Joint Center for

Utilizing GOS Map and Data Services for Cross-agency Earth Science and Geospatial Cyberinfrastructure Communities

-- A 2009 NSDI CAP Cat.2 Project

Chaowei Phil Yang, Director, Center for Intelligent Spatial Computing

Rob Raskin, NASA JPL and AAG CISG

Carol Meyer, Federation of Earth Science Information Partnership

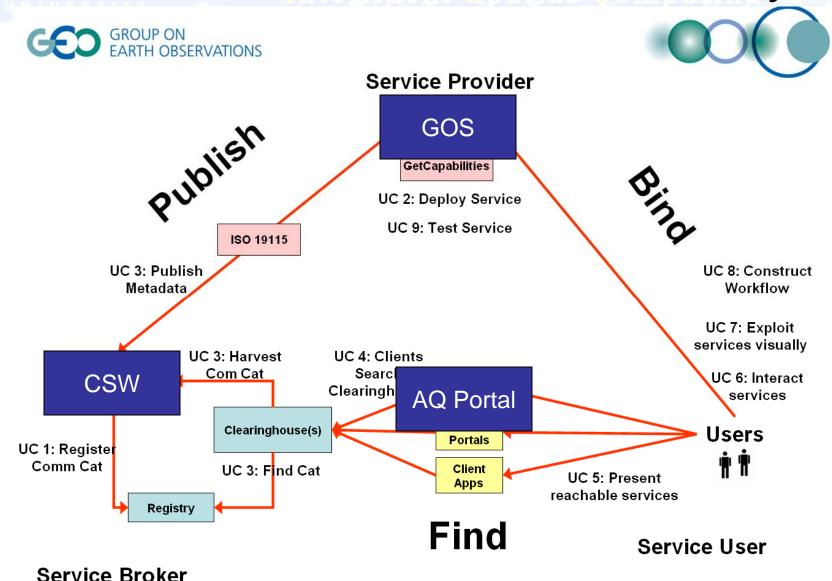
Objective

- Earth science communities needs relevant information and services from GOS
- Geographers need a cyberinfrastructure to support geospatial research, how to leverage GOS into that infrastructure
- Open-source portlets and standalone client to utilize (GOS) maps and data services to support Earth and geography science communities
- Advance through the partnership of GMU CISC, ESIP Federation, and AAG CISG.

Project Steps

- 1) Organize the partners' experience on portlet/client development and access to GOS assets,
- Develop testing modules based on the expertise and requirements,
- Integrate the modules into the ESIP Testbed at ESIP HQ and CISC,
- 4) Test the portlet/client through the partnership,
- 5) Improve the portlets according to test feedbacks,
- 6) Repeat steps 4 & 5 as needed,
- 7) Open the portlet as open sources,
- 8) Wrap the portlets with desktop client and integrate with commercial software, such as ArcGIS,
- 9) Use the portlet/client for users at ESIP and AAG CISG and students within classes at GMU.

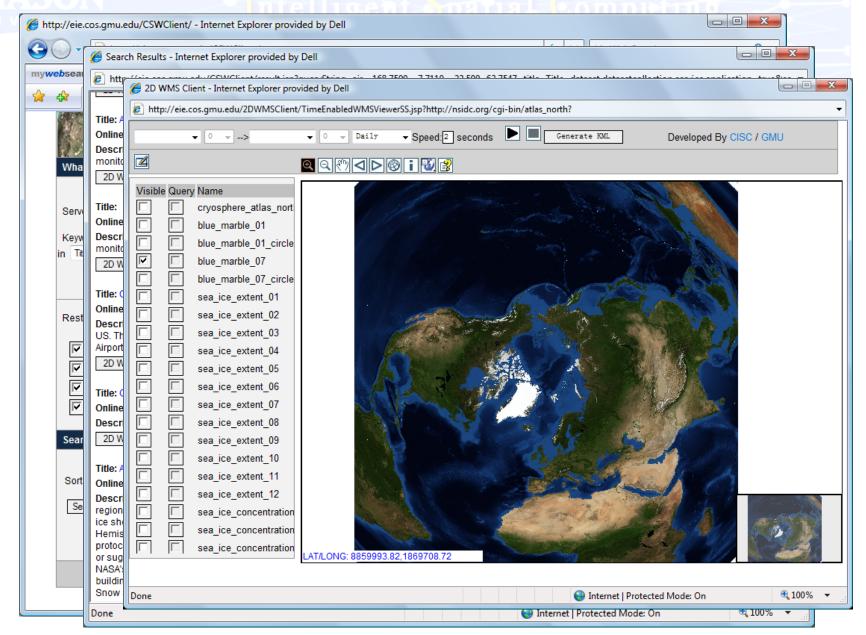
ESIP Testbeds: 1. Air Quality



(Falke S. & ESIP AQ working group 2009)

GEORGE

CSW Service & Client



ESIP Testbeds: 2. Products & Services

- 1. Permanent Unique Object Identifiers
- 2. Semantic Web Services
- 3. Customized Inventories for GEOSS Societal Benefit Areas
- 4. Metadata Harvesting
- 5. Data and Service Quality
- 6. Metadata for Customized Product-Services
- 7. Provenance
- 8. Deficiencies in ISO Standards

AAG CISG Committees

- 1. High Performance Computing (Qingfeng Guan, USGS GISC)
- 2. Application & Visualization (Ben Tuttle /Univ. CO-Boulder and Michael Page/Emory University)
- 3. Knowledge & Metadata (Rob Raskin, NASA JPL)
- 4. SOA & SOC & Middleware (Xuan Shi, GIT)
- 5. Free and Open Source Geospatial Software (Jil Jang, Cleveland State University)
- 6. Research (Shaowen Wang, UIUC)
- 7. Outreach (Jil Jiang, Ohio State Univ.)



Joint Center for



Thank You

Q&A