



3rd High Level Forum on UN Global Geospatial Information Management in Beijing,

Session 3: Climate Change and Disaster Mitigation

23 October 2014

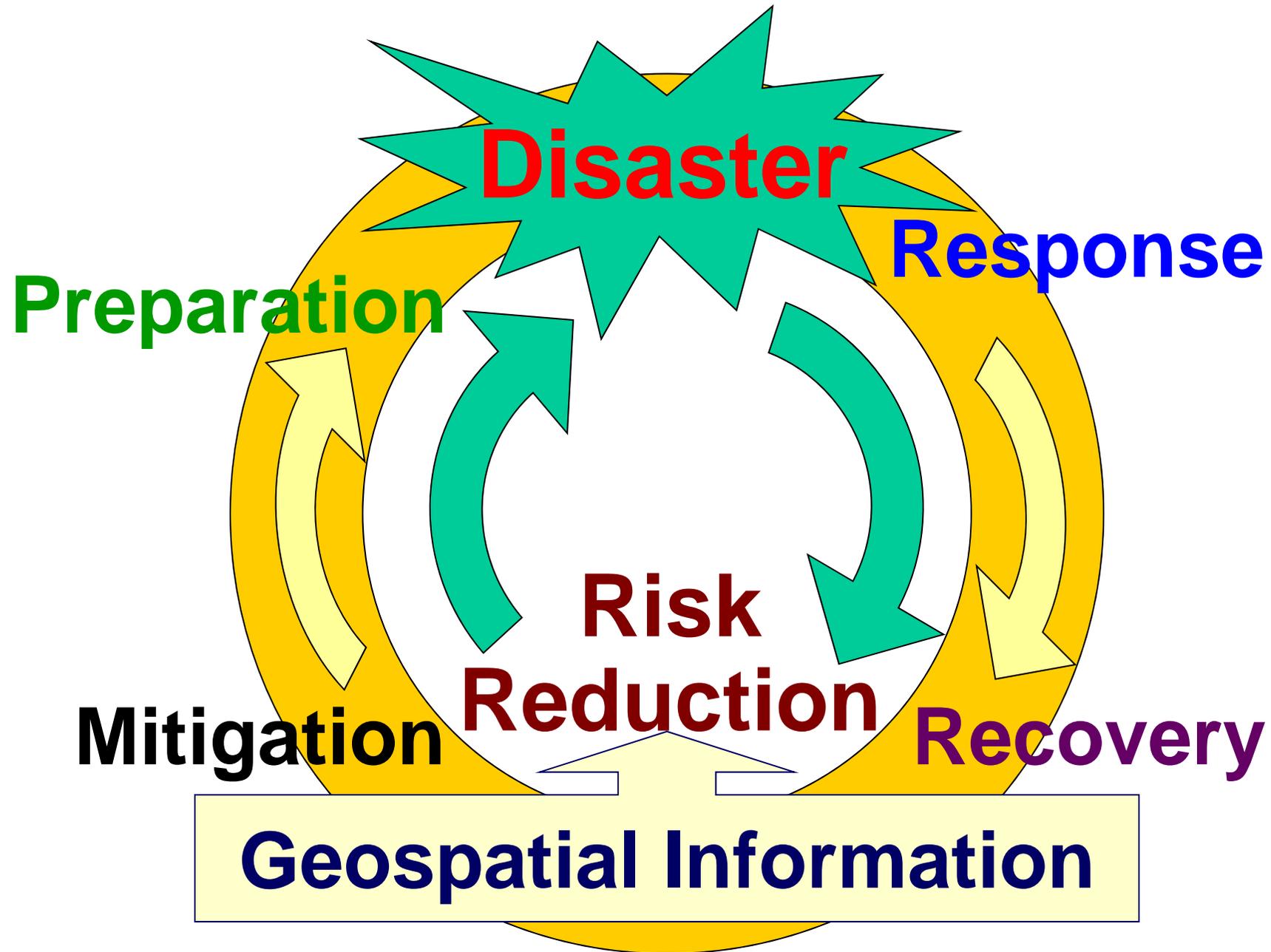
# The Role of Geospatial Information in Disaster Risk Reduction

