

# In-situ Data Strategy for GEO

**21<sup>th</sup> GEO Programme Board Meeting**

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*“Earth observations from diverse sources, including satellite, airborne, in situ platforms, and citizen observatories, when integrated together provide powerful tools for understanding the past and present conditions of Earth system components, as well as the interplay between them. GEO is a facilitator of policy-level dialogue on the importance and coordination of Earth observation systems (including ground-, air-, water- and space-based sensors, field surveys, and citizen observatories)<sup>1</sup>.”*

*<sup>1</sup> GEOSS Non-Space-Based Earth Observation Resources (GD-06) Task Team, “In Situ Observations: Coordination Needs and Benefits” (no page), included in the GEO 2016 Work Programme Progress Report*

# In-situ Data Strategy: Drivers

- Rapidly evolving and fragmented in-situ data landscape – identified as a challenge for GEO
- Canberra Declaration (November 2019):
  - recognises the critical role that data collected from the atmosphere, land, and water (in - situ data) plays in achieving GEO's mission;
  - calls for GEO community to develop a strategy to address the challenges in this area and to demonstrate progress in implementation
- GEO Mid-Term Evaluation (2021) called for improved availability and integration of in-situ data through the implementation of the GEOSS Data Sharing and Management Principles
- Formal request to provide this focused strategy document

# In-situ Data Strategy: Priorities

- A preliminary definition of the term ‘in situ-data’
- Characteristics of the in situ data landscape
- A first set of strategic objectives and an in-situ mission statement;
- Links to real world challenges;
- Potential role of GEO;
- Implementation of the Strategy (actions, roles and responsibilities)

# In-situ Data Strategy: Proposed Actions

- Review previous relevant documents including previous GEO Plenary and task group recommendations;
- Identify GEO initiatives and other relevant projects for application areas that may be used to highlight benefits of in-situ data sharing;
- Conduct an initial analysis of in situ data use, priorities, challenges, and requirements for selected key GEO Flagships and Initiatives;
- Identify/map GEOSS platform-brokered in situ data providers (including citizen science)
- Identify and showcase specific use cases to illustrate benefits, challenges, and the wealth of in situ data use

# In-situ Data Strategy: Request for feedback

- Key elements of the Strategy presented and their relevance
- Additional elements that should be included in the Strategy
- The proposed process and consultation phase as regards the involvement of stakeholders and timing;
- Implementation of the Strategy: roles, responsibilities and activities

# Thank You

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Communicate and Collaborate with GEO:

