

# Promotion of NSDI in Japan

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GSI International

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# Promotion of NSDI in Japan

- At the level of the entire government
  - NSDI Steering Committee
  - NSDI Working Groups
  
- At the level of national geospatial information authority
  - GNSS CORS Infrastructure
  - Web Maps (geoportal)
  - Moment of truth as in disaster response

# NSDI Steering Committee

## NSDI steering committee\*

\* Committee for  
the advancement of Utilizing Geospatial Information

Chair: Deputy chief cabinet secretary  
(parliamentary and administration)

Acting: Assistant deputy chief cabinet secretary

Members: Bureau directors of relevant agencies  
including director-general of GSI

**Secretariat:** Cabinet, MLIT\* and GSI

\* National and regional policy bureau, ministry of  
land, infrastructure, transport and tourism

Geographic information  
systems WG

Satellite positioning  
WG

Geospatial project  
promotion WG

### Review Teams

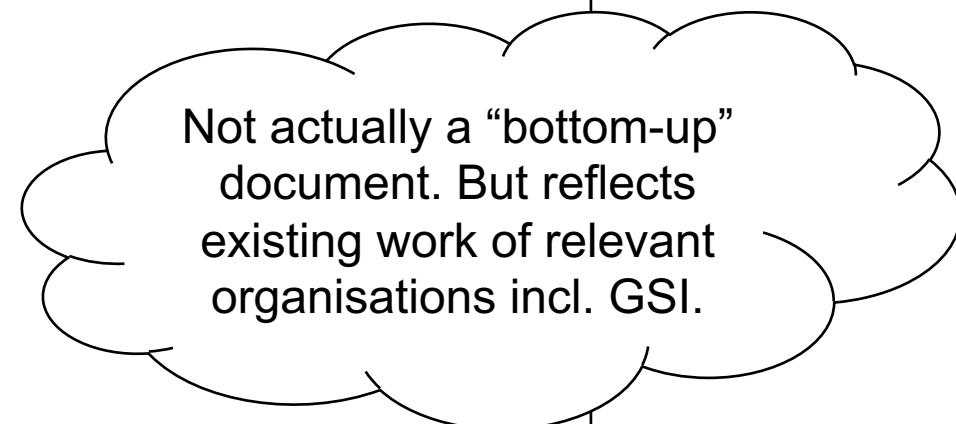
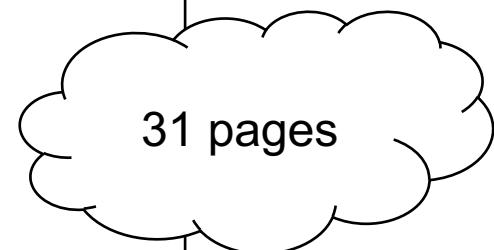
- RT on protecting personal information and intellectual property
- RT on national security
- RT on development and update of fundamental geospatial data

### Promotion Teams

- PT for utilization of geospatial information center
- PT for advancement of disaster prevention system
- PT for IT-based agriculture, forestry and fisheries
- PT for vitalization of communities and small and mid-size enterprises
- PT for overseas development

