

*MSDI Open Forum on 26<sup>th</sup> January 2016*  
*“Contributing to the successful delivery of MSDI”*

# **UN-GGIM and National SDI Strategy**

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Deputy Administrator

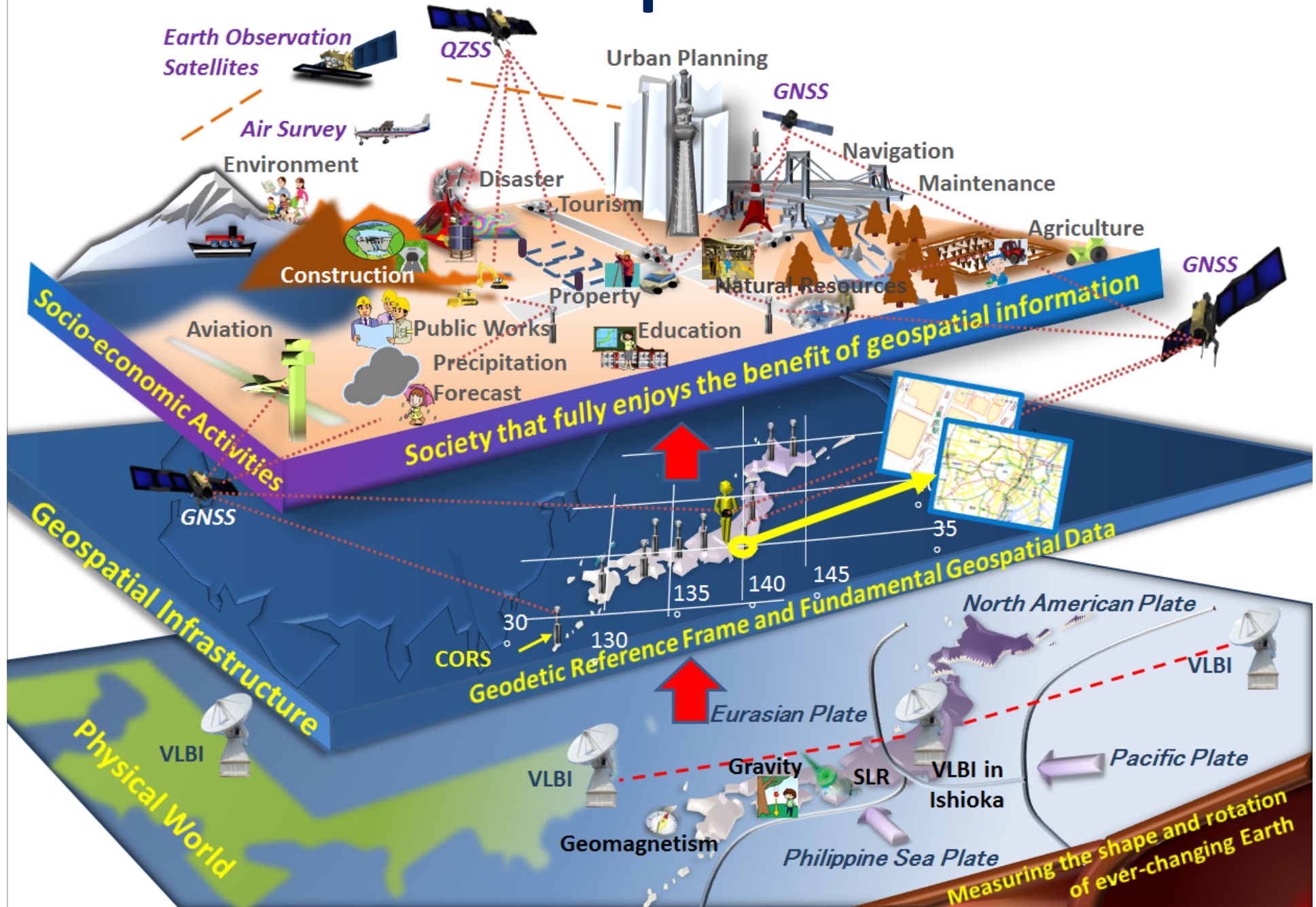
Geospatial Information Authority of Japan

# Outline

1. NSDI in Japan
2. New Challenges
3. Why UN-GGIM?
4. What is UN-GGIM Doing?
5. UN-GGIM and National SDI Strategy
6. Summary

