



Architecture and Data Committee (ADC) Report to Plenary

Ivan DeLoatch, U.S. Geological Survey

Co-chair of the ADC

GEO VI-Plenary

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Presentation Overview

- ADC responsibilities
- Sustaining operations
- GEOSS Common Infrastructure Support
- Architecture Implementation Pilot 2 and 3
- Issues and recommendations





ADC 2009

The ADC oversees the Tasks that are dedicated to building a transverse GEOSS.

ADC members are responsible for addressing issues involving infrastructure, coordinated observation systems and cross-cutting data sets.

This Committee has a particularly important role in guiding the Tasks relating to the GEOSS interoperability, Common Infrastructure and to Data Sharing Principles.

Source: GEO workplan 2009-11



J. Pearlman (IEEE)



I. Petiteville (CEOS)



I. Deloatch (US)



A. Annoni (EC)



R. Shibasaki (Japan)



J. Zhang (China)

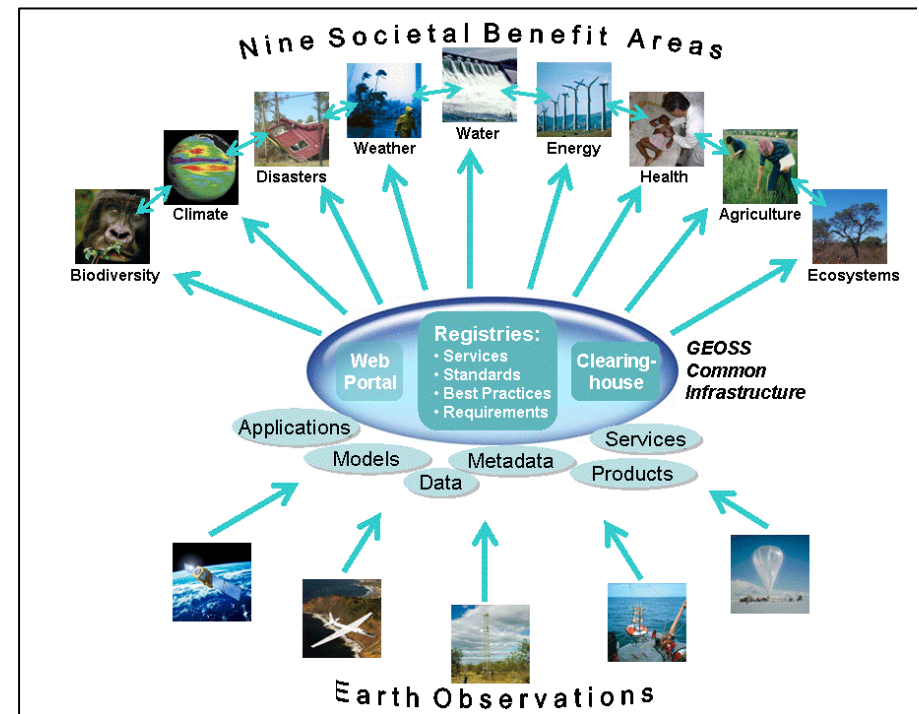


B. Ryan (WMO)



Sustaining Operations

- Enhancing operations during evaluation period
 - Task AR-09-01a supports the **GEOSS Common Infrastructure (GCI)**
- During **evaluation phase** have:
 - Improved the performance of the registries, portals, and clearinghouse
 - Increased the number of GEOSS registered resources substantially





Standards Registry- SIF Accomplishments

- Completion of a taxonomy for Earth observation standards used in GEOSS
- A formal review process for accepting standards and interoperability arrangements into the SIR
- Enablement of interoperability between the SIR and the Components and Services Registry (CSR)
- Discussion and resolution of various technical issues related to the SIR and interoperability including responsibility for developing consensus recommendations on interoperability standards



User Requirements Registry

- UIC Task (US-09-01) are taking steps to develop a registry to store EO requirements for identified classes of users in support of applications (SBAs)
- Development initiated with assistance from the UIC on the database design to simplify the collection and presentation of entries
- UIC is engaged with experts for all SBAs to define observational requirements that can be ultimately matched with registered resources, or gaps in EO can be identified



Best Practices Wiki

- Little progress on getting practices documented and contributed
- Encourage links to external practices that can be accessed through the Wiki
- Proposal to highlight agreed-to practices discussed and vetted in the Wiki as a list or Registry
- Seeking contribution of additional practices from all communities within GEO





