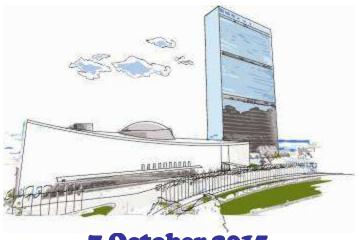
Geospatial Information and Services for Disasters

20th UNRCC-AP



7 October 2015



UNGIS

Kyoung-Soo Eom
Chief, Geospatial Information Section
Department of Field Support
United Nations

Page 1

UN

UN Geospatial Information Section

UNGIS provides geospatial information service support to the full range of United Nations operations

Principal duties include:

- 1. Provide accurate and timely geospatial information in support of the decision-making and operational needs of
 - . UN Security Council
 - . UN Secretariat
 - . UN Peace Operations (DPKO, DPA, DFS)
 - . UN Operations & Crisis Centre (UNOCC)
- 2. Programme management for global UN field mission GIS operations
- 3. Provide technical assistance on International Boundary issues
- 4. Co-Secretariat (with SD/DESA) of UN Committee of Experts on Global Geospatial Information Management (UN-GGIM)

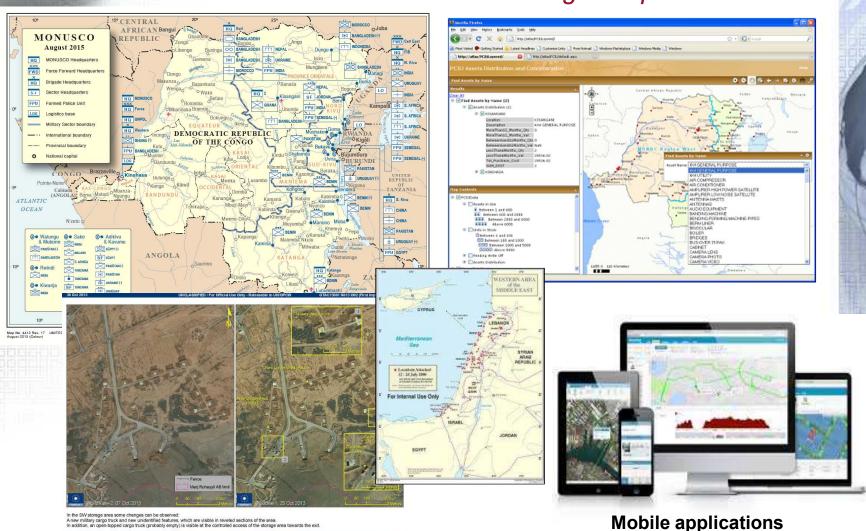




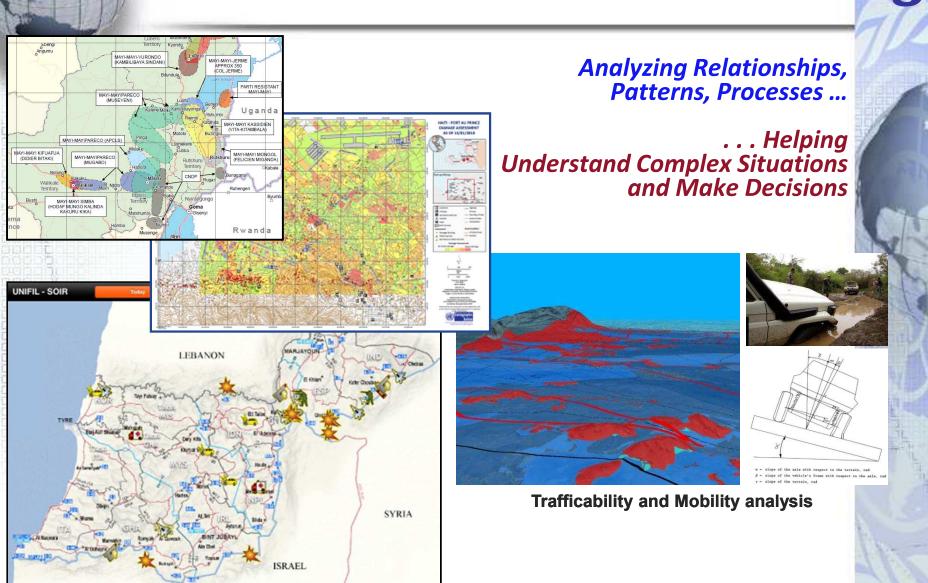


Evidence-based Decision Making

... Communicating Complex Information.



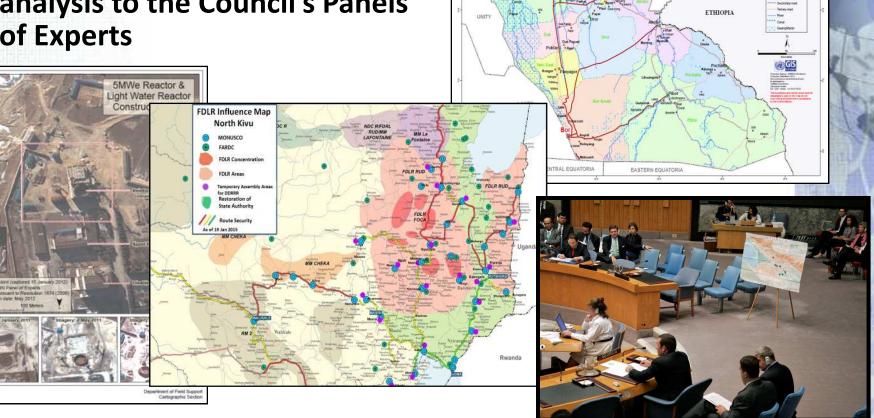
Evidence-based Decision Making





UN Security Council

- Provide Geo-information during the daily Council's consultations
- Provide Geo-information & analysis to the Council's Panels of Experts



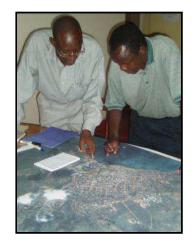
Jonglei State

UN Peace Operations











Geospatial Information and Services for Disasters

- Fact finding analysis
- Proposed strategic framework & flowcharts
- 5th session of UN-GGIM decision
- Update on Progress
- Desired Future Plan

What would you expect in Disaster?

- All the geospatial information necessary to support decision making for Disaster management are available from authoritative sources.
- All the stakeholders involved are using the same information to ensure a common operational picture of the situation during the response as well as the recovery and reconstruction phases.

What is happening in the reality?

The mechanisms and resources are generally not in place before a crisis happens. As a result, the many actors simultaneously engaged in the response are:

- Generating an important volume of concurrent and frequently overlapping geospatial information initiatives;
- Adding to the burden of the local institutions which already have to deal with limited resources and this because of their competing priorities, combined with a lack of coordination and collaboration

Survey: People involved in disasters

Main challenges in accessing geospatial information:

65% Lack of data collection standards

51% Data placed on many different platforms

47% Data access not timely

Main challenges in using geospatial information:

63% Conflicting or contradicting datasets

55% Metadata is not available

51% Data of poor quality

Main challenges in using products:

45% Duplicated products make information overwhelming

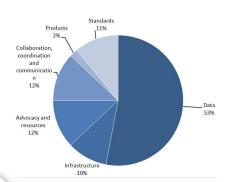
38% Duplicated products with conflicting information

Main challenges in sharing products:

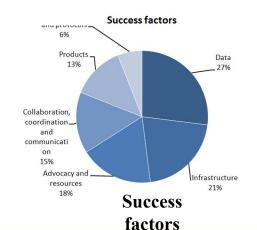
57% Numerous platforms to share these products

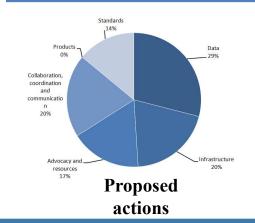
30% Sharing of products not allowed

Major bottlenecks



JN-GGIM





Survey: Government Agencies

23 of the 25 Governmental Agencies indicated **having custodianship** on at least one geospatial information layer

24 of these Governmental Agencies have a GIS unit/team/data center with a number of staff ranging from 1 to more than 12

A law, rules or regulations requesting for the Agency to provide geospatial information and/or service in support to the response to an emergency exist in 10 of the 25 countries but only 3 covers the international community.

44% of the Governmental Agencies received some technical support over the past 5 years but all of them indicated needing more support to be in position to deliver adequate geospatial information and geospatial information services

40% of the agencies think that the international community involved in the response did not leverage enough their existing geospatial information and/or technical capacities.

