



The brokering approach to facilitate the GEOSS infrastructure implementation

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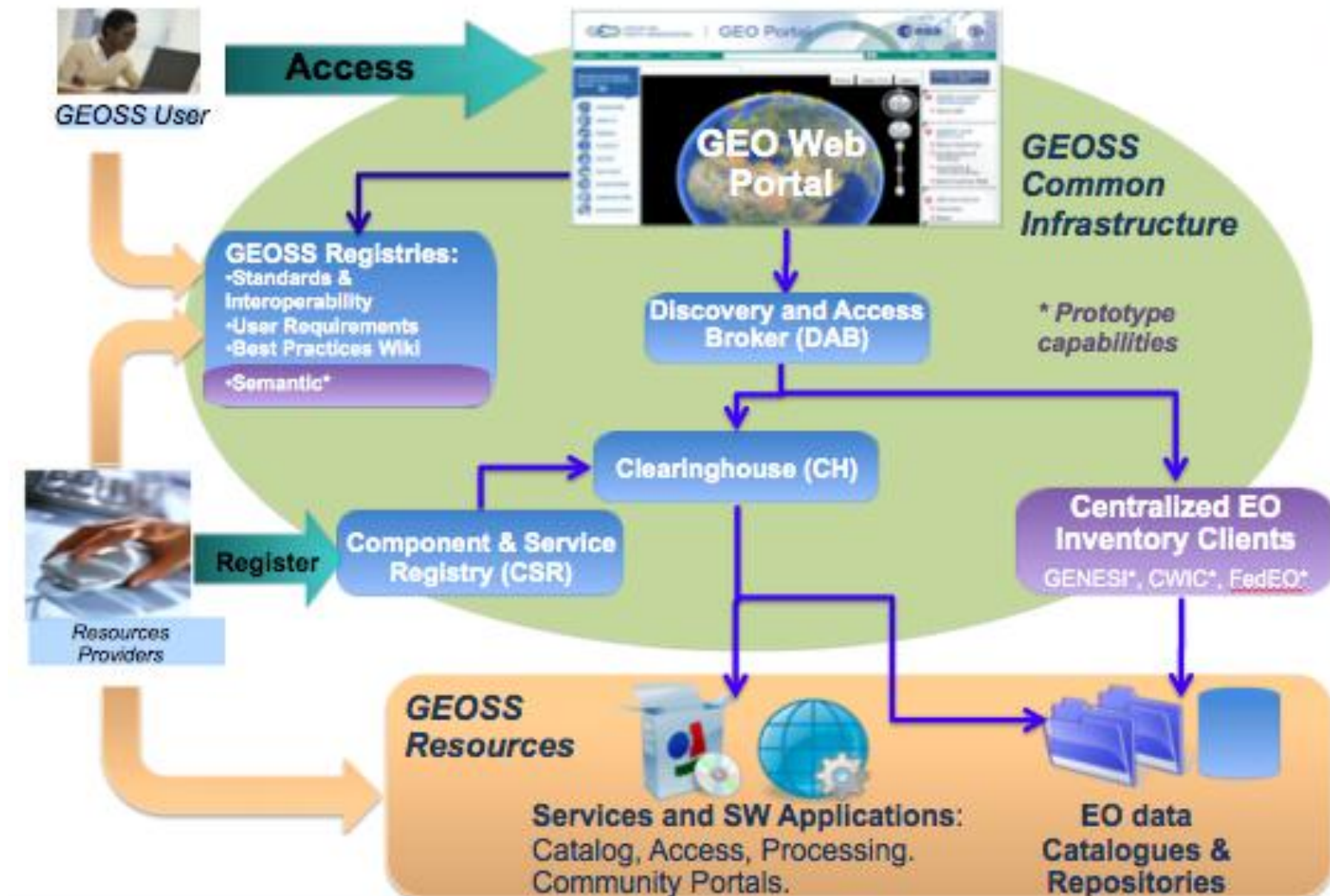
Highlights from Infrastructure Implementation Board meeting, Geneva, 3rd May 2012

- Recognition from the Work Plan Symposium that there are many thematic community initiatives, each with its own information system and portal.
- GCI needs to perform better and be better connected to these initiatives in a true System of Systems logic.
- GEOSS Data CORE a unique feature of GEOSS. Priority action to turn the many pledges from GEO members into **accessible** data.



