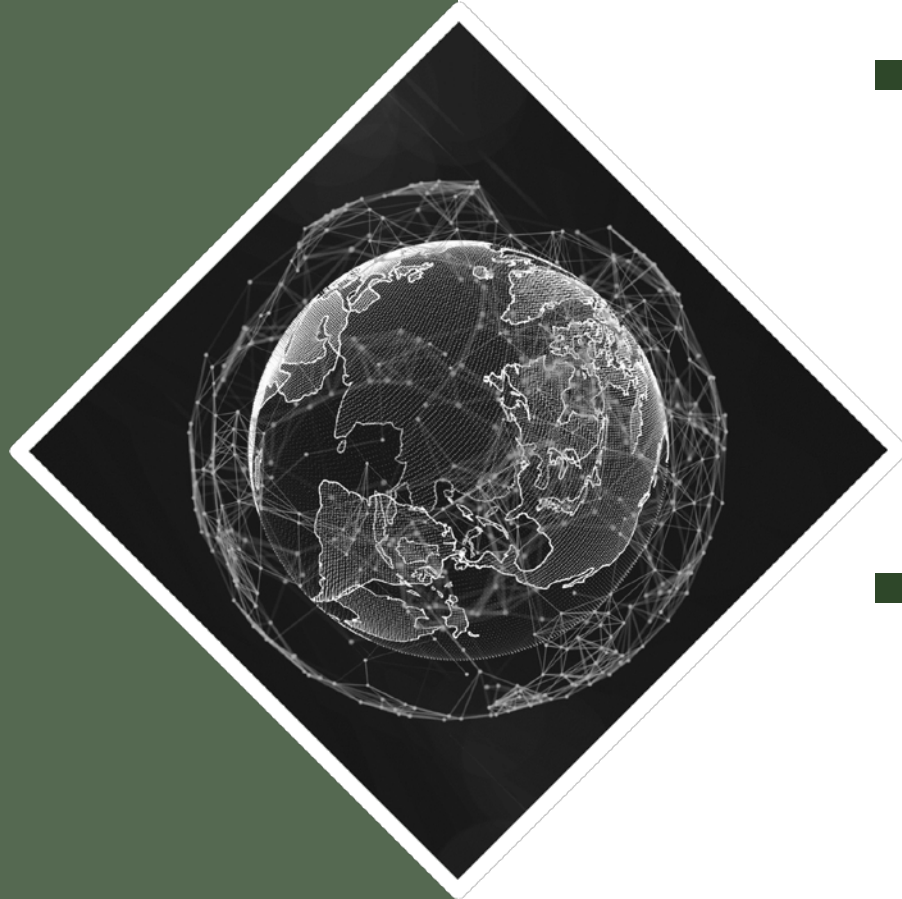


GEO In-situ Data subgroup

GEO: International Collaboration on Earth Observations



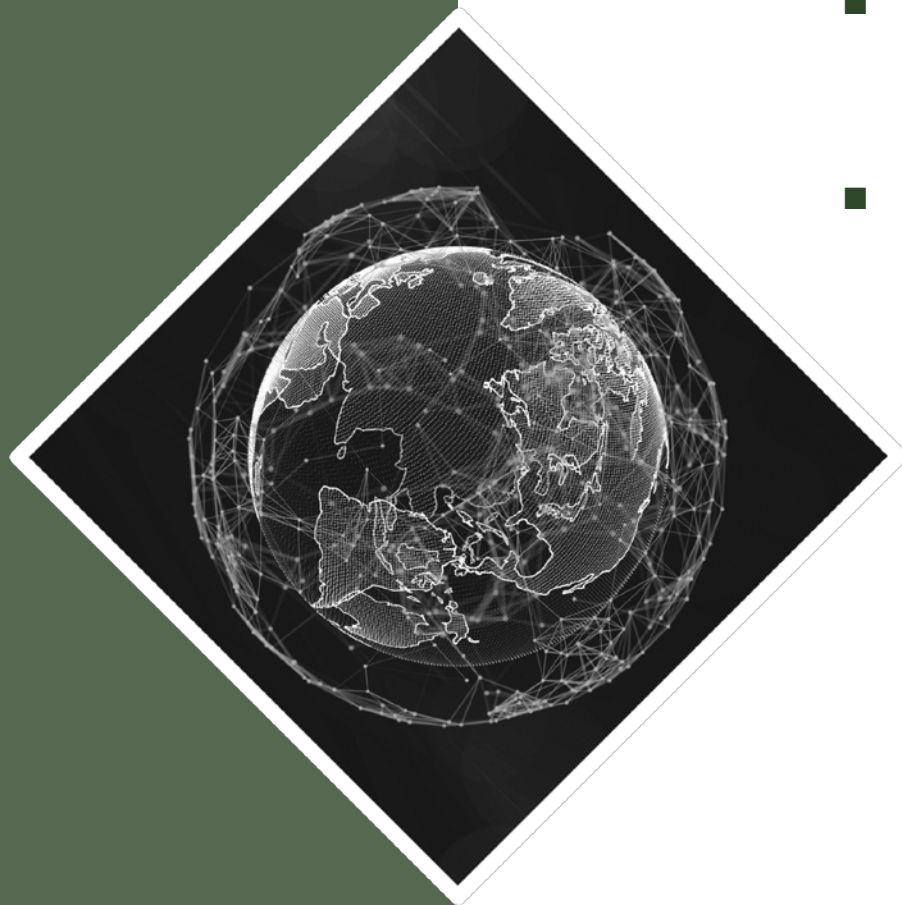
- What is the Group on Earth Observations (GEO) ?

