

ConnectinGEO

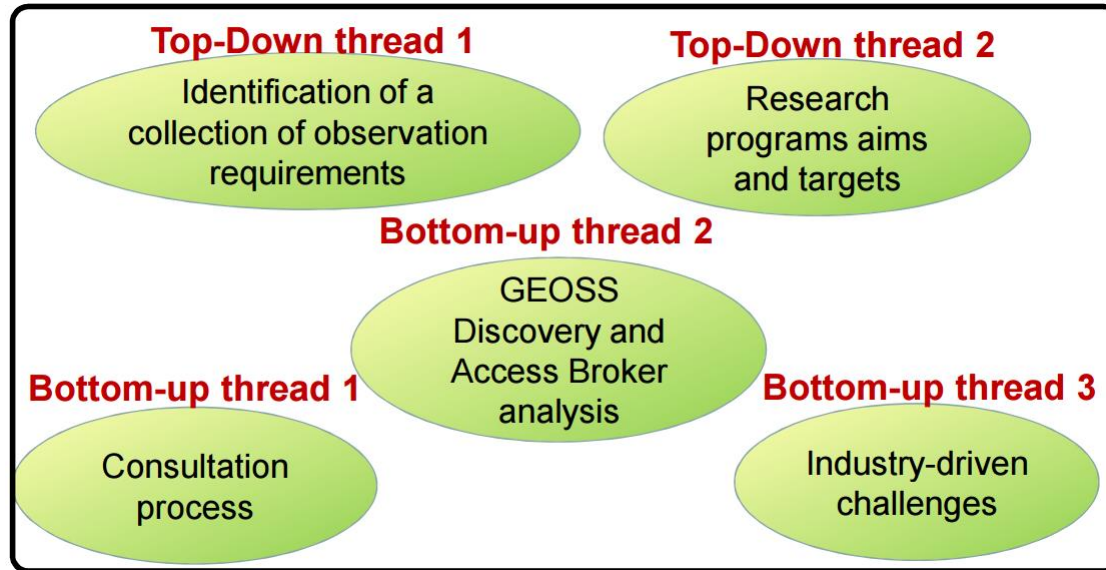
Coordinating an Observation Network of
Networks EnCompassing saTellite and IN-
situ to fill the Gaps in European
Observations

