GEOSS User Requirement Registry (URR)

- Overview of GEOSS URR
- Status of Implementation
- Lexicon
- Contents and Structure
- Your Potential Input
- Schedule

Contacts:

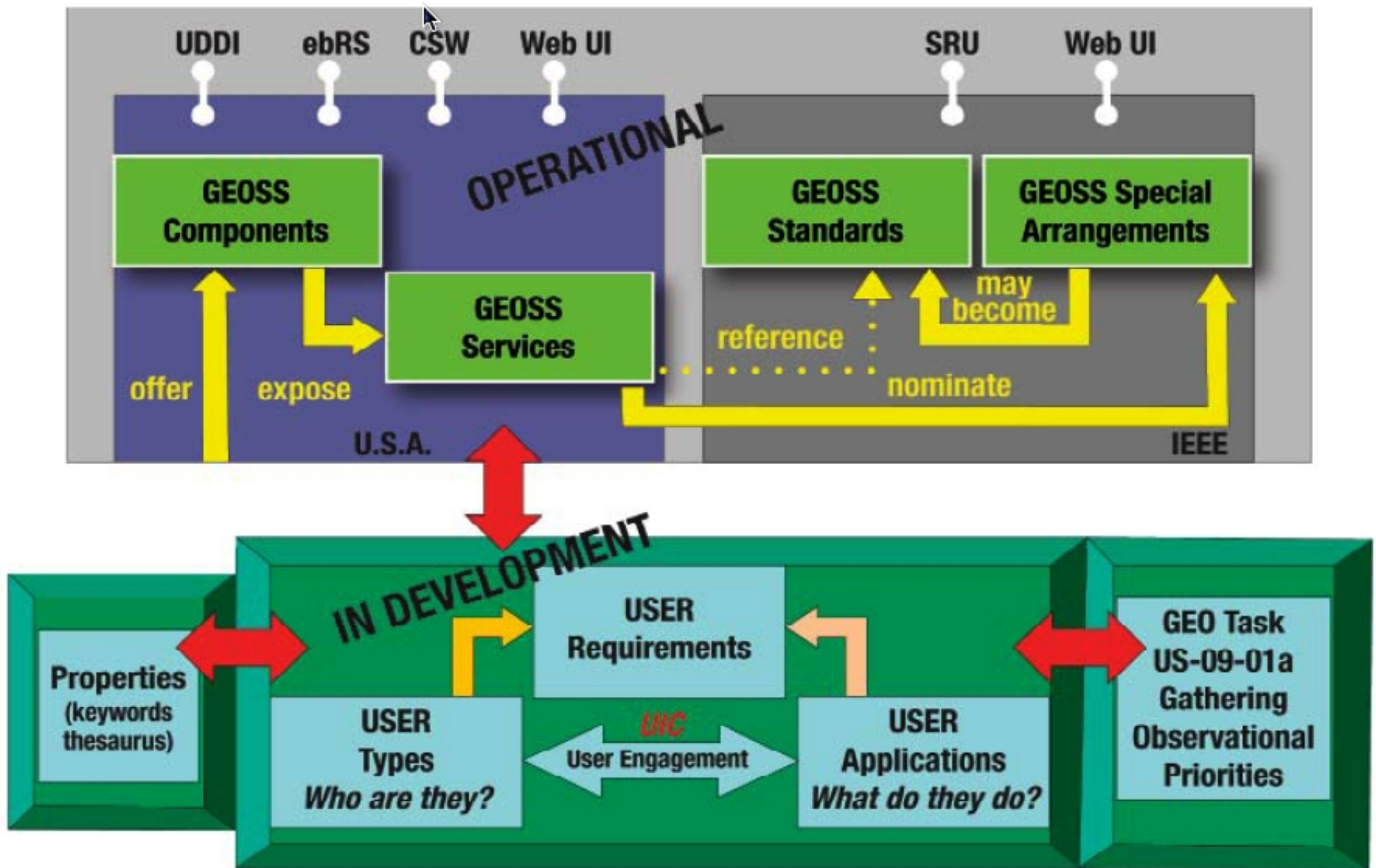Project management: Greg Ondich(1)

Design: Hans-Peter Plag(2)

