

International Advisory Committee of the United Nations Global Geodetic Centre of Excellence



First Meeting

Conference Room LE 2312, Langer Eugen Building
UN-Campus in Bonn, Germany

Provisional agenda:

- 1) Welcome, introductions and organization of the meeting
- 2) Terms of Reference and composition of the Committee
 - a) Recognizing the strategic advisory role and responsibility of the Committee
 - b) Working modality of the Committee
 - c) Election of co-Chairs for the Committee
- 3) Strategy and substantive programme of work for the overall implementation of the agreed UN-GGCE framework plan
- 4) Any other global geodesy related scientific and operational matters
- 5) Summary, next step and close



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UN Campus, Bonn, Germany

First Meeting of the International Advisory Committee
29 – 31 March 2023, UN Campus in Bonn, Germany

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Agenda item #1

Welcome, introductions, agenda and organization of the meeting



- Welcome and opening remarks
- Provisional agenda and organization of the work

Agenda items	Scheduled days and segments	
	Day	Segment and proposed time to be spent on the item
1) Welcome, introductions and organization of the work	29 March	11:00 a.m. – 12:00 noon (20 min)
2) Terms of Reference and composition of the Committee	29 March	11:00 a.m. – 12:00 noon (40 min)
	30 March	11:00 a.m. – 12:00 noon (10 min)
3) Strategy and substantive programme of work for the overall implementation of the agreed UN-GGCE framework plan	30 March	11:00 a.m. – 12:00 noon (50 min)
	31 March	11:00 a.m. – 12:00 noon (60 min)
4) Any other global geodesy related operational and technical matters	30 March	2:00 p.m. – 3:30 p.m. (45 min)
		3:50 p.m. – 5:00 p.m. (40 min)
5) Summary, next meeting and close	31 March	3:50 p.m. – 4:30 p.m. (20 min)



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Agenda item #2 - Terms of Reference and composition of the Committee



➤ Inaugural Members of the International Advisory Committee

- | | |
|--|--|
| 1) Dr. Victor Khoo, <i>Director, Survey and Geomatics, Singapore Land Authority, Singapore</i> | 11) Dr. Johannes Bouman, <i>Head, Department of Geodesy, BKG, Germany</i> |
| 2) Dr. Elisabetta D'Anastasio, <i>Science Operations Technical Lead, GNS Science, New Zealand</i> | 12) Ms. Ingrid Vanden Berghe, <i>Administrateur-General, National Geographic Institute, Belgium</i> |
| 3) Mr. Nicholas Brown, <i>co-Chair, UN-GGIM SCoG and Director of National Geodesy, Geoscience Australia, Australia</i> | 13) Dr. Zuheir Altamimi, <i>President, IAG</i> |
| 4) Mr. Sergio Cimbaro, <i>Director, National Geographic Institute, Argentina</i> | 14) Mr. Basara Miyahara, <i>GGOS President, IAG</i> |
| 5) Dr. Calvin Klatt, <i>Director, Canadian Geodetic Survey, Natural Resources Canada</i> | 15) Dr. Ryan Keenan, <i>Chair, Commission 5: Positioning and Measurement, FIG</i> |
| 6) Dr. John Nyberg, <i>Deputy National Hydrographer, USA</i> | 16) Dr. Tulu Beshu Bedada, <i>Advisor, GIZ Ethiopia and Assistant Professor of Geodesy, Ethiopian Space Science and Technology Institute, Ethiopia</i> |
| 7) Mr. Fernand Bale, <i>Director-General, Centre d'Information Géographique et Numérique (CIGN), Côte d'Ivoire</i> | 17) Prof. Serena Coetzee, <i>Head of Department, Geography, Geoinformatics and Meteorology, University of Pretoria, South Africa</i> |
| 8) Mr. Zouheir Fatnassi, <i>Head, Department of Geodesy, Office of Topography and Cadastre, Tunisia</i> | 18) Mr. Albert Momo, <i>Vice President & Executive Director, Emerging Markets and Funded Projects, Trimble</i> |
| 9) Eng. Abdullah AlQahtani, <i>Director, Geodesy Department, General Authority for Survey and Geospatial Information, Saudi Arabia</i> | 19) Dr. Stephen Merkowitz, <i>Earth Science Division, NASA, USA</i> |
| 10) Ms. Laila Løvholden, <i>Special Adviser, Geodetic Division, Kartverket, Norway</i> | 20) Prof. Werner Enderle, <i>Head, Navigation Support Office, European Space Agency</i> |