Gap Analysis Workshop

Bottom-Up Thread 1 – *User
Needs and Gaps Survey
Results*

Matthes Rieke – 52°North



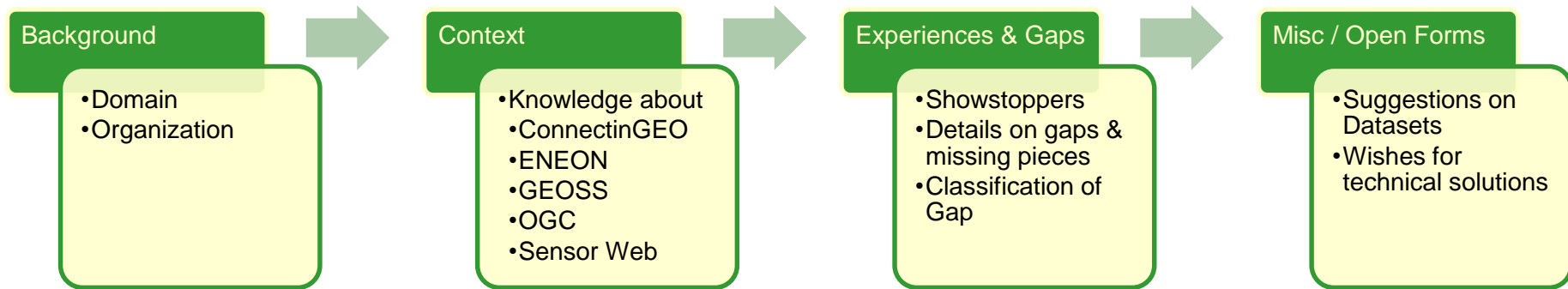


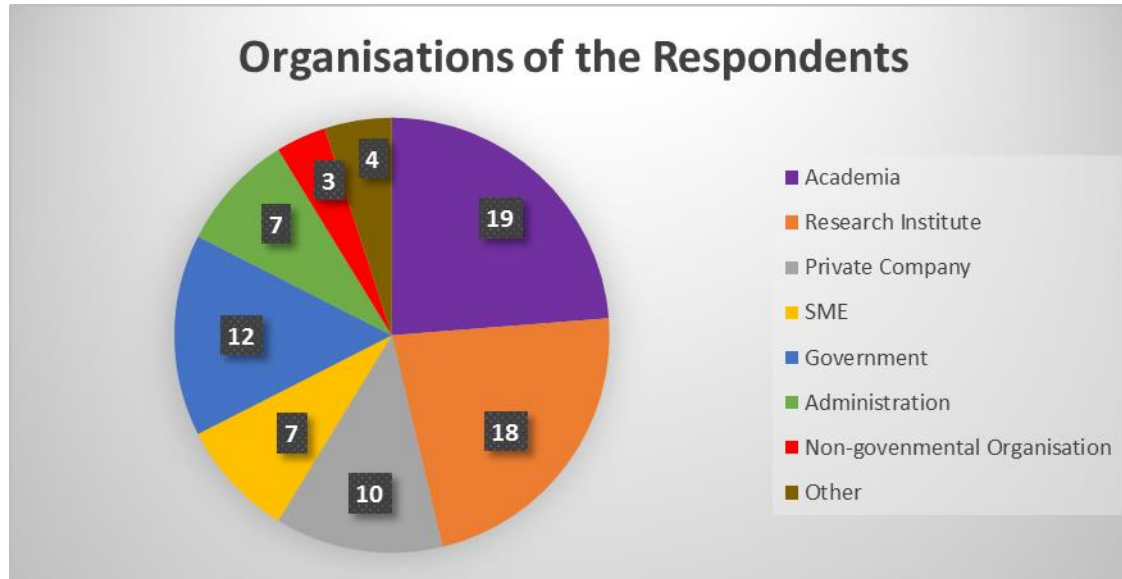
- ConnectinGEO is using both top-down and bottom-up approaches to identify observation gaps in EO networks
- Bottom-up thread 1: consultation process
 - Separation into collectives: data user & data producers
 - Mechanisms: Collaboration platforms, **Surveys**, Discussion at Workshops

- Scope
 - Survey of user needs and gaps in European spatial data
 - Focus on
 - Data coverage
 - Data quality
 - Discovery
 - Data Access
 - Metadata & Description
 - Availability
- Summary
 - 80 respondents
 - Heterogeneous sectors & domains

- Method

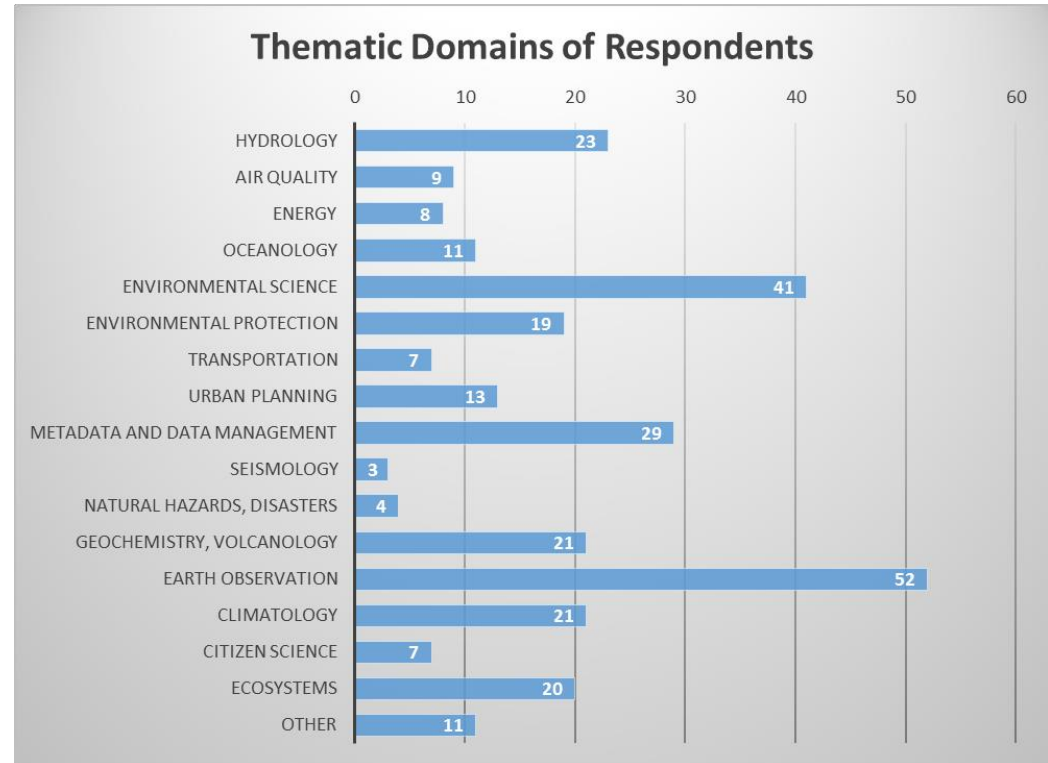
- Online survey tool for convenience
- Send out invitations in (domain) networks – mailing lists, forums, workshops
 - Encourage to spread the word