## **Basic Plan for the Advancement of Utilizing Geospatial Information**

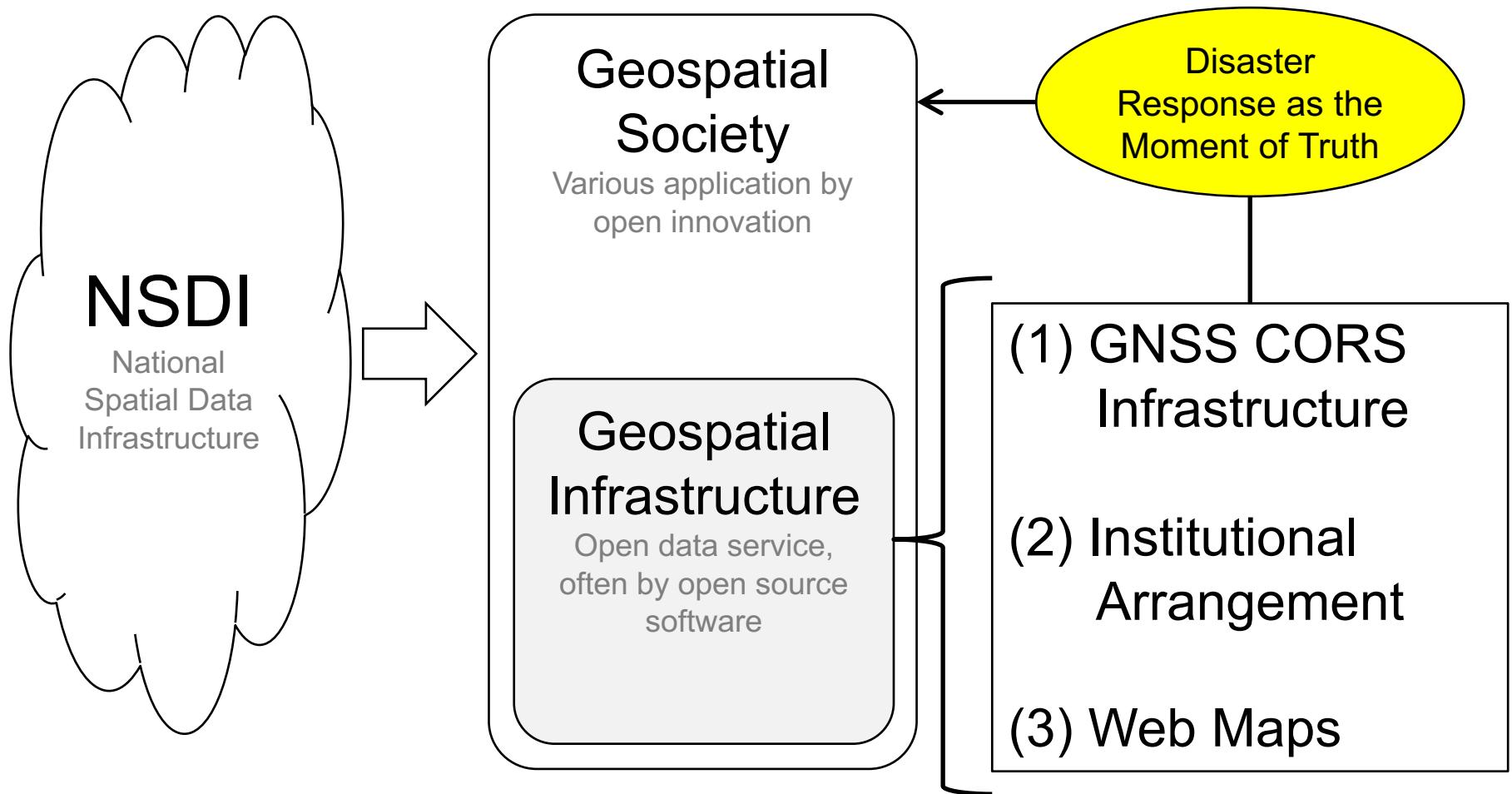
(Provisional English Translation\*)



Cabinet decision of March 27, 2012

# Geospatial Infrastructure

GSI broke down our contribution to NSDI into 3 components.  
**ownership** and **involvement** matters, to implement NSDI.



