



UN-GGCE - Enhancing Collaboration and Coordination

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Stronger. Together.

Outline

- Introduction UN-GGCE
- Current work
 - Listening Tour
 - Needs Assessment
 - Hidden Risk
 - Joint Development Plan
- UN-GGCE Communication and Outreach
- IGS and UN-GGCE



UN Global Geodetic Centre of Excellence

Our Vision

All countries have **strong political support for geodesy**

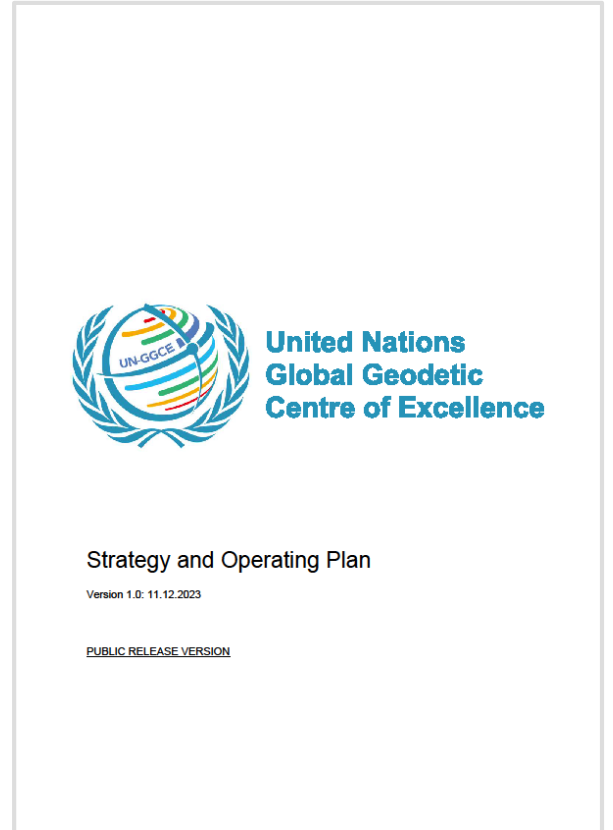
- which enables them to – together – accelerate the achievements of the Sustainable Development Goals
- derive social, environmental and economic benefits



Strategic Objectives

Work with Member States and geodetic organizations to strengthen our collective impact to:

- Enhance **investment** in the global geodesy supply chain.
- Improve **coordination** and **collaboration** amongst Member States and geodetic organizations.
- Share geodetic data and improve **standards**, on a voluntary basis,
 - to contribute to the global reference frame and regional densifications.
- Provide greater technical **assistance**
 - especially for capacity development in geodesy for developing countries.
- Make geodesy and its benefit more **visible** and understandable to society.



https://ggim.un.org/UNGCE/documents/UN_GGCE_Strategy_%20and_Operating_Plan_v1.0.pdf



Focus and Acting Areas

Evidence

- to communicate the critical dependencies on global geodesy supply chain;
- link between investment in the global geodesy supply chain and societal, environmental and economic benefits.

Resources

- improving dedicated funds and people to operate and stabilize existing supply chain, make it more robust and develop for future requirements;

Governance

- stronger institutional arrangements within Member States, between Member States, with the private sector, and between Member States and international bodies
- involving entities across different levels of government and across public, private, and academic sectors.
- fit-for-purpose to manage the risks to the geodetic supply chain at global, regional and national levels

Capacity building

- training opportunities offered by academic institutions to train geodesy specialists;
- technical expertise but also coordination, governance and standards;
- support for developing countries

Awareness

- of the reliance on geodesy in the science community, public and industry (geospatial as well as other sectors),
- dependency on Global Geodetic Supply Chain for satellite services for position, navigation and timing services such as mining, agriculture, construction, maritime, intelligent transport
- Communication strategy



Consultation with Stakeholders

Listening World Tour

- Over 550 people from 110 Member States
- Better understand Member States and Partner needs
 - IAG 2x
 - UN-GGIM Regional Committees 5x
Americas, Asia Pacific, Arab States, Europe, Africa
 - Partners 2x
FIG, IHO, ISO
- Consultations with IAG Services
IGS, VLBI, SLR, DORIS, IERS, IGFS
- Expert Consultation Meetings
 - November 2023
 - April 2024 - decision makers - including defense sector



Expert Consultation on Strengthening the GGSC
in April 2024

Global Geodesy Needs Assessment

- Based on result from Listening Tour
- Finding gaps and understand the current status of GGSC
- Articulation of the needs expressed by the geodetic community
- Conclusions drawn from information and insights by experts from Member States and partners
- Basis for the Joint Development Plan
- Just description of the needs - no actions

