

Upgrade the Datasets in NSDI for Smarter Services – with the Cases of China

By

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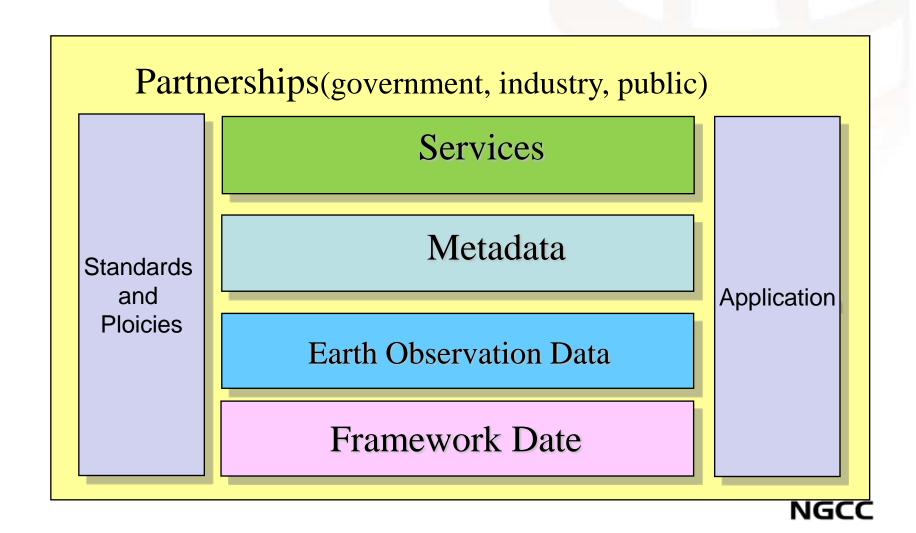
Jeju, Republic of Korea

Outlines

- The development of NSDI in China
- Data Upgrade for better services
- Suggestions

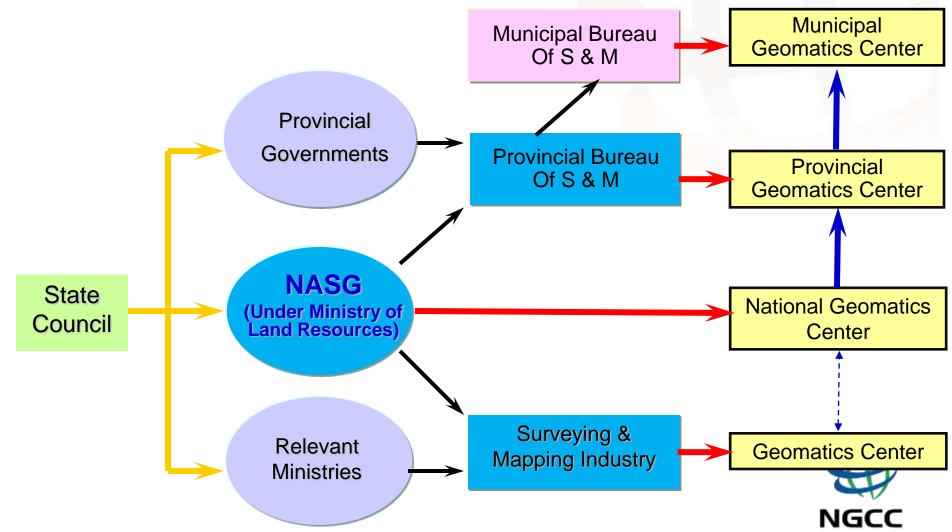


Components of NSDI in China



Policies

-- Surveying and Mapping Agencies in China



NASG: National Administration of Surveying, Mapping and GeoInformation

Standards

ISO/TC211



Standardization Administration of China (SAC) National Administration of SMG(NASG)





Geospatial information Standardization Tech Committee (SAC/TC230)

