Special Session on Disaster Risk Reduction

**Gaps and Opportunities**

- Involvement in risk assessment activities in national platforms, especially in pilot countries.
- Open access to high resolution commercial digital elevation model products.
- Showing value of information/data for decision making.
- Consider how to connect EO information to potential solutions.
- Translate impacts into metrics (eg financial) used by decision makers.
- Recognize the importance of trust in the information by decision makers in influencing its use.
- Growing interest in biodiversity community on supporting natural solutions.
- Use GEO POs to a greater extent to address gaps in the GWP.
- Moving from hazard to risk assessment: combining hazard information with exposure information, eg population, buildings, natural assets, socioeconomic. Compare exposure to hazards at varying intensities.
**Special Session on Disaster Risk Reduction**

**Possible Actions**

- Determine how the new Disaster Resilience WG can contribute.
- GEO involvement in GRAF WGs, eg risk communications.
- Review GWP activities (and external activities) that can contribute to the GAR 2021 report on drought, eg GEOGLAM, GWP activities on drought. Also in GRAF more broadly.
- Identify gaps for which there is not currently a GWP activity.
- Identify potential funding sources for a Secretariat expert on DRR, and to support GWP activities.
- Engage GEO participants who work in civil protection and other disaster-related areas to better understand requirements.
- Encourage involvement in the GWP of new organizations / individuals. Identify other actors, eg IUCN, that are also interested in these issues. Be clearer in our communications that GWP activities are open to new participants.
- UNDRR to consider involvement in GEO DR WG.
- Look at potential projects, including partners in member states, targeting use of information; aim at funding via large international funds.
- UNDRR to identify some specific EO information needs.

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**Session 1 – Setting the Context**

**1.2 Adoption of the Agenda**

- Approved with the addition of a short address by a member of an indigenous community in Brazil. Item 4.4 PB Plan of Work to be discussed at the end of Thursday.

**1.3 ExCom 49 & 50 Outcomes**

- Discussion of commercial sector involvement and the GID TT ToR to be deferred to item 4.4.

**1.4 GEO-XVI and Canberra Ministerial Outcomes**

- **Action 16-01**: Secretariat to circulate to PB the GEO Week 2019 report on feedback and lessons learned that will be submitted to ExCom 51.

**1.5 Changes to the GWP**

- PB took note of the changes.
### Session 2 – Requests from the Executive Committee

#### 2.1 Terms of Reference for GWP Working Groups
- PB members indicated their interest in revising the draft ToRs. The Secretariat was asked to circulate editable versions of the ToRs to PB members as soon as possible, and PB members were asked to provide their proposed specific text changes by end of day 6 February. The Secretariat would then present the compiled proposed changes to PB on 7 February.
- PB reviewed the proposed changes and approved some of them (see appended WG ToRs).

#### 2.2 External Engagement Plan for 2020
- Secretariat will consider where revisions may be made to the document to reflect comments from PB members.
  - **Action 16-02**: Secretariat to prepare a report on the results achieved in implementation of the 2017-2019 engagement plan.

### Session 2 – Requests from the Executive Committee

#### 2.3 Implementation Plan for the GEO Knowledge Hub
- PB members expressed their concern regarding the time available for consultation within the GID Task Team. PB requested that a new timeline be prepared, with another version of the implementation plan to be brought to the PB following completion of the consultation with the Task Team.
- PB approved the revised timeline proposed by the Secretariat (see next slide).
Revised Timeline for the GKH Implementation Plan

Version 2
• February 28: version 2 sent to GIDTT for comments and revisions.
• March 2-20: comments on version 2 from GIDTT (3 weeks).

Version 3
• April 10: version 3 sent to GIDTT for comments and revisions.
• April 13-30: comments on version 3 from GIDTT (3 weeks).
• April 27-30: GIDTT meeting, preferably face to face (host: Germany?).

Version 4
• May 15: version 4 sent to the PB.
• May 18-June 5: comments on version 4 from PB members (3 weeks).

Final version
• June 15-19: presentation to PB and GEO Symposium.
• June 16: Executive Committee documents due.
• July 7-8: Executive Committee decision.

