

GEO Secretariat report

Data and Knowledge Update

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Executive summary

DATA
WORKING
GROUP

GEO
KNOWLEDGE
HUB

GEOSS
PLATFORM

FUTURE
EVENTS

_____ GEO Data Working Group (DWG)



IN SITU



DATA SHARING – DATA
MANAGEMENT
PRINCIPLES



LAW AND
POLICY



GEO Work Programme activities - survey



Prepared by the DWG, the GEOSS Platform and the GEO Secretariat.

Objective was to assess the GWP activities data related practices, challenges, actions, assess their knowledge about the GEO Data Sharing and Data Management Principles, and needs related to the GEOSS Platform.

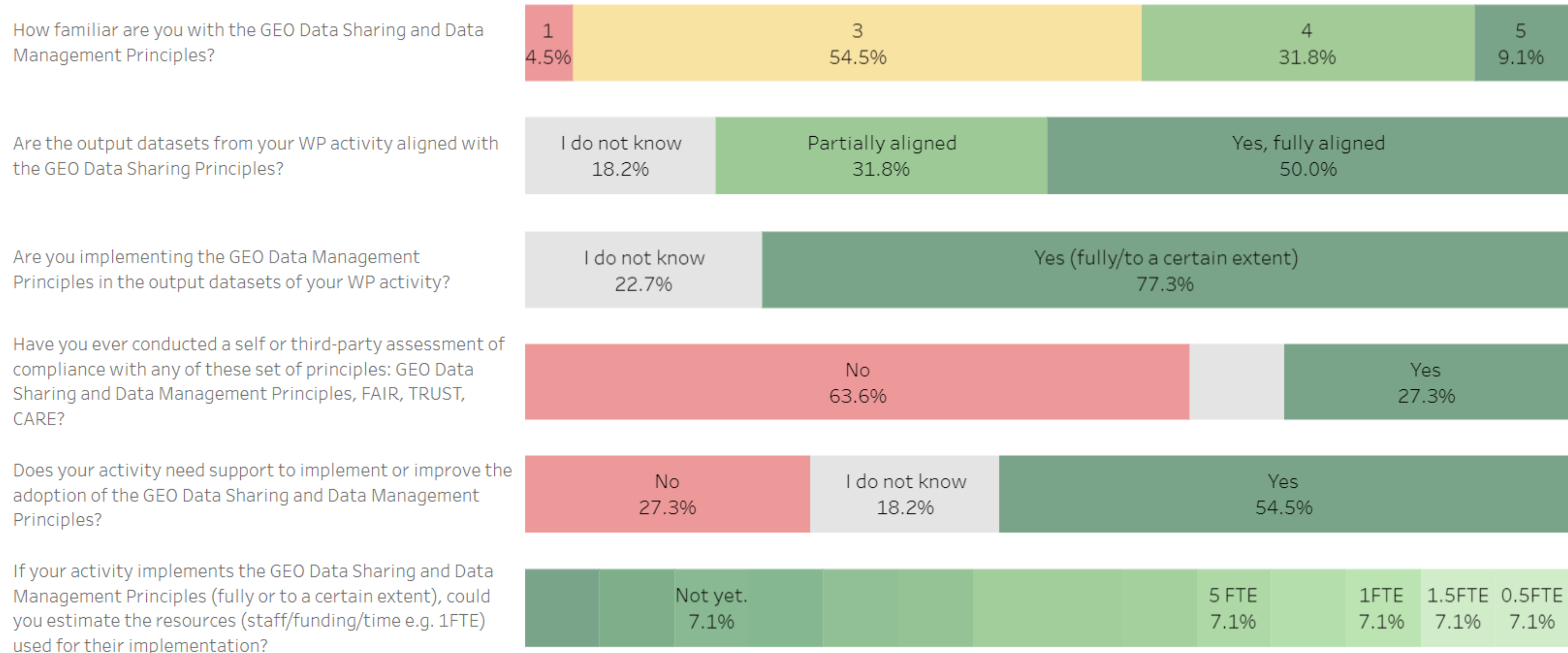
Launched in October 2021, using EU Survey (with support from EEA), 22 activities responded.

