

# The CZCP and GEO Tasks

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# Contributions to GEO

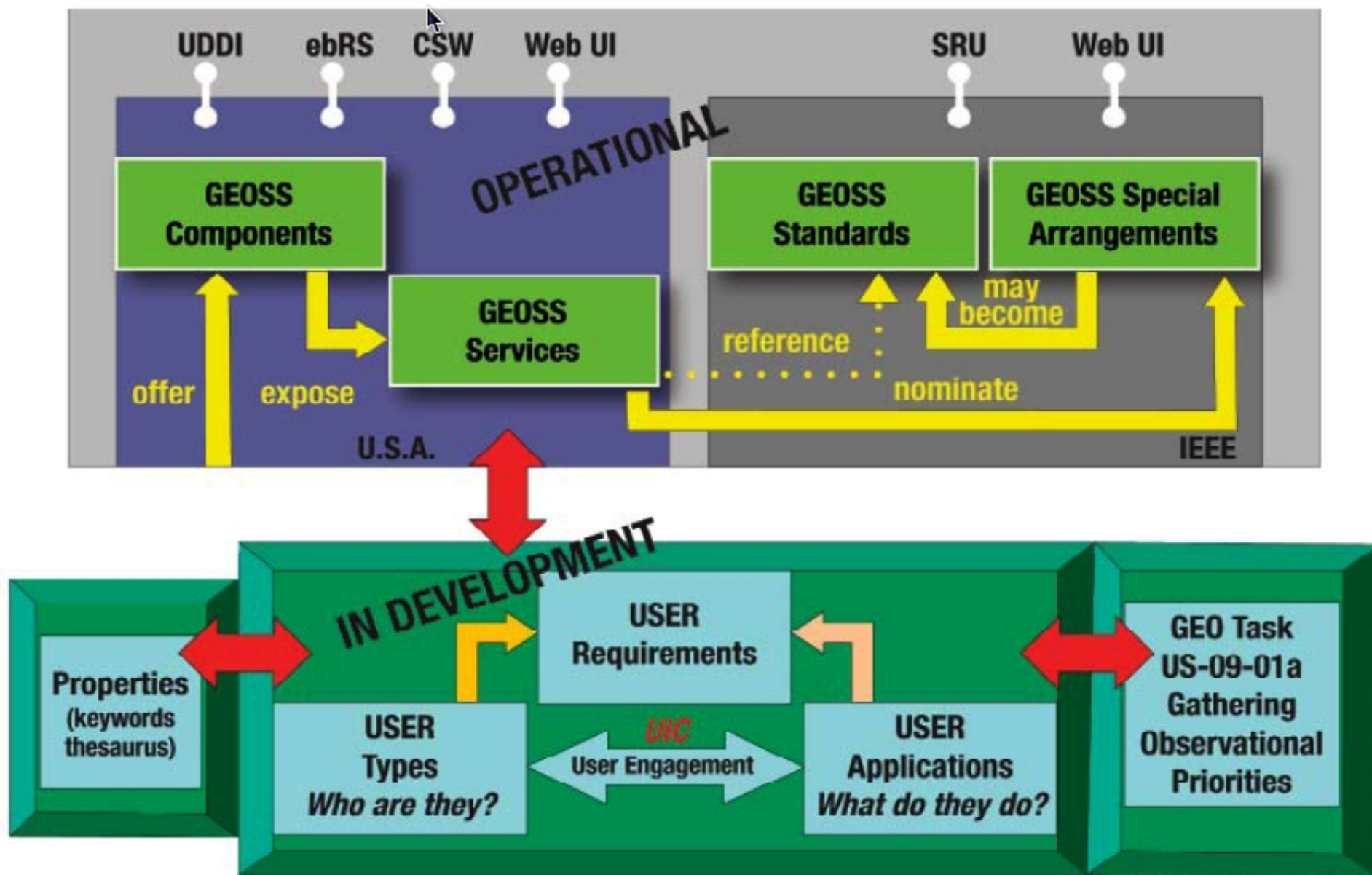
## *CZCP contributions to GEO Committees, activities, and projects*

- User Interface Committee: Frequent reports, User requirements
- Architecture and Data Committee: AIP - not yet
- Science and Technology Committee: FAR-GEO - new initiative
- Capacity Building: CfP