Global Geodesy Needs Assessment

Expert Views and Perspectives

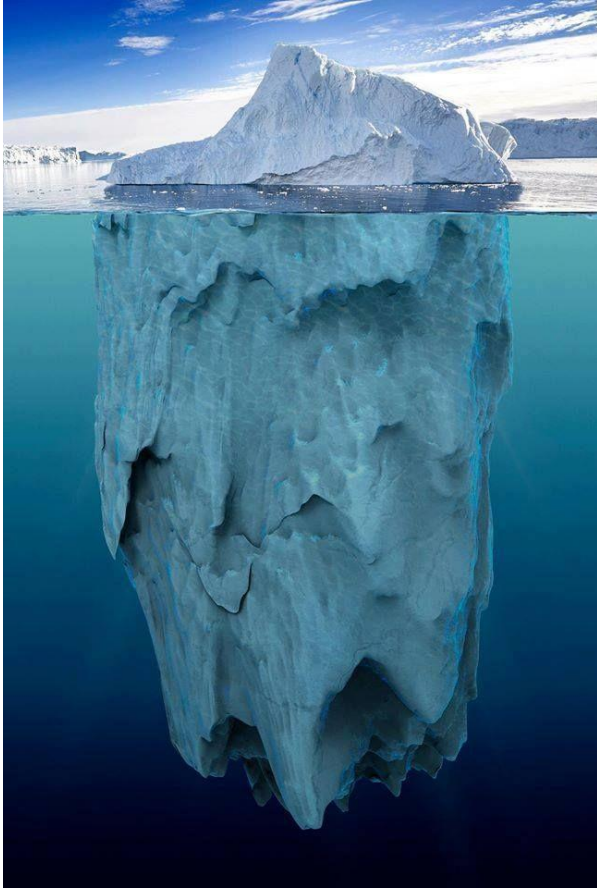
Version 1.0
9 May 2024



https://ggim.un.org/UNGGCE/documents/20240509-Global_Geodesy_Needs_Assessment.pdf



Hidden Risk



- Evidence-based document
 - Background report for decision-makers
 - Dependency on geodetic products
 - Focus on satellites operation
 - Impact on critical infrastructure and national economy
-
- Report (20p.)
 - Policy Brief (3p.)
 - Video (15 min)
<https://www.youtube.com/watch?v=fhJxOgbaOKA>

Hidden Risk

How weaknesses in the global geodesy supply chain could have catastrophic impacts on critical infrastructure and national economies

Background report for decision-makers

Version 1.0

5 June 2024



June 2024

United Nations Global Geodetic Centre of Excellence

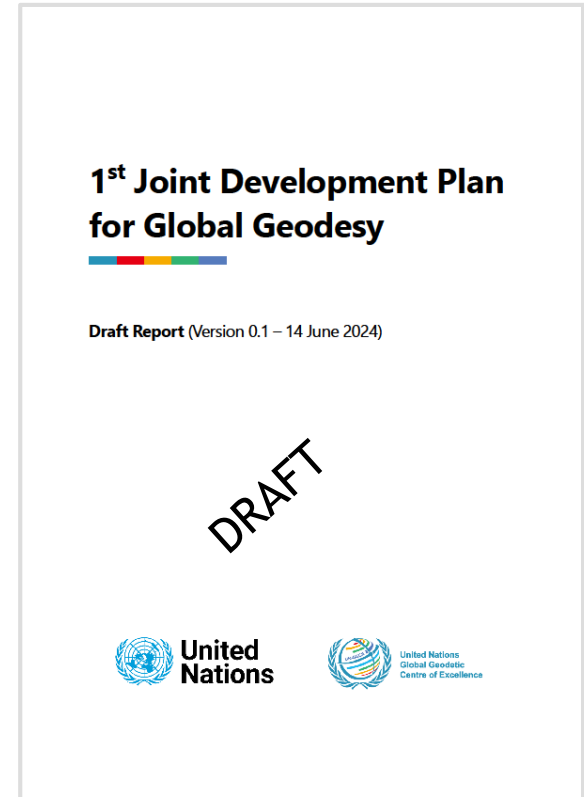
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https://ggim.un.org/UNGGCE/documents/20240605-Hidden_Risk_Report.pdf



1st Joint Development Plan for Global Geodesy

- Translates the needs into strategic objectives and actions
- Joint Development Plan with three Phases to:
 - 1. Avoid further degradation** of the supply chain
 - support current operational requirements
 - 2. Robust**
 - improve reliability
 - 3. Next Generation**
 - meet more ambitious requirements
 - technological evolution
- Include activities for UN-GGCE, Member States and partners



Communication Strategy

- Newsletters
- Policy Briefs
 - Hidden Risk (complete)
 - Climate change (draft) ...
- Translations of documents
 - UN-GGCE Strategy and Operating Plan (En, Ru, Fr, Ar)
 - Hidden Risks document (Finnish (draft))
- Including geodesy in other reports
 - Climate reports
 - International Hydrological Organization
- General Material for stakeholders
- Webinars
 - 4 webinars in August 2024
- Videos
 - Cooperation with GGOS

Stronger. Together.

