





GEOSS Indicators Implementation Plan Overview

GEO Programme Board
6th Meeting
23-24 May 2017

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Outline

1. Context
2. Overview of the proposed approach
3. How indicators can help advance GEO
4. Phase 1 indicators (2017)
5. Suggestions for Phase 2 indicator topics (2018)
6. Data collection
7. Reporting
8. Work Programme Symposium consultation
9. Timeline to Plenary

Annex
–Table of proposed Phase 1 indicators



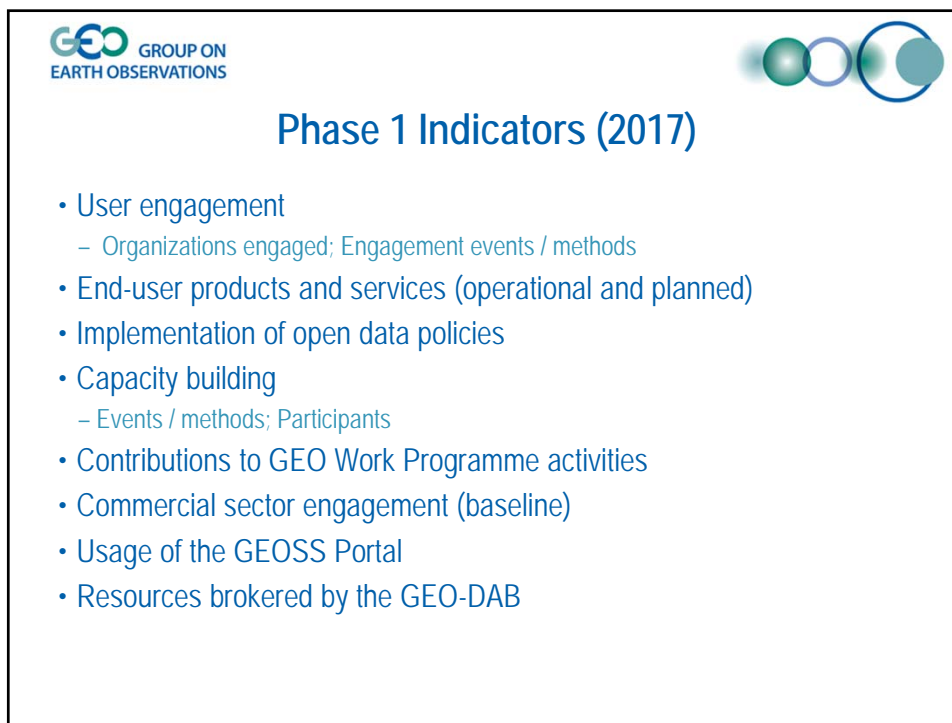
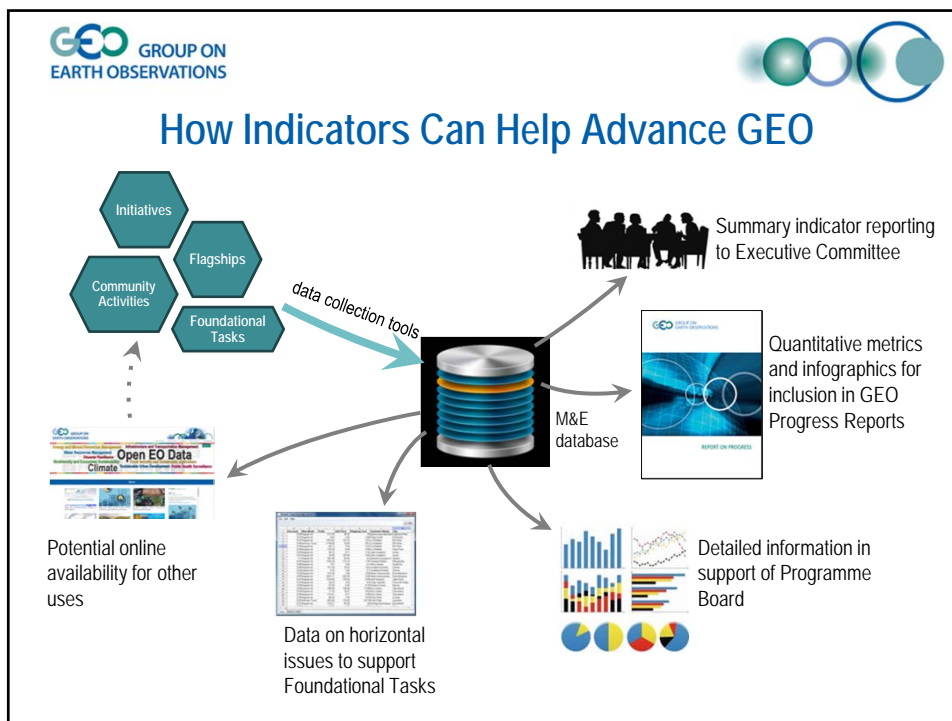
Context

