Hanoi, Vietnam 22 - 26 April 2019



Geospatial information for a smarter life and environmental resilience

DEMAND AND DEVELOPMENT OF GEOSPATIAL DATA IN VIETNAM

Presented at the FIG Working Week 2019, Presented at the FIG Working Week 2019, The Inam,

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Vietnam Association of Geodesy - Cartography - RS

Geospatial data or Geospatial Information plays an important role in the application GIS at Vietnam for decision-making management and planning of the territory, control of environmental protection, business, and service for needs of Community. But so far it is on the first steps and there are a lot of things need to be done in the future

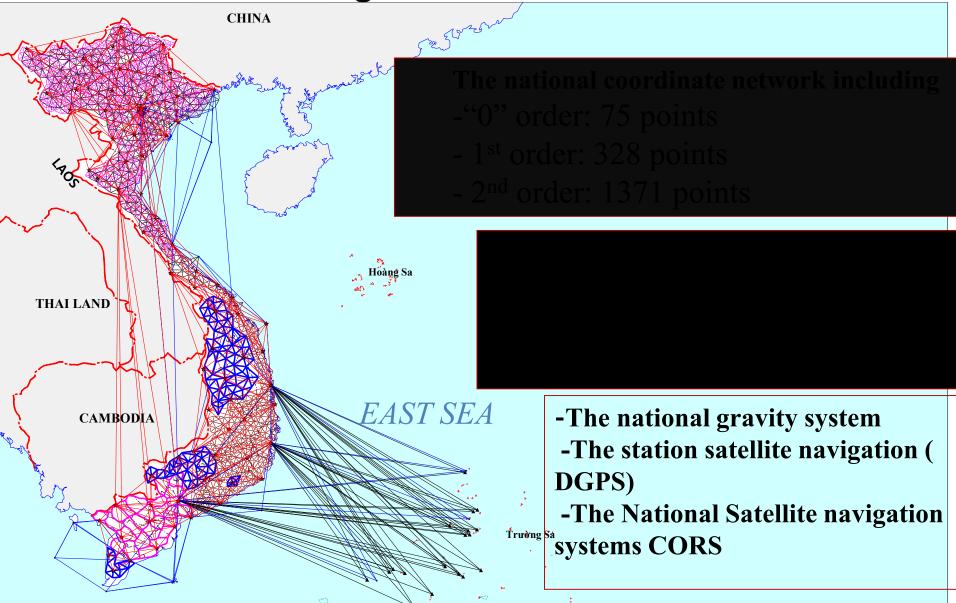
Contents

1.The development, application, exploitation and management of geospa tial data in VN

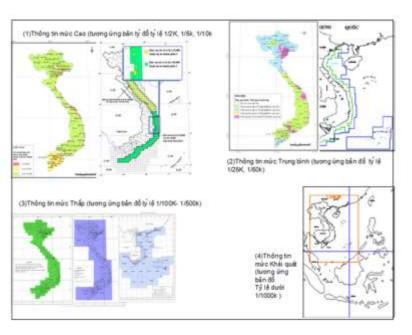
2. The natural, socio-economic characteristics and the needs of geospatial data

3. The difficulties and solutions

1.1. Improving , modernizing and Established DMS of the basic geodetic infrastructure



1.2 Established DMS (2004-2008) of the Digital topogaphic maps, Format: design files (file.dgn),



7 *topics* :

- -Geodetic Control points
- National Border & Administrative boundary
- Resident and
- Topography
- Hydrography
- Transportatio
- Vegetation