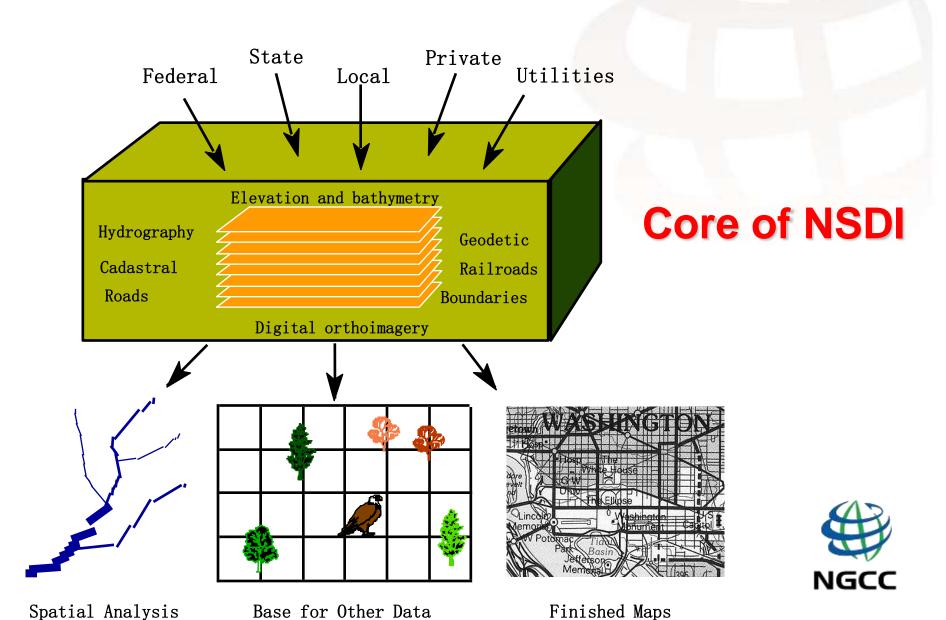




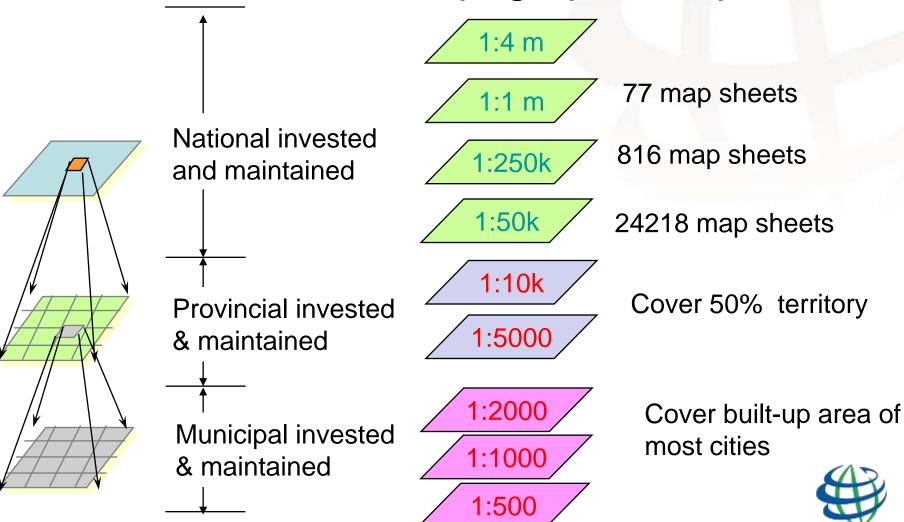
Standardization Institute of S&M

National Geomatics
Center

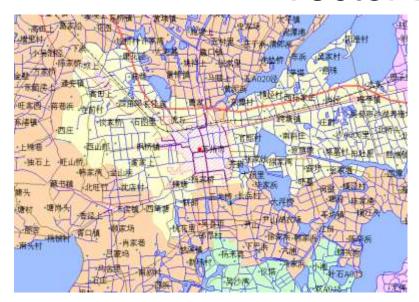
9/30/2015

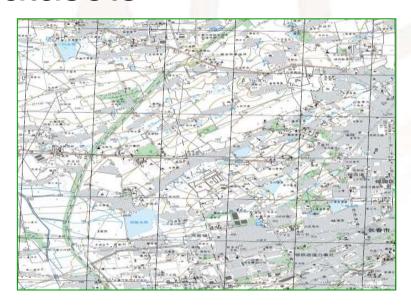


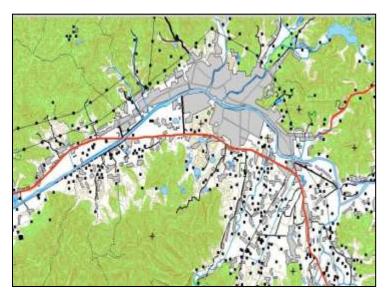
-- Multi-scale Topographic Map



--Vector Datasets

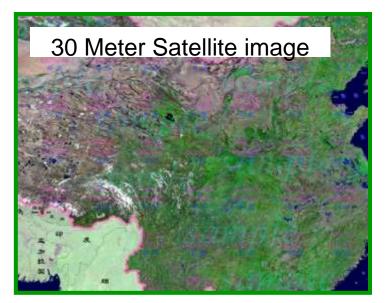


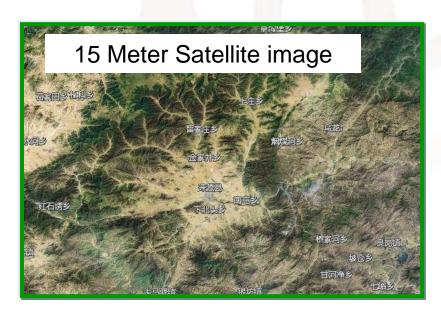


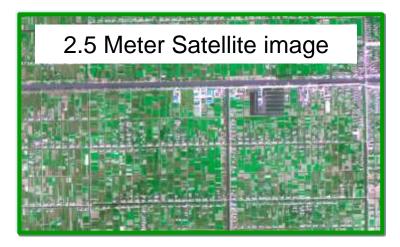