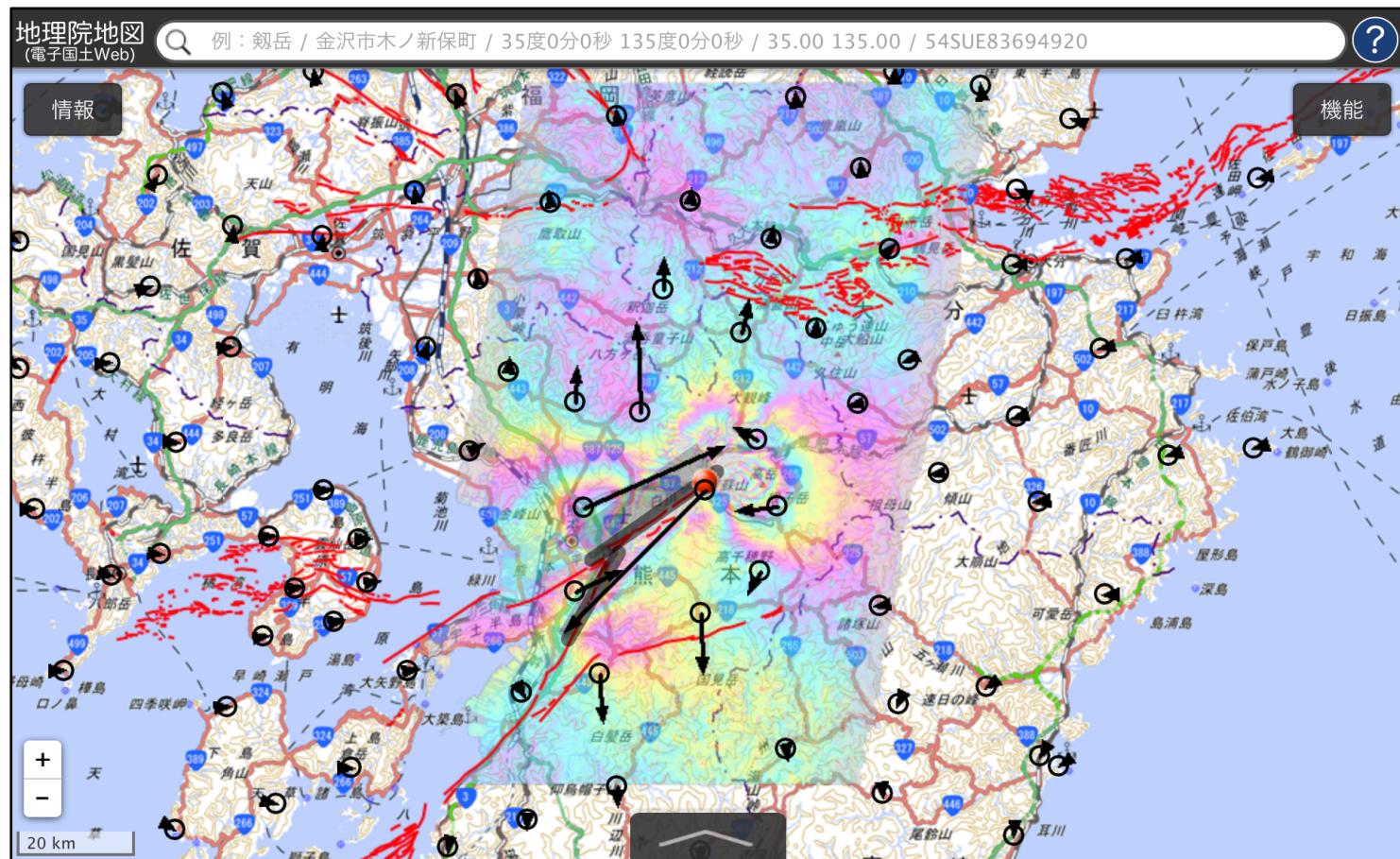
The best way to promote NSDI components is to provide the best performance in a most relevant use case.

In the case of GSI, the use case was the disaster response.

