Earth Science-Ontolog Mini-Series Session 2: "Understanding Semantic Insertion within the Earth Science Application Lifecycle"

Mini-Series & Session Co-Chairs: Drs. Gary Berg-Cross and Naicong Li
Thursday, Sept. 6th, 2012





Session Overview and Agenda

- 1. Opening Remarks for Session 2: Dr. Gary Berg-Cross
- Dr. Richard Hooper (CUASHI) "Implementing a communitygoverned ontology: Experiences from the Water Sciences Community "
- 3. Professor Peter Fox (RPI/TWC) "Life cycle semantics in Earth and space sciences what's worked (and not) and where are we... a decade in..."
- 4. Mattia Santoro (CNR, Italy) "A Semantic Broker for enhancing resources discovery" working with S. Nativi, M. Santoro, C. Fugazza, M. Craglia)
- 5. Dr. Naicong Li (U of Redlands) Dr. Philip Murphy (U of Redlands), Professor Krzysztof Janowicz (UC Santa Barbara) "An ontology-driven framework and web portal for spatial decision support"
- 6. Open Discussion
- 7. Closing Remarks Gary Berg-Cross



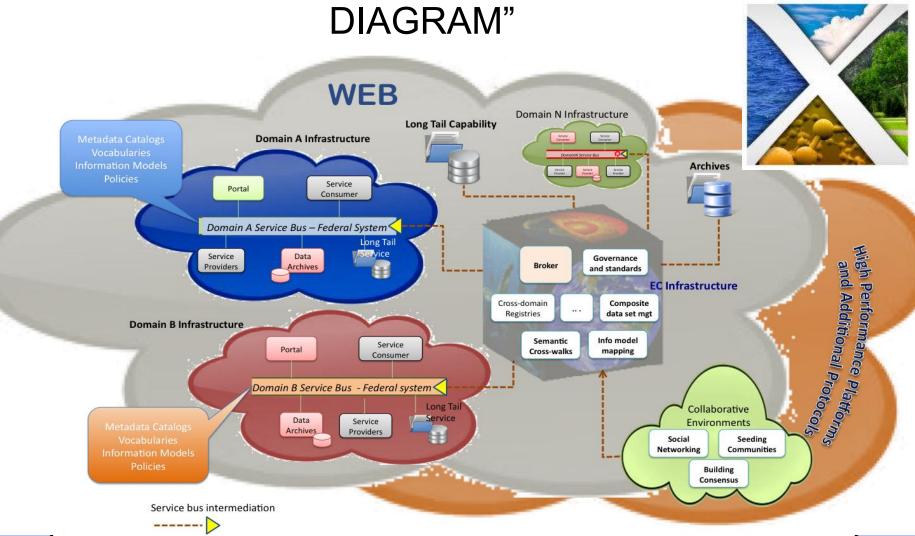


Goals of the Session within Overall Mini-Series Goals -1

- The **overall goal** is to bring together members of both communities (Earth Science and ontology/semantics) into a **meaningful dialog**.
- One goal of this session is to further a dialog on current status of **needs** and work of earth science **systems** with an eye to the application of semantic technology that can help.
- We want to build on Session 1 by getting a better idea
 of requirements, such as improved vocabularies
 structured by use cases that highlight earth science
 challenges and issues.
 - What should ontologists understand about these issues?



Goal of Understanding the "CONSENSUS







Goal of Understanding Earth Cube Domain Visions

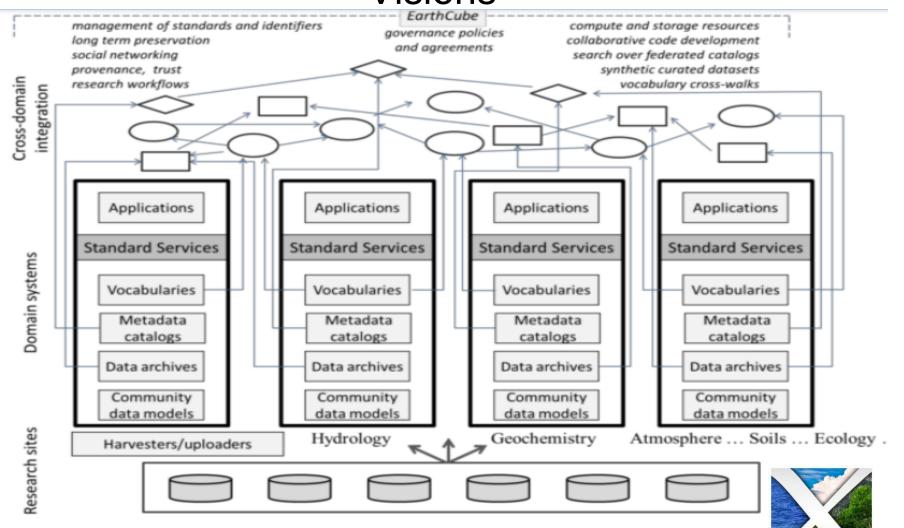


Figure 1. Initial model of an EarthCube logical organization.





Session Goals - 2

- Given an understanding of needs/issues etc. we want to continue to highlight –
 - Ontological engineering architectures and approaches, and prospective tools
 - These will enable collaborative understanding of the challenges and potential value in the application of ontology and semantics in Earth Science
 - Tech Infusion into Shared Infrastructure
 - This help might include various tools to use within cyberinfrastructure for the Earth Science Community.
- Description, Goals, Objectives: http://ontolog.cim3.net/cgibin/wiki.pl?EarthScienceOntolog#nid3CWC





Upcoming Sessions

- Session-3: Thu 2012_10_11 co-chairs:
 Krzysztof Janowicz & Pascal Hitzler:
 Methodologies: including, what *is* semantics, image approaches, etc.
- Session-4: Thu 2012_11_08 co-chairs: Dalia Varanka & Mark Schildhauer: Review of the field of ontologies for earth science (and existing ontologies)
- Session-5: Thu 2012_12_06 co-chairs: Nancy Wiegand & Mike Dean: Tutorials