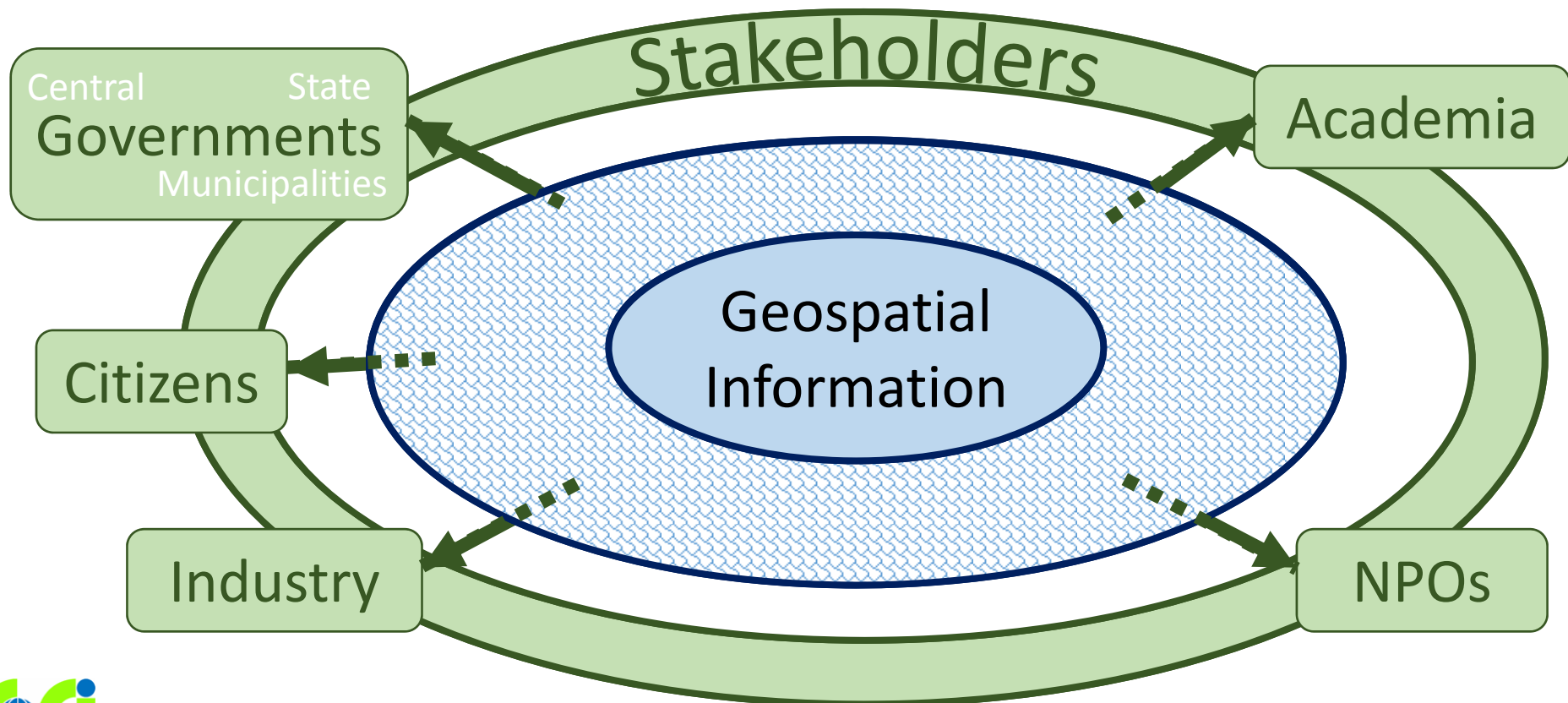


# NSDI in Japan: Vision



# NSDI in Japan: Goal

Technology, policies, and people necessary to promote geospatial data sharing throughout all levels of government, the private and non-profit sectors, and academia. (<http://www.fgdc.gov/nsdi/nsdi.html>)



# NSDI in Japan: Reality=Silos

**Administrator**

Duplicated costs

Inefficient data sharing

Difficult to understand what's going on in the organization

Urban Planning Office

I'm not in trouble.

Land Administration Office

Different standards.

Road Management Office

Not for disclosure.

Water Supply Management Office

Not in digital form.

