



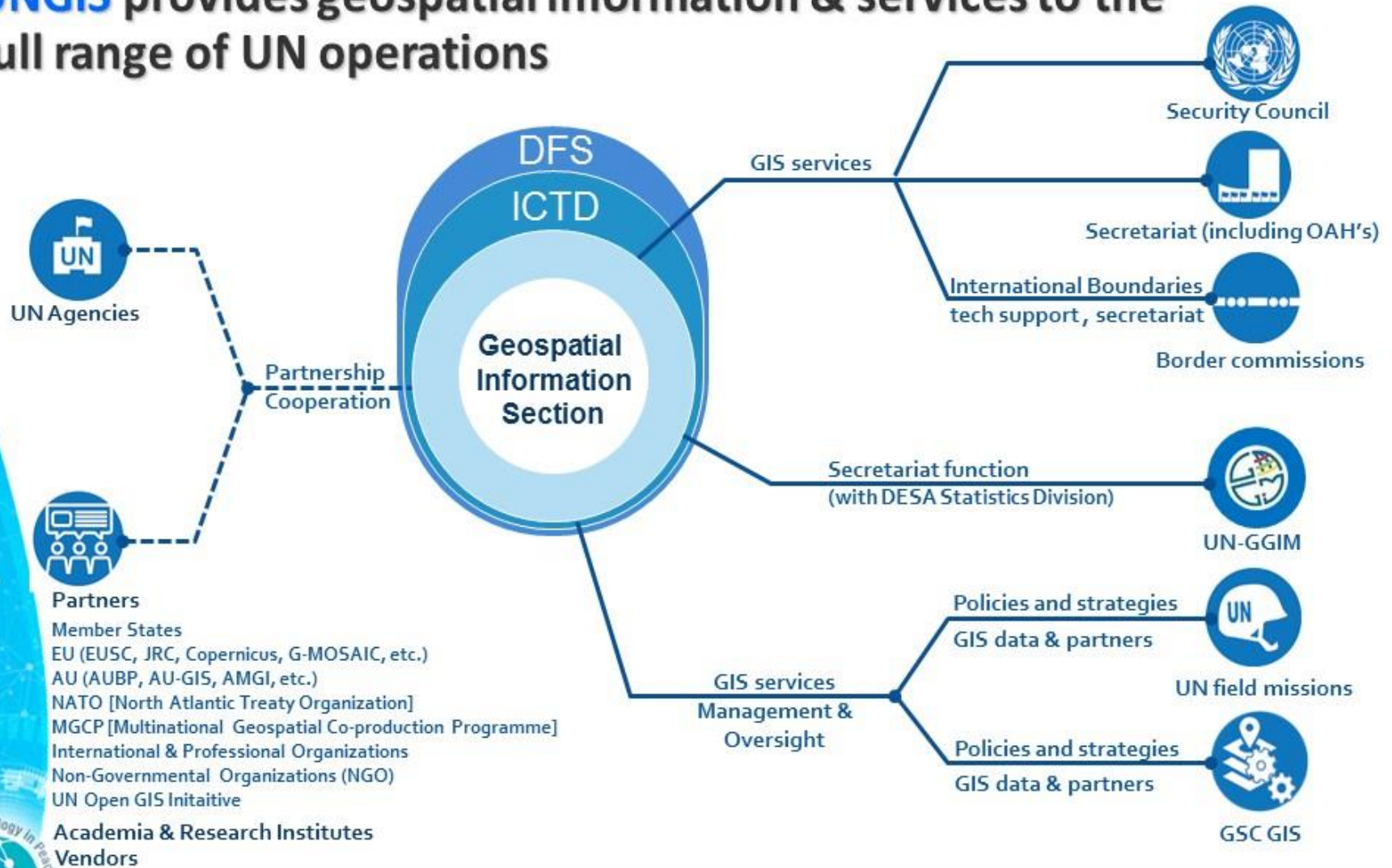
United Nations Geospatial Operations



Kyoung-Soo Eom
Chief UNGIS

UN Geospatial Operations

UNGIS provides geospatial information & services to the full range of UN operations



Where We Operate

UNHQ



UN Field Missions
(PK & SPMs)



UNGSC
(Brindisi)



UNICTFV
(Valencia)



“Twin Technology Centres”