International network of member government institutions, partner organizations, and associate commercial entities that collaboratively leverage Earth observations, including satellite and in-situ data, and related data products and services to improve the sustainable development and management of our environment.
- Who is involved?

GEO operates through collaborative stakeholder in-kind contributions from member government institutions, partner organizations, and associate commercial entities.

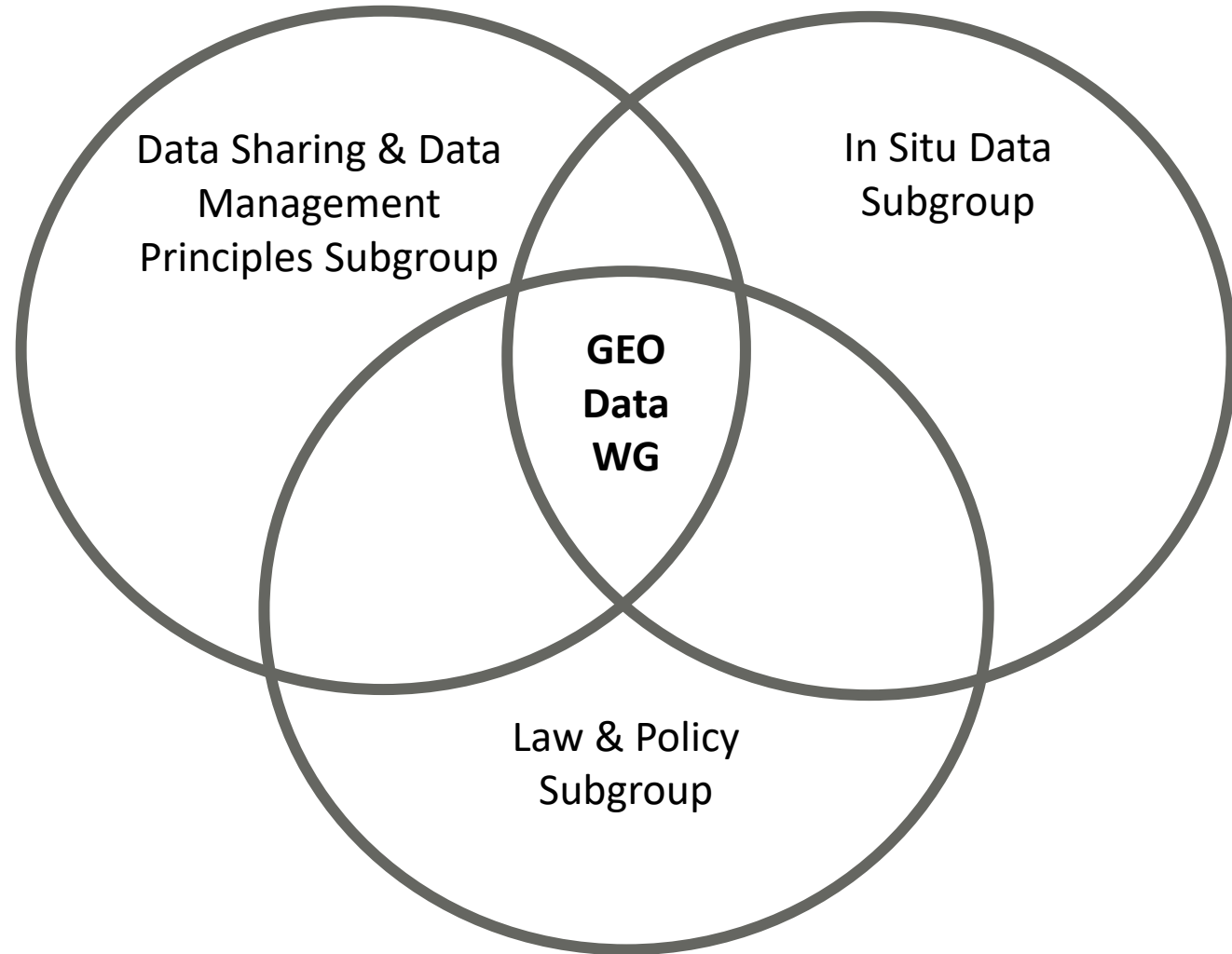
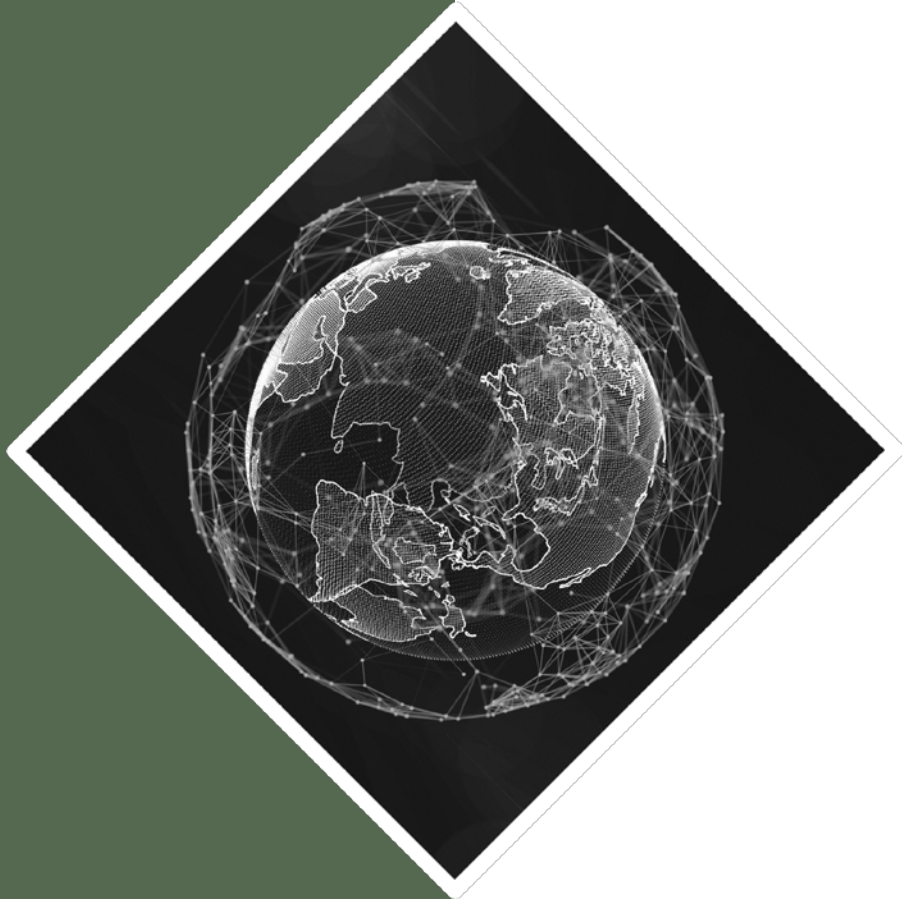
Each partner nominates representatives to serve on the GEO Executive Committee, Programme Board, and working groups.