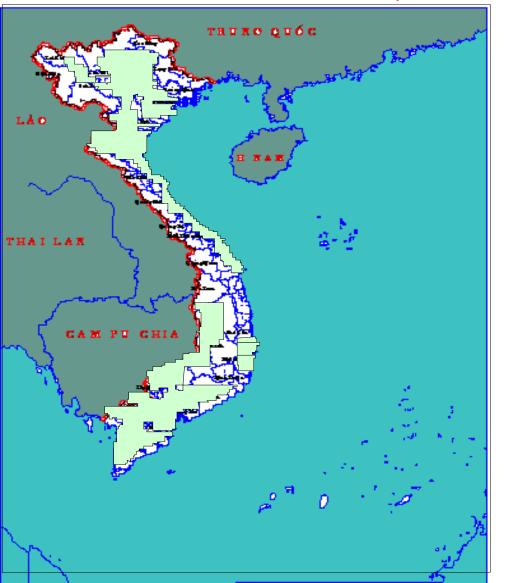


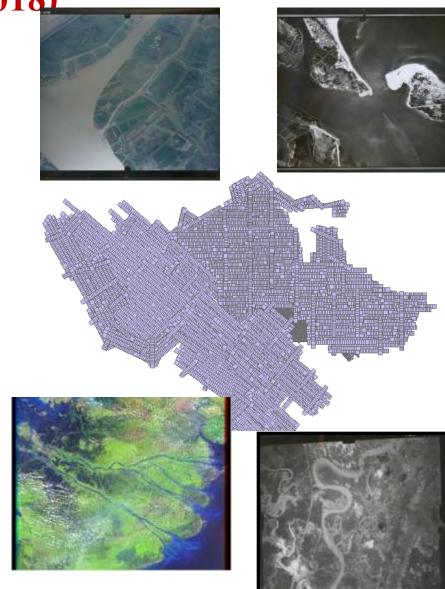
≻Map scale 1/50 K, 1/100K, 1/250K and 1/1.0

whole country

➤Map scale 1/2K (or 1/5K) covered whole cites or towns; Map scale 1/5K covered whole rural areas in Mekong River Delta and Map scale1/10K covered whole other rural areas

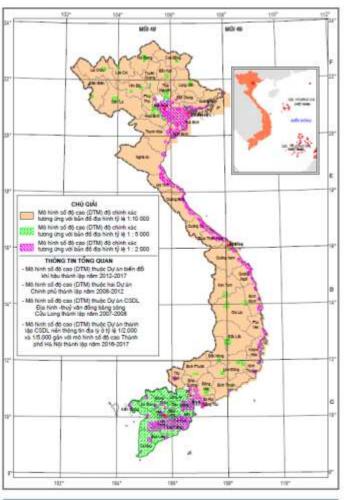
1.3 Established DMS (2010) of the aerial photos, films and satellite images taken at different periods (1952-2018)

