

Notes On the User Side of GEOSS

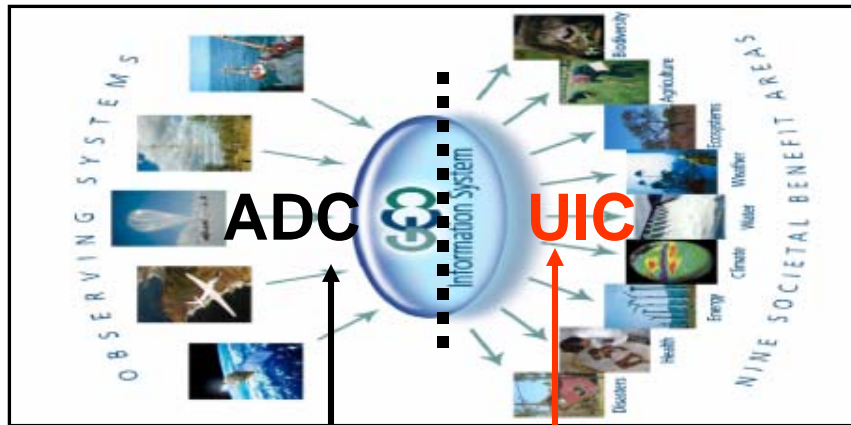
Rudolf B. Husar and Erin M. Robinson
Washington University, St. Louis

For
GEOSS User Interface Committee
Boulder, CO, USA, September 2008

Users: On the Right Side of the GEOSS Architecture

Adopted and expanded from G. Foley, EPA

“Any Dataset Can Serve Many Communities” “Any Problem Requires Many Datasets”

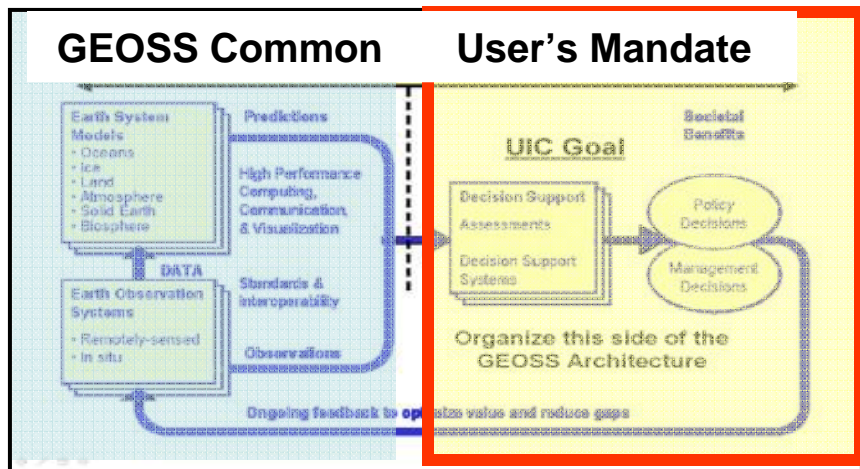


ADC: Fan-In

UIC: Fan-Out

Homogenize, Catalog, Distribute Resources

Based on User Needs Access, Process,



Elegant solution to the many-to-many problem:

Fan-In to homogenize the observations for reuse

Fan-Out to create custom solutions to SBAs

Eliminates messy peer-to-peer networking

GEOSS is to be market driven??