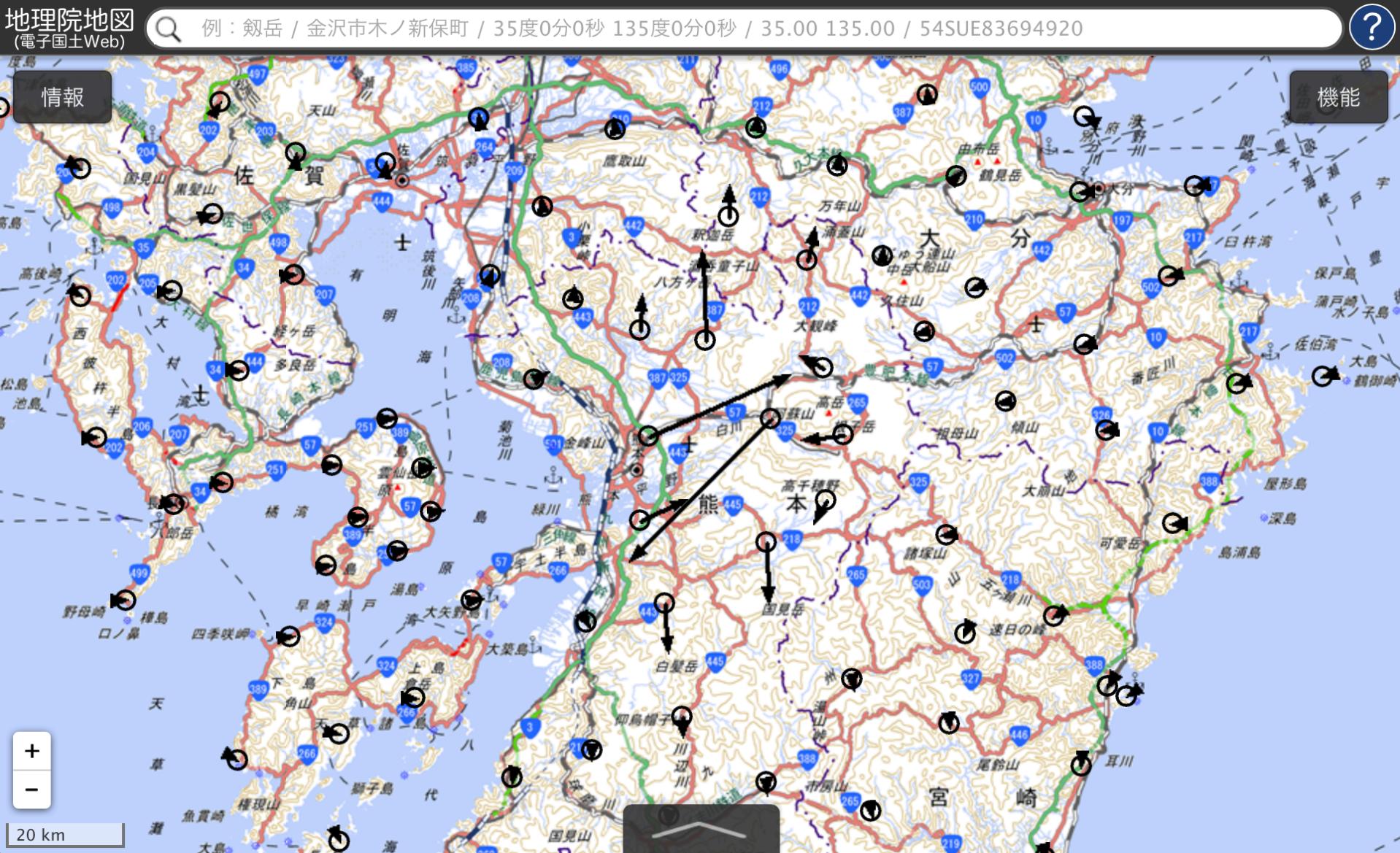
# Disaster Response

## Disaster Response is the **Moment of Truth** for Geospatial