Session 2 – Requests from the Executive Committee

2.4 GEO-Google Earth Engine Programme
• PB members provided several comments regarding lessons for similar future arrangements, which were noted by the Secretariat.
• The European Commission stated that it was not able to come to a fully informed and final decision on the document PB-16.08 on the nomination and mode of selection of reviewers due to lack of information on the content and implications of the proposed GEO-GEE collaboration program.
• PB members were invited to participate in the review of proposals. ESIP (K.Fontaine) volunteered.
• Action 16-03: Additional volunteers should contact the Secretariat (D.Cripe). Due: 15 March 2020.
Session 3 – GEO Work Programme Implementation

3.1 Engagement of GWP Activities
• PB approved the proposed approach for engagement of GWP activities, the list of teams and the alignment of GWP activities to the teams, as in the document.
• Action: PB members to indicate their preferred team assignments. Due: 21 February.

3.2 GEO Symposium
• PB approved the terms of reference for the Symposium 2020 SG, as revised (see next two slides).
• Nominations: France, CEOS, ESIP, IUGG
• Action 16-04: PB members to provide nominations to the SG. Due 21 Feb.
• Action 16-05: Secretariat to develop a 3-year plan of the key themes of future GEO events (Plenary, Symposium, Data and Knowledge Week). Due: PB-17.

Objectives of the Symposium – as revised by PB

Theme: Capacity development for the Work Programme
• Improved coordination in engaging UN organizations
• Increased interest in contributing reproducible knowledge
• Identified opportunities of using advanced technologies
• Increased understanding of data ethics issues
• Capacity building on resource mobilization
• Better understanding of diversity by GWP teams
• Increased knowledge in engaging indigenous community
• Better coordination and collaboration among Regional GEOS
• Continued identification of collaborations among GWP
• Continued identification of any key gaps
Draft ToR of the 2020 Symposium Subgroup – as revised by PB

Duties
- Define refine the theme and main objectives of the GEO Symposium based on PB-16 discussion
- Develop the agenda of the GEO Symposium
- Identify and contact the potential speakers of the Symposium
- Play an active role in operating the Symposium

Work Arrangement
- A lead selected to coordinate the work of the subgroup
- Work mainly through teleconferences and emails
- GEO Secretariat provides administrative support

Session 4 – Programme Board Business

4.1 Urban Resilience SG
- PB approved the terms of reference for the Subgroup, as revised (see appended document).

4.2 Equality, Diversity and Inclusion SG
- PB approved the terms of reference for the Subgroup.
- Initial nominations were received from: United Kingdom (Natalie, lead), China, Norway (Bente), South Africa, United States (Ivan), GEOsec (Patricia).
- **Action 16-06**: PB members to inform the Secretariat of additional nominations, including from individuals who are not PB representatives. Due: 21 February.

Visit by Chief Almir Surui
- PB thanked Chief Almir of the Surui people for sharing his experiences, including the use of Earth observations by his community.
Session 4 – Programme Board Business

4.3 Awards SG

- PB approved the continuance of the Awards SG for 2020.
- Nominations: ESIP.
- **Action 16-07**: PB members to inform the Secretariat of additional nominations, including from individuals who are not PB representatives. Due: 21 Feb.
- **Action 16-08**: Awards SG to develop a draft ToR for PB approval. Due: PB-17.
- **Action 16-09**: Awards SG to consider whether a second award category should be created, e.g. lifetime achievement in GEO.
- **Action 16-10**: Awards SG to produce written guidelines to ensure there is a common understanding within the group and the knowledge is transferred to future teams.

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Session 4 – Programme Board Business

4.4 Programme Board Plan of Work for 2020

1. Engagement teams requested to begin efforts on cross-interaction among relevant GWP activities. **Priority 1** *(begin now)*
2. Diversity – Addressed in item 4.2 **Priority 1**
3. Private sector engagement – SG to be created. Members: Australia, Canada, European Commission, France, Norway, South Africa, United States, IAG, GEOSec. **Priority 1**
4. Resource guide – Australia and IAG to define scope. **Priority 2** *(as time permits)*
5. UN Habitat – Urban Resilience TF/SG to lead. **Priority 1**
6. Working Group ToRs – Addressed in item 2.1. **Priority 1**
7. GKH IP – Addressed in item 2.3. **Priority 1**
8. GEO Awards – Addressed in item 4.3. **Priority 1**
9. Google offer re GWP results in GEE – Issue to be referred to the Data WG and/or a PB subgroup, to be determined at a later meeting. **Priority 2**
Session 4 – Programme Board Business

