



UNITED NATIONS



UN-GGIM

United Nations Initiative on
Global Geospatial Information Management

Positioning geospatial information to address global challenges

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United Nations Resolution on a Global Geodetic Reference Frame for Sustainable Development



Photo: Kyoung-Soo Eom

General Assembly, 26 February 2015



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“We fully realize the importance of critical geospatial infrastructure and information in helping countries and decision-makers make more informed, evidence-based decisions on mitigation and preparedness.”

Ambassador Peter Thomson, Fiji's Permanent Representative to the United Nations



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What's the Global Geodetic Reference Frame?

- The GGRF includes, but is not limited to, products that provide realisations of the celestial and terrestrial reference frames. It also includes the component technique observing systems, data centers, analysis centers, and combination and product centers. The GGRF also includes gravimetric products and physical height systems.



Once upon a time..

- Around 2010 there was a great concern in the geodetic community
- The global geodesy network had degraded and suffered set backs. In late 1990 more than 20 core stations existed. In 2009 only 9 permanent stations with GNSS, SLR and VLBI observation
- Initiative from UN Regional Cartographic Conference Asia Pacific (UNRCC-AP)
- UNRCC-AP made the connection with United Nations Initiative on Global Geospatial Information Management (UN-GGIM)
- UN-GGIM realized the importance regarding the improved sustainability and development of global geodesy and the associated infrastructure.
- The Global Geodetic Reference Frame entered the top of UN-GGIM agenda





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UNITED NATIONS
COMMITTEE OF EXPERTS ON
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT



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UN-GGIM, Aims and Objectives

- The United Nations initiative on Global Geospatial Information Management (UN-GGIM) aims at playing a leading role in setting the agenda for the development of global geospatial information and to promote its use to address key global challenges. It provides a forum to liaise and coordinate among Member States, and between Member States and international organizations.



The GGRF Working Group

- Established late 2013
- Norway/Australia co-chairs
- Members:
 - July 2014: 22 MS + IAG
 - Aug 2016: 31 MS + IAG&WHO
- First task: formulate a UN resolution

[GGIM Home](#) | [UN Home](#) | [Department of Economic and Social Affairs](#) | [UN Statistics Division](#)



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United Nations Committee of Experts on
Global Geospatial Information Management

WORKING GROUP ON GLOBAL GEODETIC REFERENCE FRAME

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Co-Chairs



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Emphasis on communication work

Hjem Varsler Meldinger

Søk på Twitter

89 TWEETS 369 FØLGER 160 FØLGERE 28 FAVORITTER

Rediger profil

UNGGRF
@UNGGRF
UN-GGIM Global Geodetic Reference Frame (GGRF) Working Group. Recognizes growing demand for positioning service, GGRF and global cooperation within geodesy.
unggrf.org
8 bilder og videoer

UNGGRF @UNGGRF · 1 t
"Looking forward to seeing this #GGRF roadmap", says Peni Suveinakama, Fiji UN mission @UNGGIM #ggim5 Side event.

Folk å følge · Oppdater · Vis alle

- Maria Cabello @mjcabello · Følg
- Bill Oates @wpoates1 · Følg
- simon wheeler @simonwha... · Følg

Finn venner

Trender · Endre



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#GGRF

@unggrf

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 **UNGGRF** @UNGGRF · 5. aug.
Important step for #GGRF & #geodesy!
#GGIM6 decided on @UNGGIM sub-
committee on geodesy & endorsed the
roadmap.



Steven Ramage

@Steven_Ramage



Følger

Just watched a great video on @UNGGRF global
geodetic reference frame @UNGGIM #gistribe
#LandConf2016

Vis oversettelse



RETWEETS

5

LIKER

7



13.43 - 16. mar. 2016



http://ggim.un.org/UN_GGIM_wg1.html



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Key objectives of the resolution

- Develop a global geodetic roadmap for the GGRF
- Global cooperation in providing technical assistance in geodesy for those countries in need to ensure the development, sustainability and advancement of a GGRF
- Implement open geodetic data sharing
- Improve and maintain national geodetic infrastructure
- Enhanced multilateral cooperation that addresses infrastructure gaps and duplications globally
- Improved Outreach to make the GGRF more visible and understandable to society



Developing the road map

- Main audience is Member States of UN-GGIM
- Geodetic community important stakeholder
- Broad consultation
- Adopted inclusive interpretation of GGRI
- 5 key categories of issue:
 1. infrastructure
 2. policy, standards and conventions
 3. education, training and capacity building
 4. communication and outreach and
 5. governance



The road map highlights

- Actions must be taken to maintain and upgrade current national infrastructure and secure all Member States accurate access to the GGRF;
- Member States are urged to support efforts towards geodetic standards and more openly share their data, standard operating procedures, expertise and technology;
- Actions must be taken to raise geodetic competence and skills, as a lack of geodetic capability currently blocks utilization of the GGRF in many countries, and hinders their achievement of the sustainable development goals. It also threatens the development and sustainability of the GGRF;
- Actions must be taken to raise the general awareness around the value proposition of the GGRF, as this is necessary for its sustainability;
- Actions must be taken to improve the GGRF governance mechanism as this is needed to ensure the sustainability and improvement of the GGRF.