Global Geospatial Operations

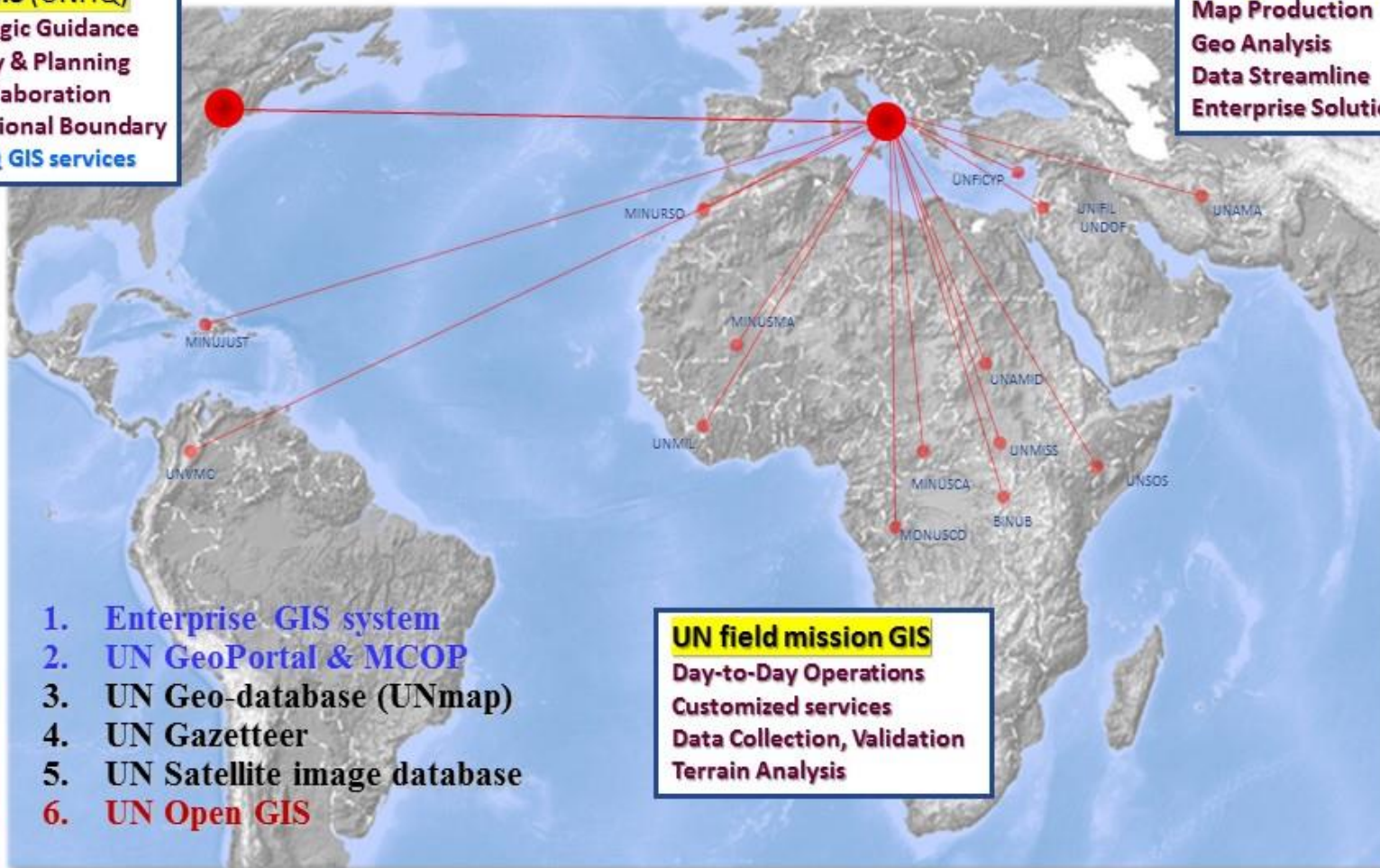
3-tier: UNHQ-UNGSC-Missions

UNGIS (UNHQ)

Strategic Guidance
Policy & Planning
Collaboration
International Boundary
UNHQ GIS services

UNGSC GIS centre

Map Production
Geo Analysis
Data Streamline
Enterprise Solutions



1. Enterprise GIS system
2. UN GeoPortal & MCOP
3. UN Geo-database (UNmap)
4. UN Gazetteer
5. UN Satellite image database
6. UN Open GIS

UN field mission GIS

Day-to-Day Operations
Customized services
Data Collection, Validation
Terrain Analysis



Strategic Framework on Geospatial Information and Services for Disasters

UN-GGIM Working Group on
Geospatial Information and
Services for Disasters
(WG-Disasters)

Kyoung-Soo Eom
Chief UNGIS
UN-GGIM Secretariat



UN-GGIM

United Nations Secretariat
Global Geospatial Information Management

Positioning geospatial information to address global challenges

ggim.un.org

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Background

1. Geospatial data sharing mechanism

is **not in place** generally to support decision-making during emergency crisis.

