useful for librarians, program managers, funders, etc, as linkages can be used to evaluate impact
- LESS IS MORE: Keep signal to noise high



# Leverages

## ADS Curation and Technology framework

- Bibliographic Ontology Development
- Expertise in indexing faceting technologies, developments of ADSLabs (http://adslabs.org)
- ADS personalization/login system

### Curation efforts at Astrophysics Data Centers

- Datasets from Chandra, MAST, soon other data centers
- Object metadata from SIMBAD, soon NED

### VAO Standards, Infrastructure

- Standards and protocols: ObsTAP
- Our own curation: nontrivial, painstaking and necessary (more in demo)
- Eventually: single sign on, portal, VOSpace

## Where we are

#### Infrastructure

- Base, Publication, and Observational Ontology
- Modeling of instruments, tracking of provenance
- Technology: Sesame/SOLR/node.js/bootstrap

#### Curation

- Workflow for metadata ingest from ADS, CXO, MAST,
   CDS. Next: NED, other data archives
- o Cross-linking of targets, objects, proposals, publications

## Application

- Prototype User Interface allows bibliographic search with filtering through data, objects, proposals
- Just added: view, search observational metadata
- Bookmarking of data products, saved searches

## **Demos / Links**

- AstroExplorer Stable
   <a href="http://adslabs.org/semantic">http://adslabs.org/semantic</a>
- AstroExplorer Alpha
   http://adslabs.org/semantic/alpha/explorer/publications
- Screencast
   http://www.youtube.com/watch?v=IgFU\_ehtBkU
- Support <u>rahuldave@gmail.com</u>

# **Summary**

- Paradigm: Harvest, Index, Link, Curate, Publish
  - We are very aware of signal to noise issues: GIGO
  - Application exposes underlying metadata issues
  - Content will improve over time, as more curation is done (but user expectations must be set)

#### Success:

- Scientist explores concepts, relationships, finds data
- Librarian, archivist generates metrics, improves curation

## Long-term goals:

- Complements positional search, covers all VO-enabled archives, exposes data properties in intuitive way
- Infrastructure for Portal, other VAO apps to use
- Personalization, integration with VAO discovery tools and ADSLabs