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Agenda item #2 - Terms of Reference and composition of the Committee



- Terms of Reference of the UN-GGCE International Advisory Committee
(Document UN-GGCE/IAC/2023/M/02)

- Recognizing of the strategic advisory role and responsibility of the International Advisory Committee
(Document UN-GGCE/IAC/2023/M/02)

- Working modality of the International Advisory Committee
(Document UN-GGCE/IAC/2023/M/02)



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End of 1st Segment

The meeting will reconvene on 30 March 2023 as arranged



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 - c) **Election of co-Chairs for the Committee**
- 3) **Strategy and substantive programme of work for the overall implementation of the agreed UN-GGCE framework plan**
- 4) Any other global geodesy related scientific and operational matters
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Agenda item #2 - Terms of Reference and composition of the Committee



- Governance arrangement
(Document UN-GGCE/IAC/2023/M/05)



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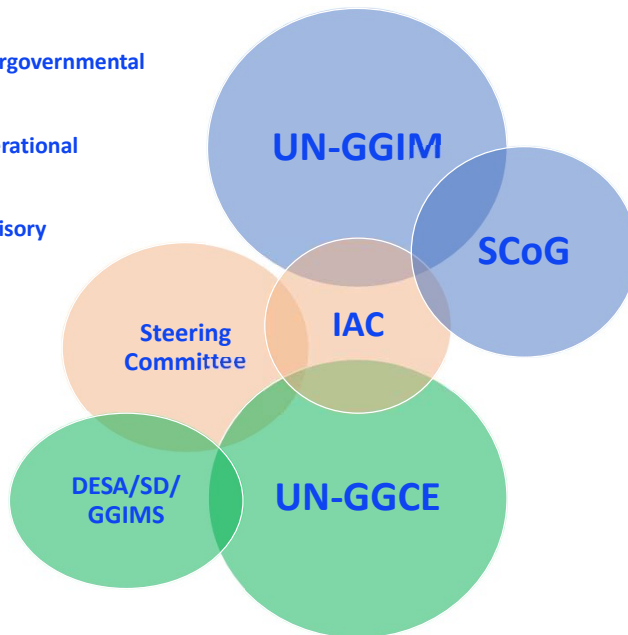
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Intergovernmental

Operational

Advisory



Notes:

- ❖ The SCoG formally reports to UN-GGIM, and to no other body.
- ❖ The UN-GGCE does not report directly to UN-GGIM.
- ❖ The IAC reports the work of the UN-GGCE to the SC and into UN-GGIM.
- ❖ The SC does not report to UN-GGIM. It oversees the IAC and the UN-GGCE.
- ❖ DESA/SD provides oversight for the SC and the UN-GGCE, but not the IAC.
- ❖ UN-GGCE program requests to the SCoG are fed through the IAC, which includes members of the SCoG.
- ❖ The SCoG may provide programme guidance to the UN-GGCE, but through the IAC.



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Agenda item #2 - Terms of Reference and composition of the Committee



- Governance arrangement
(Document UN-GGCE/IAC/2023/M/05)

- Election of co-Chairs for the International Advisory Committee
(Document UN-GGCE/IAC/2023/M/02)



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Agenda item #3

Strategy and substantive programme of work for the overall implementation of the agreed UN-GGCE framework plan



- Substantive work programme of the UN-GGCE
(Document UN-GGCE/IAC/2023/M/03)
(Document UN-GGCE/IAC/2023/M/04)



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Agenda item #3 - Project plan and annual budget

(Document: UN-GGCE/SC/2023/M/02)



Project Plan - Outline

The strategic priority of UN-GGCE is to implement resolution A/RES/69/266 by enhancing coordination and coherence in global geodesy development leveraging the UN-IGIF to facilitate enhanced coordination and coherence across Member States and international geodetic organizations towards an accurate, accessible and sustainable GGRF for the betterment of society, environment and economy.

