

Ongoing Efforts by the Data Working Group on advancing Data Sharing and Data Management principles, Dialogue series, Self Assessment Tool

PB-25: 7-8 Feb 2023 Geneva, Switzerland Marie Francoise Voidrot, Bente Lilja Bye, Lionel Menard



# GEO Data Working Group - Motivation



The Data Survey the DWG has done confirmed the need for the GWP to support and develop capacity building on the Data Sharing and Data Management Principles



The GEO data sharing and data management principles needed to be advocated.

A dialog series to raise awareness about the principles and their expected benefits through engaging the members of the EO community to showcase their implementations, bringing their experience on challenges and benefits.





Recordings are published on the GEO Knowledge Hub and are available for publication for other communities. Advertised via social media campaigns, email lists and other channels.

The material is **delivered** as a contribution to the **Capacity development** in GEO. Self Assessment tool published and advertised

### Data management principles

# Why Now?

- Discoverability
- Accessibility
- {/} Encoding
- Documentation
- Provenance
- Quality control
- Preservation
- Verification
- Ø<sub>o</sub>
- Identifiers

- Data sharing principles were one of the pillars of first GEO 10 year implementation plan when establishing GEO in 2005.
- The data sharing principles where enhanced in the GEO strategy for 2015-2025.
- The Dialogues align the global understanding for further progress towards Artificial Intelligence, Machine Learning and any other sophisticated technologies that rely on good quality and well managed, preserved and curated data.
- A good opportunity to clarify the positioning of these GEO principles with more recent framework issued from other communities but related to Data Management such as FAIR, TRUST and CARE.

## Dialogue series:Perspectives & Structure

- In-Situ
- Law & Policy
  - Licencing
  - Other
- GEO work programme examples

















Review and processing

Identifiers

**HOT NOW: In-situ & licencing -> machine learning & AI ready -> faster uptake** 

Dialogue

Theory

+ Example

+

FAIR/CARE/TRUST complementarity

# Dialogue roadmap

Mondays from 16-17:30 CEST



- 5 September 2022: Data life cycle
- 12 September 2022: Data sharing principles
- 19 September 2022: Discoverability(DMP1)
- 26 September 2022: Accessibility (DMP 2)
- 3 October 2022: Usability (DPM3-6)
- 10 October 2022: Preservation (DMP7-DMP8)
- 17 October 2022: Curation (DMP9-DMP10)
- 24 October 2022: Data Management Self-Assessment Tool





























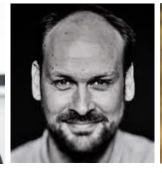






















































EEA

#### GEO Flagships

EO Biodiversity Observation Network	GEO Global Agricultural Monitoring	Global Forest Observation Initiative	Global Observation System for Mercury	
GEO BON	GEOGLAM	GFOI	GOS4M	

#### **GEO Initiatives**

AquaWatch	Data Access for Risk Management	Data Integration and Analysis System	Digital Earth Africa	Earth Observations for Ecosystem Accounting	Earth Observations for Health
AQUAWATCH	GEO-DARMA	DIAS	DE-AFRICA	EO4EA	EO4HEALTH
Earth Observations for the Sustainable Development Goals	GEO Capacity Building in North Africa, Middle East, Balkans and Black Sea Region	GEO Global Water Sustainability	GEO Human Planet	GEO Land Degradation Neutrality	GEO Vision for Energy
EO4SDG	GEO-CRADLE	GEOGLOWS	HUMAN-PLANET	GEO-LDN	GEO-VENER
GEO Wetlands	Geohazard Supersites and Natural Laboratories	Global Drought Information System	Global Network for Observations and Information in Mountain Environments	Global Observation System for Persistent Organic Pollutants	Global Urban Observation and Information
GEO-WETLANDS	GSNL	GDIS	GEO-MOUNTAINS	GOS4POPS	GUOI
Global Wildfire Information System	Oceans and Society: Blue Planet				

#### **GEO Community Activities**

Contributions and examples by members, participating organizations and associates from across the GEO activities





Making location count.

CREAF

13 member countries



#### Regional GEOs

African Group on Earth Observations	Americas Group on Earth Observations	Asia-Oceania Group on Earth Observations	European Group on Earth Observations	
AFRIGEO	AMERIGEO	AOGEO	EUROGEO	

#### Foundational Tasks

gement Priorities Coordination

GEOSS Data, Information and Knowledge

GEOSS Infrastructure Development

GEO Work Programme Support

GEO Secretariat Operations

### **Future**

The Dialogues had good feedback and have been appreciated.

They have advocated the difficult topics of in-situ, Law and Policy; Ethics.

They offer a forum to connect different communities, enabling cross-innovation from the different GEO Work Program initiatives, merging theory and practice, technology, and domain applications.

### What can be improved?

- Having less time pressure: the 1<sup>st</sup> series started in September and finished end of October. Making one each month could be a good rythm.
- · Involving more people out of Europe. More time will facilitate this.

We suggest following up with a new series in 2023