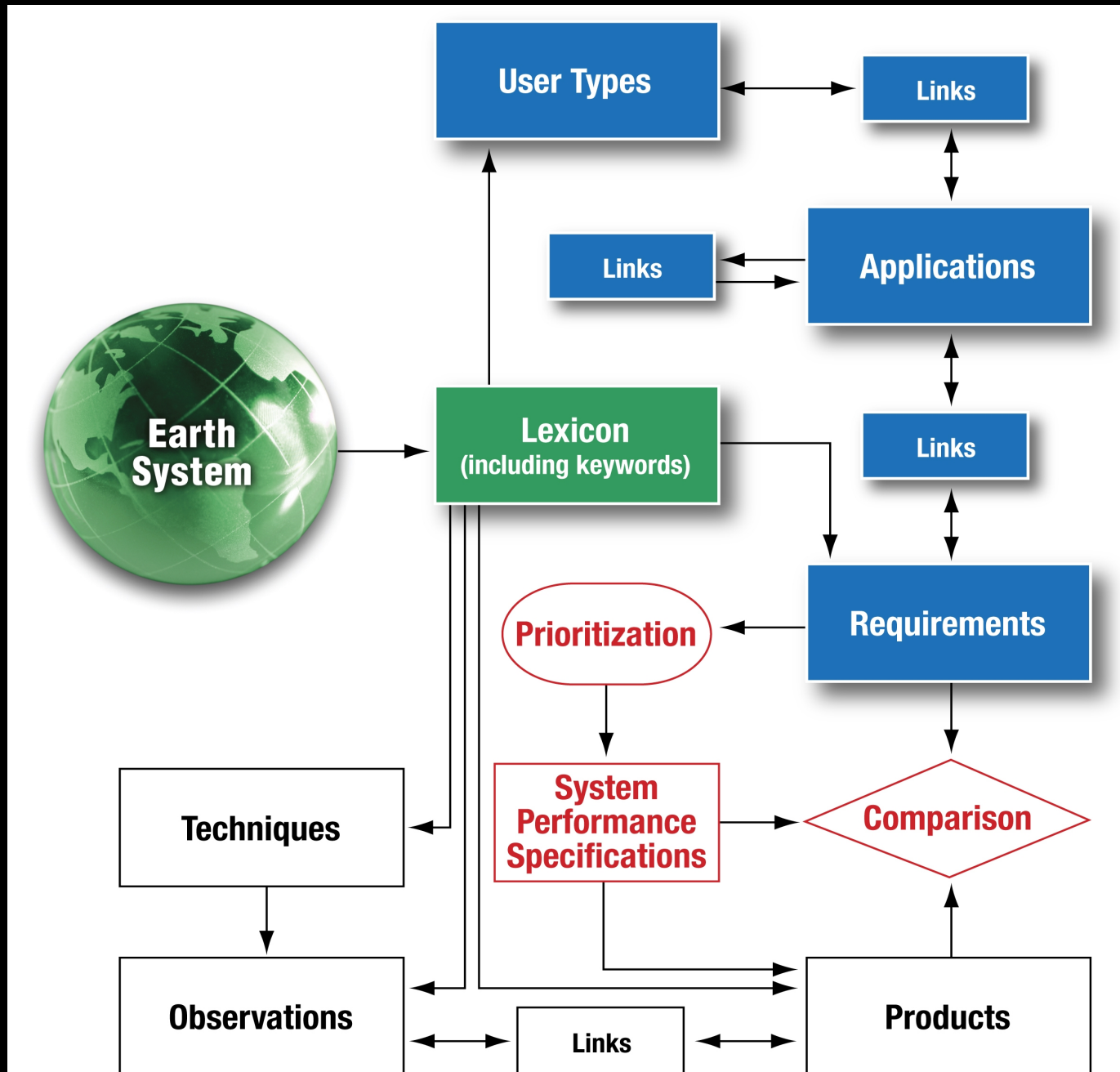Implementation: Justin Kaufman(1)

