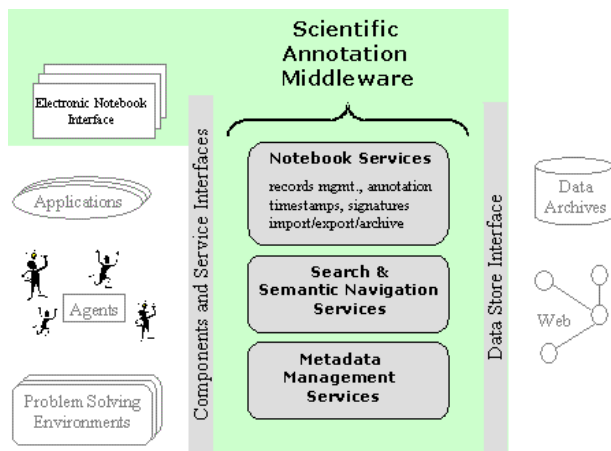




Scientific Annotation Middleware

National Collaboratories Program



Novel Ideas

- A lightweight, flexible middleware to support the creation and use of metadata and annotations
 - Layered architecture
 - Use of standard protocols
- Sharing of annotations among portals and problem solving environments, software agents, scientific applications, and electronic notebooks
 - Support for arbitrary schema
 - Configurable schema translation and metadata extraction
- Improved completeness, accuracy, and availability of the scientific record
 - Integrating annotation and records functionality with primary data stores

Impact and Connections

- **IMPACT:**
 - Single unified metadata infrastructure
 - A service for next-generation scientific computing environments with significant reduction of integration barriers
 - An advanced notebook view of annotation data
- **CONNECTIONS:** The project will work closely with interested Collaboratory Pilot projects including the Collaboratory for Multiscale Chemical Science, and will investigate integration/connection opportunities with other infrastructure efforts including those developed through the Scientific Data Management Center and Portal Middleware projects. External partnerships are also being investigated.

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Proposed Timetable

	Specification	Alpha Release	1.0 Release	1.5 Release
Metadata Services	9/01	3/02	9/02	9/03
Semantic Services	12/01	7/02	12/02	7/04
Notebook Services	3/02	12/02	7/03	7/05
Interface Components	3/02	12/02	7/03	7/05
Pedigree Schema	9/02		7/03	
Notebook Interface	3/02*	12/03	7/04	

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