- ExCom 39 approved a proposal to develop an implementation plan for a set of indicators to monitor progress on building GEOSS.
- These indicators should be aligned to the Core Functions in the 2016-2025 Strategic Plan, although the specific metrics may differ from those in the Strategic Plan Reference Document.
- The ultimate intent of the indicators should be to demonstrate the value-added of GEO. They should also support the work of the Programme Board in monitoring Work Programme implementation.
- The indicators should be designed to minimize reporting burden on GEO participants.



Overview of the Proposed Approach

- A small set (<20) indicators will be developed and tested over a period of 3 years, beginning in 2017.
- Once confirmed through the testing, the indicators will each be measured at least annually until 2025.
- The indicators will be phased in based on the readiness to implement data collection.
- Data collected to calculate the indicators will also support Programme Board's role in monitoring Work Programme implementation.
- Initial reporting on Phase 1 indicators is targeted for the 2017 Plenary.





Possible Phase 2 Indicator Topics (2018)

- Identification of gaps in user needs
- Awareness of GEO and GEOSS in target user groups
- Essential observation variables (identification, status of meeting)
- In-situ networks
- Progress on engagement priorities
 - Sustainable Development Goals
 - Climate Change
 - Disasters
- Usage of end-user applications, products, services
- Science and technology
 - e.g., publications using data made available through GEO



Data Collection

- Data for most (7 out of 10) of the Phase 1 indicators will be collected through direct contact between the Secretariat experts and Points of Contact in the GEO Flagships, Initiatives and Foundational Tasks.
 - Secretariat experts will use a common data collection tool with defined categories of responses to improve data consistency.
 - Most data collection for the 2017 indicators will occur in June and July.
 - Community Activities could be invited to participate – to maximize completeness of the data – but their participation would be voluntary.
- Data for the indicators based on the GEO-DAB and the GEOSS Portal will be collected through changes to existing automated tracking systems.
- Data for the indicator on data sharing policies will be collected through a new survey tool already being developed by the *Advancing GEOSS Data Sharing Principles* Foundational Task.



Reporting

- Propose that indicator reporting be integrated with the Work Programme Progress Report
 - Progress Report could be divided into short sections based on themes.
 - Thematic sections would include indicator results where available, as well as short text (e.g. highlights from WP activities)
- Possible themes would include:
 - Engagement priorities (SDGs, climate, disasters)
 - Work Programme contributions
 - User engagement and Capacity building
 - GCI (data sharing, use of GEO Portal)
- Mock-up of a proposed format to be presented to ExCom in July for feedback.



Work Programme Symposium Consultation

- The WPS provides an opportunity to consult with the broader GEO community on the plans for indicators and reporting.
- Break-out session on M&E is included in the agenda.
- M&E session will begin with summary of proposed approach (similar to current presentation).
- Suggested discussion topics:
 - Feedback on data collection approach and template
 - Future indicators, especially to address engagement priorities
 - Format and content of future Progress Reports
- Results of the consultation will be presented at the PB meeting.



