Problem: Metadata Diversity

Constituents want Libraries to provide long-term stewardship of assets, and simultaneously demand support for community-specific metadata

e.g. VRA Core, to describe works of visual culture and the images that document them, http://www.vraweb.org/vracore3.htm

- how are new schemas introduced?
- how are collection-specific requirements on MD managed?
- based on \{asset, available MD, policy, ...\} what services should be made available (e.g. disseminate, search)?
- when must various actions be undertaken to support those services (e.g. index maintenance)
Problem: Metadata Relationships, Interoperability

Relationships among schema exist.

Conclusions about instance MD might be reached by considering them.

  e.g. VRA Core maps to/from MARC.
      so does Dublin Core.

But: existence of MARC does not necessarily imply that VRA Core exists

If VRA Core instance exists, should it be made available in MARC? Who decides? How can the etymology of the resulting MARC elements be determined?
Problem: Schema Versioning

Relationships among schema exist.

Some schema supercede similar, prior versions.

Example: Controlled Vocabularies

The permissible values for a particular entity in the vocabulary change over time.

Which version of the schema must services respect?
How can a service respect multiple schema versions?
How should existing services work when schema is revised?
Problem: Dissemination

Example:

- How to decide what “views” of an object are available?
- How are views on objects bound to services that provide them?
- How do applications discover the views that are available?
Problem: Distributed Resources

Who hosts assets and/or metadata?
Who decides which stores are to be used?
How can services be provided and optimized when resources are distributed?

Example:
Video Assets at MIT
big assets held in department
small MD held & maintained in Library
useful services offered by both

Example:
Personal Metadata
Problem Landscape

observation: customers require solutions that span multiple organizational contexts and classes of resources.

- class of resource
  - organizational context
    - institution/enterprise
    - community/department
    - individual
  - rich media assets
  - schemas, ontologies
  - instance metadata, annotations
Observation: customers require solutions that span multiple organizational contexts and classes of resources.