GGOS PORTAL
Call for Proposals

Bernd Richter
Carey Noll
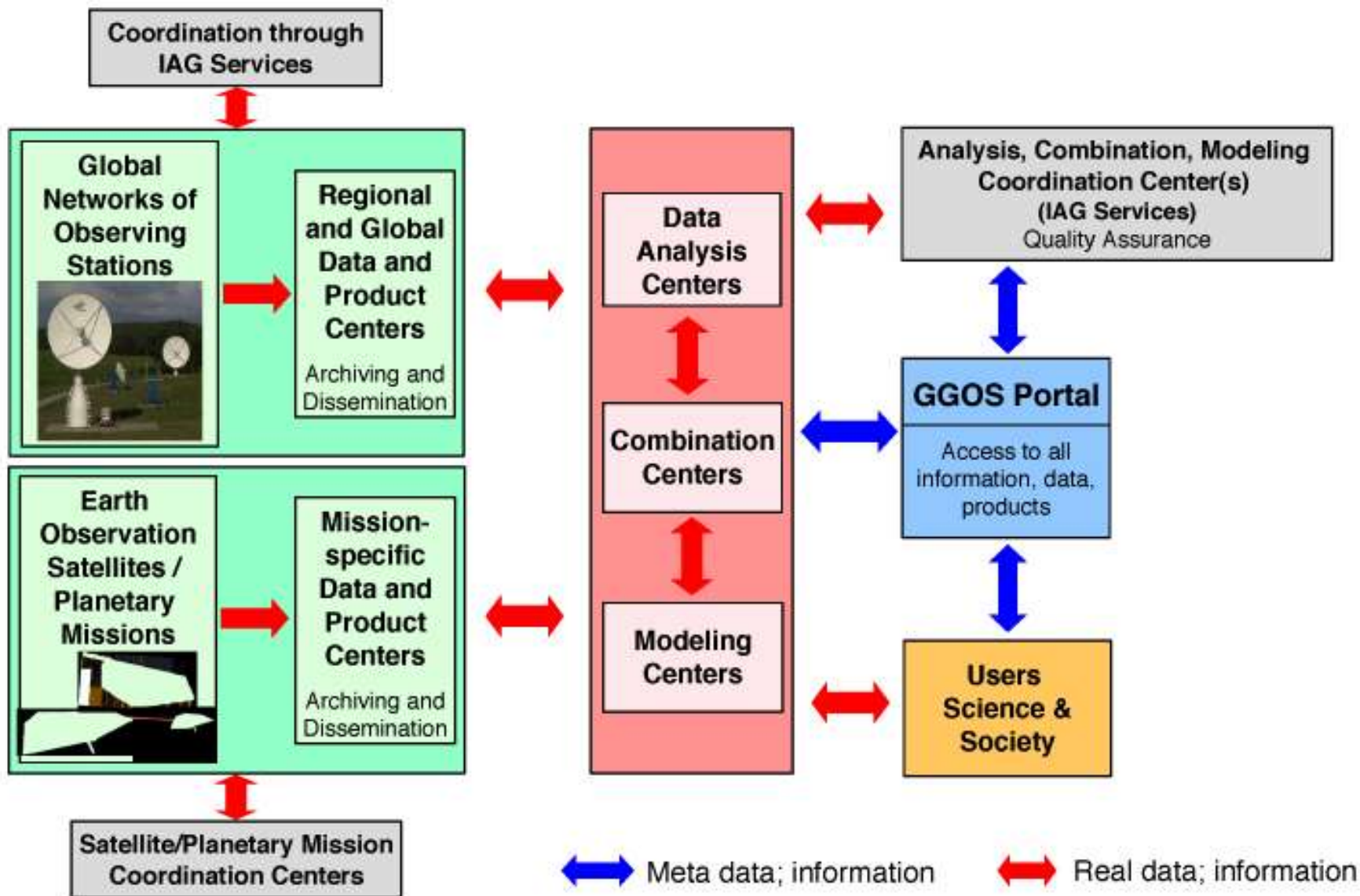Data and Information Systems Working Group