**Users**

Stop duplicated efforts

Share data with us

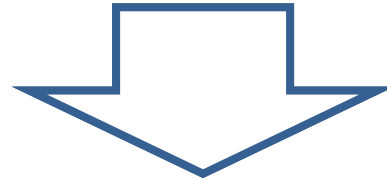
Where is the data we need?



# NSDI in Japan: New Legislation

## Basic Act on the Advancement of Utilizing Geospatial Information (AUGI)

NSDI Act of Japan (enacted in 2007)



- Synergistic integration of Government policies on GIS and Satellite Positioning.
- Development of a common **seamless fundamental geospatial database (Fundamental Geospatial Data)** that provides positional control for all geospatial information.
- **Stable and more accurate services** of Satellite Positioning.

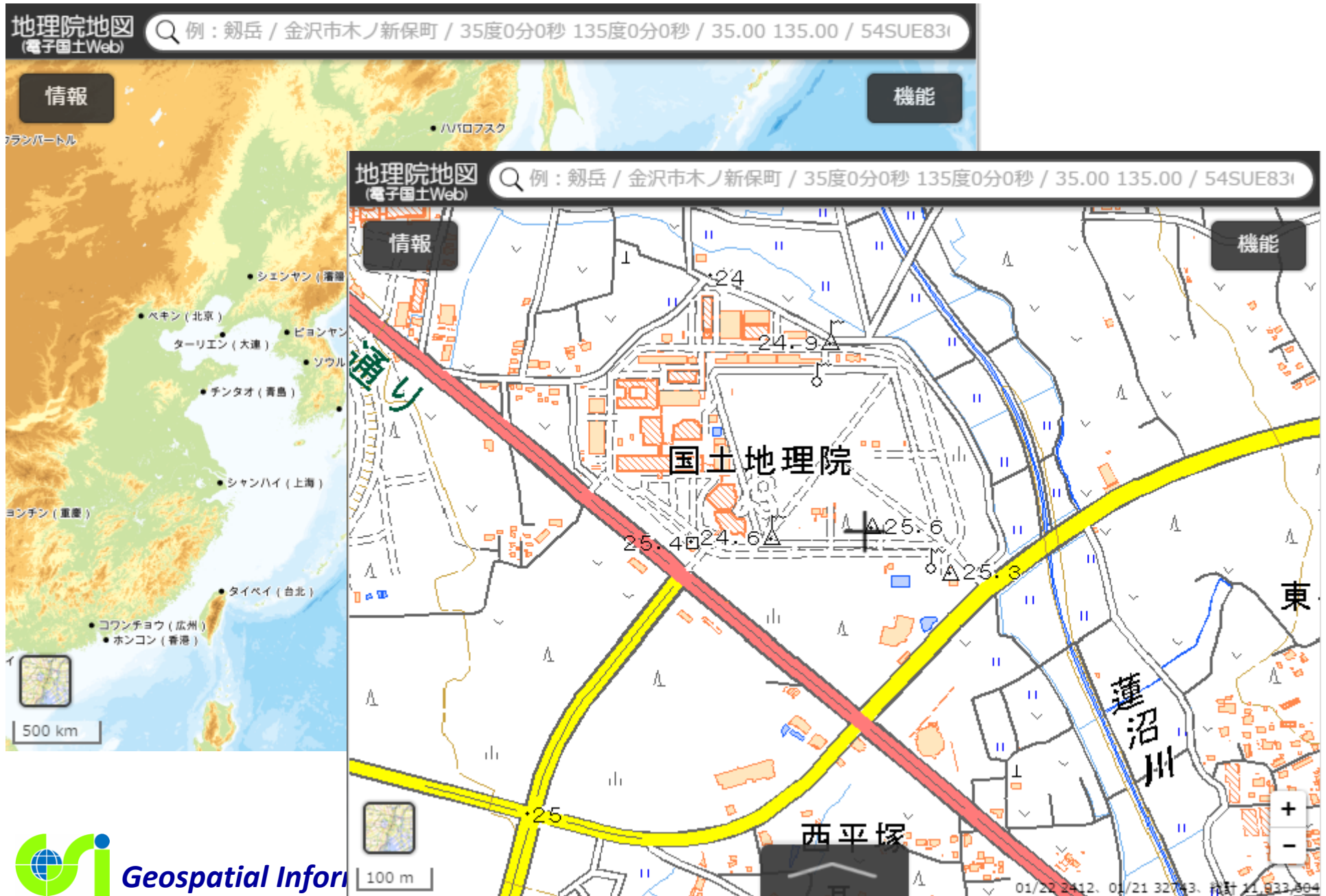


# NSDI in Japan: Organization



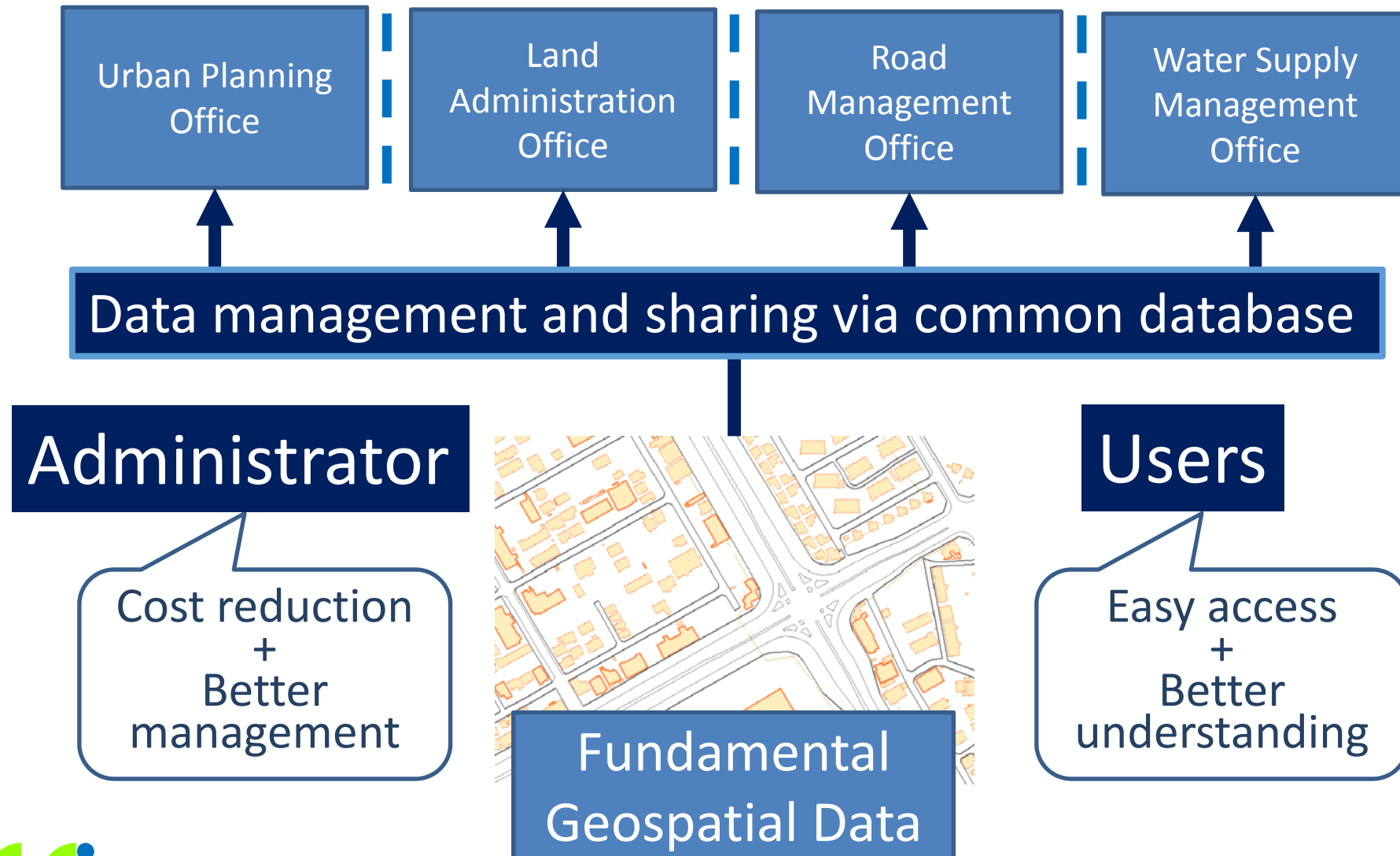


# Fundamental Geospatial Data





# NSDI in Japan: Data sharing beyond silo structure





# UN-GGIM

UNITED NATIONS INITIATIVE ON  
GLOBAL GEOSPATIAL  
INFORMATION MANAGEMENT

## *UN-GGIM - What is it?*



UN-GGIM

United Nations Initiative on  
Global Geospatial Information Management

[ggim.un.org](http://ggim.un.org)

# UN-GGIM - What is it?

- GGIM: Global Geospatial Information management
- UN initiative that provides a forum to liaise and coordinate among Member States, and between Member States and international organizations in order to set the agenda for the development of global geospatial information and to promote its use to address key global challenges.
- Main forum: UN Committee of Experts on GGIM established by ECOSOC in July 2011.

