What is AMGA? (ARDA Metadata Grid Application)

- **AMGA is a metadata service for the Grid**
  - It represents a database access service for Grid applications which allows user, and user jobs to discover data describing their files in order to access them in the appropriate way.
- **AMGA is a service based on RDBMS**
  - It allows to define metadata schemas according to users and applications needs
  - It provides a replication layer which makes databases locally available to user jobs and replicate the changes between the different participating databases.
- **AMGA has been designed to provide a best integration with the Grid environment**
  - It allows to define metadata schemas according to users and applications needs
  - Grid security compliant
  - Hide DB heterogeneity

What is AMGA Manager?

- Easy-to-use, general-purpose GUI toolkit(client)
- Interactive exploration and searching environment for metadata in a user-friendly manner.
- Manipulation : metadata schema, entries, access control, G/U info, site info, collection properties etc.

Design

AMGA Security

![Authentication and mapping of global users to local users in AMGA](image1)

AMGA Client

Grid services

![Connection to Grid with AMGA Manager using g-Eclipse](image2)

Implementation

Advance preparations

Access

AMGA Manager

![AMGA Manager: Schema Browser](image3)

![AMGA Manager: SQL Editor](image4)