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

- What are the final outcomes?
  - ‘Shibbolized’ Annotea server
  - Client-side tools for annotation creation, viewing and management
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 1 month)

• Same as now
Future DART Application (in about 3 months)

- 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