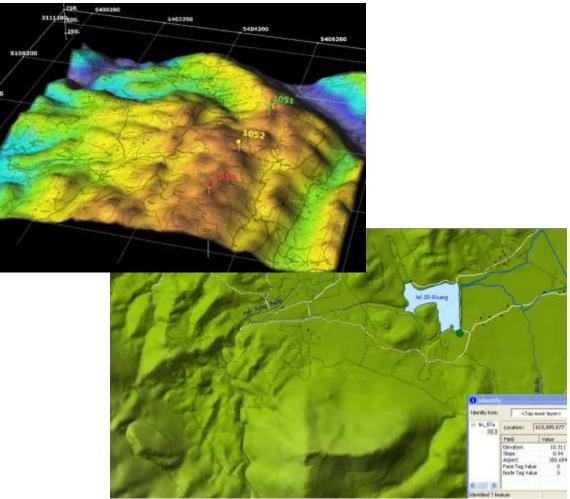




1.4 Etstablished DEM- Shapefile, diffirent resolutions : 25m, 10m, 5m, 1m (2007-2013)

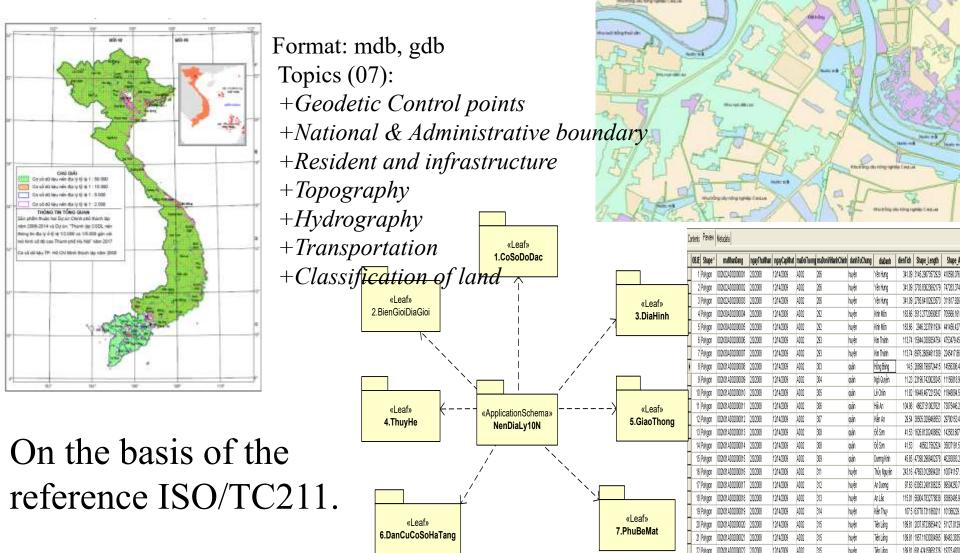
1/5 K in undstrial areas and in Mekong river delta; 1/10 K. in whole country on land





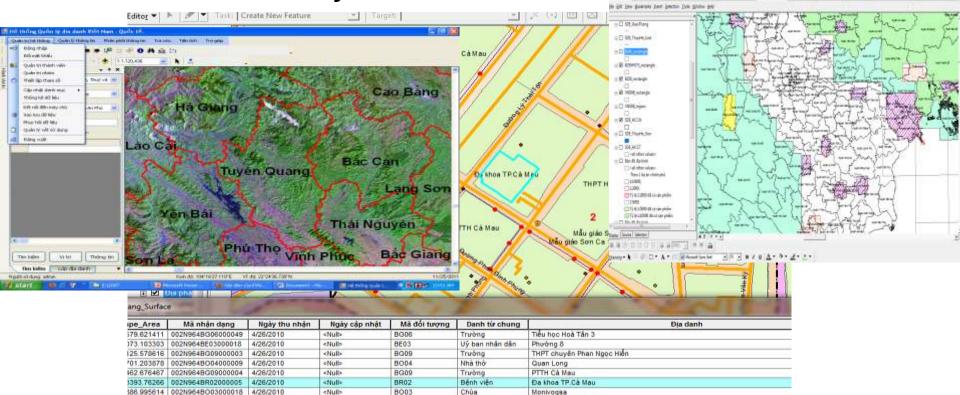
61

15.Etstablishing Geospatial background database 1/50K, 1:10 K. in whole country on land; 1/5K, 1/2K. in urban in industrial areas and in Mekong river delta (2007-2013)



1.6 Etstablishing Geographic placename database.

Standardization international geographic names on the World administrative map 1/30million
Standardization residential, literature, orography, hydrogeology placenames on topographic maps
Standardization of administrative placenames across the country

