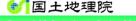


How the National Mapping Organization of Japan responded to the Great East Japan Earthquake?

Toru Nagayama

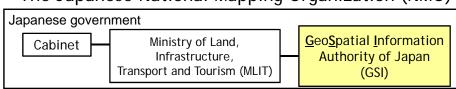
Geospatial Information Authority of Japan (GSI)
TS03K - Special Session on Catastrophic Disaster of East Japan
Earthquake and Tsunami



Geospatial Information Authority of Japan

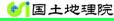
About GSI

The Japanese National Mapping Organization (NMO)

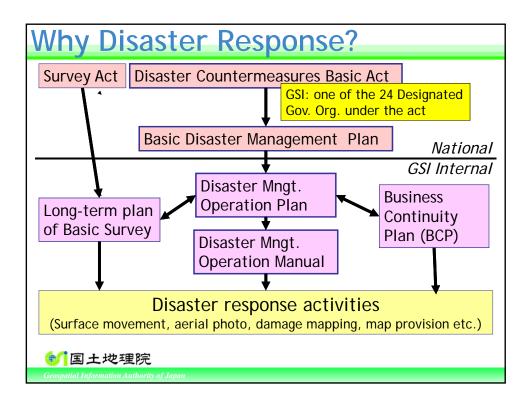


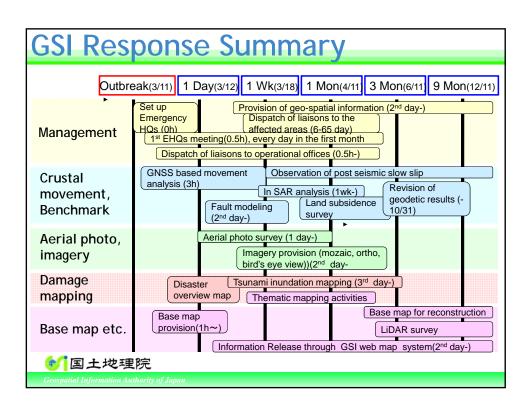
- Functions
 - (+) National geodesy & mapping, SDI policy & promotion
 - (-) Cadastral, land & real estate manag., hydrography
- 1868 Established, 1945 Civilized.
- No. of Staff: 719 (2011)
- Budget: 10.7 Bil. JPY(ca. 130 Mil. USD)



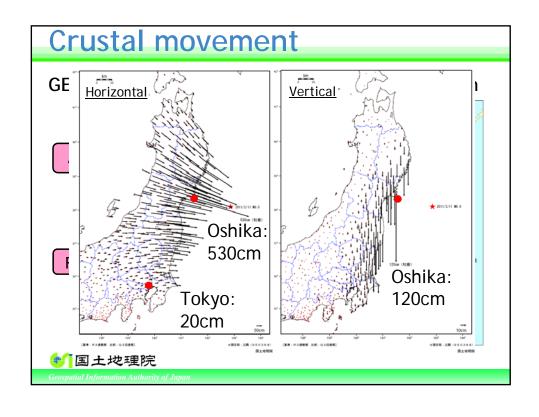


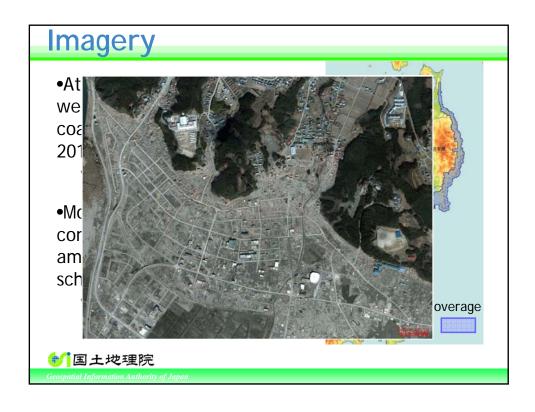
Geospatial Information Authority of Japan

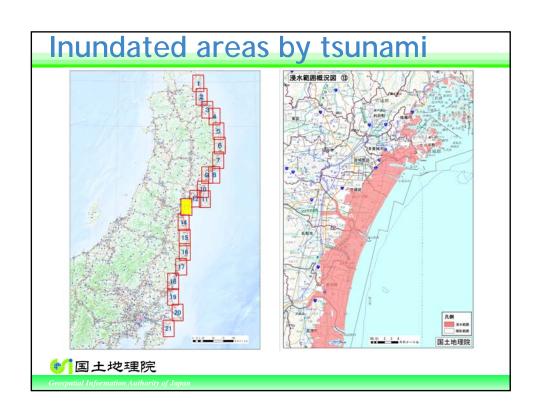




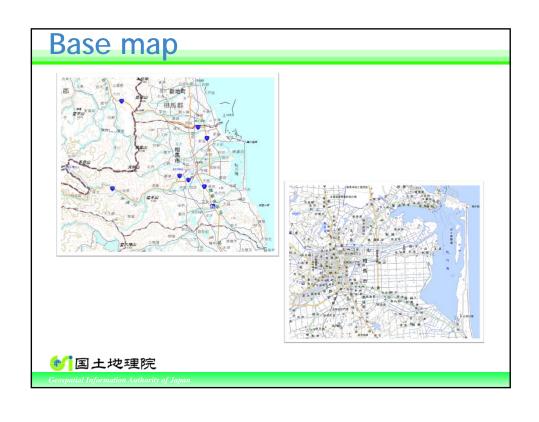






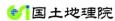






Distribution channels

- (1) Through humanitarian relief logistics by JSDF(Self Defense Force)
- (2) Liaisons stationed in Sendai city
- *Map & Data provision to rescue and recover organizations
- (3) Geospatial Info. Support Team
- *One stop center at GSI HQs,
- *1,537 requests (by 2012/3/31) (2) + (3)
- (4) Website at http://www.gsi.go.jp
- *For the general public







Use of geospatial Information



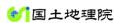
🔼 Kesennuma City Miyagi Prefecture

- Used Tsunami map and Hi-res air photo
- Efficient issuance of building damage certification to citizens



Forestry and Forest Products Research Institute, Tohoku Branch

- Used aerial photos examining damaged costal pine forests
- Measurement with stereograph: tree height, ground height etc.











Conclusions

- •The largest disaster in 80 yrs. in Japan
- •GSI provided geospatial information
- Achievements: Liaisons, Gl support team & EQ free building
- •Challenges: Infra. stability, better operation & outreach strategy
- Prepare for the next disaster
 ★プ国土地理院

Geospatial Information Authority of Japan