GEO Data Working Group Objectives

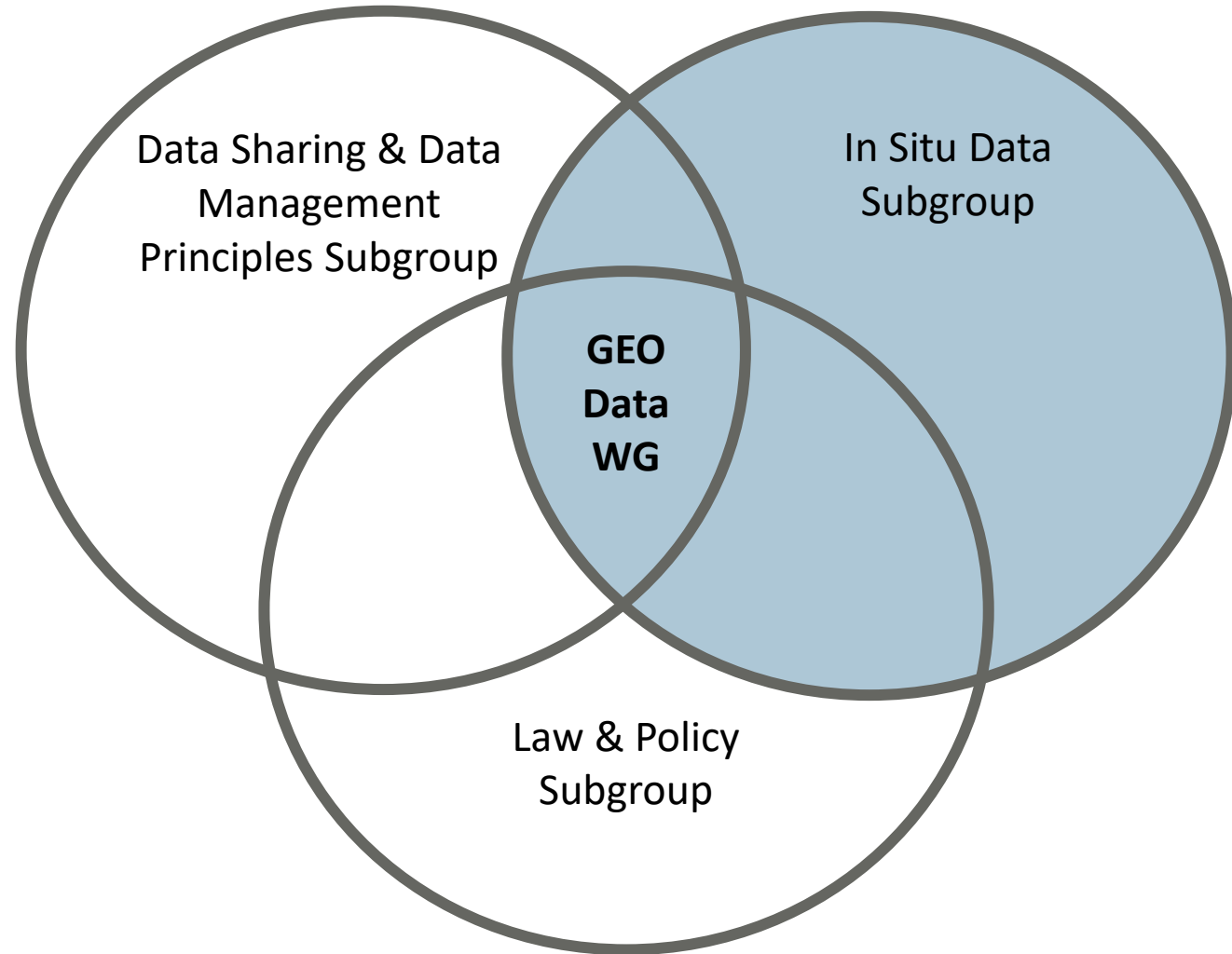
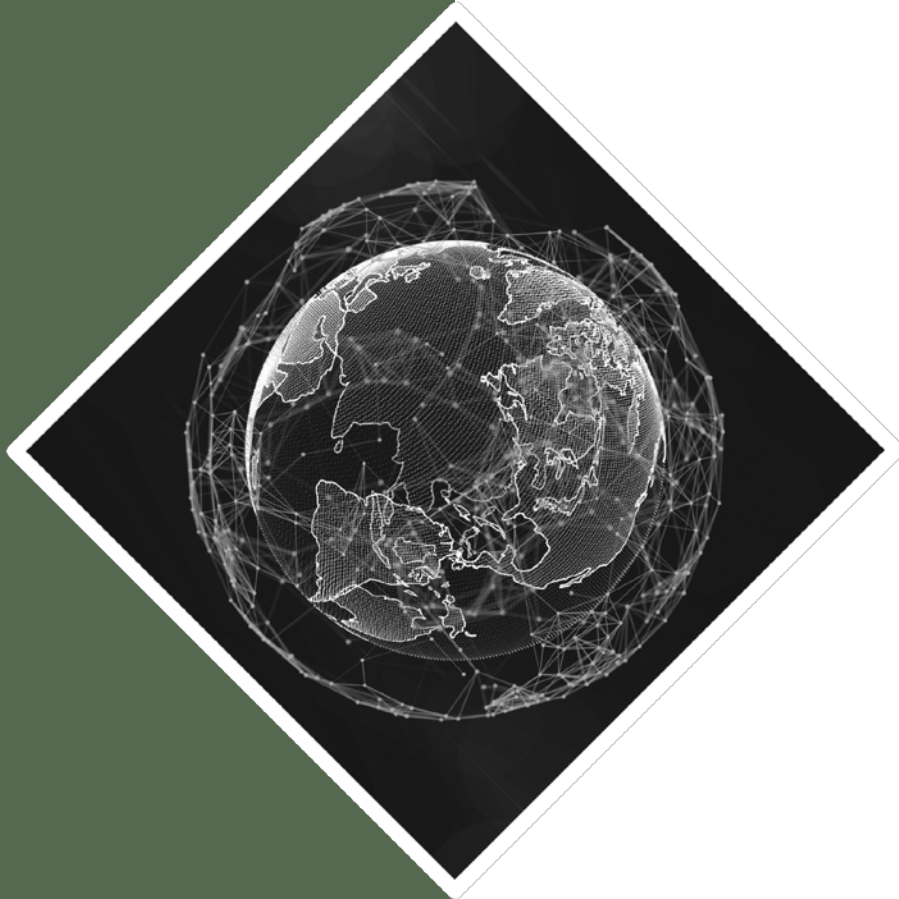