4.4 Programme Board Plan of Work for 2020

10. Results of cloud services programmes – Action 16-11: Sec to report results achieved in the programmes. Due: Following completion of the programmes. Priority 2

11. Youth engagement – refer to the EDI SG. Reflect in future event planning. Some existing activities may also be relevant, eg citizen science, proposed new CA on cultural heritage. Priority 1

12. Regional GEO coordination – refer to the Regional engagement team. Priority 1

13. GEO Symposium – Addressed in item 3.2. Priority 1

14. Reproducibility crisis – refer to GKH team. Priority 2

15. DRR – Addressed in the special session. PB should have more of this type of session in future meetings. Priority 1

16. Canberra Declaration – Reviewed in 1.4. ExCom will likely address. Priority 1

Attendance

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Capacity Development Working Group
Terms of Reference

Purpose
The Capacity Development Working Group (CD-WG) is convened to facilitate GEO’s efforts on capacity development, promoting the principle of co-creation and providing conceptual support to the design, development, implementation and evaluation of capacity development activities at various levels of intervention. In this way, the Working Group will support the translation of the Canberra Declaration into concrete actions within the GEO Work Programme.

Duties
- Support GEO Flagships, Initiatives and Regional GEOs, on request, in the design, implementation, and evaluation of capacity development interventions.
- Develop, improve, and provide capacity development tools for use by the GEO community.
- Collect, document, and share good practices for capacity development related to Earth observations.
- Organize seminars, teleconferences, side-events and other means for disseminating information related to capacity development for Earth observations;
- Support the planning and implementation of impact assessments for capacity development activities within GEO.

Membership
- Membership in the Working Group is by nomination from GEO Members, Participating Organizations, and Associates. As appropriate, the Programme Board may also invite other qualified individuals to participate as members in the Working Group.
- Participation is encouraged from individuals having training or experience in the development, delivery and/or evaluation of capacity development activities, or are past or potential future participants in capacity development activities.
- In the interest of ensuring diversity and balance in the Working Group membership, the Programme Board may place limits on the number of members from individual GEO Members, Participating Organizations, or Associates or by specific categories. Participation of commercial entities is welcomed but will be limited to a maximum of two members.

Working Arrangements
- There will be at least two co-chairs of the Working Group, who will be selected by and from among the Working Group members. Preference in the selection of co-chairs will be given to representatives from the Regional GEOs.
• The Working Group will meet at such times and places as determined by its members. Most work will occur through teleconferences and e-mail.

• The Working Group will provide periodic (at least annual) reports on its activities to the Programme Board as part of GEO Work Programme monitoring. It may also bring specific issues to the Programme Board as needed.

• The Working Group may establish subgroups to assist in fulfilling its duties.

• Administrative support to the Working Group will be provided by the GEO Secretariat.

**Duration**

These Terms of Reference will remain in effect for the period of the 2020-2022 GEO Work Programme. They may be revised with the approval of the Programme Board.
Climate Change Working Group
Terms of Reference

Purpose
The Climate Change Working Group (CC-WG) is convened to develop and implement a comprehensive GEO climate change action strategy to advance the use of Earth observations in support of climate adaptation and mitigation, including as relevant and appropriate, actions related to the pillars of the Paris Agreement adopted under the United Nations Framework Convention on Climate Change (UNFCCC). In this way, the Working Group will support the translation of the Canberra Declaration into concrete actions within the GEO Work Programme.