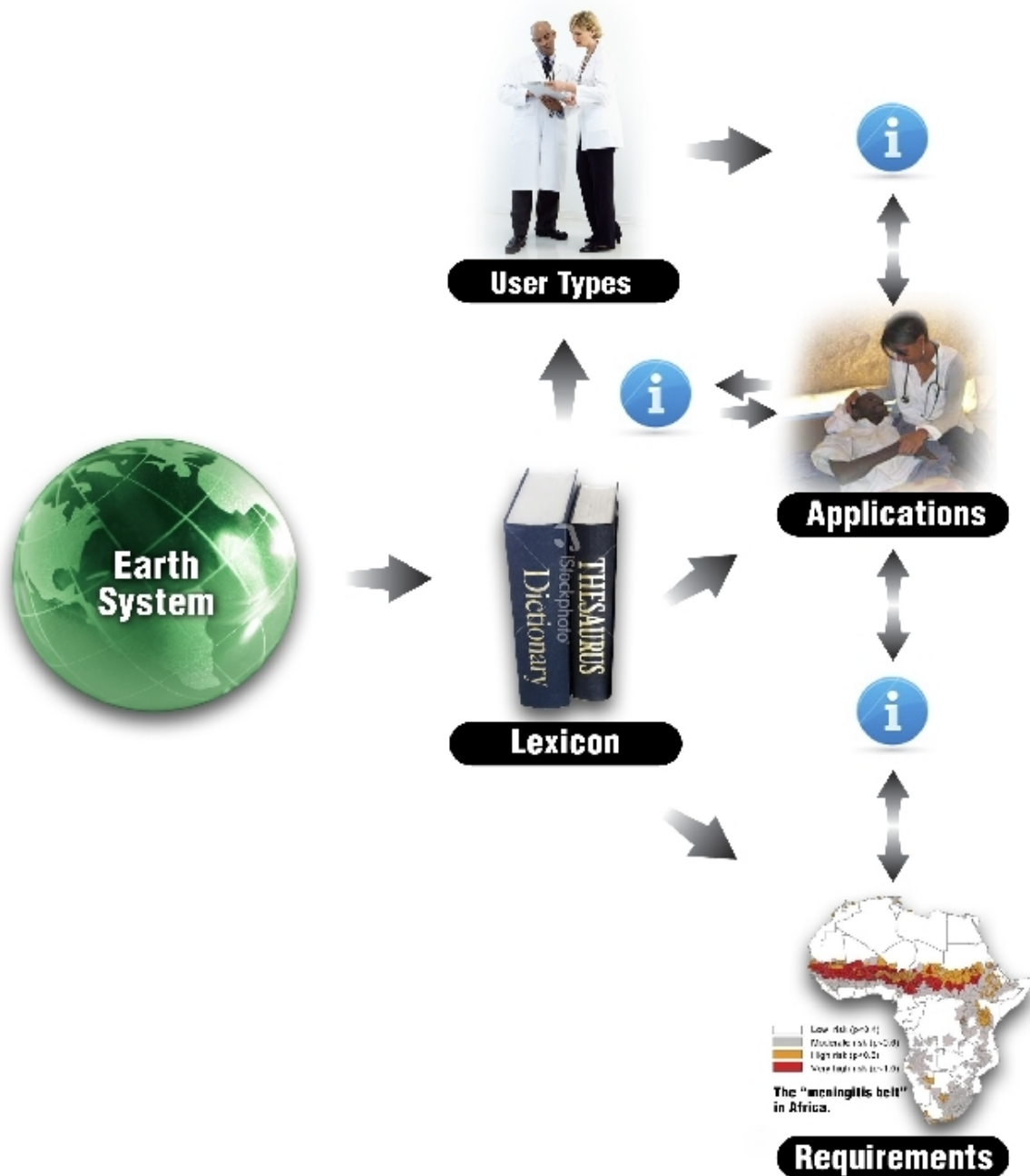(1) SCG, Gaithersburg, MD, USA

(2) Reno, NV, USA