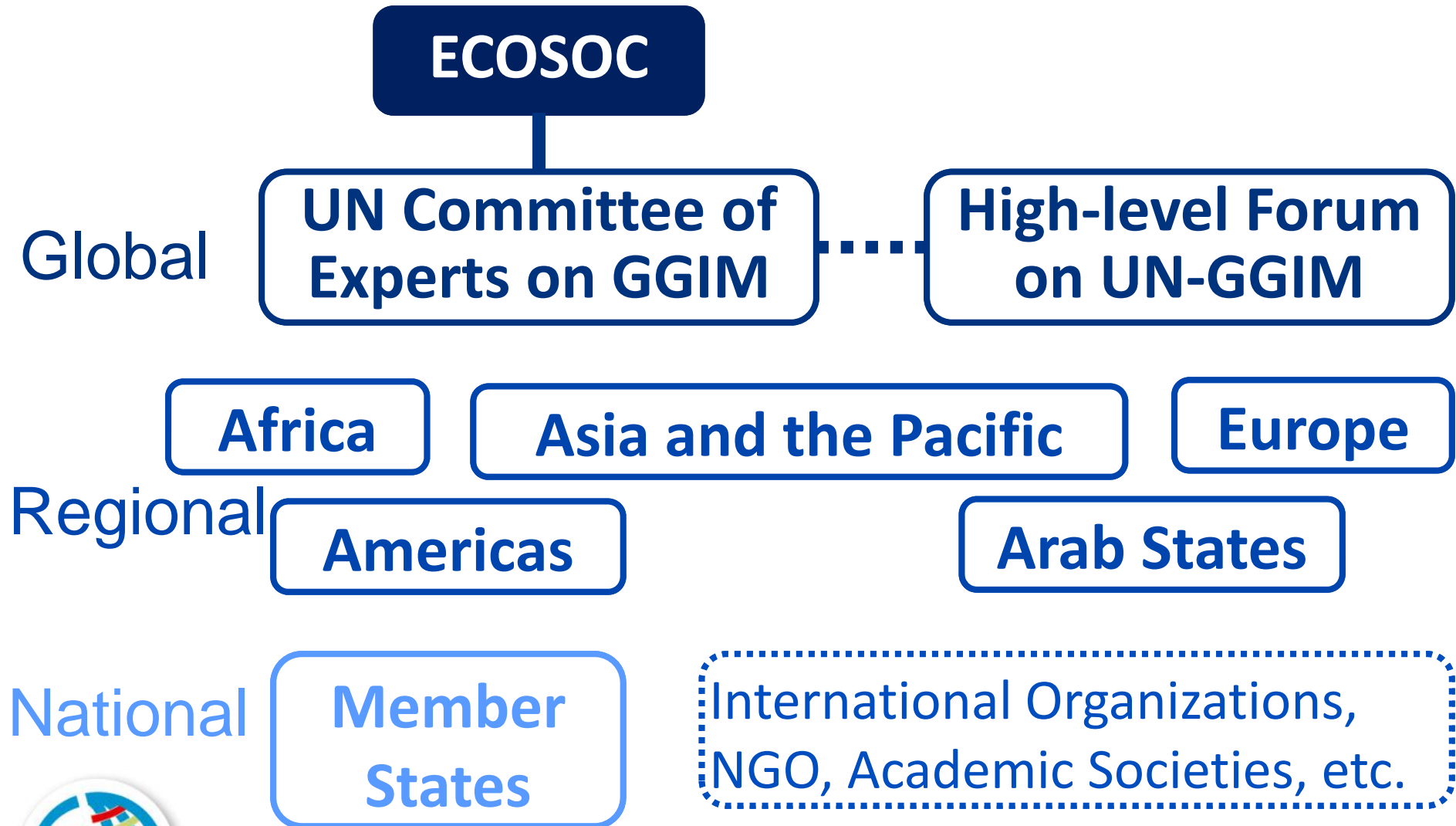


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# UN-GGIM - What is it?: Organization



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# UN-GGIM

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*Why UN-GGIM?*



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# Why UN-GGIM?