Hiroshi UNE

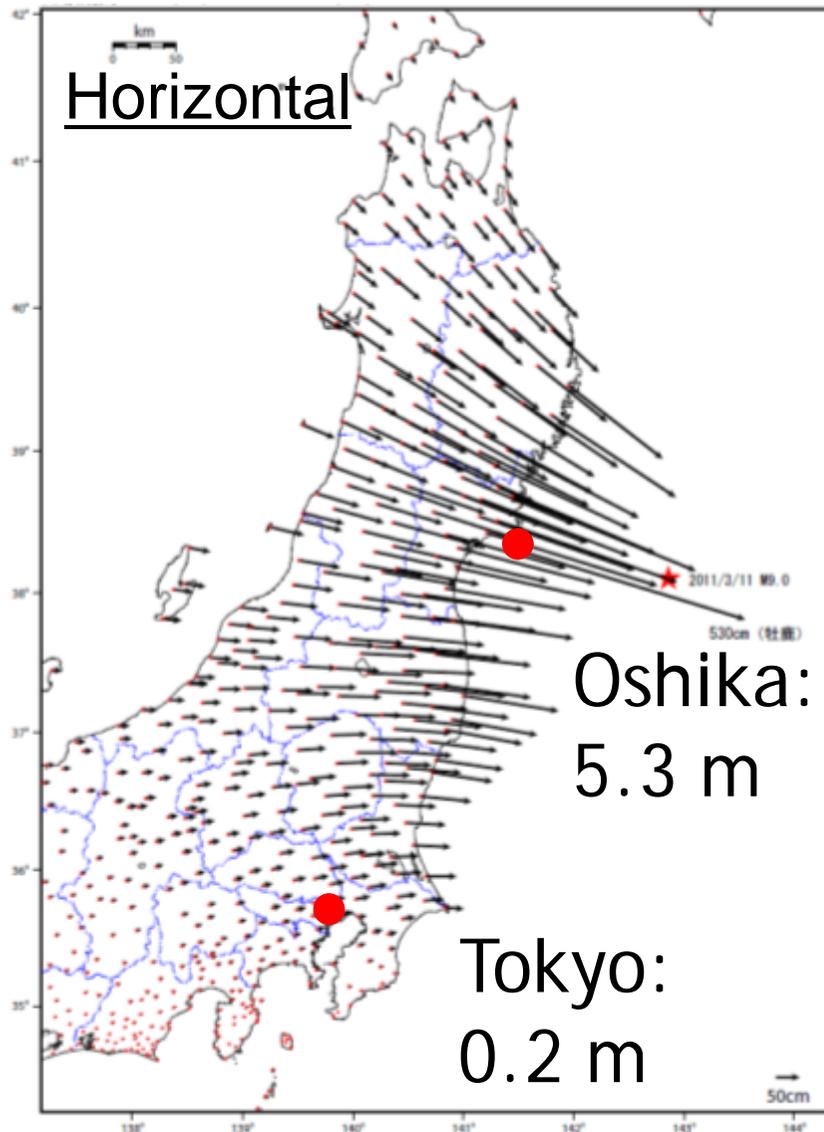
Senior Executive Officer, Planning Department,  
Geospatial Information Authority of Japan