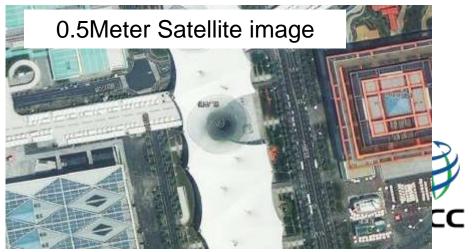


--DOM Datasets

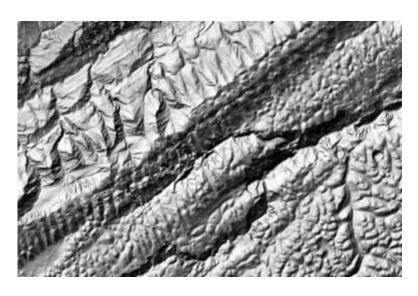








--DOM Datasets





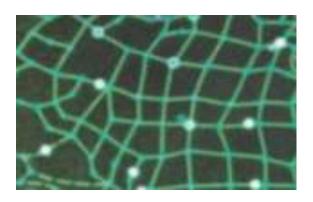




--Geodetic Datasets

Astro-Geodetic Network

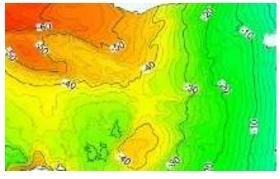
Leveling Network

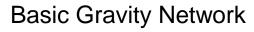




GPS Network

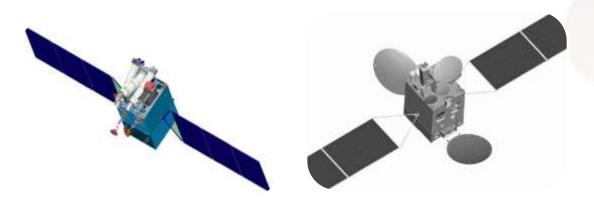


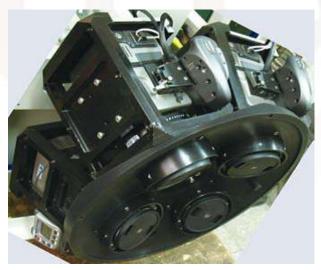