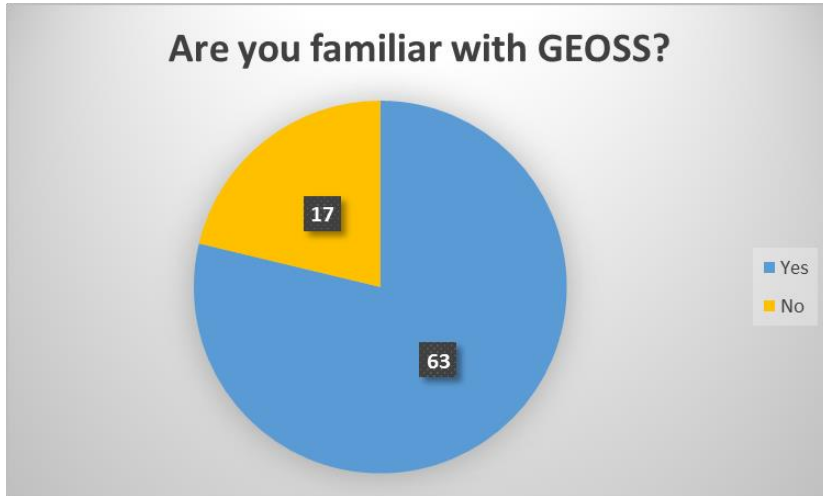




- biggest share of participants
 - Academia
 - Other research Institutes
 - scientific view on working with different types of EO data
- Other relevant blocks
 - SMEs
 - Private companies
 - Government

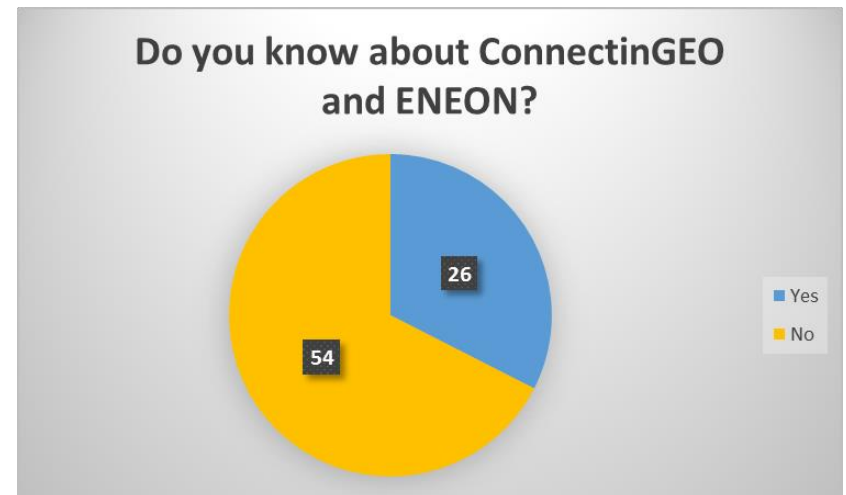
- Thematic background shares
 - Earth Observation
 - Environmental science
 - → Multiple answers possible, as limitation to one domain is often not possible
- Well represented disciplines
 - Hydrology
 - Environmental Protection
 - Geochemistry
 - Climate Science
 - Ecosystems



