



Plan on establishment of Viet Nam National Committee of Spatial Data Infrastructure

Ma. Do Thi Thu Thuy

Science and International Cooperation Office
DEPARTMENT OF SURVEY AND MAPPING VIET NAM

Jeju - Korea, 07 September 2015

Introduction

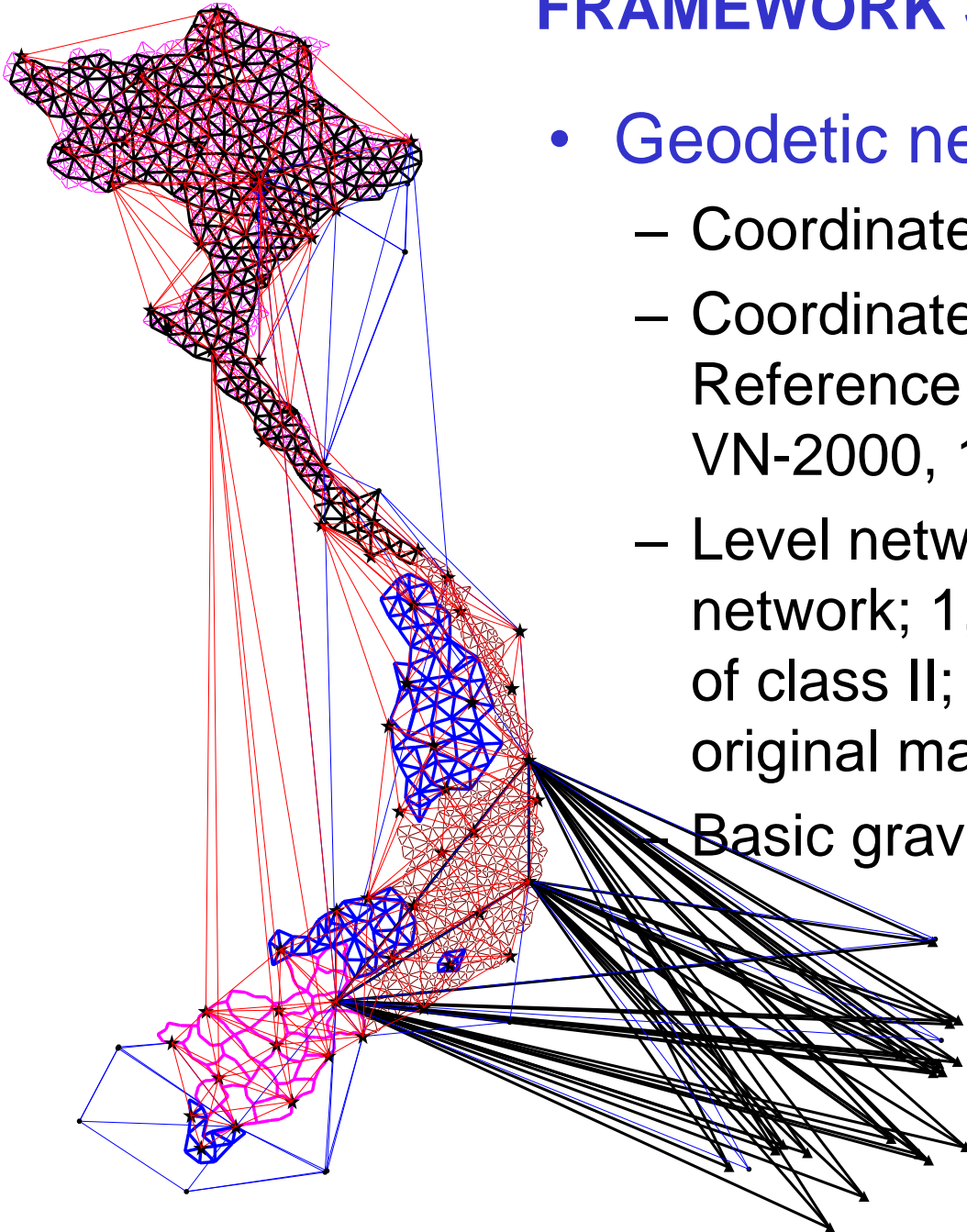
- The Vietnamese government is implementing the e-government Program, which has established as an effective mechanism for increasing government productivity and efficiency and a key enabler of citizen centric services.
- NSDI will be one of the core data platform enables sharing, accessing and management of natural and artificial objects by geographic location, which will enhance efficiency in policy/decision making of the Local and Central government