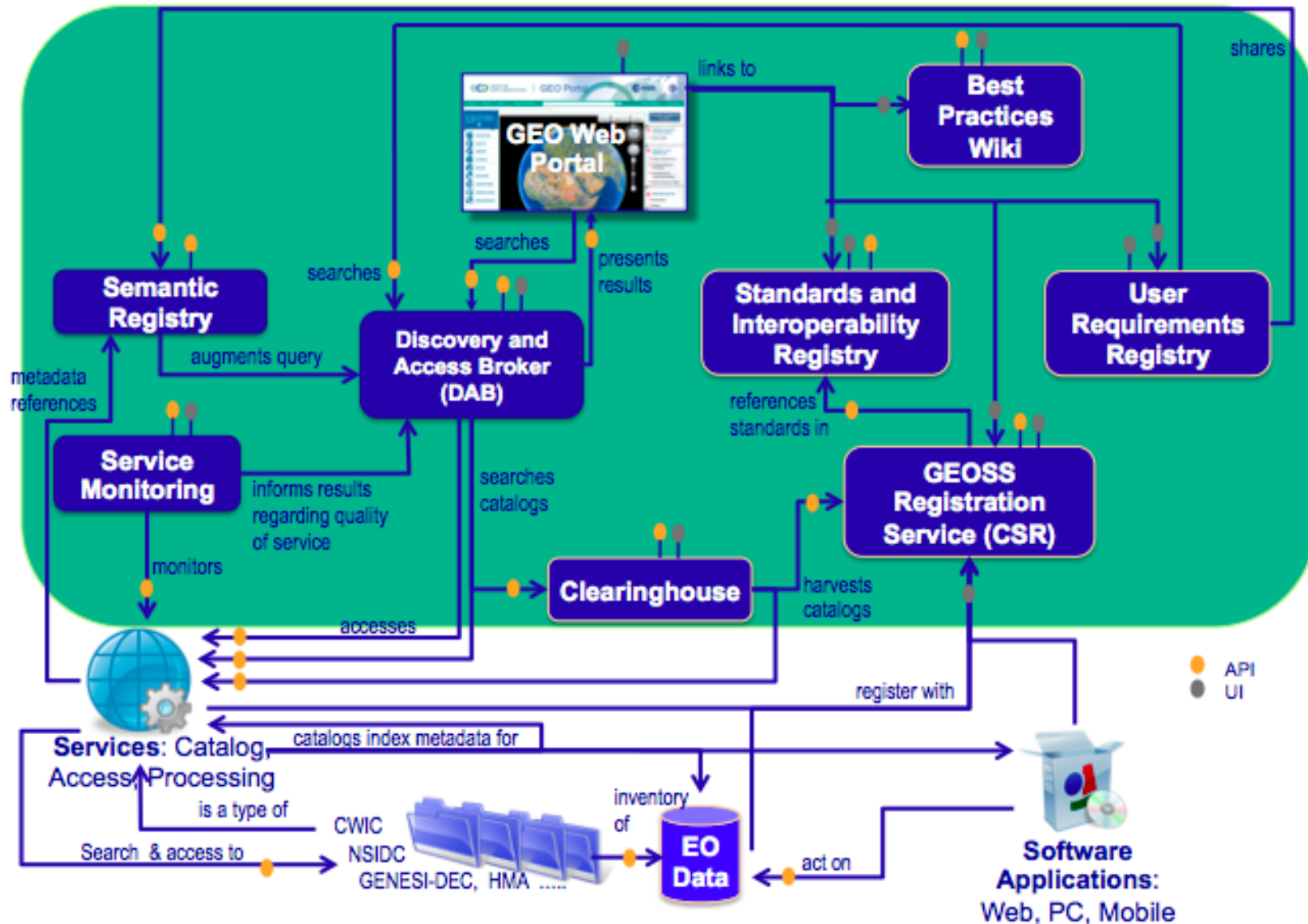
European
Commission

GCI Current Architecture



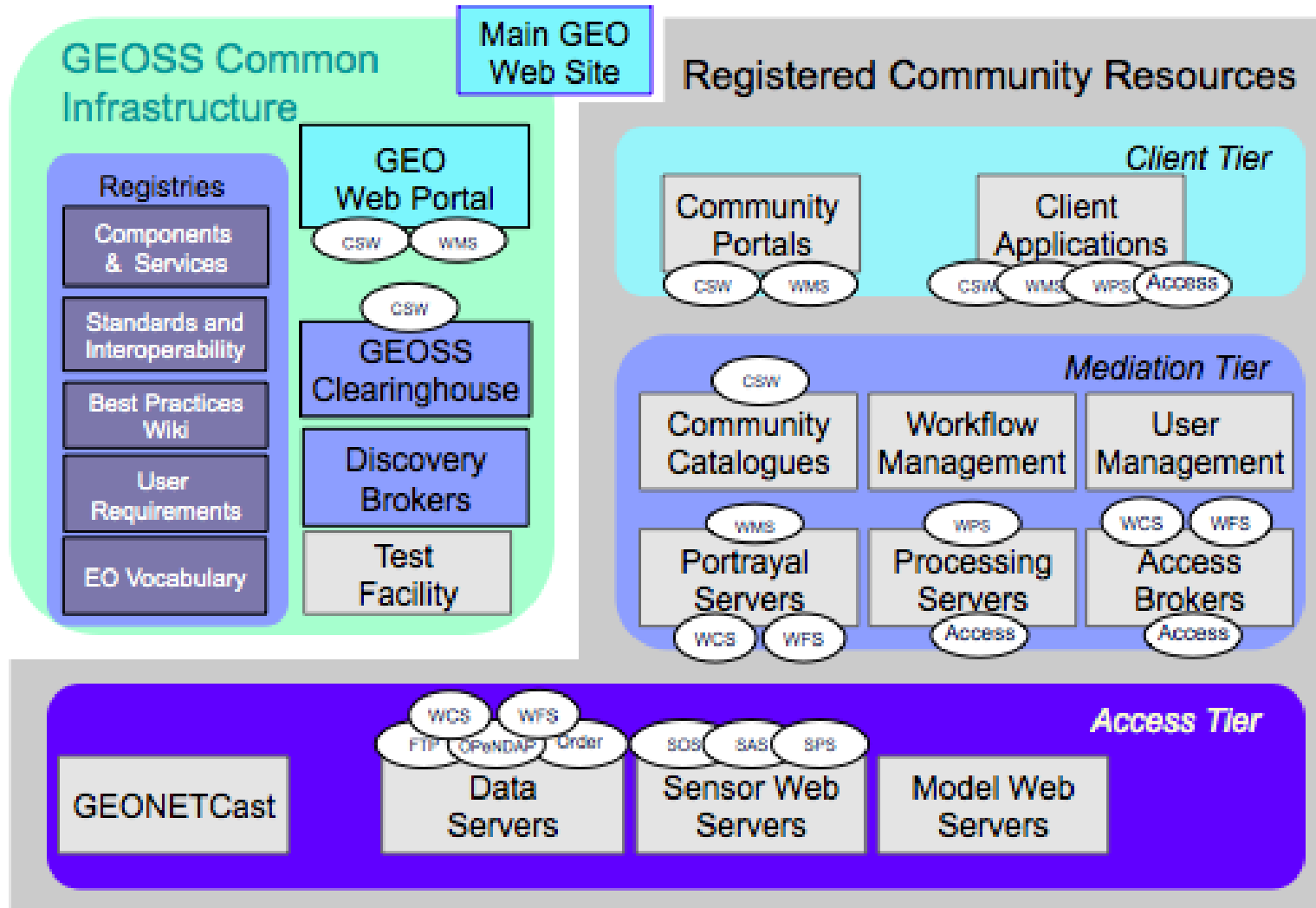


GEOSS Infrastructure interactions





Engineering Components: Host data, Interact thru Services

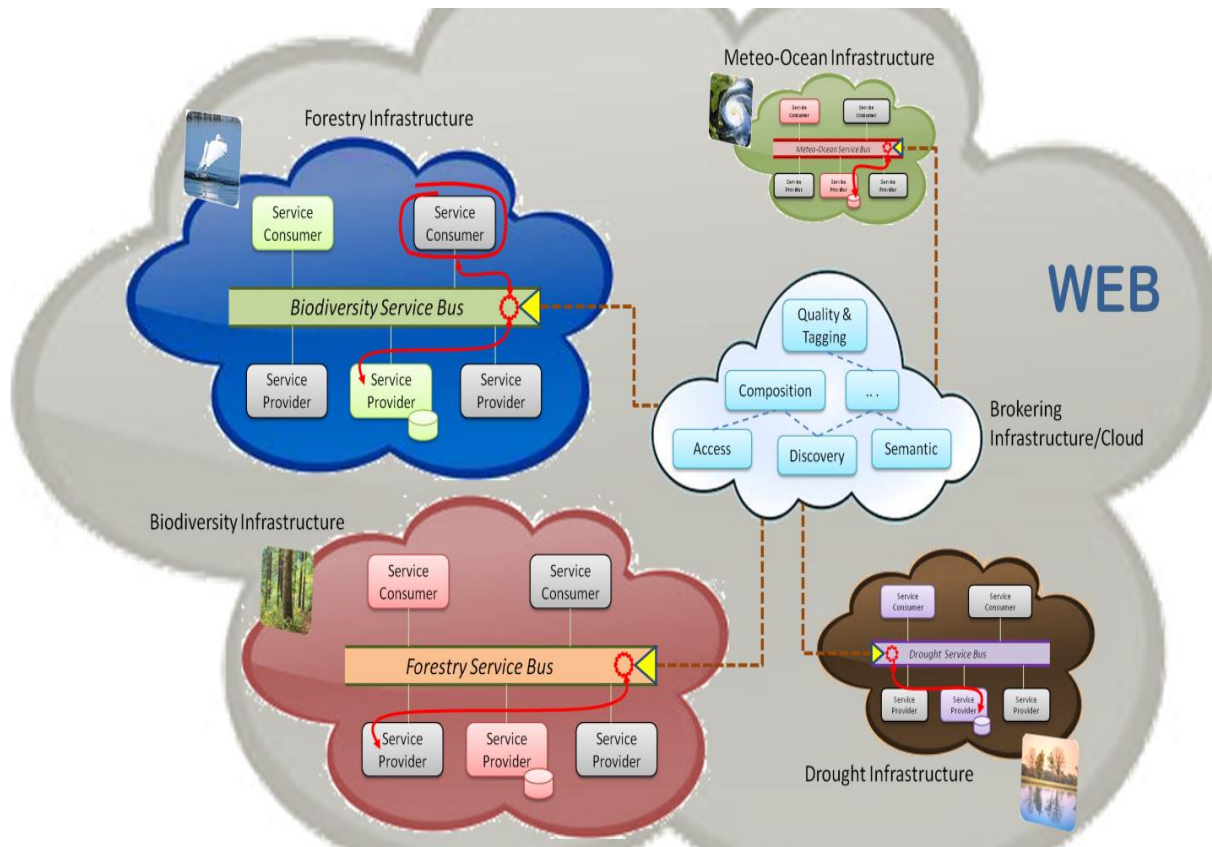


Brokering because there are many communities each with their own standards and protocols