Timeline to Plenary

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|------------------------------------|-----------------------------|
| • Data collection testing | • May |
| • WP Symposium break-out session | • 13 May |
| • PB 6th meeting | • 23-24 May |
| • Indicator data collection | • June – July |
| • Executive Committee 40th meeting | • 11-12 July |
| • Report preparation | • August |
| • PB 7th meeting | • Late August / early Sept. |
| • Plenary documents due | • 6 September |

Annex A : Proposed GEOSS Indicators for 2017

| # | Indicator | Core Function | Specific Metrics | Measurement Period | Data Sources | Unit of Observation | Attributes Collected Directly | Linked Attributes | Impl. Year |
|---|--|---|--|--------------------|--|--|---|---|------------|
| 1 | Engagement of user organizations | Identifying user needs and addressing gaps in the information chain | Number of user organizations involved in GEO Work Programme activities | Annual | GEO Secretariat experts in collaboration with IM points of contact | User organization | Member/PO affiliation Organization category Organization capability level | Membership category Implementation mechanism (category and specific) Societal Benefit Area | 2017 |
| 2 | User engagement events | Identifying user needs and addressing gaps in the information chain | Number of user engagement events offered by GEO Work Programme activities | Annual | GEO Secretariat experts in collaboration with IM points of contact | User engagement event | Event category Status (planned vs completed) Number of participants Date Location | Implementation mechanism (category and specific) Societal Benefit Area | 2017 |
| 3 | Contributions to the GEO Work Programme | Fostering partnerships and mobilize resources | Number of organizations contributing to the GEO Work Programme Estimated value of contributions to the GEO Work Programme | Annual | GEO Secretariat experts in collaboration with IM points of contact | Contribution | Member/PO affiliation Organization category Type of contribution (financial, in-kind) Source of funding Status (pledged, received) Value (identify currency) | Member/PO Membership category Implementation mechanism (category and specific) Societal Benefit Area | 2017 |
| 4 | Commercial sector engagement | Fostering partnerships and mobilize resources | Number of commercial sector organizations participating in GEO | Annual | GEO Secretariat experts in collaboration with IM points of contact | Commercial sector organization | Primary contact (individual) Location Type of participation Industry category Size (e.g., revenue category) Year that participation began | Implementation mechanism (category and specific) Societal Benefit Area | 2017 |
| 5 | Data and information resources available through the GEOSS Common Infrastructure | Advancing GEOSS and best practice in data management and sharing | Number of brokered data providers Number of registered resources | Semi-annual | GEO DAB reports | Data provider Brokered resource | Provider organization Member/PO affiliation Membership category Societal Benefit Area (by keywords) Resource type Accessibility Data access category Data redistribution category Data use category Location | 2017 | |

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|----|--|---|--|--------------------|--|--|---|--|------------|
| 6 | Usage of the GEOSS Portal | Advancing GEOSS and best practice in data management and sharing | Number of visits to the GEOSS Portal | Semi-annual | GEOSS Portal reports | User visit | Unique visitors Visitor location Pages per visit Bounce rate Returning visitors Use of views Task completions Data sets delivered Referring site | Societal Benefit Area (by search keywords) | 2017 |
| 7 | Implementation of open data policies | Advancing GEOSS and best practice in data management and sharing | Number of organizations that have implemented open data policies for earth observations data | Biennial | Annual Information Request to National Contact Points for Data Sharing | Data provider organization | Member/PO affiliation Policy level (national, agency) Degree of openness Type of licence | Membership category | 2017 |
| 8 | GEO capacity-building activities | Cultivating awareness, building capacity and promoting innovation | Number of capacity-building activities conducted | Annual | GEO Secretariat experts in collaboration with IM points of contact | Capacity building activity | Event name Status (planned vs completed) Organization category (delivery organization) Member/PO affiliation (delivery organization) Organization category (target organization) Organization capability level Location | Membership category Implementation mechanism (category and specific) Societal Benefit Area | 2017 |
| 9 | Individuals participating in GEO capacity-building | Cultivating awareness, building capacity and promoting innovation | Number of individual participants in capacity-building activities | Annual | GEO Secretariat experts in collaboration with IM points of contact | Individual capacity-building participant | Event (specific) Member/PO affiliation Organization affiliation User capability level User occupational category | Membership category Implementation mechanism (category and specific) Societal Benefit Area | 2017 |
| 10 | Development of end-user products and services | Implementing sustained global and regional services | Number of end-user products or services developed through GEO Work Programme activities | Annual | GEO Secretariat experts in collaboration with IM points of contact | End user product or service | Name of service Status (planned vs completed) Intended users category Service or product category | Implementation Mechanism (category and specific) Societal Benefit Area | 2017 |