

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

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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

ADVOCATE

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.

ENGAGE

DELIVER

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

Why Now?

 Discoverability

 Accessibility

 Encoding

 Documentation

 Provenance

 Quality control

 Preservation

 Verification













 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 were 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

-  Discoverability
-  Accessibility
-  Encoding
-  Documentation
-  Provenance
-  Quality control
-  Preservation
-  Verification
-  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**







33 Speakers

from

4 Regional GEOs

240 attendees



Dor Edelist

Joan Masó

hendrik boogaard

Marie-Francoise Voidrot

Bente Lilja Bye, BLB, Norway

hendrik boogaard

Yubao Qiu (CBAS) Siri Jodha Singh...

GEO Secretariat: Paola De Sal...

Yubao Qiu (CBAS)

Siri Jodha Singh Khalsa

Gerrit Hendriks...

Nathalie Dees

Carlo Lacagnina...

Carlo Lacagnina (BSC, Spain)

Christoph Woh...

Marie-Francoise Voidrot-Martinez

Bente Lilja Bye

Lionel Menard

María Luisa

Alba Brobia

María Diaz

Benjamin Molina

Pauline Simpson

ADRIAN GUZMAN

nicolas FICHAUX

Benedit

María Luisa Quirte

Jim Young

Marie-Christine Jacquemot

Dominique Charles

Alba Brobia

Joan Masó

Alba Brobia

Iolanda maggio

Joan Maso

Claire Austin

Rabia Sa'id

Eugenio Trumpy

Eugenio Trumpy



GEO
INDIGENOUS
ALLIANCE



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

Making location count.



13
member
countries

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

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

GEO Community Activities					
Advancing Communication Infrastructure and Services ACIS	Arctic Geospatial Observation System ARCTIC-GEOSS	Chinese High-resolution Satellite Data Resources CSDR	Climate Observation, Simulation and Impacts CLIMATE-OBS	Copernicus Atmosphere Monitoring Service CAMS	Copernicus Climate Change Service C3S
DE-PACIFIC	EO4SEASAI-MONITORING	EO-IIP	EO4DRM	EO4MIN	ANTIC-EO
Geodesy for the Sendai Framework GEODESY4SENDAI	Global Agricultural Drought Monitoring AGRI-DROUGHT	Global Crop Pest and Disease Habitat Monitoring and Risk Forecasting CROP-PEST-MONITORING	Global Ecosystems and Environment Observation Analysis Research Cooperation GEOARC	Global Flood Awareness System GLOFAS	Global Flood Risk Monitoring GFRM
Global Land Cover LAND-COVER	Global Observation of Deltas and Estuaries DELTA-ESTUARY	In-Situ Observations and Applications for Ecosystem Status of China and Central Asia IN-SITU-ESC	Multi-source Synergized Quantitative Remote Sensing Products and Services MUSYQ	Next Generation Earth Observation Services NEXT-EOS	Night-Time Light Remote Sensing for Sustainable Development Goals NIGHT-LIGHT
Open Earth Alliance OEA	Space and Security SPACE-SECURITY	Space Climate Observatory SCO	The International Grand Global Ensemble TIGGE	Understanding the Impacts and Value of Earth Observations GEO-VALUE	Urban Heritage Climate Observatory UHCO

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

Foundational Tasks				
GEO Engagement Priorities Coordination	GEOSS Data, Information and Knowledge Resources	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 1st series started in September and finished end of October. Making one each month could be a good rhythm.
- Involving more people out of Europe. More time will facilitate this.

We suggest following up with a new series in 2023