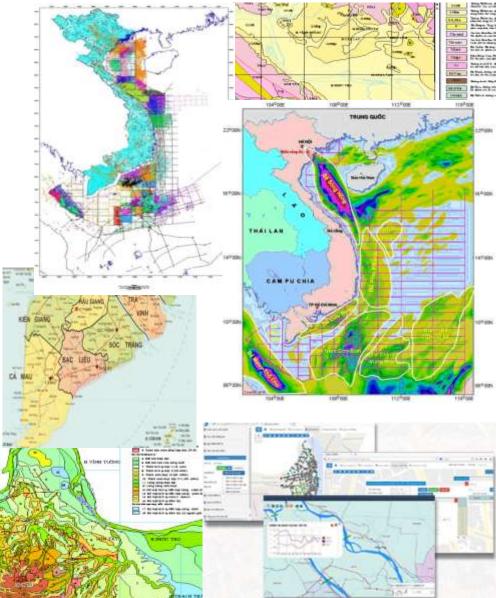


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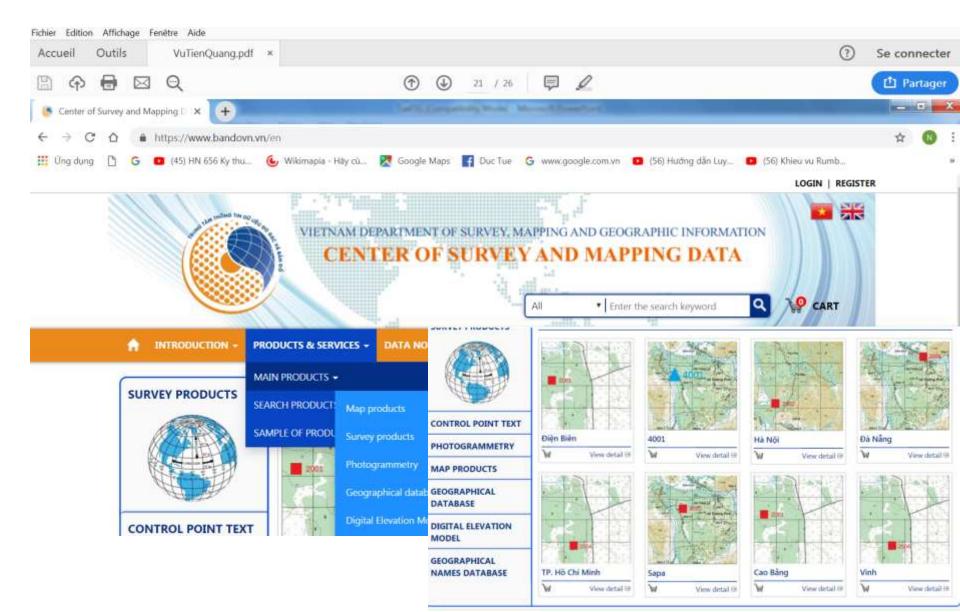
1.7. Establishing Geopatial Thematic database in the diferent industries and locations (2005-2019)

Manegerment Database
of Land, Sea sediment,
Geology, Mineral, Enviro
nmental, Meteorological,
Hydrological Cadastral,
Nasional boundary ...

•Business database of Vietmap co. Ltd, GIS .FPT Group, Ek.GIS, VidaGIS co. Ltd,...



Establishing Geospatial One-Stop Portal -GOS Portal (bandovn.vn)



Video guide (bandovn.vn)

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- Tổng số giao dịch đang thực hiện: 0
- Tổng số đơn đặt hàng chở xác nhận: 1

- QUICK LINKS
- Introduction
- irchase
 - Data notification
 - Provide data via the Internet