The collage features several key documents from the United Nations Global Geodetic Centre of Excellence (UN-GGCE):

- Newsletters:** Two newsletters are shown. One dated 7 February 2024 with the headline "We are raising awareness" from Aguascalientes, Mexico. Another dated May 2024 with the headline "Urgent need to stabilize the global geodesy supply chain" from Bonn, Germany.
- Policy Brief #001:** Titled "Hidden Risk: How weaknesses in the global geodesy supply chain could have catastrophic impacts on critical infrastructure and national economies". It includes an introduction, key messages, and a section on "Observing the Earth".
- Report Cover:** A report titled "We are being social" with the subtitle "in Mexico to meet with representatives of Statistics and Geography of Sustainable Development Goals".

Each document includes the UN-GGCE logo and the tagline "Stronger. Together." The bottom of the collage features the UN-GGCE logo and the website URL https://ggim.un.org/UNGGCE/documents/UN-GGCE_Newsletter_3_2024.pdf.



Outreach and Meetings

- UN-GGCE yearly meeting: IAC, UN-GGIM SCoG, SC
- Consultation meetings
 - Decision Makers and Defence meeting – first time this April
- UN-GGIM Expert Committee yearly meeting at UN head quarter in NY
- UN-GGIM: Regional meetings
 - e.g. Geneva Juni 2024
- Geodetic community meetings
 - IAG Community
 - FIG Capacity Development meeting in Accra
- UN Meetings
 - climate change, IHO, WMO
- Capacity development workshops 2025 intension
 - support from IGS welcome
- Individual contact through Member States, Institutions or Expert communities
 - Ethiopian, Kazakhstan, DORIS Service
- UN-GGCE, UN-GGKIC, UN-GGECE

Stronger. Together.



Aguascalientes (Mexico, 2024)



Partnership Program

- created to recognize contributions from Member States, universities and organizations
- enables use the UN-GGCE logo to promote themselves
- for valuable contribution in sustaining the global geodesy supply chain
- reinforces joint efforts



Workshop

IGS interactions with UN-GGCE

Thursday 4 July, 14:00-16:00 CEST

- What are the common interests?
- How and where can UN-GGCE support the IGS or the national institutions contributing to IGS?
- Where can IGS contribute to the 5 Focus Areas
 - Evidence, Resources, Governance, Capacity Building, Awareness
- Technical support for UN-GGCE
 - Information
 - Material (data, graphics, learning material)
 - Capacity building - developing countries
- How do we communicate? Who are the MS representatives?
- What is missing?



Created by Jessica Lock
from Noun Project



Connect with us!

Website <https://ggim.un.org/UNGGCE>

Email un-ggce@un.org

Thank you for your attention!

The screenshot displays the website for the United Nations Global Geodetic Centre of Excellence (UN-GGCE). At the top, there is a navigation bar with the 'Statistics Division' logo and menu items: 'TOPICS', 'DATA', 'METHODOLOGY', 'EVENTS', 'PUBLICATIONS', and 'ABOUT'. Below this is the 'UN-GGIM' logo and the text 'United Nations Global Geodetic Centre of Excellence > UN campus, Bonn, Germany'. The main content area features a large photograph of the UN campus in Bonn, Germany, with the text 'United Nations Global Geodetic Centre of Excellence' and 'UN campus, Bonn, Germany' overlaid. A photo attribution link is provided below the image. To the right of the image are three sections: 'Annual sessions' with links to the Fourteenth, Thirteenth, Twelfth, Eleventh, and Past sessions; 'Overview' with links to Mandates, Aims and Objectives, Bureau, Regional Committees, Functional Groups, and Thematic Networks; and 'Quick links' with links to UN-GGIM Events, Past Events, UN-IGIF, UNGEGN, and UN-GGCE. At the bottom, a navigation bar includes 'Overview', 'Opening Ceremony', 'Meetings', 'Documentation', and 'UN-GGCE: Listening World Tour'. A paragraph of text at the bottom describes the center's establishment in 2020.