Vision: Enhanced multi-lateral collaboration for an accurate, accessible and sustainable Global Geodetic Reference Frame to support good policy development and decision-making for inclusive social progress, increasing environmental sustainability and vibrant economic development

Objective: Strengthening and advancing global geodetic cooperation and coordination, worldwide geodetic infrastructure, standards and policies, education, training and capacity development, and communication and awareness, to maximize the benefit from ongoing geodetic efforts, ensure coherence and avoid duplication

Strategic Actions:

- I. Preparation and implementation of a global geodesy development plan
- II. Developing and implementing a modality to advance global geodesy coordination and coherence
- III. Improving national contributions to global geodesy

Outputs: Include: development of norms, modalities and guides; engagement and consultations; expert meetings and training workshops; consultancies, studies and publications



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End of 2nd Segment

The meeting will reconvene in the afternoon of 30th March as arranged, jointly with the Subcommittee on Geodesy and consider Agenda item 4 - Any other global geodesy related operational and technical matters



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Agenda item #3

Strategy and substantive programme of work for the overall implementation of the agreed UN-GGCE framework plan



Jointly consider -

- UN-GGCE International Advisory Committee meeting agenda item # 3 - Strategy and substantive programme of work for the overall implementation of the agreed UN-GGCE framework plan
- Subcommittee on Geodesy meeting agenda item #4 - Strategic Plan and Action Plan to Sustain the Global Geodetic Reference Frame



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Agenda item #3 – Strategy and substantive programme of work for the overall implementation of the agreed UN-GGCE framework plan



❖ Strategic actions, tasks and timelines

Jointly consider -

Are the strategic actions, tasks and timelines* FEASIBLE?

What tasks should be PRIORITIZED?

What are the resources required?

Are the timeframes realistic?

Are there glaring gaps?

(Consider, if additional task(s) are added, to remove tasks deemed not a priority in the short or medium term)

Note: * Six strategic actions with tasks and timelines were developed at the joint meeting of 30 March 2023



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Agenda item #3 – Strategy and substantive programme of work for the overall implementation of the agreed UN-GGCE framework plan



Strategic actions, tasks and timelines

- ❖ Strategic Action #1 – Conduct a global geodesy needs assessment (Feb 2024)(SCoG/IAG/FIG)
 - Stakeholder identification and mapping (Jul 2023) (UN-GGCE supported by IAC/SCoG)
 - Identify and map stakeholders' contributions to GGRF (Jul 2023) (UN-GGCE supported by IAC/SCoG/IAG/FIG)
 - Create a working group to begin global geodesy needs assessment (Jun 2023) (SCoG/IAG/FIG)

- ❖ Strategic Action #2 – State of Geodesy Report (June 2024)(SCoG)
 - Factsheets on the contribution of geodesy to climate studies and resilience, disaster risk reduction, space mission, sea-level and inundation, earthquakes and tsunamis (Jul 2023; Sep 2023; Nov 2023) (UN-GGCE)
 - Expert review of factsheets (Jul 2023; Sep 2023; Nov 2023) (IAC)
 - Incorporate findings from the global geodesy needs assessment (SCoG)



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 UN-GGCE

Agenda item #3 – Strategy and substantive programme of work for the overall implementation of the agreed UN-GGCE framework plan