The status of spatial data in Vietnam

FRAMEWORK SPATIAL DATA

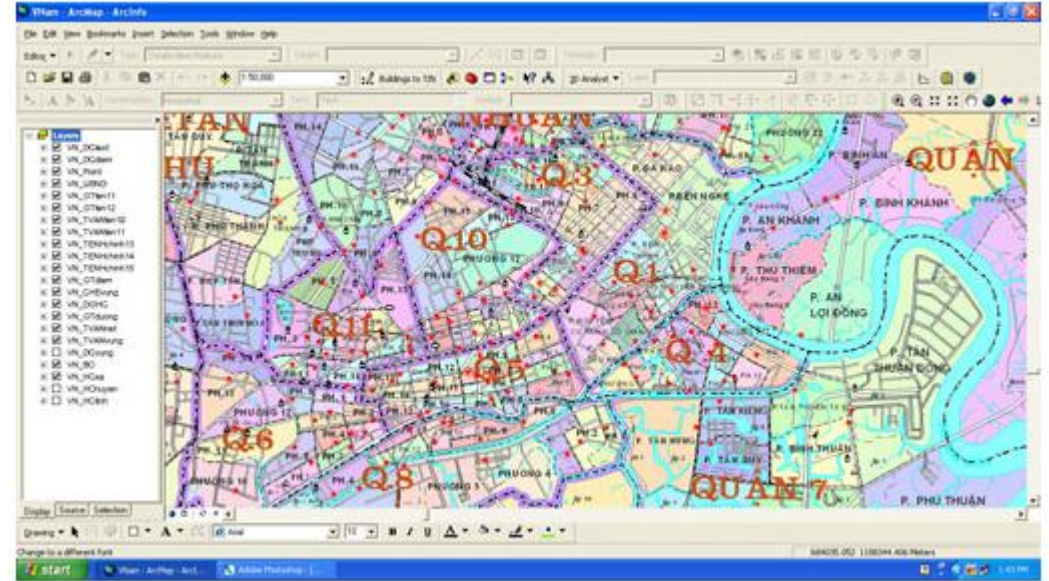
- Geodetic network

- Coordinate grid level 0 and 71- point
- Coordinate grid class I, II, III in the National Reference System and Coordinate System VN-2000, 14,308 points.
- Level network including 18 points of original network; 1,176 points of class I; 1,114 points of class II; and 2,334 points of class III, the original mark at Hòn Dấu - Hải Phòng.
- Basic gravity grid with 5,200 points.



Geographical Database

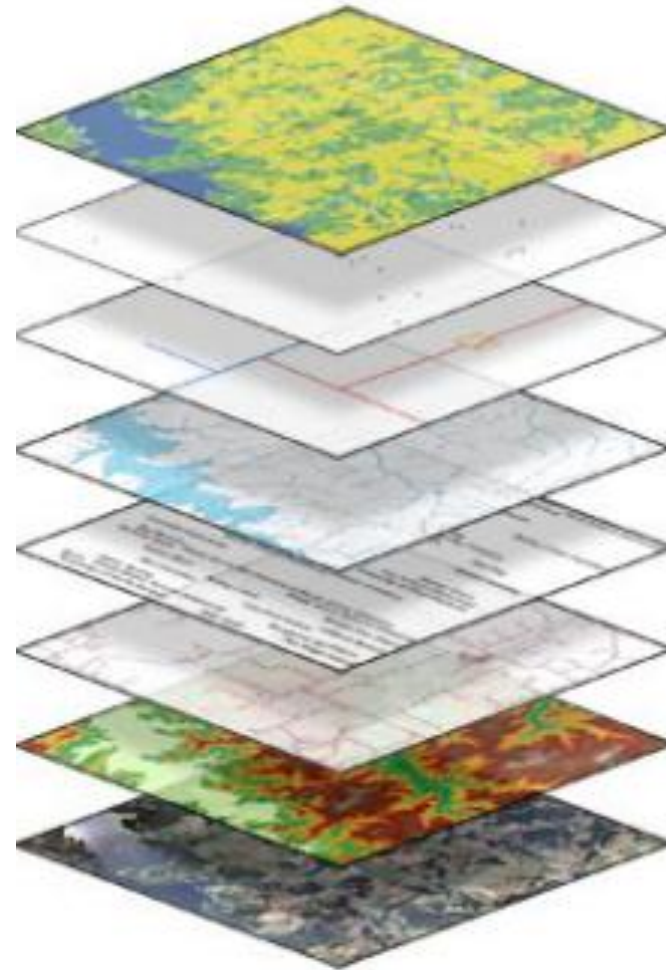
➤ Base geographical database scale 1:2,000 and 1:5,000 on urban areas and focal economic zones.