Results can be accessed [here](#).



GEO Work Programme Activities Data Analysis

Questions related to the implementation of GEO Data Sharing and Data Management Principles



GEO Work Programme activities – engagement calls

- GEO-TREES
- EO4Health
- GOS4M
- GLOBAL CROP PEST
- GEOGLoWS (TWIGA)
- GEO VENER
- GEOGLAM
- GEO Mountains
- GEO AquaWatch
- GEO Blue Planet

Planned (Sep/Oct):

- GOS4POPS
- GFOI
- GEO BON
- GSNL
- GEO Wetlands



GEO Work Programme activities – engagement calls



Inventory of data needs, especially **in situ** (unavailable data, restrictions, formats, accessibility) and key networks with which to engage.



Understanding of awareness about the **Data Sharing and Data Management Principles** and the support needed for their implementation.



Understanding of the **law and policy** about data used by the activities



Gathering feedback about the infrastructure needs for the enhancement of the **GEOSS Platform**



—— DS – DMPs Dialogue series

The GEO Data Sharing and Data Management Principles subgroup is running a webinar in a every Monday from 16:00 to 17:30 CEST to raise awareness about the GEO principles and their benefits. The webinars are aimed at all Earth observation stakeholders, including data producers, technology providers, scientists, researchers, business developers, decision makers and policy makers.

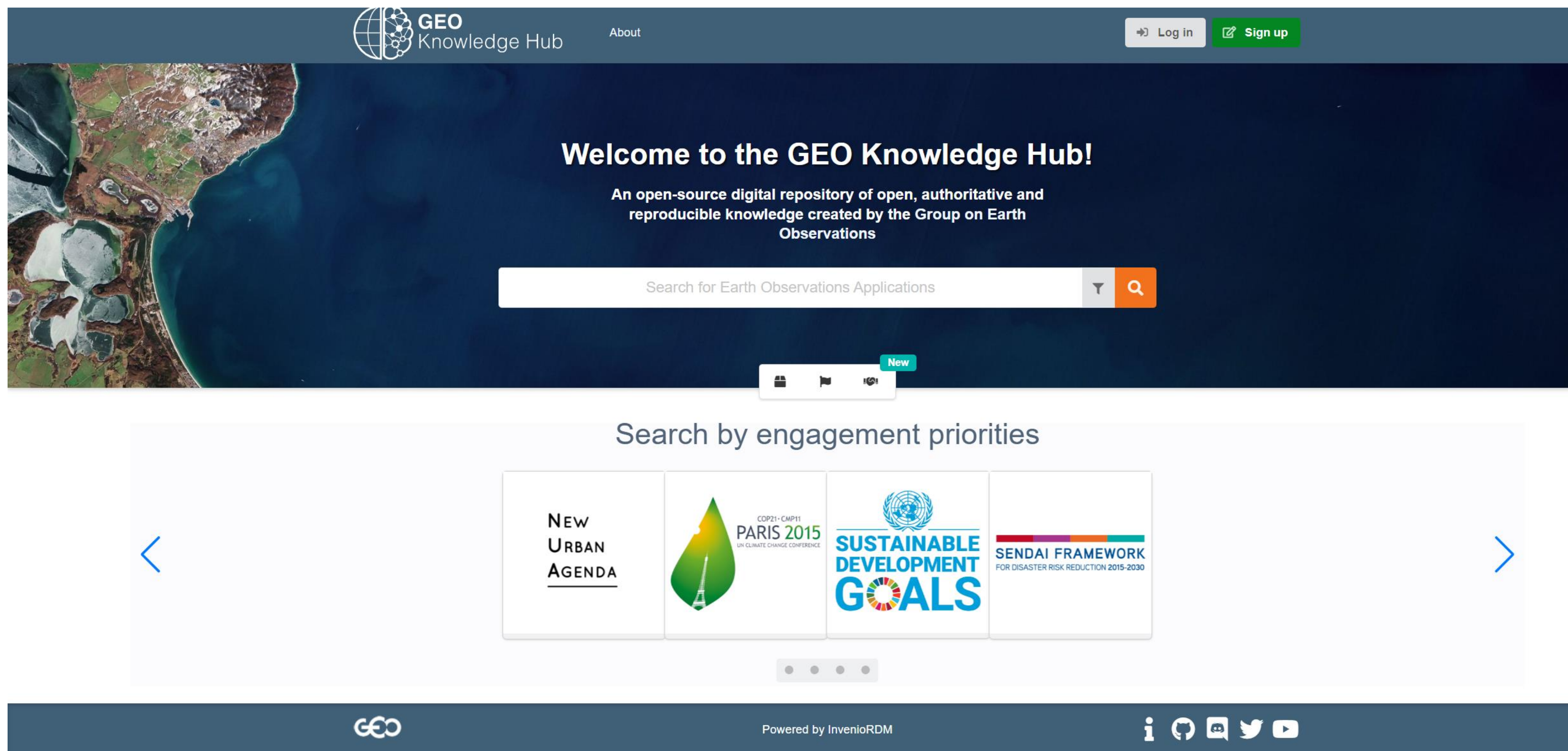
Members of the Earth observation community will discuss their experience implementing the principles, talk through how they tackled challenges and showcase the impact they realized.

