What is GOS⁴M?
The Global Observation System for Mercury (GOS⁴M) is a GEO Flagship aimed to provide an infrastructure for knowledge generation to support the Minamata Convention on Mercury and the United Nations 2030 Agenda for Sustainable Development (SD).

Aim
GOS⁴M specifically aims to:
- Increase the availability and quality of observation data and information
- Federate on-going national & regional networks
- Harmonize SOPs for monitoring and metadata production, archiving and data sharing
- Contribute to the GEO Knowledge Hub to support Countries in the implementation of the Minamata Convention on mercury and assist interested parties in achieving the targets of UN 2030 Agenda for SD

What does it offer?
- High-quality and comparable data of mercury concentrations and fluxes in air, ocean and terrestrial ecosystems
- Validated models to assess the fate of mercury in air and oceans
- A fully integrated Knowledge Hub for assessing the effectiveness of policy measures

Outcomes
A Knowledge Hub to support decision-makers in the assessment of the effectiveness of measures by co-designing different policy scenarios at national or regional levels. The Knowledge Hub will permit the assessment of mercury fate, from sources to receptors, and estimate of costs associated with policies.

www.gos4m.org
The GOS\textsuperscript{4}M Knowledge Hub

From Observational Data to Knowledge

The GOS\textsuperscript{4}M Knowledge Hub as a contribution to the GEO Knowledge Hub integrates high-quality observational data, model outputs and digital tools to co-design policy scenarios and support policy makers in selecting cost-effective strategies that would allow a Nation or a Region to achieve the target(s) of environmental legislation. The Minamata Convention and the UN 2030 Agenda are the primary legal frameworks that the GOS\textsuperscript{4}M Knowledge Hub is designed to respond to. The Knowledge Hub is based on five knowledge pillars.

1. Knowledge Collection
   - Earth Observation data and products retrieving
   - Domain Expert

2. Knowledge Formalization
   - Information catalog (metadata creation) & Algorithms and models documentation construction
   - Domain Expert

3. Knowledge Sharing
   - End-User
   - Visualization Searching

4. Knowledge Use
   - Scenarios & Analyses
   - Domain Expert

5. Knowledge Generation
   - Decision maker
   - Policy maker
   - Economic assessment

Governance

The organizational structure of GOS\textsuperscript{4}M is comprised of the following Governing Bodies:
- A Steering Committee
- A Scientific Advisory Board

Members of each Governing Body are appointed every three years.

Each Governing Body shall elect a Chair and three co-Chairs among their Members.

More details will be defined at the first Flagship meeting.

How Participants may contribute

- By providing monitoring data, contributing to the co-design of policy scenarios, providing atmospheric and oceanic model output, contributing to socio-economic evaluations, supporting the development & validation of tools for data analysis and virtual interactive tools for end-users that will be part of the GOS\textsuperscript{4}M Knowledge Hub.
- By interacting with policy makers and stakeholders at national level.
- By participating at GEO meetings and in research projects that the GOS\textsuperscript{4}M community will develop in the near future.
- By joining the governance of the GOS\textsuperscript{4}M Flagship.

To get involved, contact:
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