Fact Finding Analysis

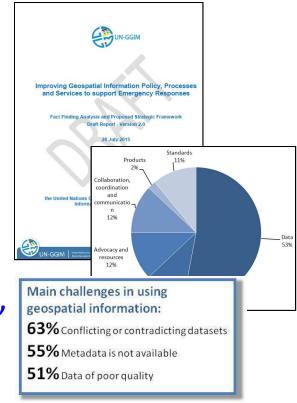
- Existence of challenges and gaps when it comes to:
 - availability, quality (completeness, timeliness, accuracy, authoritativeness, documentation) and accessibility of geospatial information;
 - collaboration, coordination and communication;
- Existence of geospatial information and technical capacity in countries but need to strengthen and better leverage them;
- Limited number of countries have laws, rules or regulations in place to facilitate the provision of data and services for cooperation with the international community in case of disaster.

Fact Finding Analysis

Allowed identifying

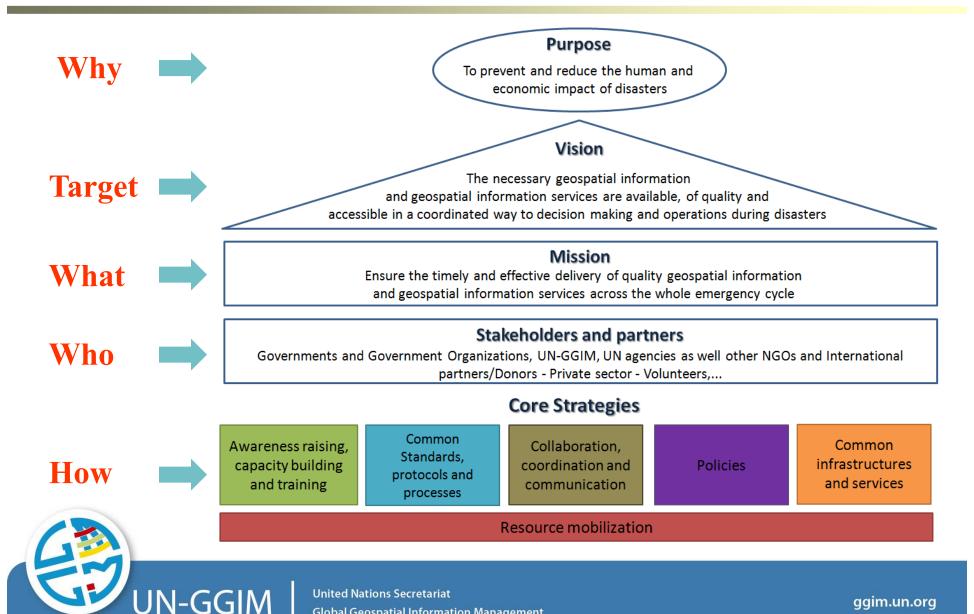
IN-GGIM

- challenges and bottlenecks, encountered by stakeholders and partners;
- major success factors and opportunities to address them;
- These finding got crystallized into a proposed strategic framework which, if implemented, would allow for the necessary geospatial information and services to be available in a coordinated way to decision making and operations during disasters.

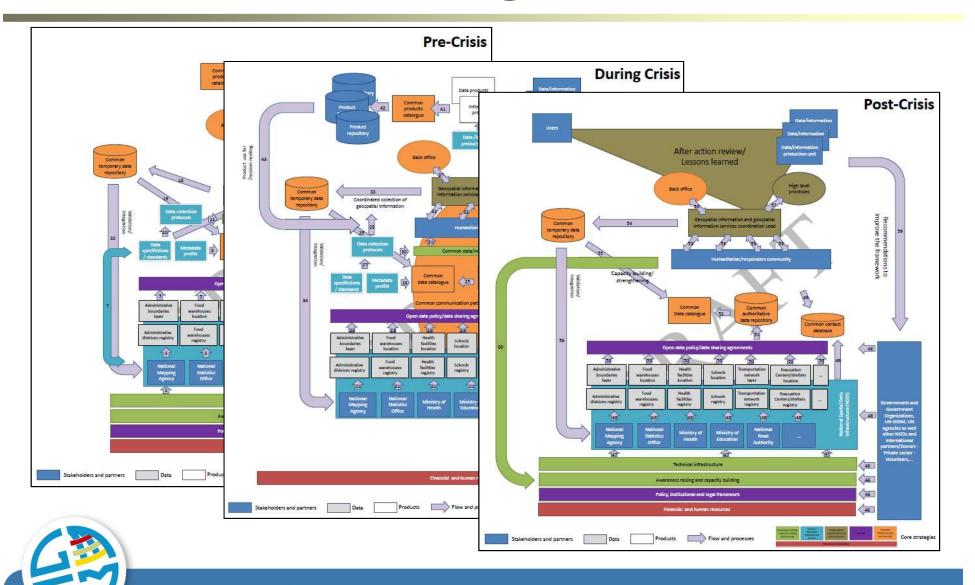


40% of the agencies think that the international community involved in the response **did not leverage enough** their existing geospatial information and/or technical capacities.