10th GGOS Steering Committee Meeting
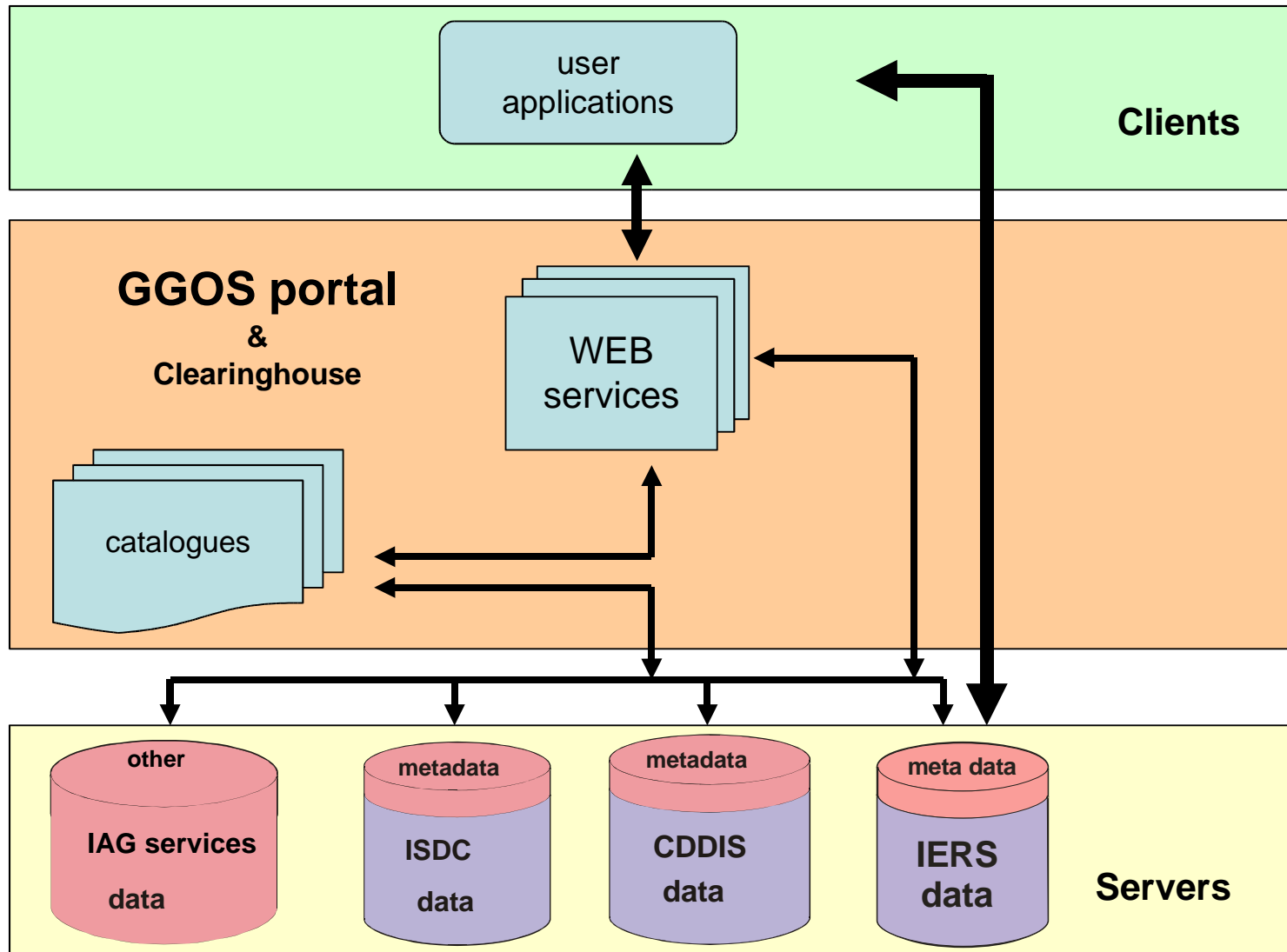July 08, 2007
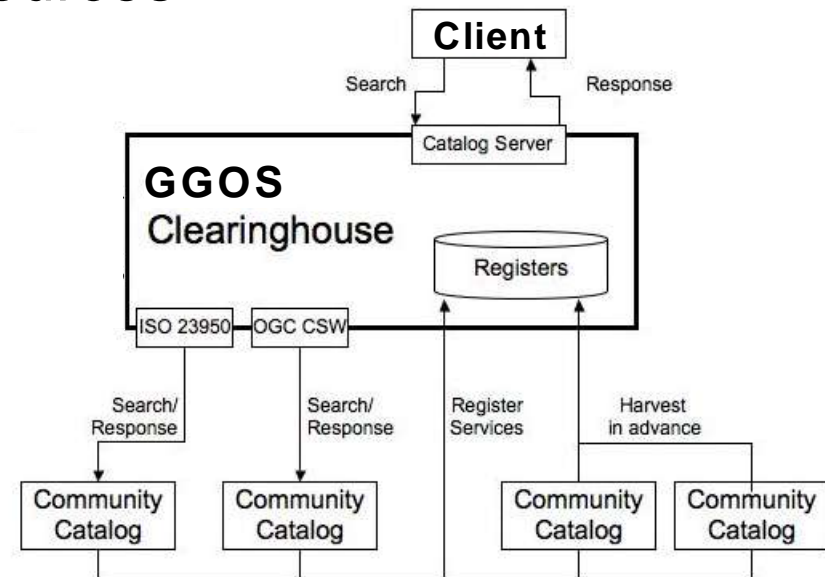Perugia, Italy

