

# Technical Committee Preliminary Recommendations

# Conceptualized in two levels

- Level 1
  - quickly achievable
    - High level “packaging” metadata (not looking inside resources)
    - Development/adoption of publish and discovery specifications and tools for federated search
    - Development/adoption of best practices to include in workflows

# Selected implementations/pilots

- Small scale “test bed” pilot projects focused on “high value” data sets
  - Increase visibility and demonstrate value
  - Rapid development environment
- Small scale pilots to investigate automated semantic and ontology development tools/strategies
  - Tools for “drill down” to individual items elements (to be fully developed in Level 2)

# Publish and discovery

- Development of metadata specifications
  - what, where, when, permissions/control, who
    - Who – e.g. who developed metadata, developed initial data, etc.
  - With link to actual data
- Adoption of existing metadata discovery and aggregation tool kit (s)
- Essential !! adoption of unique and persistent HTTP addresses for resources (URIs)
- Workshops and evangelization
- Institutional adoption of specs and best practices

# Reference implementation

- Development of initial “reference implementation” repository
  - tDAR?
  - Serve as exemplar or instantiation of specifications
  - as well as a repository for those who do not wish to support their own
  - Supports preservation as well as publish and discovery aspects of project

## Level 2

- Addresses complex semantic and ontological issues
- Develop/adopts semantic web tools to assist in semantic mapping and ontology development
  - e.g. RDF (Resource Description Framework)
  - Support workshops or initiatives in semantic harmonization
- Creation of web service architecture for analysis and integration of multiple data sets
  - e.g. RESTful services (lower barriers to entry)

## Level 2: Initial Steps

- Textual data (unstructured, semi-structured, structured)
- Some degree of semantic integration (query across different datasets/resources)
- Pilot Examples:
  - Text-mining (geospatial)
  - tDAR ontology mapping tools
  - Open Context schema mapping