2. Challenges faced with

- Gathering volumes of concurrent and inconsistent geospatial data while engaging in disaster response
- Concerned with issues of coordination & communication

3. Lessons learned have emphasized

the need to find **solutions** aimed at improving:

- **availability & accessibility** of quality geospatial information/services, and
- **coordination & collaboration** among stakeholders



Source: CNN



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WG-Disasters: Working Group on Geospatial Information & Services for Disasters
(led by **Philippines** and **Jamaica**)



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Strategic Framework on Geospatial Information and Services for Disasters

Scope and Purpose

The strategic framework aims to guide all stakeholders and partners in the management of geospatial information and services in all phases of disaster risk management

Expected Outcome

The social, economic, and environmental risks and impacts of disasters are prevented or reduced through the use of geospatial information and services

Goal

Quality geospatial information and services are available and accessible in a timely and coordinated way to support decision-making and operations within and among all stakeholders and partners and in all phases of disaster risk management

Priorities for Action

Member States with the support of regional and international organizations as well as other relevant organizations should focus their action on the following five priorities for action:

Priority 1 Governance and Policies

Policies, collaborative agreements and legal frameworks aiming at improving the availability and accessibility of quality geospatial information and services among all stakeholders and partners established and implemented in all phases of DRM

Priority 2 Awareness Raising and Capacity Building

Awareness is raised among concerned entities on the importance of geospatial information and services and all necessary technical and human capacities are built and/or strengthened

Priority 3 Data Management

Geospatial databases and information products are developed based on common standards, protocols and processes as important tools in every decision-making process across all phases of DRM

Priority 4 Common Infrastructure and Services

Common facilities and services are established for all key stakeholders and partners to have a common operational picture of emergency scenarios

Priority 5 Resource Mobilization

All necessary technical, human and financial resources are available to sustain all the activities of DRM

Guiding Principles

The strategic framework is guided by the 2030 Agenda for Sustainable Development, International Strategy for Disaster Reduction, Sendai Framework for Disaster Risk Reduction (2015-2030), the UN-GGIM Global Statistical Geospatial Framework, UN General Assembly resolution on international cooperation on humanitarian assistance in the field of natural disasters, from relief to development and other relevant instruments. It is also guided by the principles of open data and requirements of national data infrastructure, and by the UN-GGIM's Statement of Shared Guiding Principles for the Management of Geospatial Information.



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Strategic Framework

1. Scope and Purpose

The Strategic Framework aims **to guide** all stakeholders and partners in the management of geospatial information & services in all phases of DRM

2. Expected Outcome

The social, economic and environmental risks and impacts of disasters are **prevented** or **reduced** through the use of geospatial information & services

3. Goal

Quality geospatial information & services are **available** and **accessible** in a **timely** and **coordinated way** to support decision-making and operations within and among all stakeholders and partners in all phases of DRM



Strategic Framework

4. Guiding Principles

2030 Agenda for Sustainable Development

International Strategy for Disaster Reduction

Sendai Framework for Disaster Risk Reduction 2015-2030

UN General Assembly resolution on international cooperation on humanitarian assistance in the field of natural disasters

UN General Assembly Resolution 59/12

Global Geospatial Statistical Framework

Open Data

National Data
Infrastructure

UN-GGIM's Statement of
Shared Principles for the
Management of Geospatial
Information



Priorities for Action



Governance
and Policies



Awareness Raising
and Capacity Building



Data
Management

Priorities for Action

LOCAL
NATIONAL

REGIONAL
GLOBAL



Common Infrastructure
and Services



Resource
Mobilization



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Priorities for Action



**Governance
and Policies**

Policies, collaborative agreements and legal frameworks aiming at improving the availability and accessibility of quality geospatial information and services among all stakeholders and partners established and implemented in all phases of DRM

Specific activities:

- **Assessment/analysis and planning**
- **Institutional arrangement**
- **Collaboration, coordination**
- **Monitoring and evaluation**



Priorities for Action



Awareness Raising
and Capacity Building

Awareness is raised among concerned entities on the importance of geospatial information and services and all necessary technical and human capacities are built and/or strengthened