Proposed Strategic Framework



Proposed Strategic Flowcharts



UN-GGIM

UN-GGIM Contribution

The **UN-GGIM**, **through its mandate**, is well placed to contribute to several of the core strategies included in the framework, and this starting with:

- Raising the awareness of Member States on the importance of data preparedness, National Spatial Data Infrastructure (NSDI) and open data policies;
- Developing and promoting common standards, protocols and processes aiming at improving data quality and data interoperability at the global level;
- Developing and implementing policies aiming at improving the availability, quality and accessibility of geospatial information and services.

5th Session of UN-GGIM: Side Event



- 55 participants;
- 23 countries;
- 4 presentations

The discussions highlight the importance of:

- Getting all the lead players to agree on their respective roles and mandate regarding geospatial information and services during disasters;
- Conducting drills involving all the players prior to disasters;
- Looking at the bigger picture to ensure UN-GGIM does assist existing processes

5th Session of UN-GGIM: Decision

- Welcomed the study on improving geospatial information policy, processes and services to support emergency response and disaster risk reduction;
- Strongly supported the proposal to establish a working group to further develop and implement a strategic framework and gain the following guidance from the working group:
 - That it be focused in a practical manner;
 - Aligned with the outcome and follow-up to the Sendai Framework for disaster risk reduction and its implementation;
 - Take into consideration the special needs of developing countries, especially with respect to capacity building and sharing knowledge; and
 - Be broadly representative of different regions of the world and taking into account regional experiences;
 - Welcomed the many expressions of interest by the Member States and invited the working group to report back to the Committee at its next session in 2016

What happens since then?

- Updated & circulated the Fact finding and Framework Report;
- Established Working Group:
 - 20 Members States,
 - 1 Non-Member States,
 - 5 UN agencies,
 - 1 International Organization,
 - 3 Professional Organizations,
 - 2 Private sector
- Circulated draft Terms of Reference (TOR);
- Nominated Co-chairs: Philippines and Jamaica

Draft Terms of Reference (TOR)

Vision

The necessary geospatial information and services are available, of quality and accessible in a coordinated way to decision making and operations during disasters

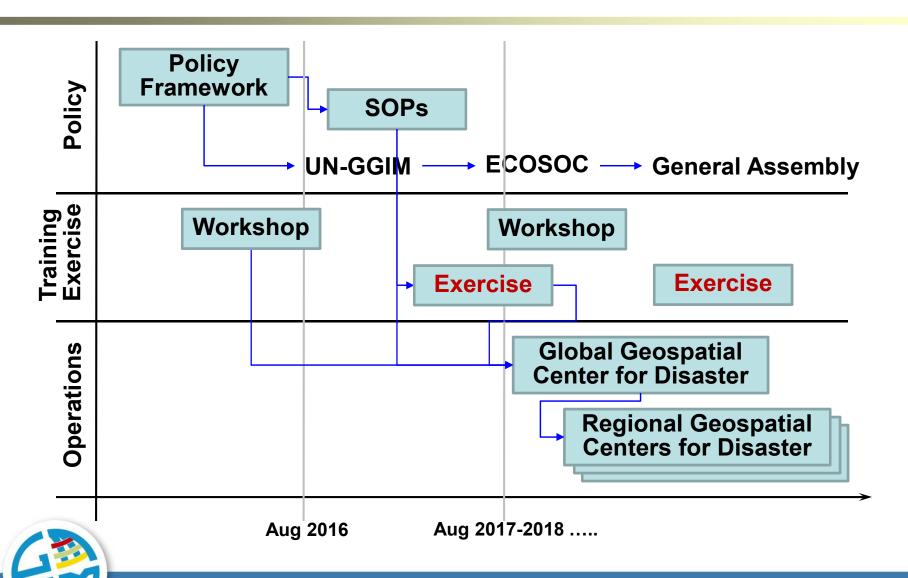
Scope

Develop a policy framework that brings all stakeholders and partners involved in Disaster Risk Reduction and/or Emergency Management

Goals

- Improve the draft framework and flowcharts
- Review of laws, rules and regulations already existing
- Develop draft policy framework

Desired Future Plan



UN-GGIM



Thank you for kind attention!