## *CZCP contributions to GEO Registries*

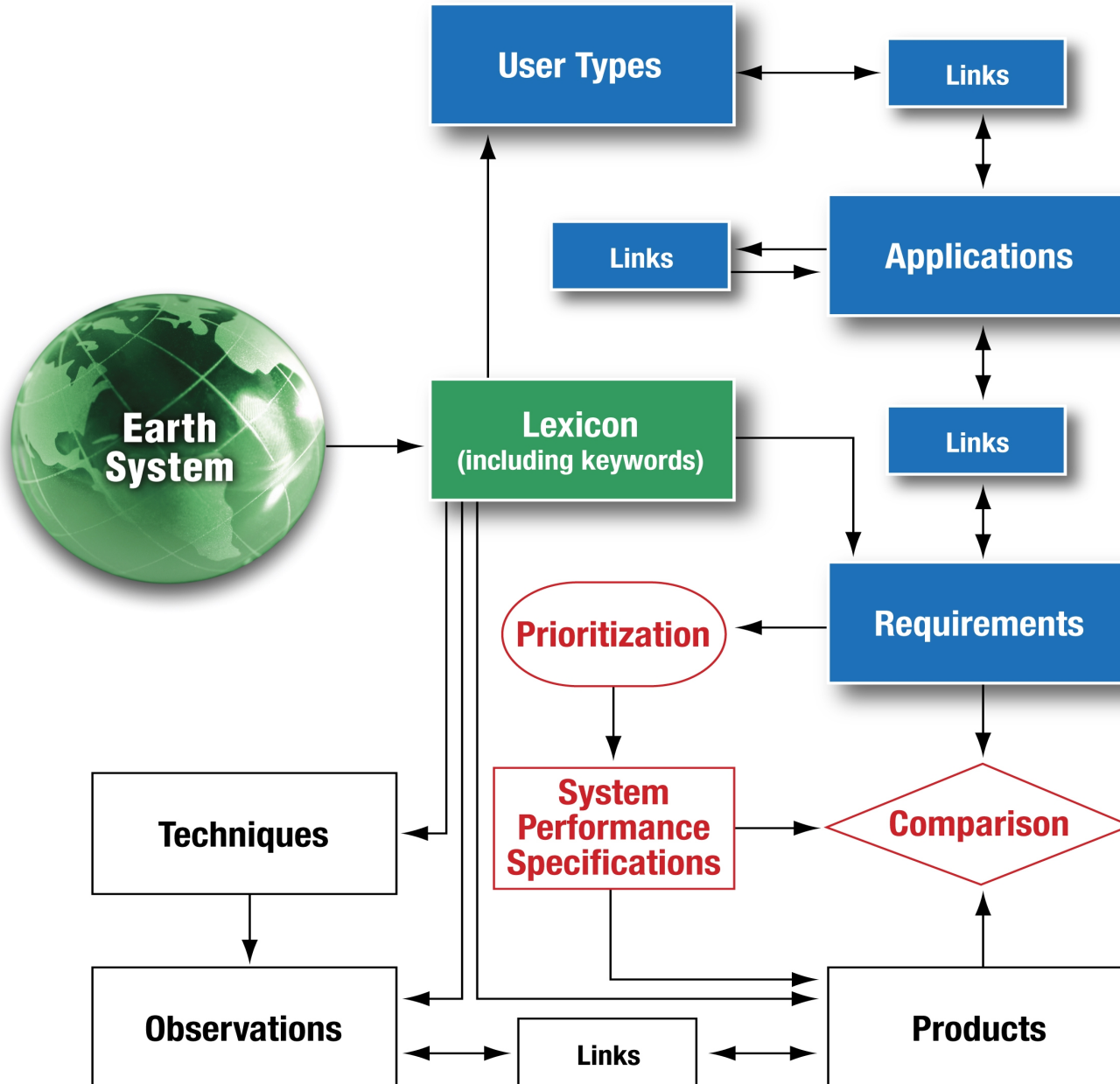
# Contributions to GEO

## *CZCP contributions to GEO Registries*



# Contributions to GEO

## *CZCP contributions to GEO Registries*



User Requirement Registry: The URR

# GEO Task AR-09-01b Architecture Implementation Pilot

- Develop and pilot new process and infrastructure components for the GCI and the broader GEOSs architecture
- Call for Participation in AIP-3
  - [http://www.earthobservations.org/geoss\\_call\\_aip.shtml](http://www.earthobservations.org/geoss_call_aip.shtml)

# Contributions to GEO

## *CZCP and the AIP-3*

### *AIP-3 Builds on AIP-2*

*Deploy and demonstrate the advantages of GEOSS service oriented architecture (SoA)*

- Link rich environment
- Move toward Best Practice for deploying SBA scenarios in to SOA
- Engage additional Communities of Practice
- Scenarios identified working with UIC
- Support ADC Data Strategy
- Data harmonisation and data quality

Experiments for Data sharing guidelines

# Contributions to GEO

## *CZCP and the Ministerial Summit, Beijing, November 2010*

- In April, invitation to contribute to a book featuring the CoPs
- End of May: information that CZCP and GHCP were the only CoPs who responded
- Not clear what will happen and how CoPs will be featured.