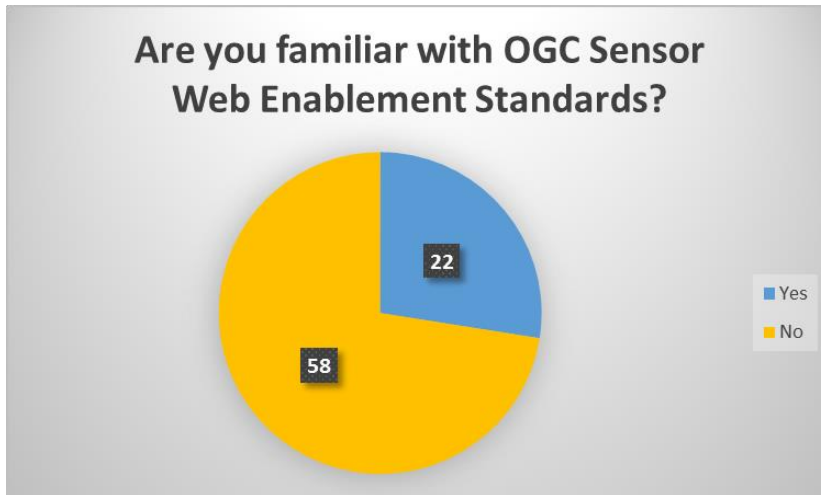
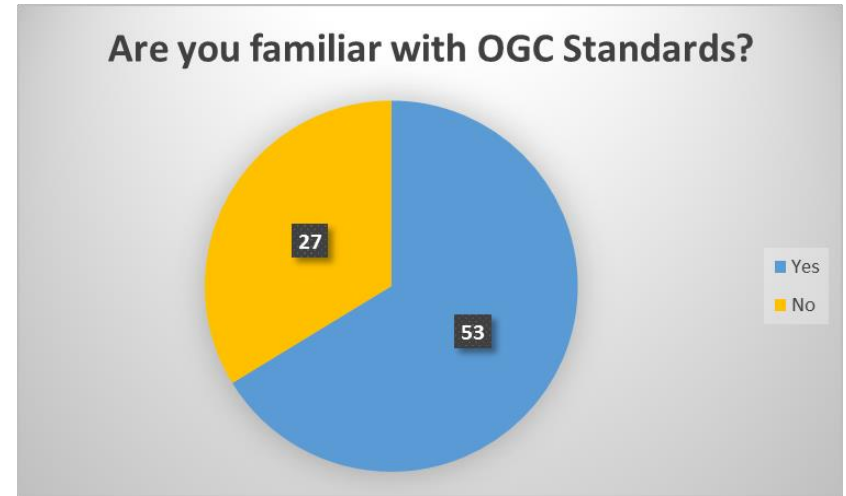


- large share of the participants familiar with the idea of data sharing via Spatial Data Infrastructures (70 out of 80) and GEOSS

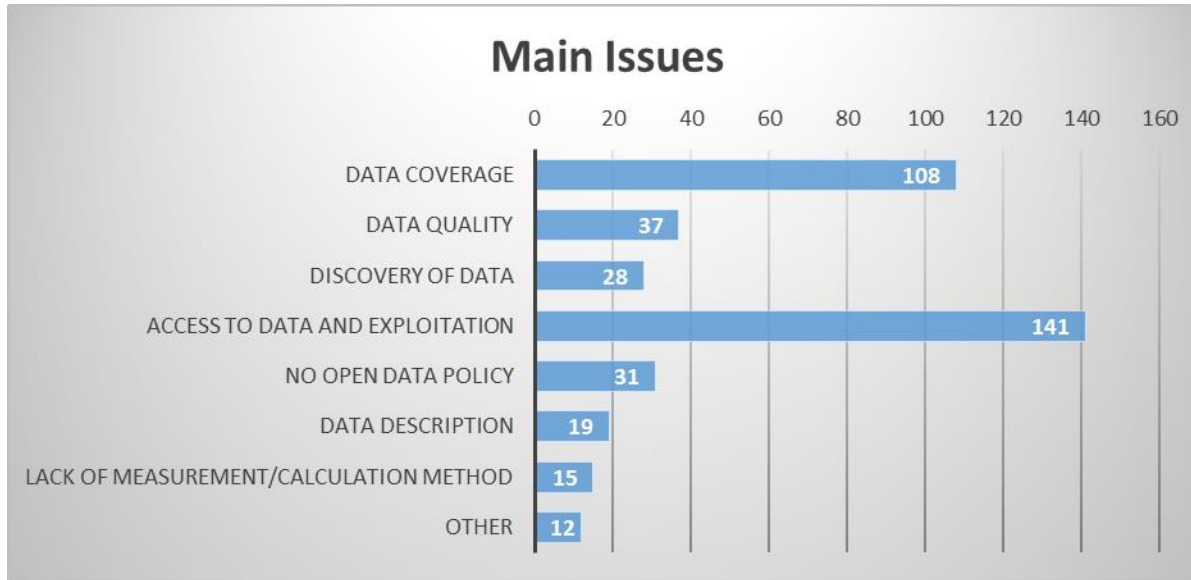
- 54 out of 80 participant did not know about ConnectinGEO and ENEON
- survey reached beyond the immediate project network
- also implies that further awareness for the activities is needed