Infrastructure

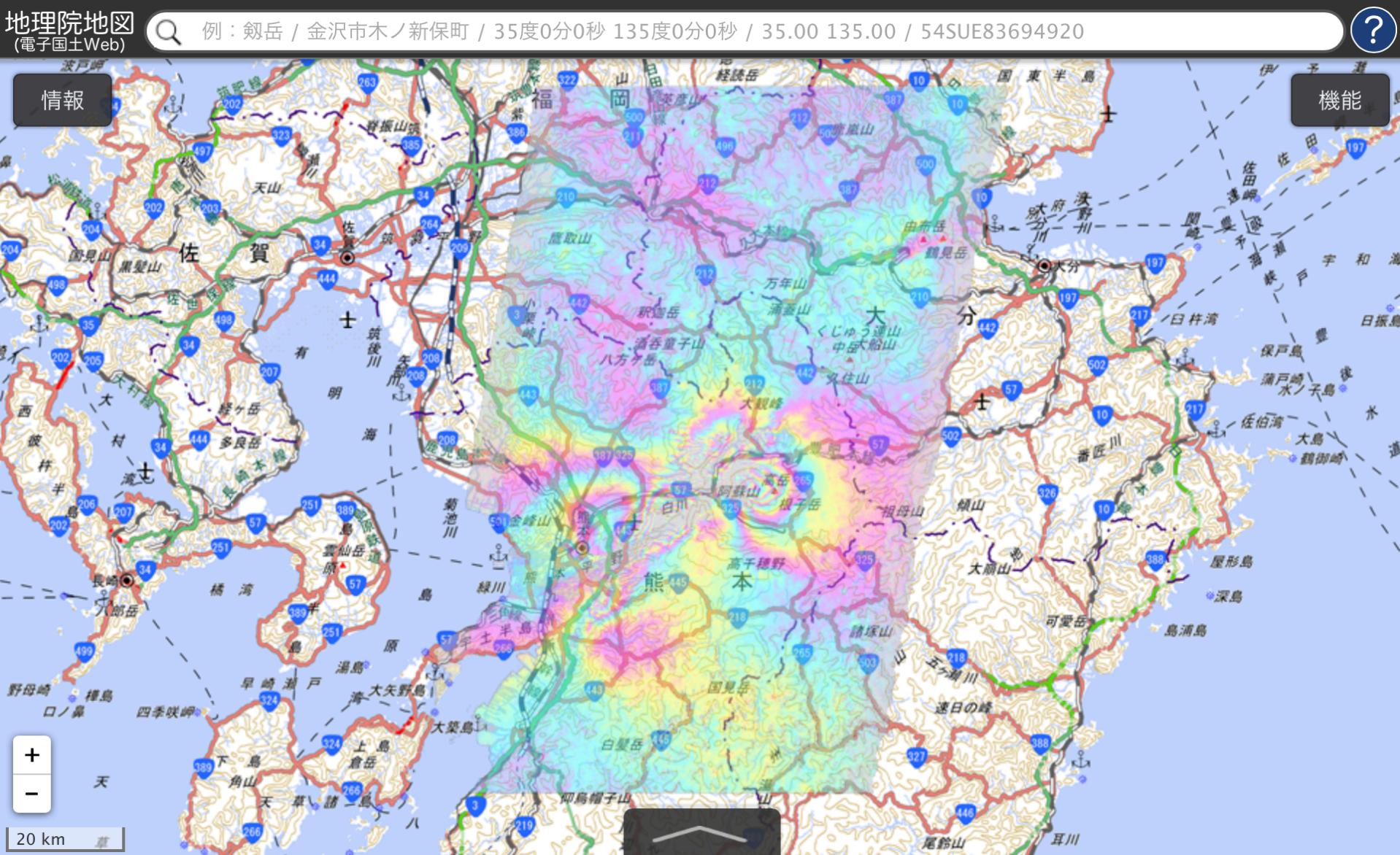
- high demand for scalability, timeliness, and accuracy.