# Contributions to GEO

## ***CZCP and the GEO Work Plan***

- Six Tasks and Sub-Task are supposed to be supported by CZCP

# Work Plan Tasks

## **AR-09-03: Advocating for Sustained Observing Systems**

**AR-09-03c** *Global Ocean Observation System*

*GOOS, IEEE and POGO, and CZCP*

PoC: B. Lee, UNESCO

*Enhance and improve the **coordination of coastal/open-ocean observations and modelling initiatives**, in support of a global ocean observation system.*

*Related activities will include: Improve the global coverage and data accuracy of the coastal/open ocean observing systems as well as the management and archiving of the resulting data and information. Contribute to the implementation of global coastal and open ocean observing networks using the mechanism of GOOS and Regional Alliances. In particular sustain and extend the network of Argo buoys and encourage the establishment of a Program Office to ensure the ongoing implementation of this global array of profiling floats in the ocean. Building on existing capabilities, develop a global coordinated information and data system for deep-ocean monitoring to better understand the dynamics of the ocean processes throughout the ocean water column.*

# Work Plan Tasks

## **DI-09-03: Warning Systems for Disasters**

**DI-09-03c** *Tsunami Early Warning System of Systems* IOC, UNOSAT, GHCP, and CZCP

PoC: P. Koltermann, UNESCO

*Support the establishment and continuation of a **multi-hazard fully-operational global tsunami early warning and mitigation system of systems**. Promote full and open exchange of publicly-funded, unclassified data relevant to tsunami warning/mitigation systems and enhancement/development of mechanisms for real-time data sharing, including seismic and sea level (deep ocean and tide gauge) data. Contribute to the operationalization of comprehensive observing networks (in-situ sea level, seismic stations and remote monitoring) and data management systems (including integration of the global ocean observing system (GOOS), international seismic networks, and related global telecommunication systems). Define and promote standards/protocols for operating observing systems, and managing data exchange/transmission for multiple observing systems relevant to tsunami detection, early warning and mitigation. Build upon GMES projects in the area of emergency response and marine aspects.*

# Work Plan Tasks

**WA-08-01: Integrated Products for Water Resource Management and Research**

**WA-08-01f Pilot Projects for Improved Water Discovery and Quality**

**Assessments** USA (EPA) and IEEE (lyonjohn@aol.com), and supported by the Integrated Global Water Cycle CoP, and CZCP

*Conduct **pilot projects** in cooperation with local, regional, and national groups, and other organizations to provide **water quantity** and quality assistance where it is needed, but not now available. These projects over twelve in number are focused on developing countries and realizable in the field within one year, and/or slightly more in time. They will be sustainable, reusable, repeatable, and scalable. Currently, the sub-task has submitted more than four of the Pilot Projects for potential funding by sponsor groups.*

# Work Plan Tasks

## **WA-08-01: Integrated Products for Water Resource Management and Research**

**WA-08-01g Global Water Quality Monitoring Assessments** *Australia (CSIRO) and USA (EPA, State of Wisconsin, [steven.greb@Wisconsin.gov](mailto:steven.greb@Wisconsin.gov), and supported by the Integrated Global Water Cycle CoP, and CZCP*

*Initiate projects to develop operational observation and monitoring systems of water quality, integrating in-situ water quality monitoring methods for terrestrial sources & the coastal ocean with remote-sensed operational systems of global-scale freshwater quality. Ensure that resulting information systems are compatible and interoperable as part of the system of systems. Make relevant synergies with HE-07-02 and develop models that relate water quality databases to exposure and health effects data; and identify mechanisms for alerting public health professionals on hazardous conditions identified by the monitoring of these parameters.*

# Work Plan Tasks

## **EC-09-01: Ecosystem Observation and Monitoring Network (GEO EcoNet)**

**EC-09-01c Regional Networks for Ecosystems** *GTOS and POGO (shubha@Dal.Ca), and supported by the Coastal Zone Community of Practice*

*Build upon the successful extension of the regional-scale ANTARES project (South America) to the global-scale ChloroGIN project – under POGO and IOCCG. Further develop existing initiatives (e.g. IOC-sponsored regional networks; GOFCC-GOLD regional networks and ILTER for terrestrial domains).*

# Work Plan Tasks

## **AG-06-02: Data Utilization in Fisheries and Aquaculture**

Canada (BIO, CSA, forgetmh@mar.dfo-mpo.gc.ca),  
and USA (NOAA), and supported by the Coastal Zone Community of  
Practice

*Identify opportunities for the **enhanced utilization of Earth observations in fisheries and aquaculture**. Consult with experts from fisheries, aquaculture, coastal zone management and Earth observation communities at regional and international levels. Support the implementation of the SAFARI project and IOCCG monograph. Make relevant synergies with (i) AR-09-02a, the proposed Virtual Constellation on Ocean Colour Radiometry, and (ii) EC-09-01c, the ChloroGIN Project. Through these two GEO Tasks, products related to marine ecosystems and ocean biogeochemistry for near-surface global ocean and coastal waters will be provided and accessible to end users.*

# Contributions to GEO

## ***CZCP Contribution to Committees, Working Groups, Activities***

- Mainly UIC; other committees should be considered, in particular, STC and FAR-GEO

## ***CZCP and Ministerial Summit***

- unclear situation; waiting for new requests from the UIC

## ***CZCP and GEOSS Registries***

- Contribute to populating the registries, in particular, URR

## ***CZCP and AIP-3***

- Active participation should be considered

## ***CZCP and the GEO Work Plan***

- Six Tasks and Sub-Task are supposed to be supported by CZCP