OGC Innovation Program and Testbed-14 demo day

CLIENT TO WCS-EO 1.1 & REST FOR SWATH COVERAGE
MEEO’s Testbed-14 Threads

- **Thread 1**: Modeling, Portrayal, and Quality of Service (MoPoQ)
- Information Registries & Semantic Enablement
- Application Schema Modeling and Conversion
- Portrayal
- MapML
- Quality of Service & Experience (QoSE)
- Machine Learning, Deep Learning & Artificial Intelligence
- LiDAR Point Cloud Data Handling

- **Thread 2**: Earth Observation & Clouds (EOC)
  - Swath Data and the Climate Forecast Convention
  - Exploitation Platform

- **Thread 3**: Next Generation Services (NextGen)
  - Next Generation OGC Web Services, Federated Clouds, Security & Workflows
  - Complex Feature Handling
  - CityGML and Augmented Reality

- **Thread 4**: Compliance (CITE)
  - Compliance and Interoperability Testing
MEEO’s Testbed-14 Deliverables

- Compliance (CITE)
  - 2 ERs, 4 Components

- Earth Observation & Clouds (EOC)
  - 4 ERs, 14 Components

1 ER (contribution to D007)
1 Component (D137)

WCS server for SWATH data
(in-kind contribution)
MEEO’s Component Implementation Deliverable

- **D137** - Client to WCS-EO 1.1 & REST for Swath Coverage:
  - **Description:**
    - Swath Coverage Client to access data provided by D134 and D135 components (CloudSat and VIIRS)
    - Swath Coverage Client to use RESTful interface defined via OpenAPI definition
    - In-kind implementation of WCS server for MODIS and VIIRS SWATH data
MEEO’s Component Implementation Deliverable

- Demo
  - Access to CloudSat data (@EOX, @ASU)
  - Access to VIIRS data (@GMU, @MEEO)
  - Access to MODIS data (@MEEO)

- The testbed client is accessible at this link
Conclusions

• Swath data are heterogeneous

• OGC makes sense
  – WCS-EO specifications
    • The specification should support both machine-to-machine (e.g. automatized discovery, )and human interfaces (e.g. webGIS data discovery, access, visualization)
    • OpenAPI is suitable option to provide a standardized interface
  – WCS-EO implementation
    • Server side
    • Client side