Duties
- Review the implementation plans of all GEO Work Programme activities relevant to climate change to identify potential disconnect and synergy opportunities among them to be addressed;
- Assess from these GEO Work Programme activities where GEO is best placed to act and recommend actions to be taken by GEO/activity leads in relation to key issues, e.g., climate modelling/science, mitigation, adaptation, and other relevant areas of the UNFCCC/Paris Agreement;
- Facilitate communication between the leads and participants of these GEO Work Programme activities and between them and relevant partners, including through the organization of dedicated meetings and workshops;
- Stimulate the initiation of projects and case studies involving participants from multiple GEO Work Programme activities to enhance collaboration across GEO and to address identified disconnect, opportunities, or actions in relation to key issues;
- Assess how GEO can work with its member countries and partners to advance the collection and use of Earth observations, particularly in situ, that are needed to support countries’ and international organizations’ work on climate science and assessments, reduce uncertainty in climate modeling, and enhance societal response strategies;
- Assess how GEO can support countries in the submission of reports and other communications under the UNFCCC/Paris Agreement through the enhanced use of Earth observations, including, as applicable, nationally determined contributions (NDCs), national communications, adaptation communications, and biennial transparency reports (BTRs);
- Assess how GEO can support countries in their National Adaptation Plan (NAP) process and approaches to to avert, minimize and address loss and damage, including formulating supplementary guidance on the use and potential of Earth observations for the monitoring and assessment of climate change impacts, vulnerability, risks and adaptation responses over multiple sectors and scales;
• Assess how GEO can support countries in the improvement of national greenhouse gas inventories over time through the enhanced use of Earth observations, consistent with the 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories;

• Identify gaps in terms of Earth observations that are requisite to the work of the IPCC and others conducting climate assessments, and leverage GEO partnerships and resources to provide the additional Earth observations needed to support decision making. Support the IPCC in its Sixth Assessment Cycle, particularly by participating in the expert reviews in preparation of the IPCC’s Sixth Assessment Report due to be published in 2021-2022;

• Identify efficient forms of mutually beneficial collaboration between GEO and WMO in the areas of climate change, including the Global Framework for Climate Services (GFCS), the Global Climate Observing System (GCOS) and the Global Atmosphere Watch (GAW);

• Increase GEO’s participation and visibility, as appropriate, in IPCC sessions, UNFCCC Conferences of the Parties (COPs), Subsidiary Body for Scientific and Technological Advice (SBSTA) sessions and other UNFCCC constituted bodies’ meetings, as well as other relevant fora.

Membership

• Membership in the Working Group is by nomination from GEO Members, Participating Organizations, and Associates. As appropriate, the Programme Board may also invite other qualified individuals to participate as members in the Working Group.

• Participation is encouraged from organizations and bodies relevant to climate change, including:
  - GEO Work Programme activities;
  - UN and other international organizations;
  - National and regional stakeholders; and
  - Scientific organizations.

• In the interest of ensuring diversity and balance in the Working Group membership, the Programme Board may place limits on the number of members from individual GEO Members, Participating Organizations, or Associates or by specific categories. Participation of commercial entities is welcomed but will be limited to a maximum of two members.

Working Arrangements

• There will be at least two co-chairs of the Working Group, who will be selected by and from among the Working Group members.

• The Working Group will meet at such times and places as determined by its members and will work mainly through teleconferences and e-mail.
- The Working Group will provide periodic (at least annual) reports on its activities to the Programme Board as part of GEO Work Programme monitoring. It may also bring specific issues to the Programme Board as needed.
- The Working Group may establish subgroups to assist in fulfilling its duties.
- Administrative support to the Working Group will be provided by the GEO Secretariat.

Duration
- These Terms of Reference will remain in effect for the period of the 2020-2022 GEO Work Programme. They may be revised with the approval of the Programme Board.
Data Working Group
Terms of Reference

Purpose
The Data Working Group (Data-WG) is convened to work with the GEO community and with external stakeholders to address data policy, data ethics and data governance issues impacting the use of Earth observations, thereby improving the uptake of Earth observations for decision making. In this way, the Working Group will support the translation of the Canberra Declaration into concrete actions within the GEO Work Programme.

Duties
- Monitor trends in international open data and data management practices, and produce trend analyses and recommendations, as appropriate, for revising the GEOSS Data Sharing Principles and the GEOSS Data Management Principles and Implementation Guidelines;
- Continue to promote the adoption and implementation of GEOSS Data Sharing Principles and the GEOSS Data Management Principles globally.
- Advance discussions of critical data-related topics with stakeholder communities;
- Recommend ways for GEO to advance the interoperability of Earth observations and complementary data, products and services; and
- Identify, analyze, and describe best practices for, legal, ethical, privacy, intellectual property, and other related concerns with respect to the sharing and management of Earth observations data, information and knowledge resources.