Specific activities:

- Translate GIS4D for public to understand
- Inclusion of GIS4D in academic programmes
- Design & implement GIS4D information, education & communication campaign
- Training and capacity building



Priorities for Action



Data
Management

Geospatial databases and information products are developed based on common standards, protocols and processes as important tools in every decision-making process across all phases of DRM

Specific activities:

- Data development
- Data standards and protocols
- Data use guidelines



Priorities for Action



**Common Infrastructure
and Services**

Common facilities and services are established for all key stakeholders and partners to have a common operational picture of emergency scenarios

Focused on interoperability of systems and processes to allow geospatial data & information sharing among all actors



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Priorities for Action



**Resource
Mobilization**

All necessary technical, human and financial resources are available to sustain all the activities of DRM

refers to human resources, as well as technical, financial and other forms of logistical and administrative support required for the creation, improvement and maintenance of all geospatial information and services in order to sustain all DRM activities



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ECOSOC Resolution (adopted on 2 July 2018)

United Nations E/2018/L.15

 **Economic and Social Council** Distr.: Limited
20 June 2018
Original: English

2018 session
27 July 2017–26 July 2018
Agenda item 18 (3)
**Economic and environmental questions:
geospatial information**

Jamaica* and Philippines: draft resolution

Strategic Framework on Geospatial Information and Services for Disasters

The Economic and Social Council,



Recalling General Assembly resolution 66/288 of 27 July 2012, by which the Assembly endorsed the outcome document of the United Nations Conference on Sustainable Development, entitled “The future we want”, which recognized the importance of space technology-based data, in situ monitoring and reliable geospatial information for sustainable development policymaking, programming and project operations,

Recalling also General Assembly resolution 70/1 of 25 September 2015, by which the Assembly adopted the document entitled “Transforming our world: the 2030 Agenda for Sustainable Development”, which recognized that quality, accessible, timely and reliable disaggregated data will be needed to help with the measurement of progress and to ensure that no one is left behind,

Recalling further General Assembly resolution 69/283 of 3 June 2015, by which the Assembly endorsed the outcome documents of the Third United Nations World Conference on Disaster Risk Reduction, entitled “Sendai Declaration” and “Sendai Framework for Disaster Risk Reduction 2015–2030”, which recognized the importance of a concise, focused, forward-looking and action-oriented post-2015 framework for disaster risk reduction and the importance of disseminating risk information with the best use of geospatial information technology,

Recalling General Assembly resolution 71/256 of 23 December 2016, by which the Assembly endorsed the outcome document of the United Nations Conference on Housing and Sustainable Urban Development (Habitat III), entitled “New Urban Agenda”, which committed to strengthening the resilience of cities and human settlements, including through the development of quality infrastructure and spatial planning, by adopting and implementing integrated, age- and gender-responsive policies and plans and ecosystem-based approaches in line with the Sendai Framework for Disaster Risk Reduction 2015–2030 and by mainstreaming holistic

* In accordance with rule 72 of the rules of procedure of the Economic and Social Council.

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¹ See Official Records of the Economic and Social Council, 2015, Supplement No. 26 (E/2015/46), chap. I, sect. B.
² *Ibid.*, 2017, Supplement No. 46 (E/2017/46), chap. I, sect. B.

1. ECOSOC **endorses** the **Strategic Framework** as a **guide** for Member States **to ensure** the availability and accessibility of quality geospatial information and services across all phases of disaster risk reduction and management.
2. **ECOSOC invites** Member States, the United Nations system, international organizations, donors, the private sector, academia and NGOs with responsibility for disaster risk reduction and management **to adopt the Strategic Framework**, recognizing that disaster risk reduction and management requires the commitment and cooperation of all stakeholders

<http://ggim.un.org/UNGGIM-wg5/>



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Implementation

1. Member States & key Partners (GGIM)

- **Adopt** and **implement** the Strategic Framework, focusing on the vital role of GIS4D
- Proactively **participate** and **support** international agreements on DRM
- **Delineate** specific responsibilities across decision-making

2. Member States & all Stakeholders (non-GGIM)

- **Solicit** commitment in implementing **Priorities for Action**
- Encourage to **improve** their capacity in providing GIS4D
- Encourage to **promote** the goals of , and **translate** them to local, national, regional and global implementation plan



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UNITED NATIONS SECRETARIAT
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT

Thank you for your kind attention!

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