# Disaster losses are increasing



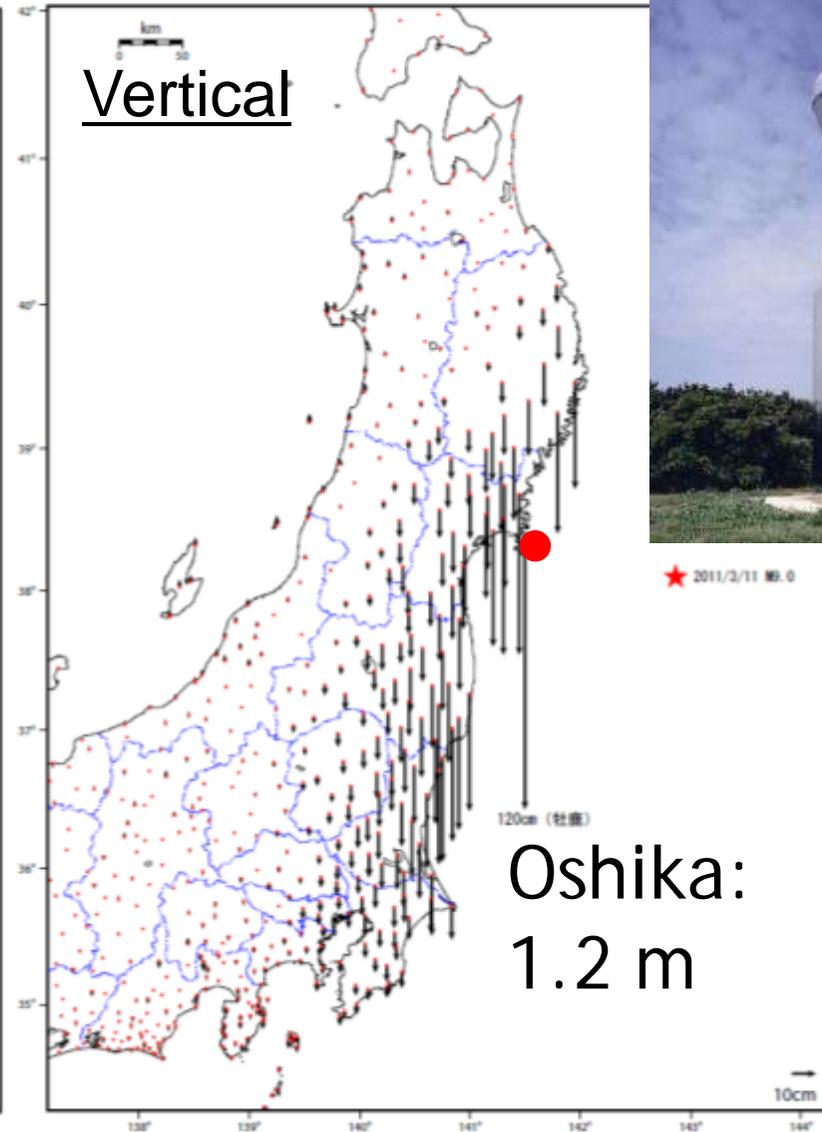


# GNSS monitoring visualizes ground movement



【基準：R3速報値 比較：Q3速報値】

※国定局：三隅（950388）  
国土地理院



【基準：R3速報値 比較：Q3速報値】

※国定局：三隅（950388）  
国土地理院



2011/3/11 震.0

# Air photos clearly show disaster impact

お気に入り | おすすめサイト | Web スライス ギャラ...

63関東地方測量部 | http://saigai.gsi.go.jp/...

ページ(P) | セーフティ(S) | ツール(O)

仙台市若林区荒浜周辺の被災状況  
(新旧画像)

被災前(平成18年10月撮影)

被災後(平成23年3月12日撮影)

(黒い部分は雲の影)

500m

国土地理院  
Geospatial Information Authority of Japan

完了

不明なゾーン | 保護モード: 有効

5

# Amendment to Basic Act for Disaster Countermeasures in Japan

- To protect land and property of the country/people from hazards by making necessary institutional arrangements and other measures including financial provisions
- 24 designated organizations including Geospatial Information Authority of Japan are Mandated to gather and share information on disasters, while **maximizing the use of geospatial information.**

Amended after  
3.11 Earthquake

## Conclusions of Chengdu Forum

- “Geospatial information has a vital role to play in all phases of hazard and disaster risk management and reduction, and it extends the ability for nations to not only map their geography and topography, but also those areas that are vulnerable to natural hazards, particularly in urban environments.”