Strategic actions, tasks and timelines

- ❖ Strategic Action #3 – Global Geodesy Development Plan (Jan 2025)(UN-GGCE)
 - Incorporate the global geodesy needs assessment and the State of Geodesy Report (UN-GGCE)
 - Identify and describe how to improve the GGRF to meet global and regional requirements (Oct 2024) (UN-GGCE)
 - Expert review of the Global Geodesy Development Plan (Jan 2025) (IAC)
- ❖ Strategic Action #4 – Global coordination (ongoing)(UN-GGCE)
 - Leverage the stakeholder identification and mapping (Jul 2023) (UN-GGCE)
 - Understand and leverage stakeholders’ contribution to GGRF (Jul 2023) (UN-GGCE)
 - Working towards an authoritative register for geodetic standards (ongoing) (SCoG/ISO/Partners)
 - Stakeholder engagement/convene meeting(s) (Thirteenth Session of UN-GGIM) (SCoG)
 - Identify opportunities for coordination and prioritize (ongoing) (UN-GGCE)

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 UN-GGCE

Agenda item #3 – Strategy and substantive programme of work for the overall implementation of the agreed UN-GGCE framework plan

Strategic actions, tasks and timelines

- ❖ Strategic Action #5 – Awareness raising and advocacy (ongoing)(UN-GGCE)
 - Leverage factsheets (UN-GGCE)
 - Convene global geodesy side event at the Bonn Climate Change Conference (<https://unfccc.int/sb58>), 5 – 15 June 2023 (Jun 2023) (UN-GGCE)
 - Convene global geodesy side event at the UN SDG Summit 2023 (<https://www.un.org/en/conferences/SDGSummit2023>), Sept 2023 (Sep 2023) (UN-GGCE)
 - Advocate for inclusion of geodesy into global reports (e.g. State of the Climate; State of the Environment) (Ongoing) (UN-GGCE) (supported by IAC)
 - Identify opportunities for advocacy and prioritize (ongoing) (UN-GGCE)
- ❖ Strategic Action #6 – Capacity and capability development (ongoing)(UN-GGCE)
 - Leverage the global geodesy needs assessment (UN-GGCE)
 - Identify, in consultation with SCoG and Regional Committees of UN-GGIM, develop capacity and capability development activities (ongoing) (UN-GGCE)

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Strategic actions, tasks and timelines

- ❖ Strategic Action #1 – Conduct a global geodesy needs assessment (Feb 2024)(SCoG/IAG/FIG)
 - Stakeholder identification and mapping (Jul 2023) (UN-GGCE supported by IAC/SCoG)
 - Identify and map stakeholders' contributions to GGRF (Jul 2023) (UN-GGCE supported by IAC/SCoG/IAG/FIG)
 - Create a working group under SCoG to begin global geodesy needs assessment with a terms of reference (Jun 2023) (SCoG/IAG/FIG)
 - Include regional committees of UN-GGIM in the global geodesy needs assessment (Nov 2023) (SCoG/IAG/FIG)
 - Expert review of the global geodesy needs assessment (Jan 2024) (IAC)



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Agenda item #3 – Strategy and substantive programme of work for the overall implementation of the agreed UN-GGCE framework plan



Strategic actions, tasks and timelines

- ❖ Strategic Action #2 – State of Geodesy Report (June 2024)(SCoG/IAG/FIG)
 - Factsheets and case studies on the contribution of geodesy to climate studies and resilience, disaster risk reduction, space mission, sea-level and inundation, earthquakes and tsunamis, efficient (autonomous) transportation, economic value and contribution to GDP, food security, SDGs (Jul 2023; Sep 2023; Nov 2023)(ongoing) (UN-GGCE)
 - Expert review of factsheets (Jul 2023; Sep 2023; Nov 2023)(ongoing) (IAC)
 - Develop a concept note and outline of contents for the State of Geodesy Report (Nov 2023) (SCoG)
 - Create a working group under SCoG with terms of reference to work on the State of Geodesy Report (Jul 2023) (SCoG)
 - Incorporate findings from the global geodesy needs assessment (SCoG)



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Agenda item #3 – Strategy and substantive programme of work for the overall implementation of the agreed UN-GGCE framework plan



Strategic actions, tasks and timelines

- ❖ Strategic Action #3 – Global Geodesy Development Plan (Jan 2025)(UN-GGCE)
 - Incorporate the global geodesy needs assessment and the State of Geodesy Report (UN-GGCE)
 - Identify and describe how to improve the GGRF to meet global and regional requirements (Oct 2024) (UN-GGCE)
 - Expert review of the Global Geodesy Development Plan (Jan 2025) (IAC)