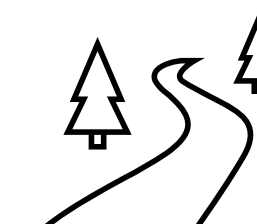
- Mondays from 16-17:30 CEST
- 5 September 2022: **A Data life cycle**
- 12 September 2022: **B Data sharing principles**
- 19 September 2022: **Discoverability(DMP1)**
- 26 September 2022: **Accessibility (DMP 2)**
- 3 October 2022: **Usability (DPM3-6)**
- 10 October 2022: **Preservation (DMP7-DMP8)**
- 17 October 2022: **Curation (DMP9-DMP10)**
- 24 October 2022: **Data Management Self-Assessment Tool**

https://earthobservations.org/geo_blog_obs.php?id=575

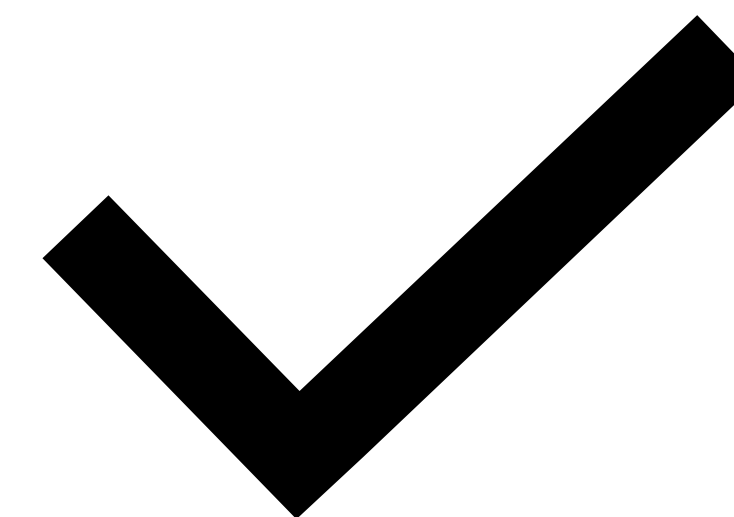
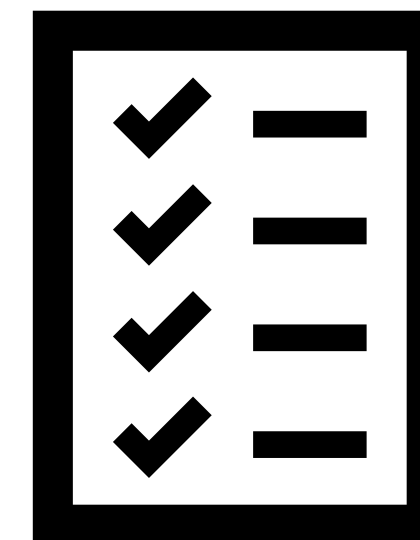