User Requirement Registry: GEOSS Registries
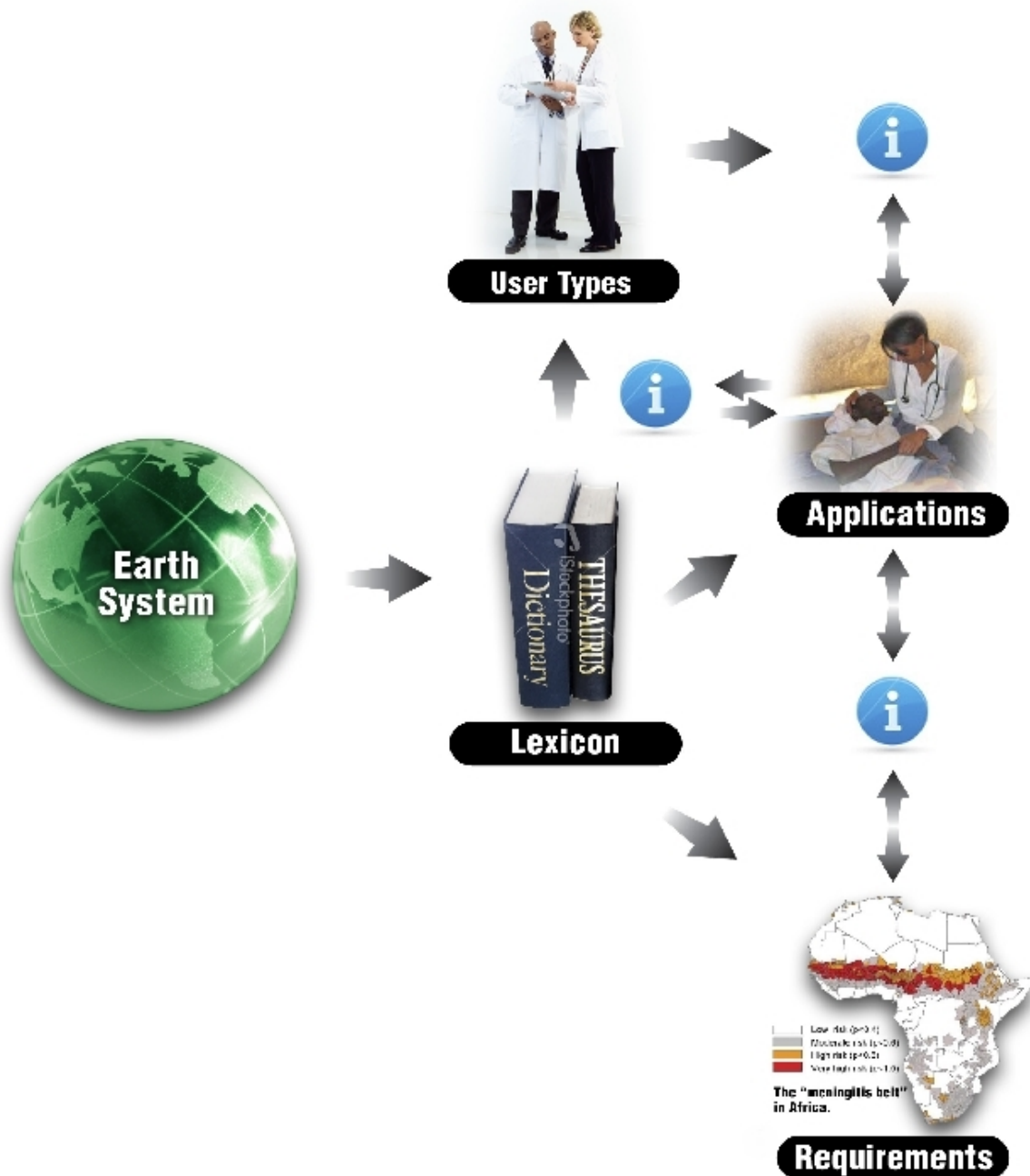
User Requirement Registry: The URR

