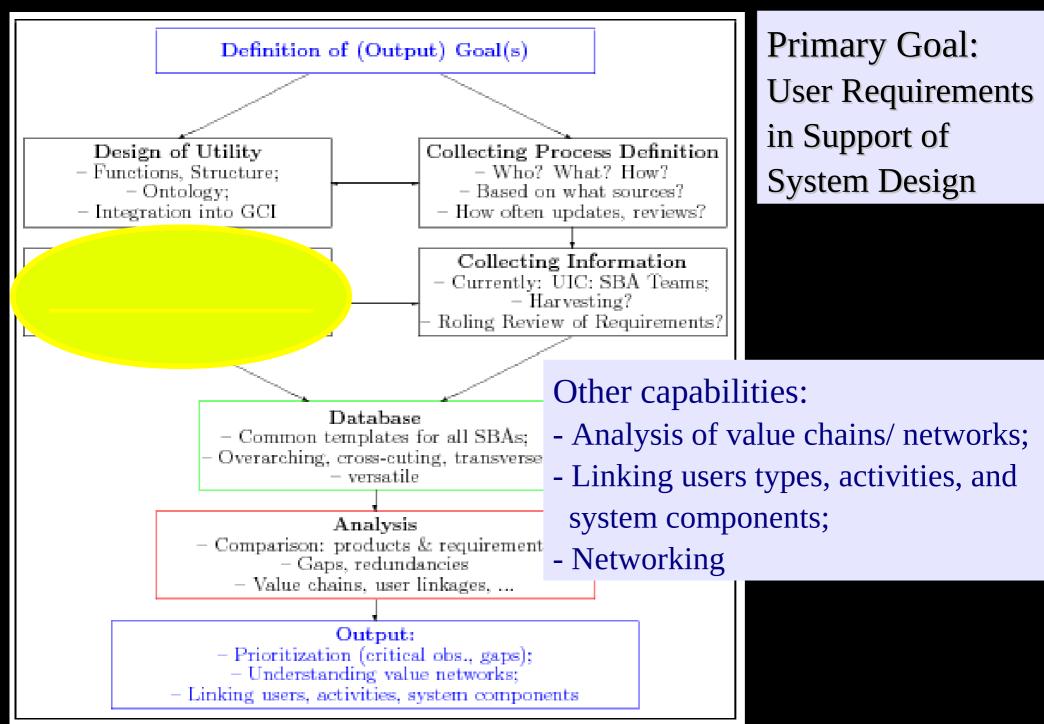
GEOSS User Requirements Registry (URR) or User Needs and System Performance Utility (UNSPU) or ...

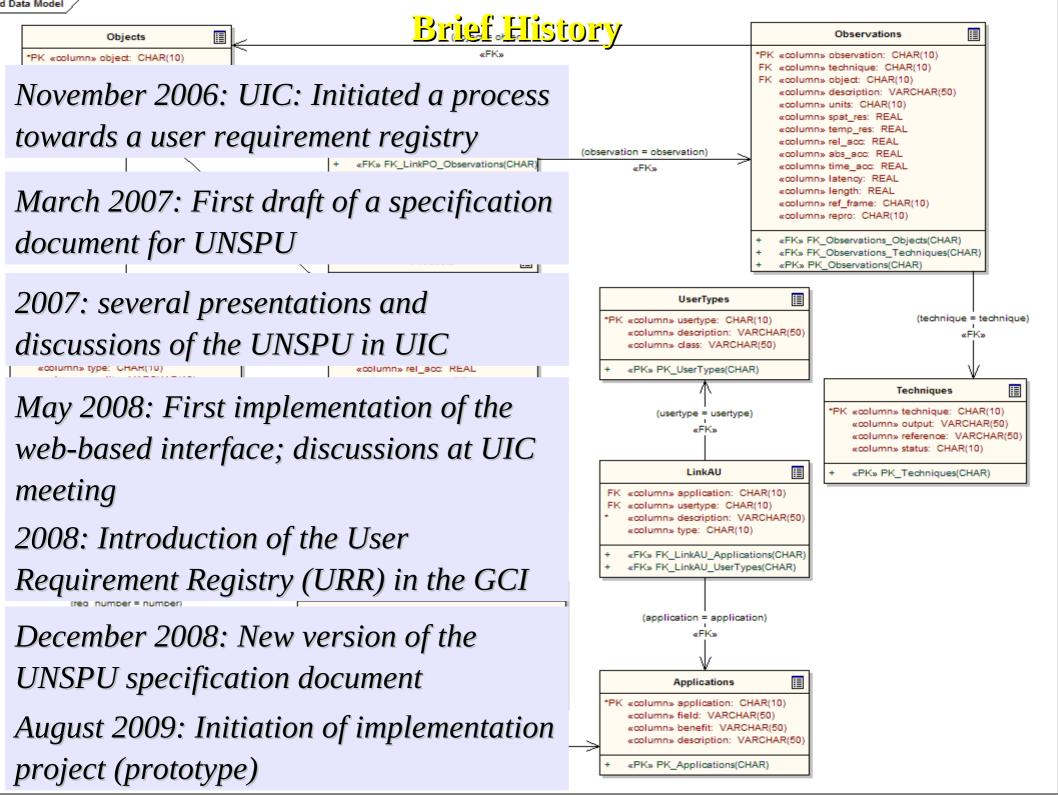
Steps Towards Implementation

Hans-Peter Plag (1), Jan Connery (2) (1) Reno, NV, USA (2) ERG, Lexington, MA, USA

- Towards a User-Driven GEOSS: The Process
- Brief History
- Design Considerations
- Project Description
- Prototype Implementation
- Issues concerning the UIC

Towards a User-Driven GEOSS: The Process





Design Considerations

Publishing/registering:

All GEO members:

- user types;
- activities.

authorized administrators:

- Properties;
- Requirements;
- Specifications;
- (- Techniques;
- Observations;
- Products;)
- Links.