Progress on the GEO Knowledge Hub





2022-2023	
July 2021-December 2021	
Infrastructure	
Development of the Document Submission Knowledge Interface GEO Knowledge Hub (Operational v1)	Fully functional GKH (Operational v2) on a stable/fully supported hosting environment
Content and Engagement with GEO WP Activities	
Continue to engage the GEO community by registering additional Knowledge Packages provided by GWP activities.	Continue to engage the GEO community by registering additional Knowledge Packages provided by GWP activities.
Build communities around Knowledge Providers and its EO solutions; "streamline the communication strategy around this"	<p>Enable Knowledge Providers to register and update their Knowledge Packages on their own.</p> <p>Conduct an data and knowledge workshop to bring together the GEO community around the GKH.</p>
Users' uptake of the GEO Knowledge Hub	
Inform and promote the GKH through webinars with hands-on courses as well as examples of the Knowledge Packages.	<p>Create effective communication tools, such as flyers, websites, webinars, to explain and promote the GKH.</p> <p>Inform and promote the GKH through webinars with hands-on courses</p>



Where are we now?

Operational Platform with User and Knowledge Provider customized Interface & Functionalities

30 Open EO Applications discoverable and re-usable

Link with 2 EO ToolKits (Disasters and Urban)

Contribution from 12 GEO Work Programme Activities (many more in the pipeline)

GEO Knowledge Hub Live Demonstration

[GEO Knowledge Hub \(earthobservations.org\)](https://earthobservations.org)



Where are we going?

Advocate GKH uptake through an integrated Users strategy

Continue the engagement with GEO WP Activities
(30 new knowledge packages in the pipeline)

GKH as impact tool integrated in the National GEOs engagement strategy

Dedicated Open data and Open Knowledge workshop in 2023

GEOSS Platform

Expert Advisory Group

Plenary Ghana 2022

Open Data and Open Knowledge workshop 2023



The Data Working Group, the GEOSS Platform, the GEO Knowledge Hub are advocating the need to have a technical event to gather the GEO community in 2023

Objectives:

- ☐ Highlight ongoing efforts and align the GEO Community to the open and reproducible knowledge vision.
- ☐ Allow Data and Knowledge providers meet their targeted users
- ☐ Empower targeted users with open EO based applications in the various engagement priorities and main conventions
- ☐ Explore and discuss technological advancement that facilitate the open knowledge vision
- ☐ Update on technological aspects of GEOSS infrastructure.
- ☐ Map the linkages of data & knowledge providers with nexus integrated approach
- ☐ Discuss EO data and knowledge gaps and needs
- ☐ Leverage the role of the GKH in the capacity development and Impact strategy

Open Data and Open Knowledge workshop 2023



Where: Discussions are ongoing to host it in ESA

When: Tentative dates 27-31 March 2022 back to back with the CEOS-SIT meeting

Building the Organizing Committee

- ☐ •GEO Secretariat GKH
- ☐ Data Working Group
- ☐ GEOSS Platform
- ☐ Selected GWP Activities
- ☐ Funders
- ☐ PB: Member(s)



Open Data and Open Knowledge workshop

Initial ideas

- **Open EO Applications** for “Engagement priorities & Conventions”
- **Data Cubes Party**
- **Open EO Data** (Space based) - Global Efforts by domain
- **Open EO Data** (in situ) by domain and EVs
- **Discussion forum:** on Data Sharing and Data Management Principles, towards GEO open knowledge principles
- **In Situ data:** Gaps - How to advance towards better data sharing
- **GEOSS Platform** and GEO Work Programme Activities tighten the linkages
- Role of GKH & Capacity Development & National engagement strategy
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Thank you

Communicate and Collaborate with GEO