User Requirement Registry: Example

Example:
Meningitis Environmental Risk Information Technologies (MERIT)
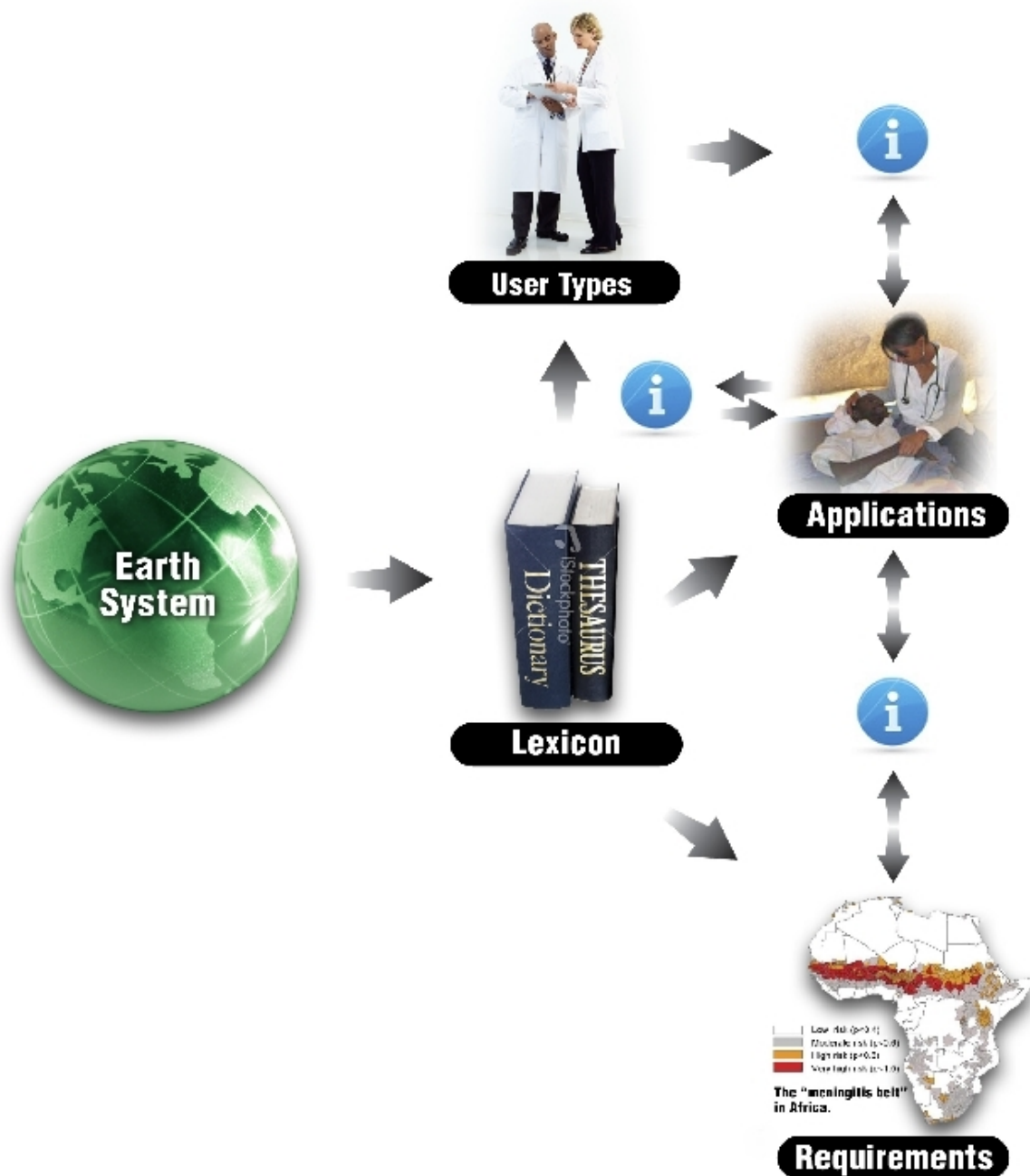
User Requirement Registry: Example

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Meningitis Environmental Risk Information Technologies (MERIT)

Drought and dry spells are linked with meningitis outbreaks.

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Drought and dry spells are linked with meningitis outbreaks.

Earth observation data can help to:
- map population at risk;
- provide early warning;
- monitor mitigation;
- predict changes.

User Requirement Registry: Implementation Status

Available:
- Publishing of
    - User Types
    - Applications
    - Requirements
    - Links
    - Lexicon
- Feedback

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Later:
Analysis of Value Chains and Networks

User Requirement Registry: Lexicon

Please Note: The URR is in development and subject to constant changes and service interruptions.