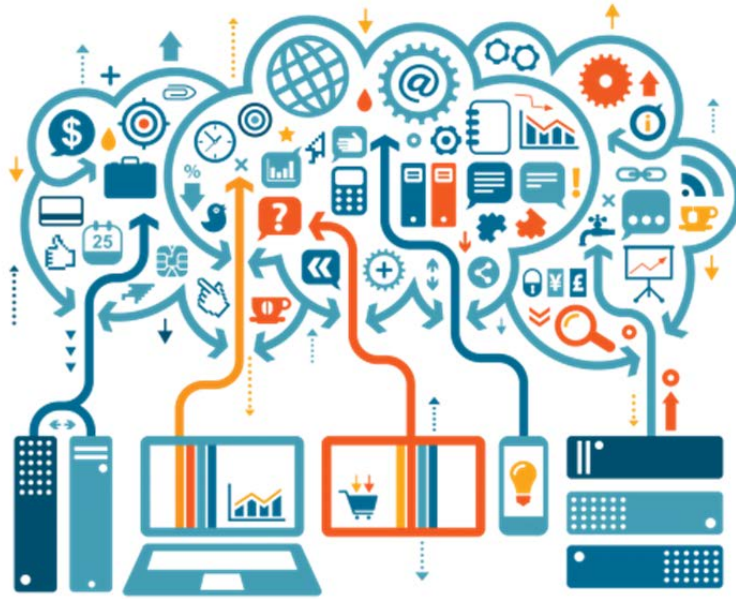
- GEO Data Working Group (WG): established in 2020 as part of the Foundational Activities of the GEO 2020-2022 Work Programme and renewed in the GEO 2023-2025 Work Programme.
- Working with community to address data policy, ethics, and governance issues to improve the use of Earth observations for decision making by:
 - *Monitoring open data and data management practices trends, internationally, to revise the GEO Data Sharing and Data Management Principles and Implementation Guidelines;*
 - *Promoting the adoption and implementation of the GEO Data Sharing and Data Management Principles;*
 - *Advancing discussions of critical data-related topics with stakeholder communities;*
 - *Recommending ways for advancing interoperability of Earth observations and complementary data, products and services;*
 - *Describing best practices for sharing and managing Earth observations data, information and knowledge resources.*