Earth Observation Data







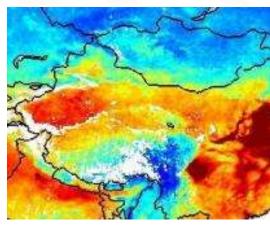














-- Data Distribution





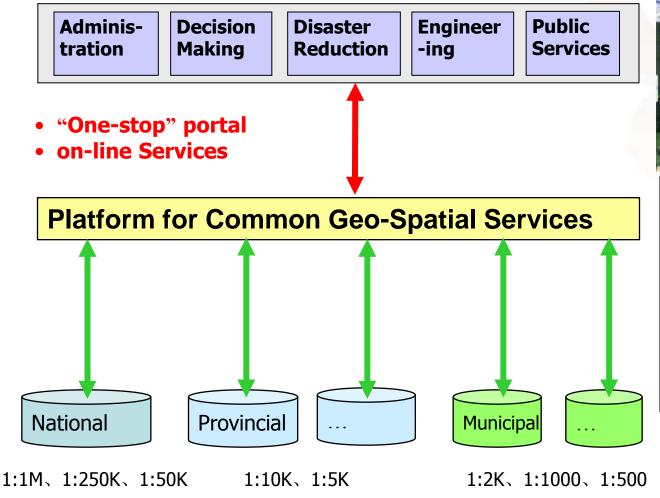
- ✓ Mata data searching
- ✓ Hard Copying







-- Web-based Platform (Portal)





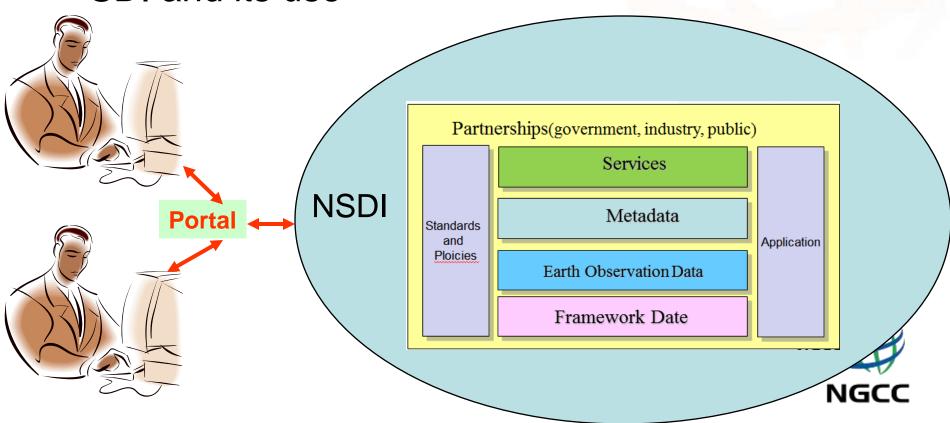




-- Web-based Platform (Portal)

Portals are the 'Face' of NSDI

-- provide the critical linkage between the data of SDI and its use



-- Web-based Platform (Portal)