- Base geographical database scale 1:10,000 associated with a digital elevation model covering the whole country.
- National topographic maps scale 1:50.000; 1:100.000; 1:250.000; 1:500.000 and 1:1.000.000.

- Geographical Database

- Seabed topographic maps scale 1:10.000 and 1:50.000 for some coastal areas of Vietnam.
- Administrative boundary maps
- System of aerial and remote sensing photographs.



- Land cover
- Infrastructure
- Boundaries
- Hydrography
- Survey control
- Transportation
- Topography
- Ortho-image

Specialized geographical data

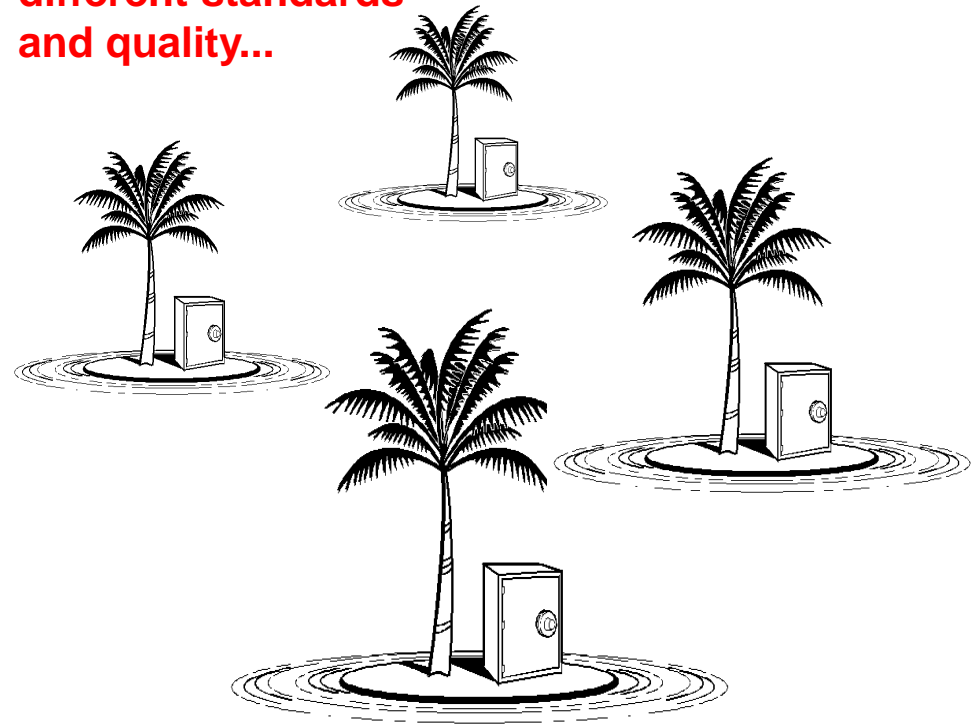
- The system of land records and cadastral maps.
- Maps of current land use and land use planning.
- Geological maps.
- Marine chart of Vietnam marine areas.
- Maps of Vietnam continental shelf.
- National forest distribution map.
- Agricultural database of administrative units at provincial level.
- Transport database: roads and transportation works.

Challenges

Existing problems

- Monopoly,
- No specialized portal,
- Certification,
- Updating,
- Standardization,
- Interoperability,
 - reference systems, data models, semantic,..

**Islands of data of
different standards
and quality...**



Examples of Problems

- Data policy restrictions
 - pricing, copyright, access rights, licensing policy
- Lack of co-ordination
 - across borders
 - between levels of government
- Lack of standards and their use
 - incompatible information
 - incompatible information systems
 - fragmentation of information
 - redundancy
- Lack of data