Background

- IAG Services already produce very important and valuable products to be promoted by GGOS

- GGOS Portal will make these accessible to broad Earth science community through an internet portal

- GGOS Portal will:
  - Provide single access point to all geodetic products relevant in the frame work of GGOS
  - Provide access not to the products themselves, but to the metadata describing the product (products are available at the individual services data centers)
  - Start with the burning questions of society and lead the way from there to the products, their characteristics, location, availability, latency, accuracy

- A Call for Proposals will be issued by GGOS for development of the portal

Functions

- GGOS portal will provide a Web site that:
  - represents a single Web access point for all geodetic products relevant in the framework of GGOS
  - offers a set of tools for organized knowledge discovery
  - access the GGOS clearinghouse to search data catalogues, products and data sets generated by GGOS components
  - help in answering the "burning questions of society" and leads the way to the products, their characteristics, location, availability, latency, and accuracy
  - allows searching and information retrieval of descriptive metadata from multiple, diverse target resources, databases, webpages, and library catalogues
  - access to general information about GGOS for both external and internal users
  - an information resource for GGOS participants (e.g., working group resources, calendar, meeting summaries, presentation archive, etc.)
  - route users to the heterogeneous IAG service/technique-specifice information systems
  - follow international standards in implementation

GGOS Portal Architecture

GGOS Clearinghouse

- GGOS Clearinghouse supports functions required of the GGOS Portal

- Facility to collect and distribute information about the Portal's data catalogs and services

- Provides access and search capability to distributed network of IAG Service catalogs and resources

- GGOS portal will search the clearinghouse to satisfy user requests

- Clearinghouse can provide access to remote catalogs hosted by the IAG services through a distributed or harvested approach

GGOS Portal Tasks

- Installation of a GGOS Web site with basic functionalities, hot spot information, news, tutorials, quick links, announcements, etc.

- Installation of a clearinghouse to host catalogues for metadata for all "products" of the IAG services relevant to GGOS based on GGOS standards to ensure interoperability within the GGOS community and to other systems (e.g. GEOSS):

  - Data
  - Products
  - Organizational components (e.g., infrastructure, supporting institutions, personnel, services)
  - Networks and their stations
  - Keywords for further searches

GGOS Portal Tasks
(continued)

- Search (temporal, spatial, multi-technique, keywords, etc.) of metadata, data, and product databases
- Visualization of products (time series, maps, etc.)
- Information on and explanations of data, products, and geodetic techniques, with direction to service-specific resources
- Knowledge base, Web services
- Facilitate GGOS communication
  - Calendars
  - User forums on relevant topics
  - Bibliography
  - Presentations
  - Meeting summaries
  - Working group activities
- Ease of maintenance for further development of the GGOS Web site

Data Mining Applications

- Search engine

- Data location tools
  - Spatial through map interface or bounding box specifications
  - Temporal through start/end date/time specifications
  - Site-specific through site codes, co-location specification, equipment characteristics, technique type, platform

- Data visualization tools
  - Map of networks/station locations resulting from user input specifications
  - Time series of analysis results resulting from user input specifications

Schedule for CfP

- Complete Call for Proposal (CfP)   Sept. 15

- Review and approval by GGOS SC   October 15

- Issue CfP   October 31

- Proposals due   February 29

- Evaluation/selection finished   March 31