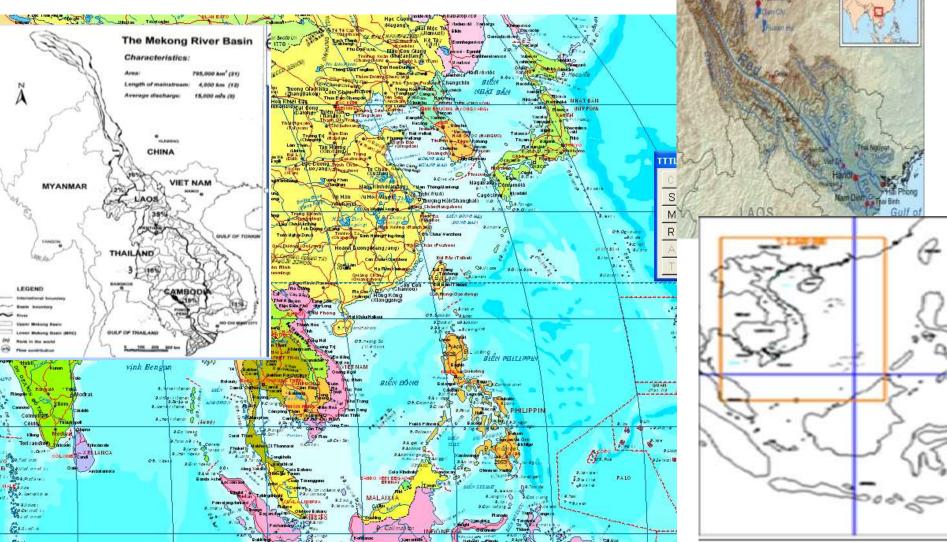
Products & Services

For customers

1.8. Developing policy of geospatial data

•The period of struggle for national independence and several dozen years after 1975: Spatial data were secret do cuments and exclusive priority only used in State agencies •The period 2000 -2018 data published not be confidential and be released widely. Prices data was initially to recover a portion of the costs. Building national geographic inform ation standards uniformly for all the activities related to the use, swap and collect geographic data

•Since 2018 surveying and mapping Law was passed by Co -ngress. Building strategy development, planning implem entation NSDI submission to Government for approval. 2.The natural, socio-economic characteristics and the needs of geospatial data (climate change, transition economic mechanism, resolve the bounery issues and share resources with neighbouring countries)



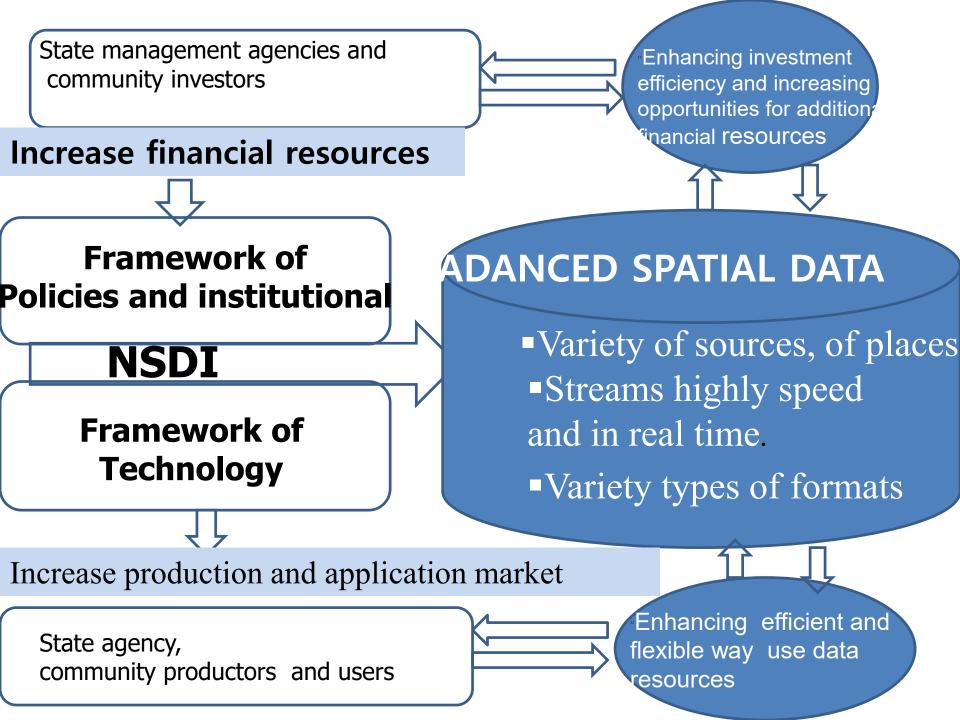
3. The difficulty and solutions

Faces:

- *The framework of policies and technologies have not yet to truly sync, unity towards a spatial data infrastructure of the country;
- *****Downsized state institutions,
- **Scarce public financial resources**

Soon established a National Committee on spatial data infrastructure and geographical names; Building strategy development, planning implementation NSDI submission to Government for approval

Taking into account economic efficiency, recovery of the costs and satisfy the needs of the State and Community;
Boost commercialization of geospatial data and socialization activities



Thank You !

DucTue Nguyen