Membership
- Membership in the Working Group is by nomination from GEO Members, Participating Organizations, and Associates. As appropriate, the Programme Board may also invite other qualified individuals to participate as members in the Working Group.
- Participation is encouraged from individuals having expertise in data policy, spatial law, and providers or users of data technologies.
- In the interest of ensuring diversity and balance in the Working Group membership, the Programme Board may place limits on the number of members from individual GEO Members, Participating Organizations, or Associates or by specific categories. Participation of commercial entities is welcomed but will be limited to a maximum of two members.

Working Arrangements
- There will be at least two co-chairs of the Working Group, who will be selected by and from among the Working Group members.
- The Working Group will meet at such times and places as determined by its members and will work mainly through teleconferences and e-mail.
• The Working Group will provide periodic (at least annual) reports on its activities to the Programme Board as part of GEO Work Programme monitoring. It may also bring specific issues to the Programme Board as needed.

• The Working Group may establish subgroups to assist in fulfilling its duties.

• Administrative support to the Working Group will be provided by the GEO Secretariat.

Duration

• These Terms of Reference will remain in effect for the period of the 2020-2022 GEO Work Programme. They may be revised with the approval of the Programme Board.
Disaster Risk Reduction Working Group
Terms of Reference

Purpose
The Disaster Risk Reduction Working Group (DRR-WG) is convened to develop and implement a coherent and cross-cutting approach within GEO to advance the use of Earth observations in support of countries’ disaster risk reduction and resilience efforts. These efforts include those related to the provisions of multilateral agreements such as the Sendai Framework for Disaster Risk Reduction. In this way, the Working Group will support the translation of the Canberra Declaration into concrete actions within the GEO Work Programme.

Duties

- Foster support for establishing and maintaining relationships with disaster-related activities between the GEO community and national, international and intergovernmental bodies acting in disaster risk reduction and disaster risk management, including maintaining the relationship with the United Nations Office for Disaster Risk Reduction to:
  - Identify resources (financial and in-kind) to support GEO disaster-related initiatives;
  - Promote, including through best practices, sharing of data and knowledge to improve disaster risk management; and
  - Foster participation of public stakeholders in GEO initiatives.
- Enable discussion and communication on disaster-related activities within the GEO Work Programme.
- Promote the sharing of data from different platforms, technologies, themes and domains.
- Connect different scales of activities – from local, national, regional to global.
- Monitor the uptake of GEO’s activities in support of the Sendai Framework.
- Seek coherence and collaboration amongst the post-2015 development agendas and GEO’s areas of focus, including the identification of common metrics and opportunities for joint reporting.
- Promote to key stakeholders and partners the value of Earth observations and information provided by GEO.
- Act as a focal point, where appropriate, for the engagement with external stakeholders and international organizations and processes relevant to the Sendai Framework;
- Review the implementation plans of all GEO Work Programme activities relevant to the Sendai Framework for disaster risk reduction, and to identify potential gaps and synergies;
• Facilitate communication between the leads and participants of these GEO Work Programme activities; and

• Stimulate the initiation of projects, case studies or pilots involving participants from multiple GEO Work Programme activities to enhance collaboration across GEO and to address identified gaps.

Membership

• Membership in the Working Group is by nomination from GEO Members, Participating Organizations, and Associates. As appropriate, the Programme Board may also invite other qualified individuals to participate as members in the Working Group.

• Participation is encouraged from organizations and bodies relevant to disaster risk reduction, including:
  o GEO Work Programme activities;
  o UN and other international organizations;
  o National and regional stakeholders; and
  o Scientific organizations.

• In the interest of ensuring diversity and balance in the Working Group membership, the Programme Board may place limits on the number of members from individual GEO Members, Participating Organizations, or Associates or by specific categories. Participation of commercial entities is welcomed but will be limited to a maximum of two members.