- Only 10 out of 80 were not familiar with SDIs
- 2/3 aware/familiar with the OGC standards family

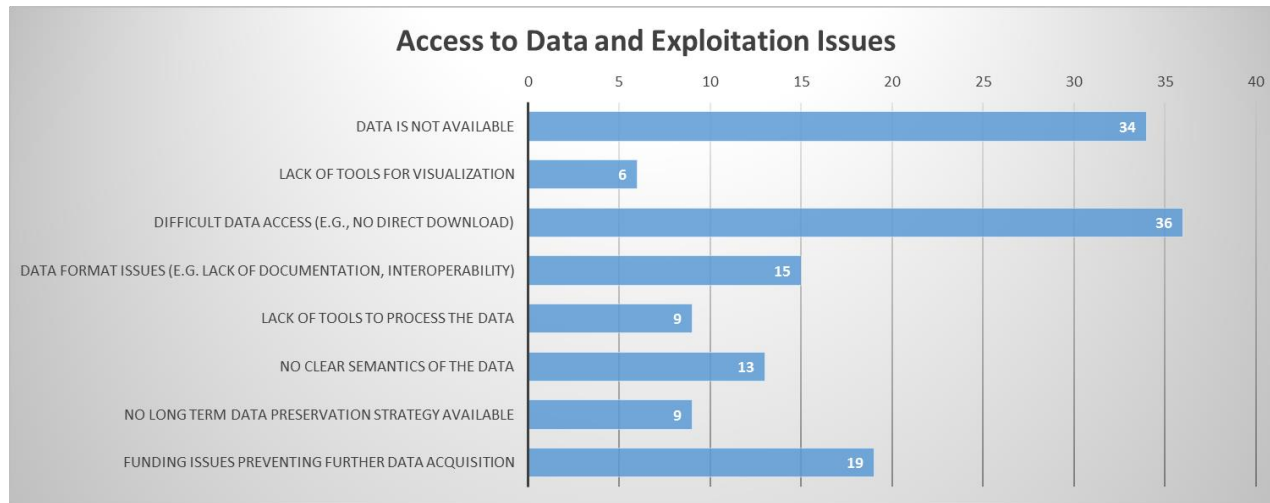


- About 1/4 have worked or interfaced OGC Sensor Web technology
- recommendation to further **promote the use of standards for enabling the interoperable sharing of observation data**



(please note: the categories in the diagram summarize multiple issues; survey participants were allowed to select multiple of these issues from a pre-defined list)

- most of the issues belong to
 - data coverage
 - data access/exploitation
- Followed by issues regarding
 - data offered under open data licenses
 - unclear/lacking data quality
 - insufficient discovery mechanisms



- **Details on Data Access & Exploitation issues**
 - lack of direct data downloads
 - need to contact many different data providers to access comprehensive data sets for larger regions
 - difficulties to deal with heterogeneous data formats
 - unclear semantics of the available data
- emphasizes the **relevance of several ConnectinGEO objectives**
 - promote standardization and interoperability
 - provision of metadata
 - encourage the sharing of observation data sets

- The Survey concluded with a section on suggestions, needs and wishes regarding observation data
- Technology needs
 - Central repository/portal offering discovery/access to data sets (7 responses)
 - Direct data download (in harmonized formats) (14 responses)
 - increased use of Linked Data technology
 - Public cloud infrastructures for processing of observation datasets
- Mentioned aspects are highly relevant for ConnectinGEO
 - emphasize the need for
 - better data discovery solutions
 - portals/tools for directly downloading the needed data sets
- Dataset needs
 - Highly diverse responses → corresponds with broad range of thematic backgrounds of participants
 - Still, satellite data relevant to nearly all domains → **desire for higher resolutions** (17 responses)
 - **Data needs on hydrological data** (e.g. river discharge, irrigation data, data on water extraction) and **climate data**

Thank you for your attention!

Details available in ConnectinGEO deliverable

D3.4 Report on observations, measurements and gaps in observation systems reported by the communities:

http://www.connectingeo.net/Docs%5CSubmittedDeliverables%5CD3_4_ReportOnObservations.pdf

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