OGC WCS 1.0, 1.1, 1.1.2
OGC WMS 1.1.1, 1.3.0
OGC WFS 1.0.0, 1.1.0
OGC WPS 1.0.0
OGC SOS 1.0.0
OGC CSW 2.0.2 Core
OGC CSW 2.0.2 AP ISO 1.0
OGC CSW 2.0.2 ebRIM/CIM
OGC CSW 2.0.2 ebRIM/EO
OGC CSW 2.0.2 CWIC
WAF Web Accessible Folders 1.0
THREDDS 1.0.1, 1.0.2
THREDDS-NCISO 1.0.1, 1.0.2
THREDDS-NCISO-PLUS 1.0.1, 1.0.2
CDI (Common Data Index) 1.04, 1.3, 1.4
GBIF
GeoNetwork catalog service 2.2.0, 2.4.1, 2.6

Deegree (version 2.2) catalog service
ArcGIS Geoportal (version 10) catalog service
OpenSearch 1.1 with Geo and Time extensions
OAI-PMH 2.0 (support to ISO19139 and dublin core formats)
NetCDF-CF 1.4
NCML-CF 1.4
NCML-OD
GeoRSS 2.0
GDACS
DIF
File system
SITAD (Sistema Informativo Territoriale Ambientale Diffuso)
INPE
HYDRO (WaterML)