- National Mapping Organizations (NMOs) historically worked relatively independently and engaged less in international activities.
- Little contribution to global community working on global agendas, including sustainable development and disaster risk reduction.
  - No reference of geospatial information in MDG or in Hyogo Framework for Action



UN-GGIM

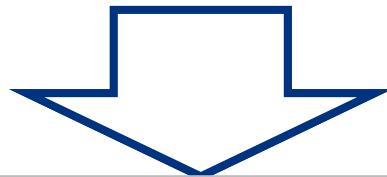
United Nations Initiative on  
Global Geospatial Information Management

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# Why UN-GGIM?

- Many national mapping organizations have come to recognize:
  - They share common issues and challenges including emerging new technologies
  - They should contribute much to global agenda with geospatial information



UN initiative on Global Geospatial  
Information Management



UN-GGIM

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# UN-GGIM

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GLOBAL GEOSPATIAL  
INFORMATION MANAGEMENT

*What is it Doing?*



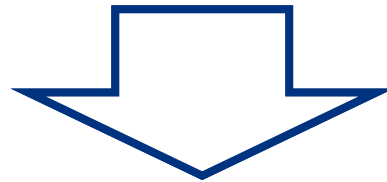
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# What is it doing?: Geodesy (1)

- Geodetic reference frame: most fundamental infrastructure for SDI or even for sustainable development.
- However:
  - Not all countries have established their modern geodetic reference frame yet.
  - Current global geodetic activities depend heavily on voluntary contribution from the scientific community.



Need of global sustainable framework supported by Member States



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# What is it doing?: Geodesy (2)

- UNGA resolution (A/RES/69/266) “A Global Geodetic Reference Frame for Sustainable Development” was adopted on 26 Feb. 2015.
  - Calling for greater multilateral cooperation on geodesy, including the open sharing of geospatial data, further capacity-building in developing countries and the maintenance of appropriate national geodetic infrastructure.



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# What is it doing?: 2030 Agenda (1)

- UN-GGIM engaged in post-2015 development agenda starting from Rio+20 in 2012.
  - *“We further recognize the importance of comprehensive hazard and risk assessments, and knowledge and information sharing, including reliable geospatial information.”*
- Not successful in putting specific reference of geospatial information in Sustainable Development Goals (SDGs).



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# What is it doing?: 2030 Agenda (2)

- A reference was included in “2030 Agenda for Sustainable Development.”
  - 76. We will support developing countries, particularly African countries, LDCs, SIDS and LLDCs, in strengthening the capacity of national statistical offices and data systems to ensure access to high-quality, timely, reliable and disaggregated data. We will promote transparent and accountable scaling-up of appropriate public-private cooperation to exploit the contribution to be made by a wide range of data, including earth observation and *geo-spatial information*, while ensuring national ownership in supporting and tracking progress.
- UN-GGIM set up a working group to follow up on the indicators development.



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# What is it doing?: Sendai Framework (1)

- Based on the outstanding contribution of geospatial information in Great East Japan Earthquake, Sendai Framework (A/RES/69/283), the new framework for disaster risk reduction between 2015-2030, appreciates the important role that geospatial information can play in disaster risk reduction.



14-18 March 2015  
Sendai, Japan



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# What is it doing?: Sendai Framework (2)

- Sendai Framework includes four specific references on geospatial information.
  - “It is important to ... Develop, periodically update and disseminate, as appropriate, **location-based disaster risk information, including risk maps**, to decision makers, the general public and communities at risk of exposure to disaster in an appropriate format **by using**, as applicable, **geospatial information technology**.”
- UN-GGIM established a working group to study how the international community will be able to better prepare for and respond to emergencies.