Working Arrangements

• There will be at least two co-chairs of the Working Group, who will be selected by and from among the Working Group members.

• The Working Group will meet at such times and places as determined by its members and will work mainly through teleconferences and e-mail.

• The Working Group will provide periodic (at least annual) reports on its activities to the Programme Board as part of GEO Work Programme monitoring. It may also bring specific issues to the Programme Board as needed.

• The Working Group may establish subgroups to assist in fulfilling its duties.

• Administrative support to the Working Group will be provided by the GEO Secretariat.

Duration

• These Terms of Reference will remain in effect for the period of the 2020-2022 GEO Work Programme. They may be revised with the approval of the Programme Board.
URBAN RESILIENCE SUBGROUP

TERMS OF REFERENCE

1 PURPOSE

The subgroup interacts with and provides coordination for GEO urban teams to support the ongoing implementation of the GEO Work Programme in line with GEO engagement priorities, as well as responding to the UN-Habitat invitation to collaborate.

Specifically, the subgroup:

- Works to promote coordination between urban activities of the WP and ensures alignment with GEO engagement priorities, to the extent possible;
- Enriches the urban resilience focus of the Work Programme through aligning with existing urban efforts, potentially via seeding of new activities for the Work Programme from an urban resilience perspective;
- Identifies collaboration opportunities between GEO Flagships and Initiatives (incl. Community Activities when relevant) and outside efforts to achieve the common target of realizing the GEO engagement priorities, in the frame of enhancing urban resilience;
- Encourages activities to deliver outputs that are representative, shareable and fully reproducible.

2 IDENTIFIES DATA GAPS AND SOURCES OF DATA; ADVOCATES FOR ACCESS TO OPEN DATA IN BENEFIT OF THE URBAN GEO INITIATIVES. DUTIES

- Together with relevant urban GEO Initiatives, identify areas and opportunities for coordination and collaboration focusing on potential overlaps or gaps, as well as fostering interaction with other relevant GEO Flagships or Initiatives (i.e. EO4Health), including Regional GEO Initiatives;
- Trigger discussions, or physical meetings where possible, between the subgroup, EO4SDG, the Human Planet Initiative (HPI) and the Global Urban Observation & Information Initiative (GUOI) or others;
- Liaise with internal and external experts/organizations of interest, to support and enable cross-cutting collaboration (e.g. the GEO Disaster Risk Reduction Working Group) and facilitate awareness and amplification of urban GEO activities (e.g. resilience focused city networks and non-governmental organizations);
- Together with EO4SDG the urban GEO Initiatives, foster the identification of use cases and examples of EO in service of SDG 11 indicators, along with other pertinent SDG indicators, such as those within SDG 3, SDG 12, etc.;
- Support an inventory of EO tools for urban SDG indicators, and aid in the knowledge transfer, implementation and propagation of best practices;
- Initiate discussion with Regional GEOs to maximize support of urban resilience and related SDG indicator reporting at the national level, in a harmonized manner;
- Identify best practices for GEO to support UN-Habitat and their overarching policy relating to the New Urban Agenda;
- Consult with the GEO Secretariat on their formal response to the UN-Habitat request by providing recommendations and additional assistance.
3 \textbf{EXPECTED OUTPUTS / DELIVERABLES}

- Identify areas and opportunities for coordination and collaboration with relevant parties, internal and external to GEO, to pave the way for the preparation of a GEO roadmap on urban resilience;
- Coordinate the successful convening's between the subgroup and relevant urban GEO Initiatives;
- Interface with EO4SDG urban GEO Initiatives and others to bring successful EO use cases for SDGs to the attention of the PB, as well as, raise awareness on non-GEO related activities;
- Raise the issue of urban resilience to the Regional GEOs, and identify synergies within their existing agendas;
- Identify areas of contribution for GEO to play a strong role in the New Urban Agenda, in collaboration with the GEO Secretariat;
- Contribute concretely to the GEO Secretariat’s strategy for responding to the UN-Habitat request and to the establishment of long-term collaboration.

4 \textbf{MEMBERSHIP}

Participation in the Urban Resilience SG is open to all Programme Board member representatives, as well as to other individuals nominated by GEO Members or Participating Organizations.