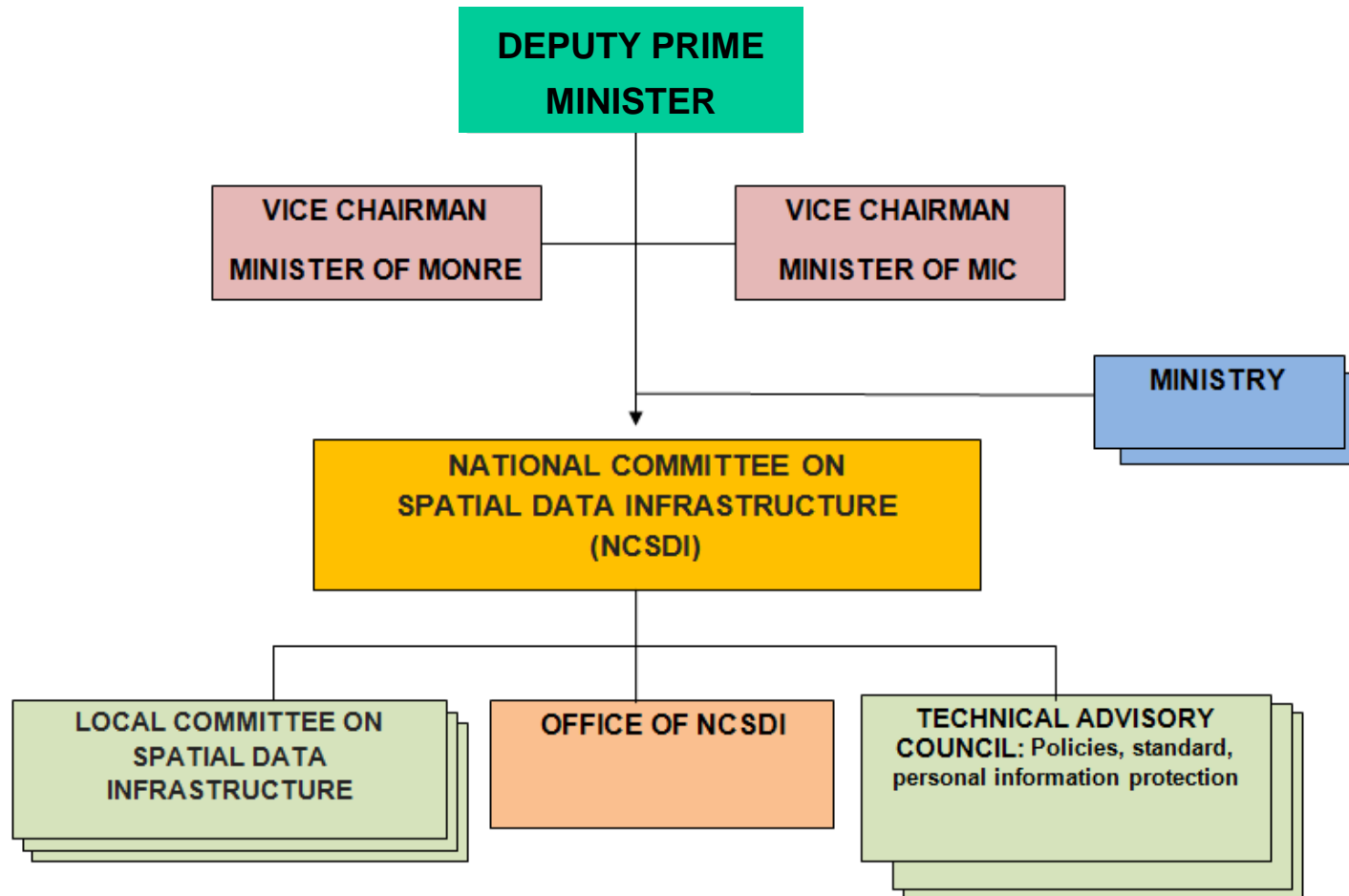
In summary: difficult accessible and sharing

**Establishment of the National Committee on
Spatial Data Infrastructure aims to build
NSDI of Vietnam**

VIET NAM NATIONAL COMMITTEE

Geospatial Data Infrastructure

Without a co-ordinated framework, all problems above will persist.



Function and Duties

- * Research develop strategies short-term and long-term plan on development of NSDI.
- * Link all agencies related to spatial data infrastructure.
- * Develop policies and regulations on NSDI.
- * Build national Geo-Portal for collection, sharing, distribution and updating data.

Function and Duties

- * Improve the National Geo-spatial Data Standard in order to suit the International Geo-spatial Data Standard.
- * Building the Law on NSDI and to supplement some current laws such as Land Law.
- * Standardized and update framework spatial data system (with meta-data) in order to meet the demands of users.

Conclusion

- + Avoid ***overlapping*** investment and enhance information resources.
- + Create a ***platform*** to encourage all resources from community to update, manage, access and exploit data.
- + Increases the ***value*** of existing and future investments in information systems.
- + Supporting for **e-government program**

THANK YOU!