# Horizontal movement of GNSS CORS



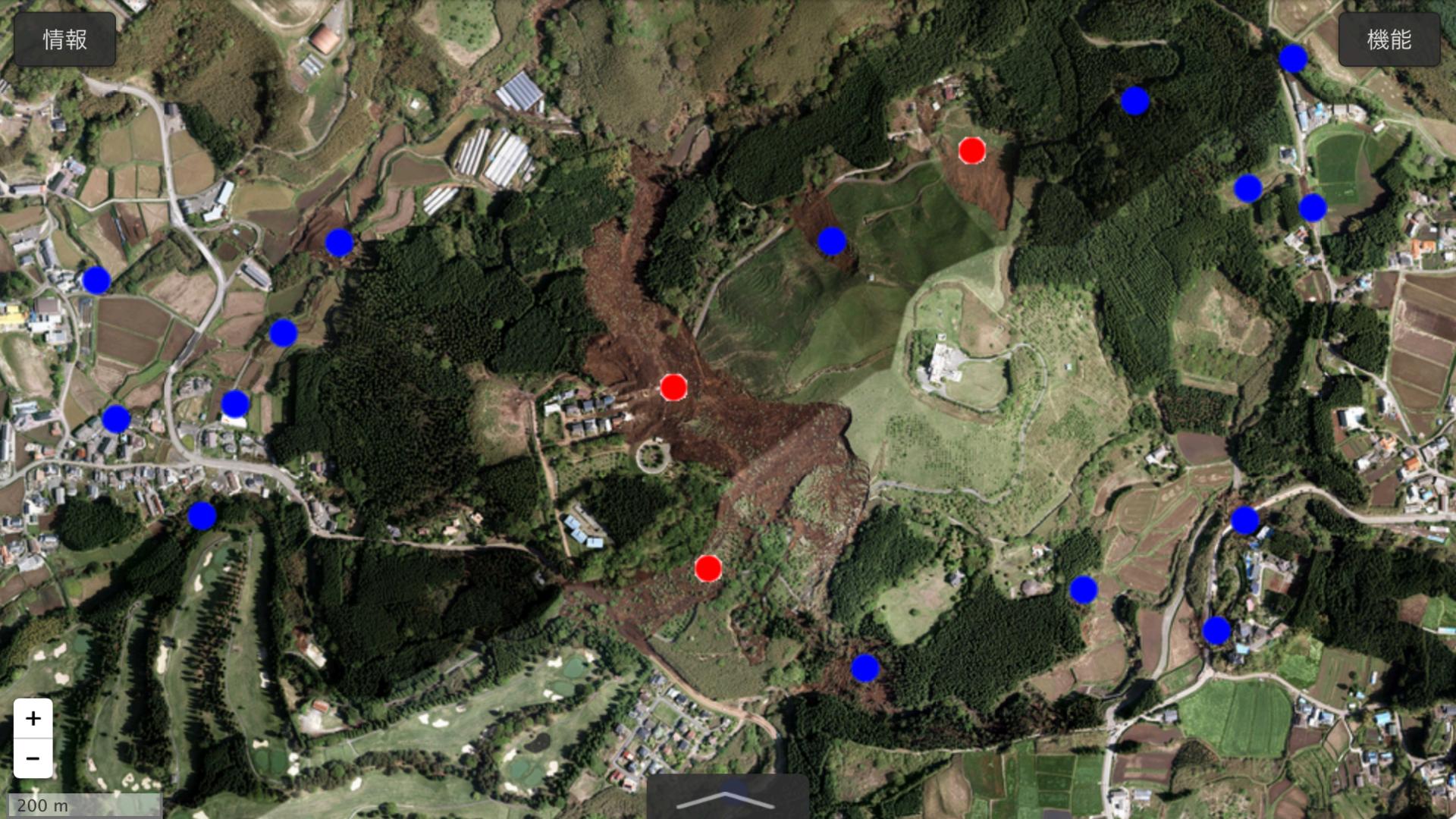
# Satellite SAR Interferometry



# Detection of landslides

地理院地図  
(電子国土Web)  例：剣岳 / 金沢市木ノ新保町 / 35度0分0秒 135度0分0秒 / 35.00 135.00 / 54SUE83694920 

情報 機能



+ -

200 m

# UAV (drone) video



# Flood in Joso city, 2015-09

地理院地図  
(電子国土Web)

例：剣岳 / 金沢市木ノ新保町 / 35度0分0秒 135度0分0秒 / 35.00 135.00 / 54SUE83694920

選択中の情報 x

+ 情報追加/ベースマップ切替 リセット

表示 災害対応>風水害>平成27年9月関東・常総地区の推定浸水範囲 透過0% ▲ ▼ i 廃

(2015/9/11 13:00時点)

情報リスト > 災害対応 > 風水害 > 平成27年9月 ×  
関東・東北豪雨 > 茨城県常総・坂東地区 > 正射  
画像 (2015/9/11午後撮影)

OFF 表示範囲に絞込み フレースケール 透過0%

常総地区正射画像 (2015/9/29午前撮影) i

常総地区正射画像 (2015/9/15午前撮影) i

常総地区正射画像 (2015/9/13午前撮影) i

常総地区正射画像 (2015/9/11午後撮影) i

常総地区正射画像 (2015/9/11午前撮影) i

+ -

300 m

機能 ?



▶ ▶ ⏴ 0:38 / 2:16 ⏵ ⏴ ⏵

# Important to record the recovery, too

地理院地図 (電子国土Web)  例: 銚岳 / 金沢市木ノ新保町 / 35度0分0秒 135度0分0秒 / 35.00 135.00 / 54SUE83694920 

選択中の情報  機能 

+ 情報追加/ベースマップ切替 リセット

表示 災害対応>風水害>平成27年9月関東・常総地区の推定浸水範囲 (透過0%)    

(2015/9/11 13:00時点)

情報リスト > 災害対応 > 風水害 > 平成27年9月 ×  
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常総地区正射画像 (2015/9/29午前撮影) 