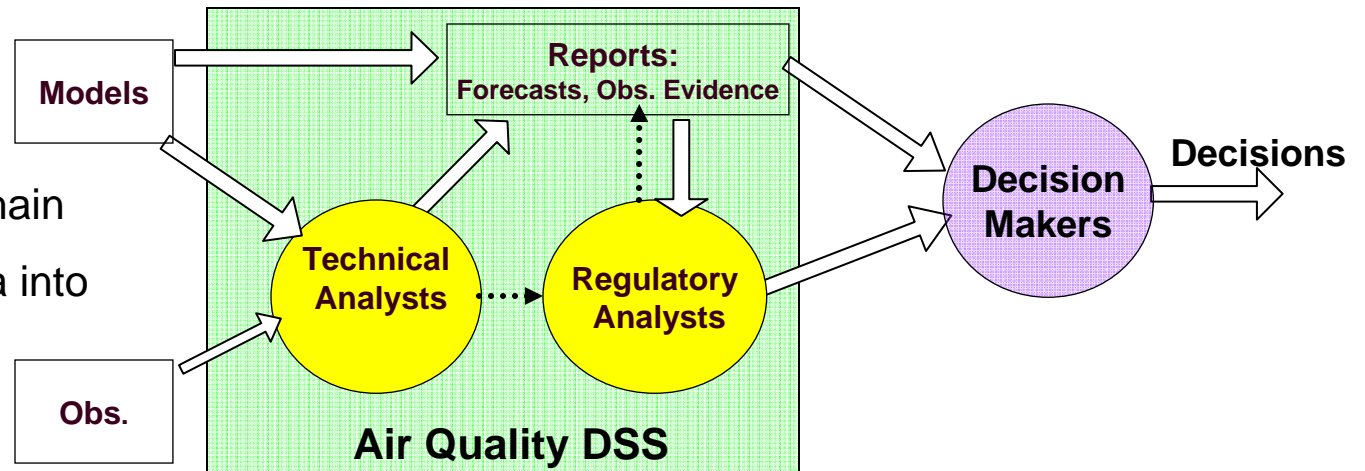
Providers can offer their resources

but

Control of what resources are actually used is with the **user**

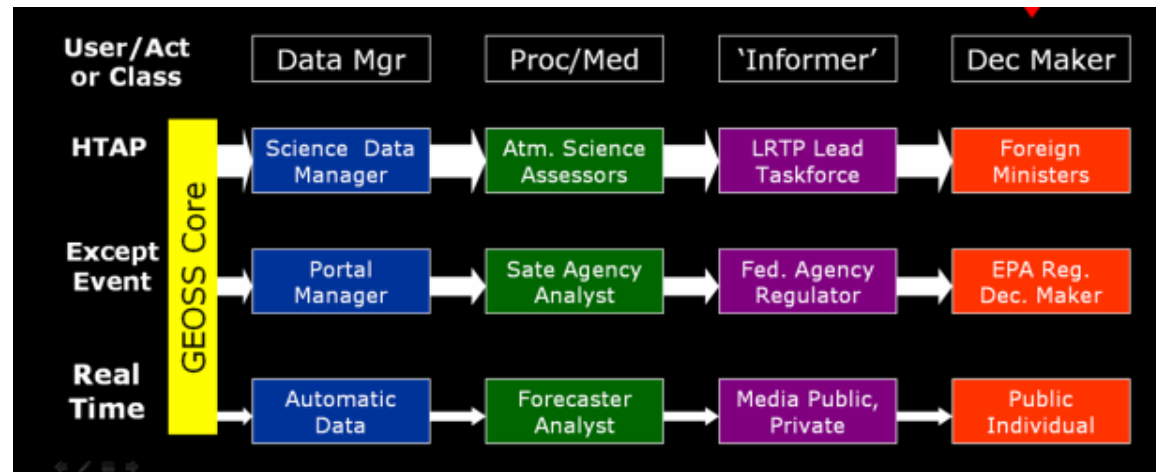
AQ Decision Support is an Intensely Human Process

- AQ DSS is a Value Chain
- Humans Process Data into Actionable Knowledge

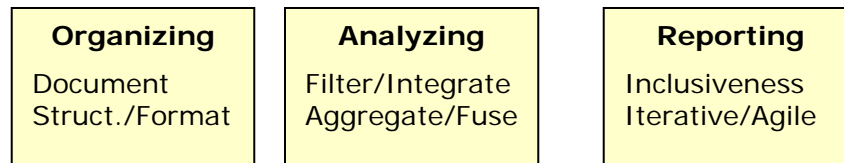


- Typical Members are:

- Data Managers
- Data Processors
- Informers of Dec. Makers

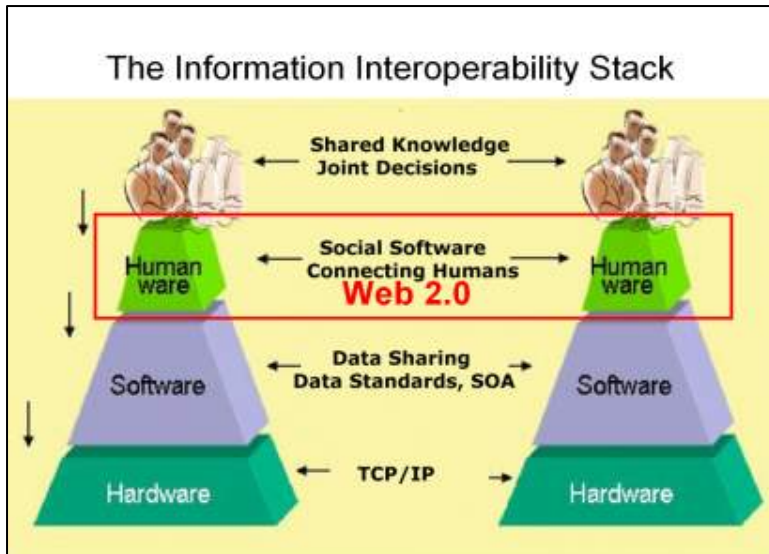


- Each Member has Different Tasks, and adds Different Values.



Adding Humans to the System of Systems

Based and adopted from Air Force..



- **Users** – people in the field who benefit from system
- **Developers** – people who construct the system
- **Acquirers** – people who contract for and pay for system
- **Testers** – people who evaluate system for suitability
- **Trainers** – people who ensure users know how to use it
- **Sustainers** – people who keep system up to date
- **Researchers** – people who provide next generation ideas

- Interoperability at the hardware and software level is under way (GEOSS Common Infrastructure.)
- For System of Systems (SoS) to interoperate, need to add humans to the interoperability stack
- Support of human interaction is weak, poorly understood, but Communities of Practice could help.
- The Users of SoS are just one of the key stakeholders
- Also need Developers, Acquirers, Testers, Trainers, Sustainers, Researchers
- An AQ Community of Practice should include the full array of stakeholders