# What is it doing?: Other Topics (1)

- Legal and policy frameworks
  - Innovative geospatial services vs. privacy
  - Suitable legal framework for drones
- Standards for the global geospatial information community
  - Global dissemination of established technical standards developed by ISO/TC211, OGC, IHO
- Global fundamental geospatial data themes
  - Most commonly used data themes among different countries and regions



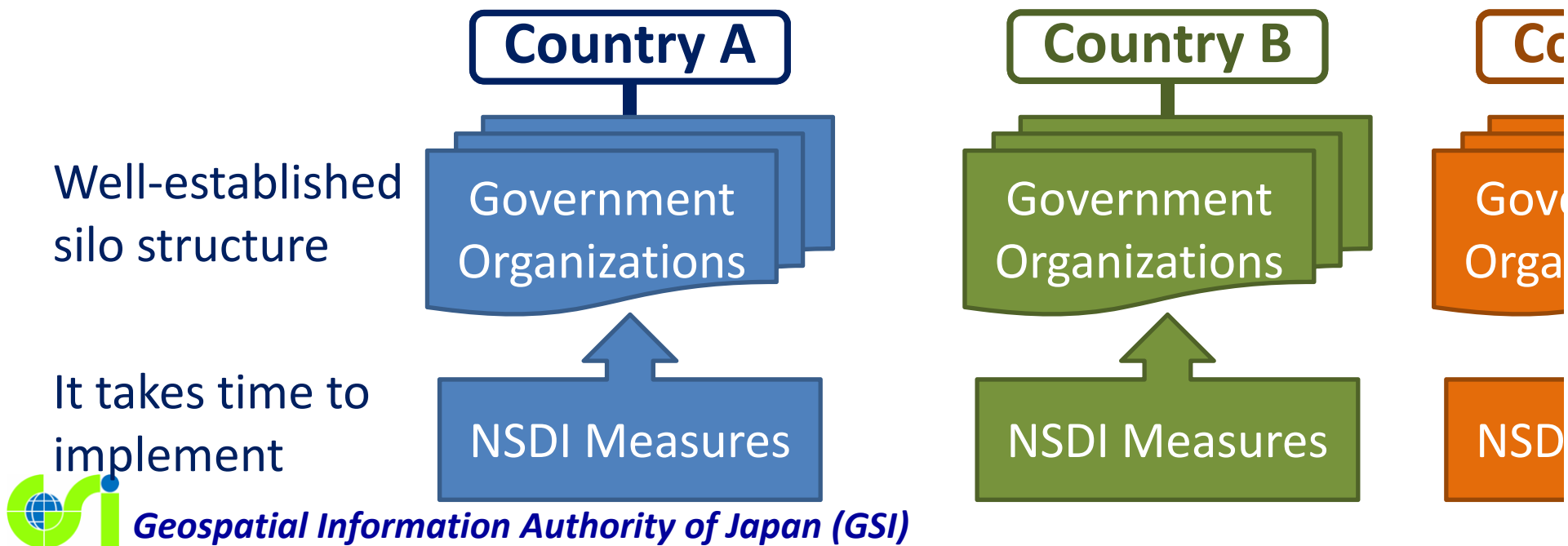
# What is it doing?: Other Topics (2)

- Integration of geospatial, statistical and other information
  - Crucial element for successful implementation of 2030 Agenda.
  - In some countries, a single government organization is in charge of both geospatial and statistical information.
- Land administration and management
  - Much interest expressed from developing countries.
  - In some countries, a single government organization is in charge of both geospatial information and land management.



# UN-GGIM and National SDI Strategy

## Before UN-GGIM



# UN-GGIM and National SDI Strategy

**After UN-GGIM**



UNGA Resolutions, Best Practices, Global Standards, etc.

**Country A**

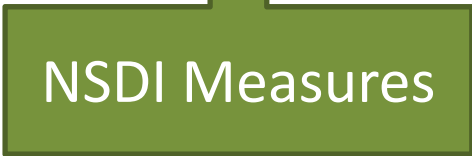
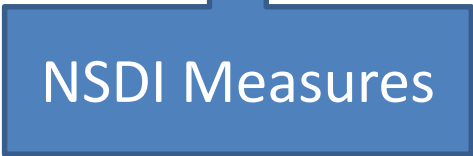
**Country B**

**Co**

Better understanding on NSDI



Accelerated implementation





# Summary

- It takes time to fully implement SDI, particularly, in a well-established governments and societies.
- UN-GGIM, a newly established intergovernmental mechanism, will empower national mapping organizations to contribute more to national SDI development.
- UN-GGIM will also contribute to the implementation of global agendas including 2030 Agenda and Sendai Framework.



# Thank you!