Benefits of the Portal

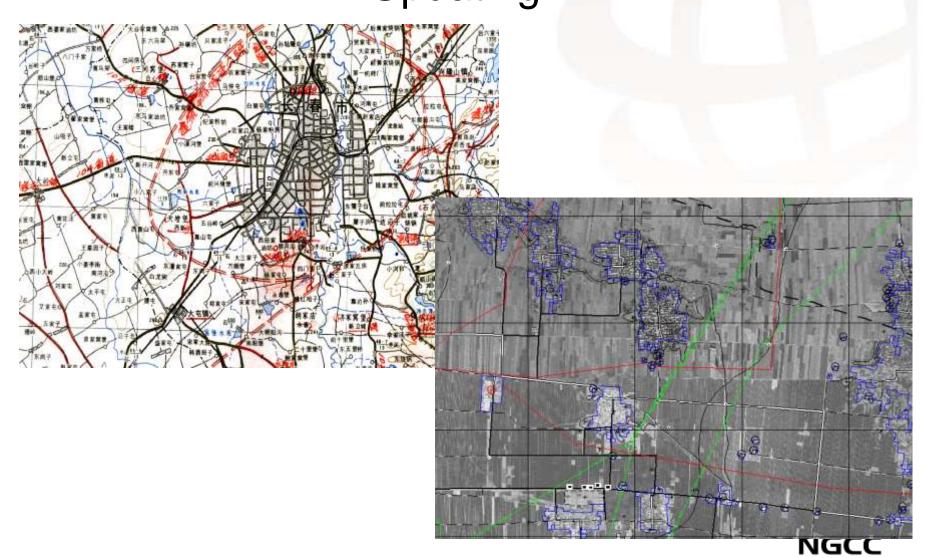
- Provides Organized Access to Geospatial Resources
 - Gateway to a spatial data infrastructure
- Value to Organization
 - Collaboration Publish, share, and disseminate data and GIS Web services across the SDIs
 - Searching Discover, connect to, and utilize GIS data and Web services
 - Awareness Organize geospatial resources in one place for the Agencies
 - Categorization Catalog GIS data and web services within the context needed
- Supports / Facilitates:
 - Faster discovery
 - Direct access and use
 - Improvement of data quality and coverage
 - Collaboration for new data collection