Brokering = connecting across disciplines and systems

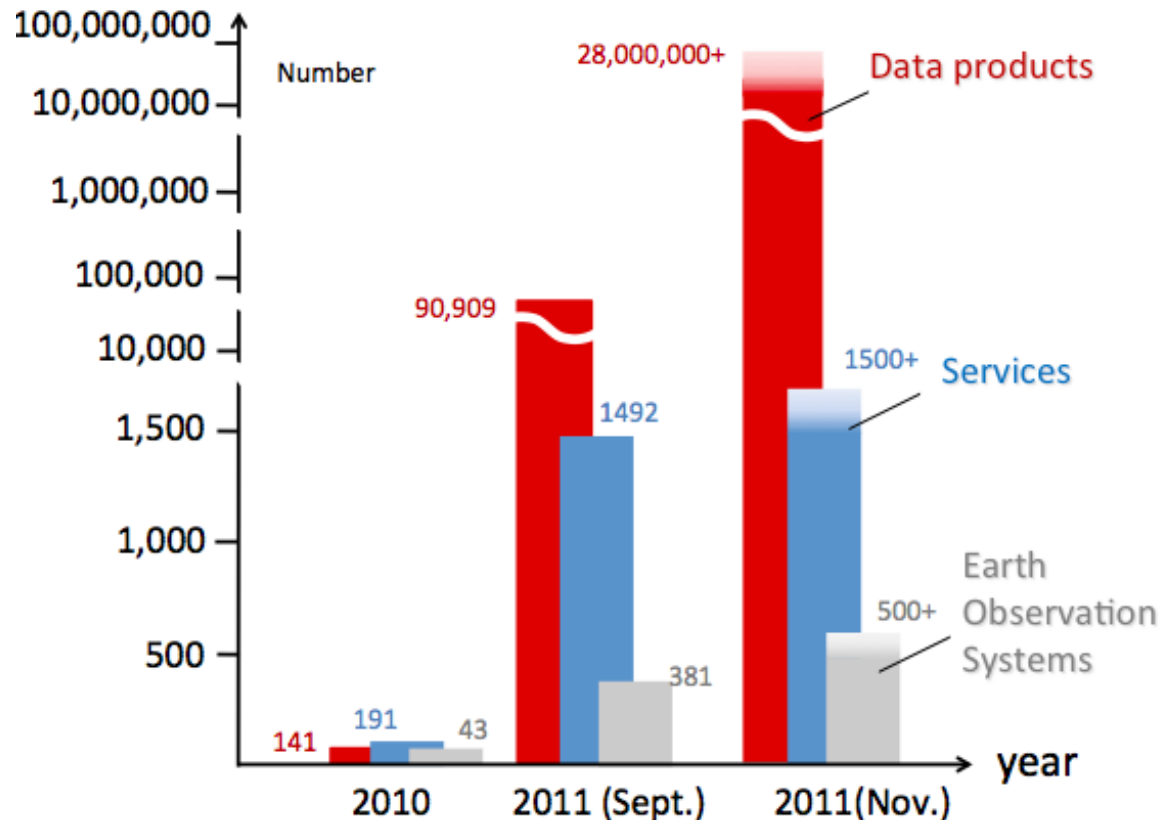


Added value of brokering

BUT

It also highlights limits of GCI: many datasets discoverable but few easily accessible. New priority must be access and use.

More on brokering in the Nativi talk after coffee



Priorities 1

- Improve GCI performance and improve connectivity to mature thematic systems to support multi-disciplinary interoperability
- Give high priority to turn GEOSS Data CORE into the strategic asset of GEOSS to demonstrate its added value
 - Facilitate data CORE tagging
 - Priority ranking in searches
 - Licensing, attribution, user registration if needed

Priorities 2

- Improved governance in GEO
 - Cross Implementation Boards coordination
 - Synergy across the many tasks and components that contribute to achievement of strategic targets
- European contribution is crucial
 - Significant source of funding to develop GEOSS
 - Many projects are directly linked to developing the GCI and support the evolution of GEOSS post 2015.
 - Need to adopt a “Project of Projects” approach to ensure synergy and optimize European contribution in addressing user requirements (see GEOWOW talk after coffee).

(My) expected outcomes of this workshop

- Clearer view of European R&D Projects' contributions to GEOSS Data CORE
- Synergy plan to improve re-use of components and project outcomes to help meeting the GEO Strategic Targets.
- A shared view of key priorities on which we can demonstrate added value of GEOSS to policy, science, and society.

Thank you for your attention



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