GEO Data Working Group



GEO Data Working Group

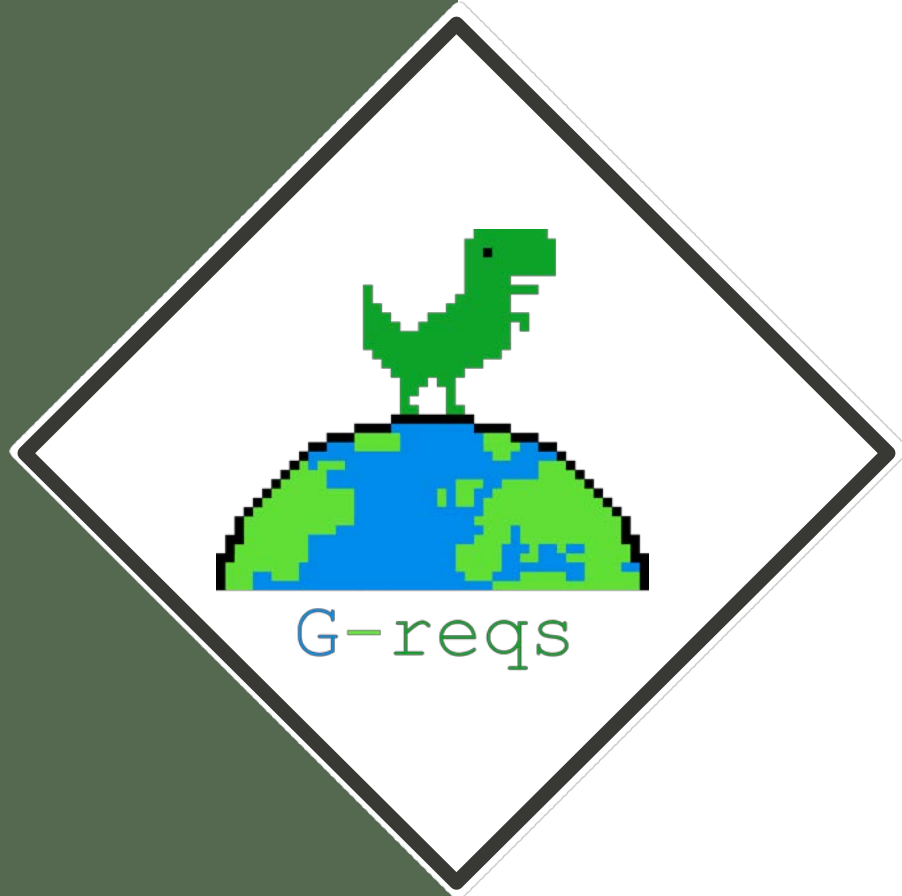




In-Situ Data subgroup: priorities

- *Characterisation of the in-situ data landscape including:*
 - *Common barriers to data sharing and re-use*
 - *Identifying/mapping/gap analysis of in-situ data providers within the GEOSS platform*
 - *Engaging with existing networks focused on domain level coordination of in-situ data*
 - *Engaging with GWP activities to identify specific challenges, data gaps and priorities*
- *Developing a first set of strategic objectives and advancing an in-situ data strategy for GEO*

G-reqs: capturing in-situ data requirements



- Part of the strategy of the In-situ Data subgroup of the GEO Data Working Group:
 - *to identify requirements for in-situ measurements from GWP activities, regional GEOs and other users*
 - *connect data providers with specific user requirements for data*
- G-reqs **database tool** and **standard methodology** designed to collect requirements for in-situ data from the GWP activities and relevant stakeholders within GEO.
- Key questions:
 - *do current in-situ datasets meet user requirements*
 - *Identifying barriers to access and use*
 - *Requirements for new in-situ data acquisition*

In-Situ Data subgroup: plans for 2024

Objective: continued development and promotion of a strategy for GEO that fosters sharing and re-use of in-situ data and knowledge

Priorities

- Capture and analyze requirements for in-situ data from GWP activities and other relevant actors e.g. Participating Organizations, regional GEOs, etc.

Achieved by:

- *Ongoing and continued dialogue with GWP activities including through direct interaction*
- *Supporting and encouraging wider use of G-Reqs tool to capture requirements for in-situ data including essential variables (EVs)*
- *Using outcomes of requirements gathering, make recommendations for addressing identified data gaps*

- Use selected GWP activities as use cases to identify the barriers that prevent use of in-situ data and find potential solutions to solve these problems to make data openly available and reusable.
- Create factsheets to showcase the benefits of sharing and re-use of in situ data across a wide range of applications e.g. calibration and validation of satellite-based EO data.
- Promote good practices that foster open sharing and re-use of in situ data throughout the GEO community using resources such as the GEO Knowledge Hub

Thank you!

Helen Glaves hmg@bgs.ac.uk

With thanks to: Joan Masó, Alba Brobia
and Robert Downs