User Requirement Registry: Contents

Information is collected into **tables**.
For each table, an **entry** has a number of **attributes**.

Choice of tables and attributes determines what information can be collected

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Attributes with restricted discrete domains require **Domain lists** specifying the values an attribute can have.

Domain lists determine the resolution of contents.
Example: Attribute "Color"
- 8 values: black, blue, red, green, brown, yellow, grey, white
- 18 million values: RGB code (F167AB)

User Requirement Registry: Contents Structure

In the URR, we have Domain Lists for:

- **entry definition status**: Incomplete, Prelim. Draft, Final Draft, In Review, Accepted
- **societal sectors**: Academic, Educational, Commercial, Governmental, Private, Others
- **subdivision of SBAs** (sub-areas): *should be done by experts; should be related to use of Earth observations; maybe 10 to 20 per SBA.*
- **requirement type**: Unknown, Threshold, Target
- **requirement quality**: unclear, user claim, estimated, research result, sensitivity study, model simulation
- **geographical regions**: Africa, ..., Greenland, ..., ocean, land, tropics, polar regions, ...
- **link type**: crucial, strong, weak
- **term types**: noun, adjective, verb, multiple, combined
- **categories**: unspecified, general, physical, geometrical, biological, economical, ...
- **Domains**: unspecified, general, Earth system, solid Earth, oceans, atmosphere, ...

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Important:
- Need to finalize a first version of these domain lists asap;
- Work-intensive to make substantial changes to these lists later.

What Feedback do We Want From the AIP Semantics WG?

User Requirement Registry: Your Input

Do the URR tables include the attributes you would consider to describe user types, applications, requirements, vocabulary, and links you might want to publish?

Are the Domain lists sufficient and well defined to support the searches you might want to perform?

Do you see inconsistencies with what you are doing?

From your point of view, will this utility serve your purpose?

User Requirement Registry: Schedule

Part 1: Initial URR Prototype Development and Population

April 12, 2010:   Kick-off
May 3, 2010:   URR Prototype V1.0.0 available
May 6, 2010:   URR telecon (including analysts)
May 11, 2010:   URR demonstration for analysts
May 17, 2010:   URR Prototype V1.0.x partially populated
May 20, 2010:   User feedback collected
May 27, 2010:   URR workshop (Washington, D.C.)

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Substantial Feedback During GEO Meetings in Pretoria:

- presentation to UIC
- presentation to all Committee participants
- presentation to Joint Committee meeting
- Feedback session

User Requirement Registry: Schedule

Part 2: URR Prototype Usability Testing, and Feedback Period
   Publishing of Disaster, Air Quality and Health Data

June 4, 2010:   Initial Disaster data published

June 13, 2010:   Initial Aeroallergens data published

June 14-16, 2010: Task Force HTAP feedback

June 25, 2010:   Initial Infectious Diseases data published

July 1, 2010:   URR telecon

July 19, 2010:   Analysis function algorithms available

July 25-30, 2010: User feedback at IGARSS, Honolulu

August 5, 2010:   URR telecon

Aug. 9-12, 2010:   User feedback at ISPRS Com. VIII, Kyoto

Aug. 23-27, 2010: User feedback 9th Int. Con. Aerobiology, Buenos Aires

Aug. 23-27, 2010: User feedback infectious disease (WebEX)

User Requirement Registry: Schedule

Part 3: Revise URR Prototype
        Publishing of Aeroallergens, Infectious Disease, Biodiversity(?)
Sept. 2, 2010:   URR Telecon
Sept. 10,2010:   URR Prototype V2.0 available (*Open to public for
                publishing, lookups, analysis)*
Sept. 24, 2010:   Analysis functions implemented
Sept. 30, 2010:   Second-round user feedback available
Oct. 7, 2010:   URR Workshop (Washington, D.C.)
Oct. 20, 2010:   URR Prototype V3.0 available

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Part 4: Demonstrate URR Prototype
Nov. 1-5, 2010:   Presentation of URR at GEO meetings, Beijing
Nov. 30, 2010:   Final Report available

User Requirement Registry: Access and Feedback

Users Can Access URR at http://scgcorp.com/urr

Please use the built-in Feedback screen to provide comments and evaluations.