GEO Task AR-09-01b, Architecture Implementation Pilot AIP-2 Achievements

- Community of Practice Scenarios deployed through collaboration with SBA Tasks
- Reusable Process for applying scenarios on Service oriented Architecture – GEOSS SoA
- Contribution/registration of persistent services using GEOSS Interoperability Arrangements

AIP-2 Call for Participation	June 2008
Demonstrations to GEO Committees	May 2009
Reports Completed	September 2009



GCI and Community Components applied to CoP Scenarios in AIP-2

GEOSS
Common
Infrastructure

Community of Practice Scenarios

- Disaster Management
- Air Quality & Health
- Renewable Energy
- Biodiversity and Climate Change

Community
Portals/Clients

Community
Catalogues

Processing
and Alerts

Access Services

GEOSS Service Oriented Architecture



AIP-3 Plans to Build on AIP-2

- Build on GCI and Community Services
 - Promote mash-ups in a "link-rich" environment
 - OGC continue as Task Lead
- Engage additional Communities of Practice (CoP)
- Focus on Data; Promote Content
- Results in time to support EO Summit

AIP-3 Call for Participation	January 2010
Kickoff Workshop	March 2010
Demonstrations for EO Summit	August 2010
All Deliverables Completed	September 2010

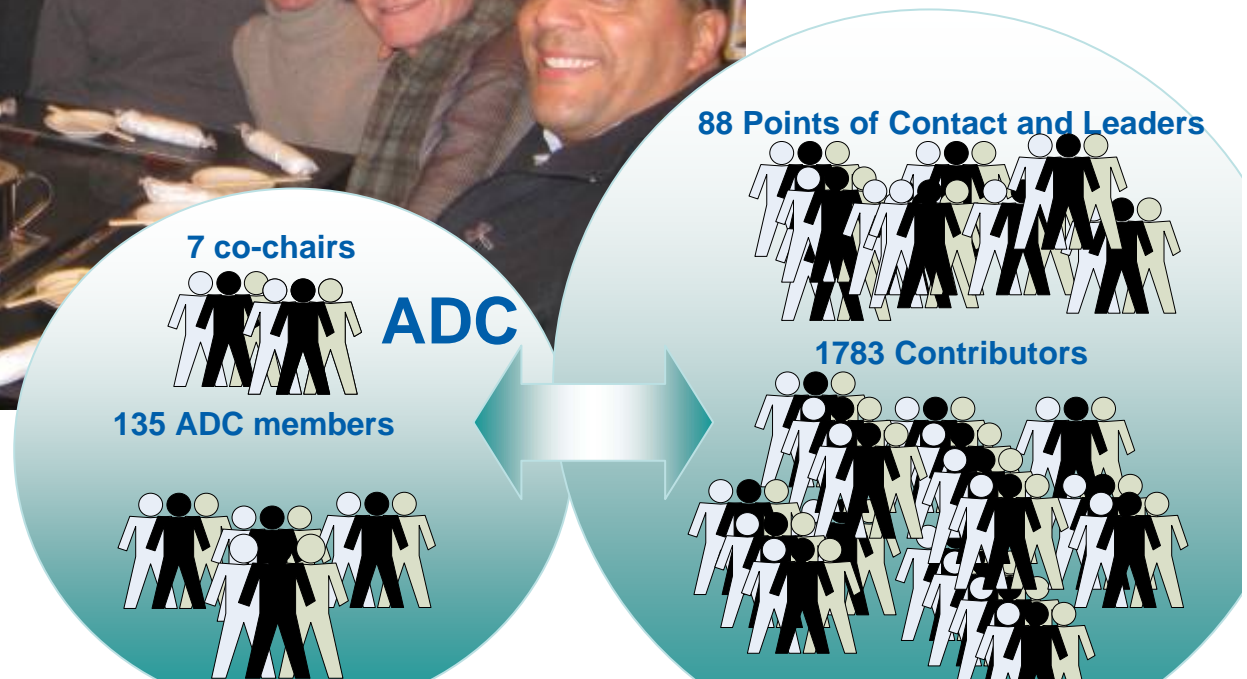


ADC Issues and Recommendations

- **Register your systems, services, data and standards with the GEOSS registries**
- **Continue to respond to Users' direction through the UIC**
- **Address technical considerations of the GEOSS Data Sharing Guidelines as required**
- **Process to build consensus on and recommend use of additional GEO-registered standards and arrangements to promote interoperability**
- **Must address and monitor sustainable operations for the GCI to realize the vision for GEOSS**
- **Need to increase activities associated with data management, i.e., global data sets**



Contributors to ADC tasks





**Thank You
for Your
Attention!**