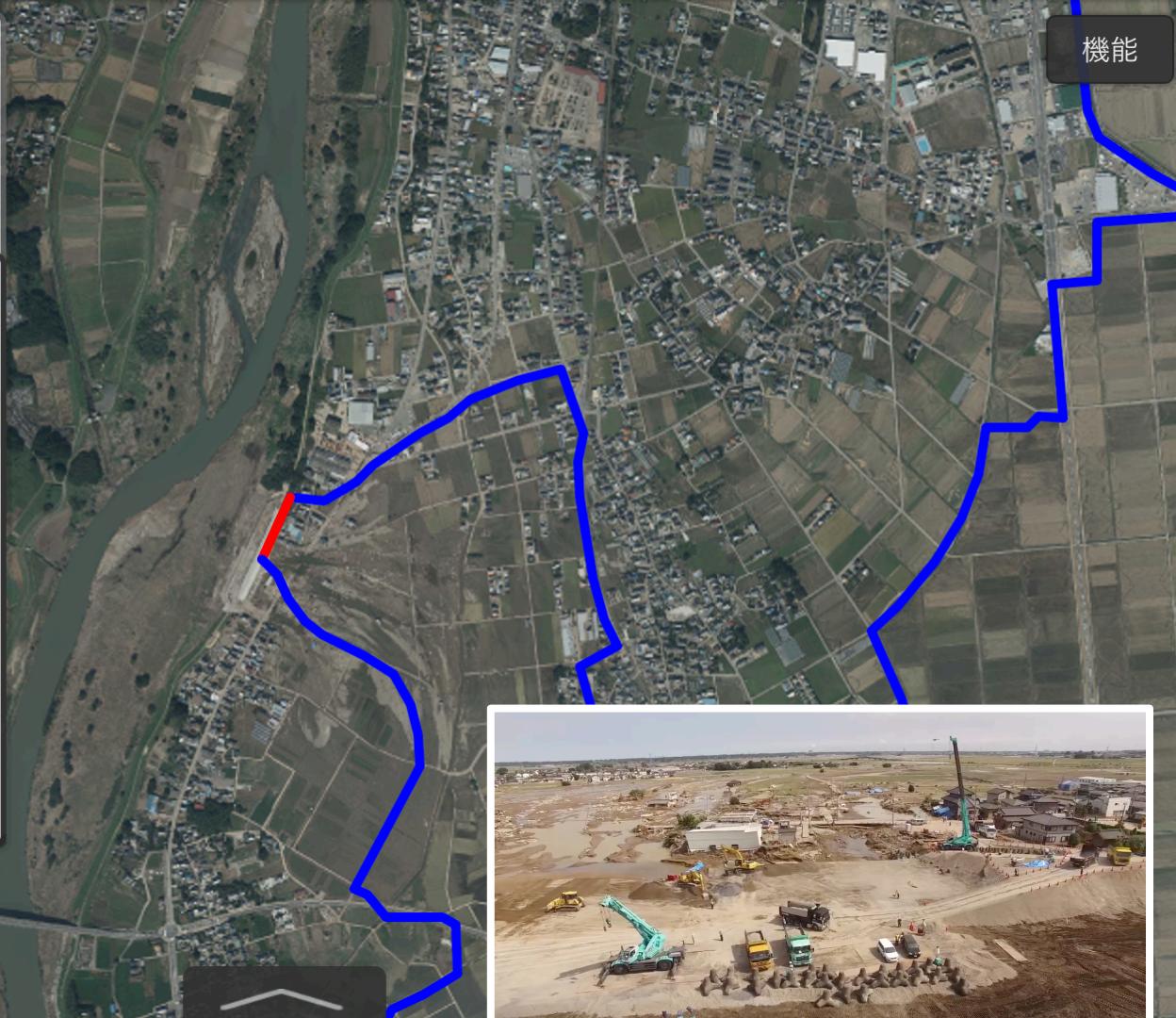
常総地区正射画像 (2015/9/15午前撮影) 

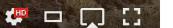
常総地区正射画像 (2015/9/13午前撮影) 

常総地区正射画像 (2015/9/11午後撮影) 

常総地区正射画像 (2015/9/11午前撮影) 

 + - 300 m 



0:49 / 3:45 

# A proposal for promoting NSDI

- Identify a most relevant use case of your NSDI component.
- Try to provide a best performance for the identified use case.

If people need something, it *is* necessary.