dart

dataset acquisition
accessibility & annotation
e-research technologies

# AA2 Secure Annotation Services

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# Overview

- What are we doing?
  - *"Improve rates of annotation by allowing end-user control over who can annotate what and who can access the annotations"*
- How are we doing it?
  - Modify Annotea (W3C) to allow Shibboleth (Internet2) integration
  - Build tools to define access constraints using XACML (OASIS) policies

# Objectives

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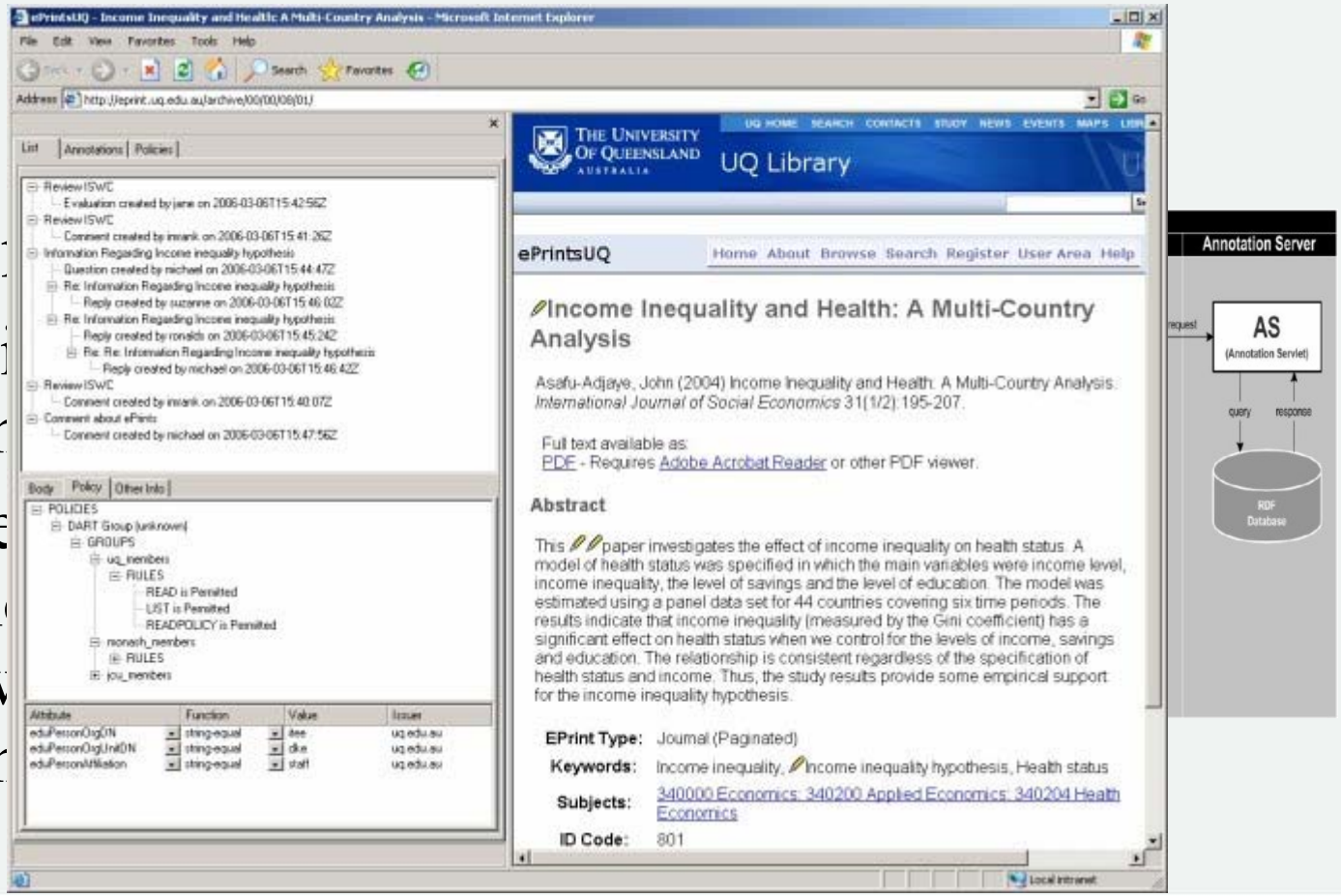

# Benefits

- Knowledge capture of the community, domain experts, etc.
- Provides necessary framework for a number of other work packages (AA1, AA3)
- Provides easy Web access to annotation repository over HTTP for searching, retrieval, uploading annotations
- Provides highly flexible RDF data model (ontologies, adding other namespaces, triples, domain independent, etc.)
- Annotations are **separate** from content
- Annotation can be either centralized or distributed (multiple servers)

# Synergies

- Inside DART:
  - AA2 has direct relationships with:
    - AA1 Annotation of Scientific data sets (3-D crystallographic data models)
    - AA3 Collaborative Annotation of data sets
- Outside DART:
  - Australian National Library (OAI-PMH)

# Current DART Application

- Provides the annotation framework for both front-end and back-end of AA1 – AA3

# Future DART Application (in about 1month)

- Same as now

# Future DART Application (in about 3months)

- Integration of an OAI-PMH interface to annotation server
  - Open Archive Initiative Protocol for Metadata Harvesting
  - Provides a way for content providers such as the Australian National Library to retrieve metadata
- Usability Testing

# Future DART/ARCHER Applications

- Integration of an OAI-PMH interface to annotation server
  - Open Archive Initiative Protocol for Metadata Harvesting
  - Provides a way for content providers such as the Australian National Library to retrieve metadata

# Issues

- Secure aspect dependent on Shibboleth Federation
- Much of the client side is Internet Explorer or Windows platform specific
- Consideration of OAI-PMH data mapping with Annotea
- Scalability of current Annotea server implementation (Jena API and MySQL)
- How to encourage active adoption of technology?
- Encouraging users to adopt technology
  - Promotion?
  - User interface? (thorough usability testing)
  - Push benefits