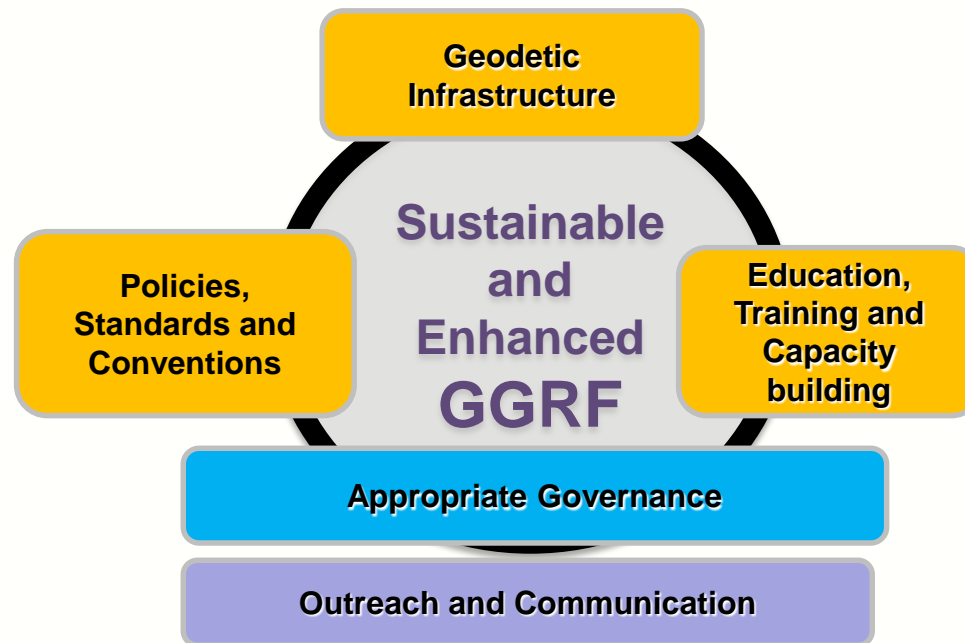


Status and future work

- August 5th:
 - The road map endorsed
 - The GGRF working group elevated to a permanent UN-GGIM sub-committee
- Determine modalities and methods of work for the new sub-committee
- Develop a position paper to define appropriate governance arrangements for the GGRF
- Develop implementation plan for the road map



Image of the GGRF vision



An accurate, sustainable and accessible Global Geodetic Reference Frame to support science and society



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What's in it for you?



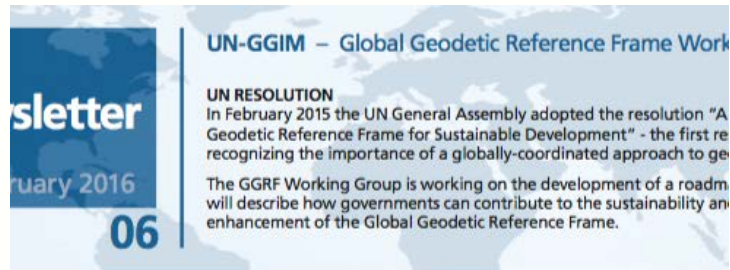
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An enhanced governance mechanism



Significant benefits to the study of our ever-changing planet

The General Assembly resolution "A Global Geodetic Reference Frame for Sustainable Development" adopted in February 2015 has been an eye-opener for society and a testament to the importance of global geodesy.

Previously poorly understood by the general public, geodesy is fundamental to sustainability. In this newsletter, researchers, experts and practitioners explain how the UN resolution on geodesy and what it means for them and how it will benefit their work and the world of our changing planet.

Open data sharing
Open geospatial data access from all countries helps in modeling the Earth's gravity field, as well as the development of new geospatial projects towards capacity building.



"Geodesy contributions are today based on best effort. The UN resolution and actions following that, will help to secure the future of geodetic networks and research."

"In Finland we already achieved one milestone; a new VGOS radio telescope in Metsähovi. When reasoning for this, the UN resolution had a central role."

Prof. Markku Poutanen,
Finnish Geospatial Research Institute
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World Bank investigates possible line of lending

”End extreme poverty within a generation and boost shared prosperity”

Photo: Bjørn-Owe Holmberg



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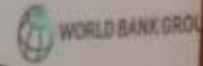
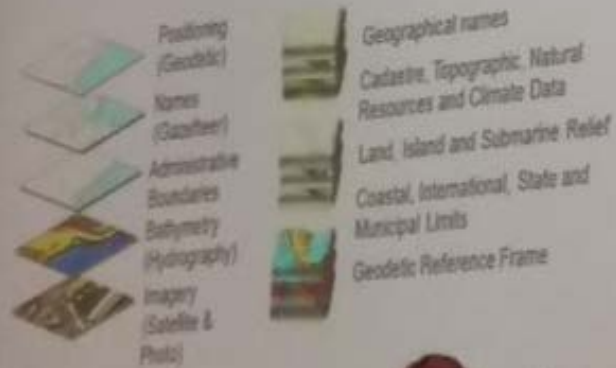
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World Bank Role:
What are the geospatial investments needed to underpin
local, regional, national and global issues

- An accurate positioning system (UN-GGIM GGRF)
- Foundation data themes (UN-GGIM Fundamental Datasets)
- Adopting Geospatial Data Standards (UN-GGIM Standards work)



Denise McKenzie @SpatialRed · 22. apr.

Great presentation of the Geospatial activities in the #WorldBank by #KathrineKelm @WorldBank #HLF4 @UNGGIM

Retweet icon 9 Like icon 3 More icon

Possible benefits

- Easier to maintain and improve infrastructure
- Maintain priority for our (geodetic) needs
- Easier to attract students
- More data/better quality data
- Improved data sharing
- Improved multilateral cooperation
- Improved education
- More nations/institutions contributing
- Higher work recognition





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