Functional Specifications

- registered users;
- authorization matrix.

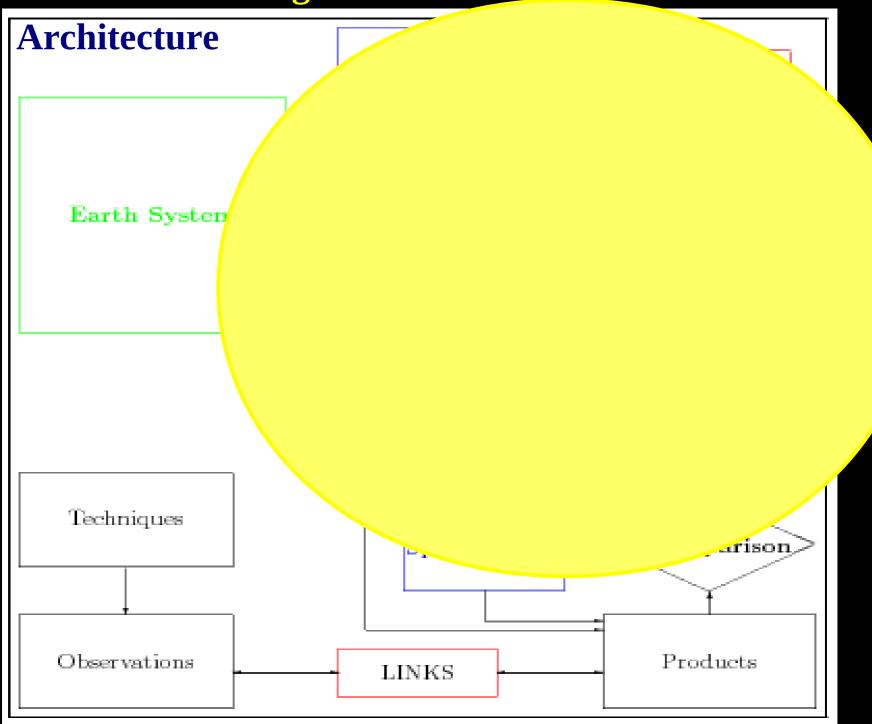
Reporting and analysing:

- value chains and networks;
- deviations of system performance from specifications;
- requirements not met by products;
- activities not receiving the required products;
- user types not able to utilize the full benefit of Earth observations;
- value chains and networks

Others:

- networking of users, activities, etc.

Design Considerations



Design Considerations

Additional Comments

- One link table provides very high flexibility (e.g., networks of value chains, chains based on different threads) attributes.
- Users of the URR/UNSPU will have to register.
- By offering to users of the URR/UNSPU to characterize themselves, we create a tool to network experts, resources, programs, ...
- more capabilities likely to emerge as we go ...

Project Description

Project title:

Deployment and test of a prototype of the

GEOSS User Requirements Registry

Contractor:

ERG (Jan Connery) working for EPA (Gary Foley)

Other Participants:

Hans-Peter Plag (consultant)

Rudi Husar (consultant)

Doug Nebert (advisor)

SBA Analysts (will be invited as advisers)

Open to others as advisers (e.g., AIP)

Prototype Implementation

Work Plan

- 0 Implementation of the database prototype (ERG)
- 1 Definition of the Set of Work Flow Scenarios (done)
- 2 Development of Generic Work Flow Scenarios (in progress)
- 3 Initial Ontology (started)
- 4 SBA-Specific Work Flow Scenarios and Test Cases
- 5 Iteration and final documentation

Date	Task	Id	Description	Туре
1	1	WF-Pro-Vl	Work Flow Scenarios proposal available	Dmft
3	2	WF-Def-V2	Work-Flow Scenarios Version Lavailable	Report
7	0	URR-PTV0	URR prototype PV0 available	Registry
9	3	URR-ON	URR Ontology available	Registry
12	4	TC-Test-1	Test of URR completed and presented at UIC meeting	Test Report
15	5	TC-IT	Iteration of URR with users completed	Report
18	5	URR-PV1	Result of URR iteration available and Prototype PV1.0 of URR released	Final Report

Date: weeks from project start (August 26, 2009):

Prototype Implementation

Task 1: Definition of the Set of Work Flow Scenarios Publishing:

- Properties (i.e., the main part of the ontology)
- new User Types
- new Activities
- new Requirements
- new Specifications
- links

Look up:

- User Types
- Activities
- Properties
- Requirements

Reporting/analysing:

- User Types, Activities and value chains linked to a Requirement
- Activities and Requirements of a User Type
- Activities and User Types down a value chain/network that benefit from an Activity/Requirement/Specification.

Prototype Implementation

Three Test Cases:

- Air Quality and Health: Results of the SBA analysis (sub-SBA Health)
- Geohazards: 2008 Review of Requirements (sub-SBA Disaster)
- GGOS 2020: Cross-cutting (at least seven SBAs)

Issues Concerning the UIC

- General Comments?
- Additional advisers?
- Other test cases?

Potentially:

Testing at GEO Plenary (by invitation only)