

GEO Data Working Group

Programme Board

3 September 2020

Richard Moreno (Cnes)

Co-Chair

4 Elected Co Chairs

- Alena Rybkina, CODATA



- Anastasia Wahome, RCMRD



- Robert Downs, WDS



- Richard Moreno, CNES



Data Working Group Terms of Reference

Purpose

The Data Working Group (Data-WG) is convened to work with the GEO community and with external stakeholders to address data policy, data ethics and data governance issues impacting the use of Earth observations, thereby improving the uptake of Earth observations for decision making. In this way, the Working Group will support the translation of the Canberra Declaration into concrete actions within the GEO Work Programme.

Duties

- Monitor trends in international open data and data management practices, and produce trend analyses and recommendations, as appropriate, for revising the GEOSS Data Sharing Principles and the GEOSS Data Management Principles and Implementation Guidelines;
- Continue to promote the adoption and implementation of the GEOSS Data Sharing Principles and the GEOSS Data Management Principles globally.
- Advance discussions of critical data-related topics with stakeholder communities;
- Recommend ways for GEO to advance the interoperability of Earth observations and complementary data, products and services; and
- Identify, analyze, and describe best practices for, legal, ethical, privacy, intellectual property, and other related concerns with respect to the sharing and management of Earth observations data, information and knowledge resources.

Calendar

- . 1st DWG Call - July 2020
 - Co Chairs elected
- . 1st Co Chairs Meeting, July 2020
- . 2nd Co Chairs Meeting, August 2020
- . 2nd Call planned for 18th September 2020

Proposed Subgroups

1. In situ data
2. **Data Sharing and Data Management Principles:**
 - a. Guidelines for implementation, Best Practices,
 - b. Implementation in GEO WP
 - c. Data rights, Ethics, Legal, Privacy
 - d. Interoperability
 - e. Data Quality

Working Group Sub Groups suggestions

- Monitor trends to improve the Implementation Guides for the **GEOSS Data Management and Data Sharing Principles**, including identifying relationships to the FAIR and TRUST Principles.
- Data policy and **privacy** issues.
- Data Sharing (getting more open datasets),
- **Data Interoperability** (best practices for improving interoperability)
- Data standard; Data policy; Data products; validation and data quality; geospatial infrastructure and platform; **education and extension**
- Implementation of the Data Management Principles
- Data Management and Analysis Working Group
- The **in situ data** subgroup (ad hoc in situ group has been meeting periodically since January and the idea is it would be to absorb it into a more 'official' sub group under the DWG.
- Develop best practice **guidelines for implementation by GEO members** .
- **Data rights and legal issues** - ownership & responsibilities, law, protection, licenses, etc.
Institutional data policies - in support of open data
Data quality - ensure usability, metadata availability, etc.

- **Data access & awareness** - dissemination, outreach, etc.
- Stakeholders and data customisation, **Communication, Cooperation, and Coordination**
- Flexible enough to accommodate adhoc subgroups when need arises.
- Technical aspects in data sharing and interoperability, such as standards for interoperability, or for example aspects of **in situ** data sharing, and one subgroup with more focus on legal, ethical and privacy issues. But this also depends on the existing expertise the group.
- **Guidance** of what the **Program Board and Secretariat** see as the pressing needs, given their ability to see what the **Member countries need** . It would be good to keep the number of subgroups rather small to start to ensure we can achieve some goals early in the process.
- Data Management (DMP, DOI, Long term preservation, certification)
 Data Services (discovery, sharing, remote processing & development, ...)
 Interoperability (services (eg STAC, Opensearch, CSW, ...) & formats (NetCDF, ZARR, C
 Metadata
 - Legal / Ethical issues
- In each group, capacity of trend analysis and link to related organisations (RDA, CEOS, EOSC, ...)
- Principles and guidelines; Best practices; Advancing interoperability and integration

Future Engagement

- GIDTT
- WMO Data Conference
- CEOS WGISS Meeting
- RDA
- [GEO Week 2020](#)