




**XXV FIG Congress**  
 "Engaging the Challenges, Enhancing the Relevance"  
 16 - 21 JUNE 2014, MALAYSIA



**2014 FIG Director Generals Forum**

*"National Agencies: staying relevant and addressing the challenges"*

# Responsibility of National Agencies: GGIM


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UN-GGIM | United Nations Initiative on  
 Global Geospatial Information Management


*Positioning geospatial information to address global challenges*  
 ggim.un.org


## Measuring and monitoring sustainable development...







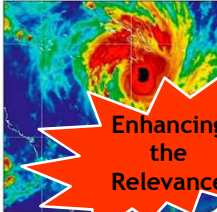
**Engaging the Challenges**












**Enhancing the Relevance**

**with geography, place, and location**



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# 7<sup>th</sup> Session of the Open Working Group on Sustainable Development Goals, 6-10 January 2014



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## The Role of Geospatial Information in Measuring and Monitoring the Sustainable Development Goals

Disaster risk reduction, sustainable development, and global urbanization

- The SDGs will depend on human and physical geography. In order to measure and monitor change and progress you must have access to fundamental and consistent geospatial information - geography.
- Not all targets will be equal and will require different means of measure. Indicators will need to be linked to the targets and be well defined, measurable over time, cost effective, and clearly and easily communicated.
- There will be a need to create a network of consistent global data - reliable geospatial information - to measure and monitor trends, change and progress over time in a standardized manner.



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<http://ggim.un.org/OWG.html>

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### Invitation to briefing on Geospatial Information Technologies

Tuesday, 6 May 2014

The Permanent Missions of Australia, France, Jamaica and Norway invite you to attend a briefing on the importance of Geospatial Information Technologies.





## THE GLOBAL GEODETIC REFERENCE FRAME

The United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM), established in 2011 by the Economic and Social Council (ECOSOC), recognizes the growing demand for more precise positioning services, the economic importance of the global geodetic reference frame, and the need to improve global cooperation within geodesy.

Geodesy provides a coordinate reference frame for the whole planet, fundamental for:


- Monitoring changes to the Earth including the continents, ice caps, oceans and the atmosphere
- Mapping, navigation and universal timing

This coordinate system allows us to know where people and features are on the Earth. "Location" is a vital component for effective decision making.

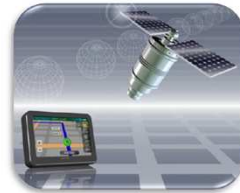
**IMPORTANT APPLICATIONS ARE:**

- Natural hazard and disaster management**  
Decision makers need an accurate and stable global geodetic reference frame to make good decisions for the future and to identify areas under threat of flooding, earthquakes or drought and to adopt preventive measurements to protect them. Geodesy provides the location basis for such decisions.
- Climate change and sea level monitoring**  
Climate change is a global challenge that puts stronger requirements on the precision of the global geodetic reference frame. Geodesy provides information about sea level changes, plate movements, land uplift, and ice sheet and glacier changes. Global society requires information about current trends at a scale measured in millimeters to detect changes of the Earth system with sufficient accuracy for local, regional and global planning.  
To be able to monitor and estimate future sea level variations, significant improvements in both geodetic infrastructure and data analysis are needed.
- Geospatial information, mapping and navigation**  
"Location-based" services are becoming increasingly important in modern society.  
The global geodetic reference frame supports satellite positioning technology and is a critical enabler of geospatial information interoperability and applications such as land filling and ownership, engineering construction, precision agriculture, intelligent transport and navigation.



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## Legal and policy frameworks



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## International geospatial standards

- Countries and Governments do not understand and/or appreciate the value of standards.
- Educate decision-makers of the value of standards at the policy level.
- Look at the high level economic value of geospatial infrastructure, standards and interoperability, and the economic benefit.
- OGC/ISO/IHO Standards Guide. The core essential standards.
- White Paper titled “National Mapping Perspective: International Geospatial Standards”



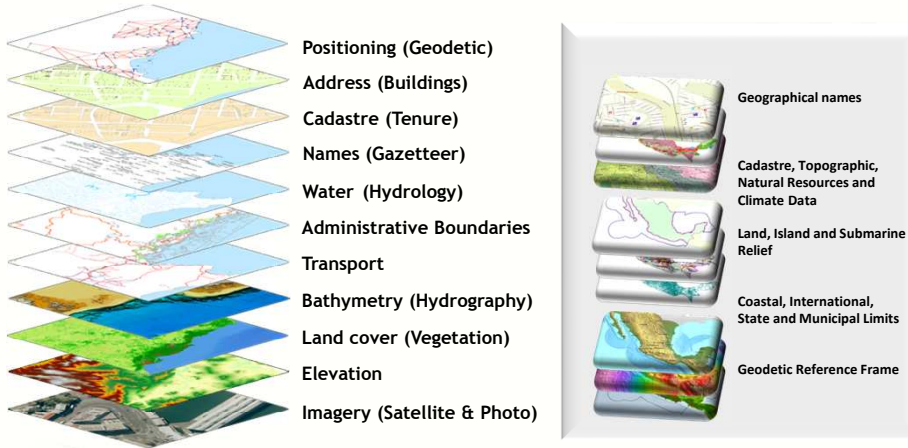
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# Global fundamental geospatial data themes



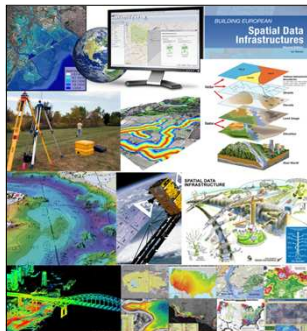
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# Our 3 pillars of potential influence





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Thank You  
Terima Kasih



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