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Agenda item #3 – Strategy and substantive programme of work for the overall implementation of the agreed UN-GGCE framework plan

Strategic actions, tasks and timelines



- ❖ Strategic Action #4 – Global coordination, coherence and partnership (ongoing)(UN-GGCE)
 - Identify opportunities for coordination and prioritize, develop an engagement plan (ongoing) (UN-GGCE)
 - Leverage the stakeholder identification and mapping (Sep 2023) (UN-GGCE)
 - Understand and leverage stakeholders' contribution to GGRF (Sep 2023) (UN-GGCE)
 - Stakeholder engagement/convene meeting(s) (Annual Sessions of UN-GGIM) (SCoG)
 - Establish and identify arenas for meetings and coordination (ongoing) (UN-GGCE)
 - Utilizing inputs from SCoG, IAG services and others as relevant to inform and convene targeted stakeholder engagements at regional or global level including at UN-GGKIC to advocate further coordination at national, regional and global levels (ongoing) (UN-GGCE)
 - Develop a modality to formalize collaboration as appropriate including with UN-GGKIC (Jan 2024) (UN-GGCE)
 - Working towards an authoritative register for geodetic standards (ongoing) (SCoG/ISO/Partners)



Monitoring progress in global coordination (annual) (IAC)

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Strategic actions, tasks and timelines



- ❖ Strategic Action #5 – Awareness raising and advocacy (ongoing)(UN-GGCE)
 - Leverage factsheets (UN-GGCE)
 - Convene global geodesy side event at the Bonn Climate Change Conference (<https://unfccc.int/sb58>), 5 – 15 June 2023 (Jun 2023) (UN-GGCE)
 - Convene global geodesy side event at annual sessions of UN-GGIM (annual) (SCoG)
 - Convene global geodesy side event at the UN SDG Summit 2023 (<https://www.un.org/en/conferences/SDGSummit2023>), Sept 2023 (Sep 2023) (UN-GGCE)
 - Advocate for inclusion of geodesy into global reports (e.g., State of the Climate; State of the Environment) (Ongoing) (UN-GGCE) (supported by IAC)
 - Identify opportunities for advocacy and prioritize (ongoing) (UN-GGCE)
 - Monitoring and evaluation (annual) (IAC)



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Strategic actions, tasks and timelines

- ❖ Strategic Action #6 – Capacity and capability development (ongoing)(UN-GGCE)
 - Identify, in consultation with Regional Committees of UN-GGIM, SCoG, and partnering organizations, develop and implement capacity and capability development activities (ongoing) (UN-GGCE)
 - Leverage the global geodesy needs assessment (UN-GGCE)
 - Leverage and support existing/ongoing initiatives and activities residing in partnering organizations
 - Coordinate with regional committees of UN-GGIM including with UN-GGKIC and partnering organizations to enhance geodetic knowledge and innovation development (ongoing) (UN-GGCE)
 - Monitoring and evaluation (annual) (IAC)



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Strategic actions, tasks and timelines

- ❖ Strategic Action #7 – Branding and communication (ongoing)(UN-GGCE)
 - Develop a communication and knowledge management plan (Nov 2023) (UN-GGCE)
 - Develop generic presentation and promotional materials (ongoing) (UN-GGCE)
 - Explain the nexus between global geodesy actors
 - Develop a logo and web-site for UN-GGCE (Nov 2023) (UN-GGCE)
 - Develop a mechanism to recognize contribution to the GGRF (ongoing) (UN-GGCE)
 - Monitoring and evaluation (annual) (IAC)



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Agenda item #4 Summary, next steps and close



- Summary and next steps

- Next meeting

- Close



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**International Advisory Committee of the
United Nations Global Geodetic Centre of Excellence**

First Meeting

29 – 31 March 2023



Thirteenth Session
of the
United Nations
Committee of
Experts on
Global Geospatial
Information
Management

2 – 4
August 2023
UNHQ, New York

THANK YOU
I HANK YOU



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