# We all know, but do they know?



Geospatial Information  
Community



Disaster Risk Management  
Community

# The Hyogo Framework for Action(HFA)

- The first UN official plan to explain, describe and detail the work that is required from all different sectors and actors to reduce disaster losses.
- Came out from 2<sup>nd</sup> WCDRR in 2005.
- Its goal is to substantially reduce disaster losses by 2015 by building the resilience of nations and communities to disasters.

# Relevant descriptions in HFA

- “Develop, update periodically and widely disseminate **risk maps** and related information to decision makers, the general public and communities at risk in appropriate format.”

# Relevant descriptions in HFA

- “Promote the application of *in situ* and space-based earth observations, space technologies, remote sensing, **geographic information systems**, hazard modelling and prediction, ...”
- “Promote the use, application and affordability of recent information, communication and space-based technologies and relevant services, as well as earth observations, ...”

# 3<sup>rd</sup> WCDRR in Sendai

UNISDR PreventionWeb

14-18 March 2015  
Sendai, Japan[HOME](#)[CONFERENCE](#)[PREPARATORY PROCESS](#)[MEMBER STATES](#)[UN & IGOS](#)[MAJOR GROUPS](#)[RESOURCES](#)[Click here to register](#)

HOME • CONFERENCE

**About**

Programme

- Inter-Governmental Segment
- Multi-Stakeholder Segment
- Public Forum

Registration

Practical Information

Sasakawa Award 2015

## About the Third UN World Conference on Disaster Risk Reduction

The Third UN World Conference on Disaster Risk Reduction will be held from 14 to 18 March 2015 in Sendai City, Miyagi Prefecture, Japan. Several thousand participants are expected, including at related events linked to the World Conference under the umbrella of building the resilience of nations and communities to disasters.

The United Nations General Assembly Resolution for 2013 on International Strategy for Disaster Reduction states that the World Conference will result in a concise, focused, forward-looking, and action-oriented outcome document and will have the following objectives:

- To complete assessment and review of the implementation of the Hyogo Framework for Action;
- To consider the experience gained through the regional and national strategies/institutions and plans for disaster risk reduction and their recommendations as well as relevant regional agreements within the implementation of the Hyogo Framework of Action;
- To adopt a post-2015 framework for disaster risk reduction;
- To identify modalities of cooperation based on commitments to implement a post-2015 framework for disaster risk reduction;
- To determine modalities to periodically review the implementation of a post-2015 framework for disaster risk reduction.

# 3<sup>rd</sup> WCDRR in Sendai

- To complete assessment and review of the implementation of the Hyogo Framework for Action;
- To consider the experience gained through the regional and national strategies/institutions and plans for disaster risk reduction and their recommendations as well as relevant regional agreements within the implementation of the Hyogo Framework of Action;
- **To adopt a post-2015 framework for disaster risk reduction;**
- To identify modalities of cooperation based on commitments to implement a post-2015 framework for disaster risk reduction;
- To determine modalities to periodically review the implementation of a post-2015 framework for disaster risk reduction.

# The Co-Chairs' Zero Draft Released

- The co-chairs of the Preparatory Committee for the 3rd UN WCDRR have released the zero draft of the post-2015 framework for disaster risk reduction;
- <http://www.wcdrr.org/preparatory/post2015>

# Current Zero Draft

- No reference on “geospatial information” nor “geographic location”.
- The words “risk mapping” and “geographic information systems” no longer exist.

# Take actions toward 3<sup>rd</sup> WCDRR in Sendai

Participants of this Forum are recommended to take actions to convince disaster risk reduction policy makers and diplomats who participate in WCDRR and its preparation process through your governments and relevant organizations.

**It's NOW or NEVER!**