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Rapid and constant change



8 years

Version 1.0 2006Data production



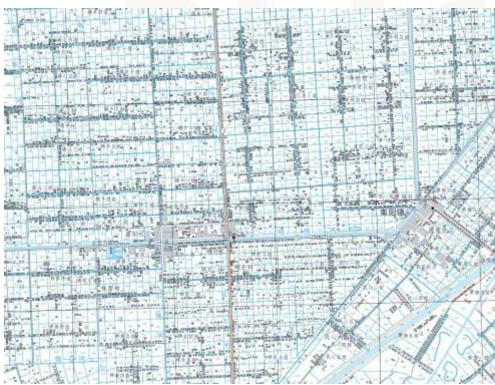


Before updating

Before updating







Before updating

Before updating



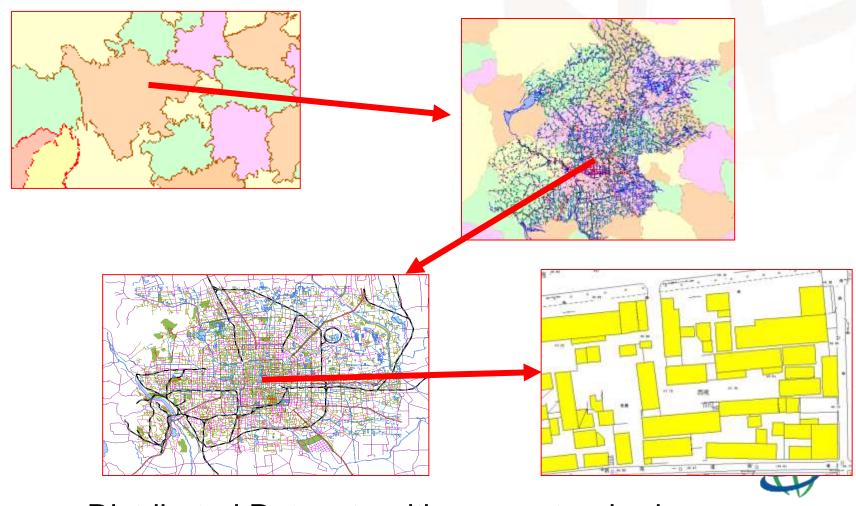


Before updating



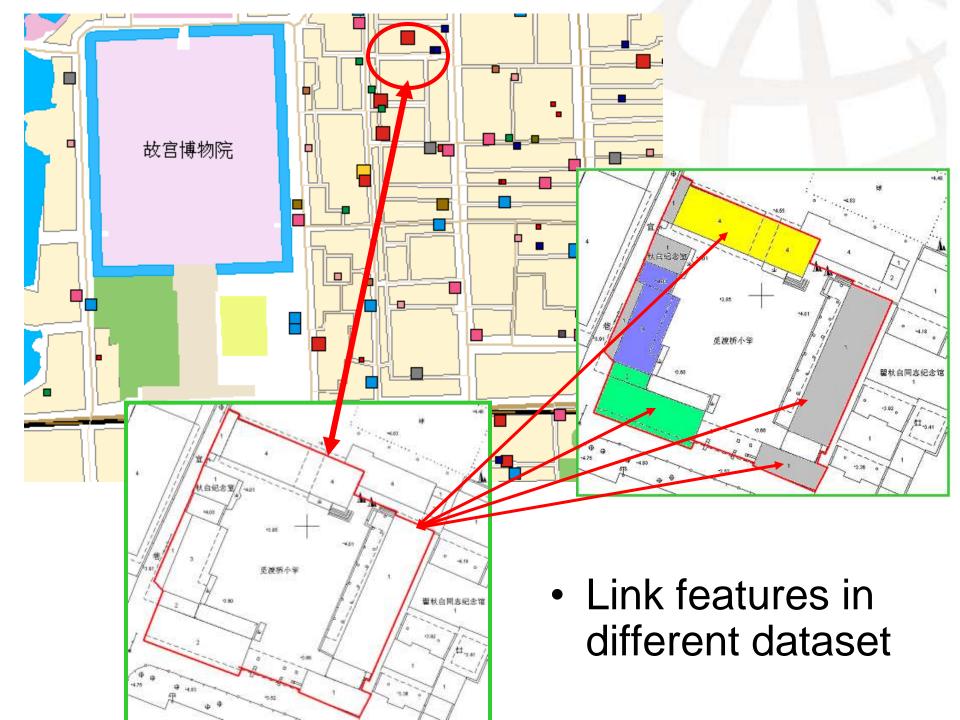
Upgrade for Smarter Services

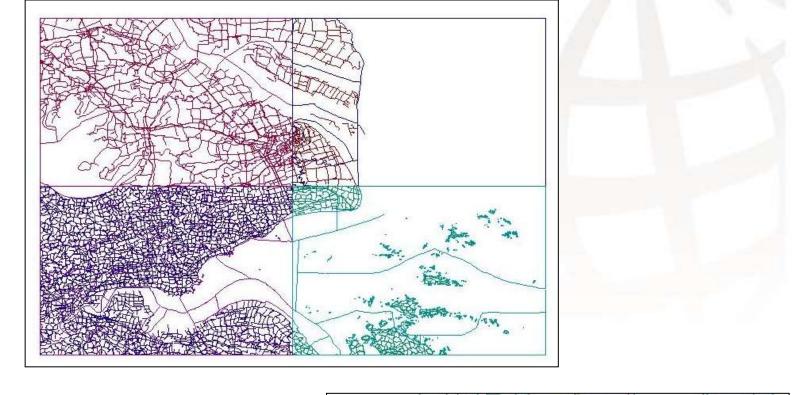
-Harmonization & Re-modelling



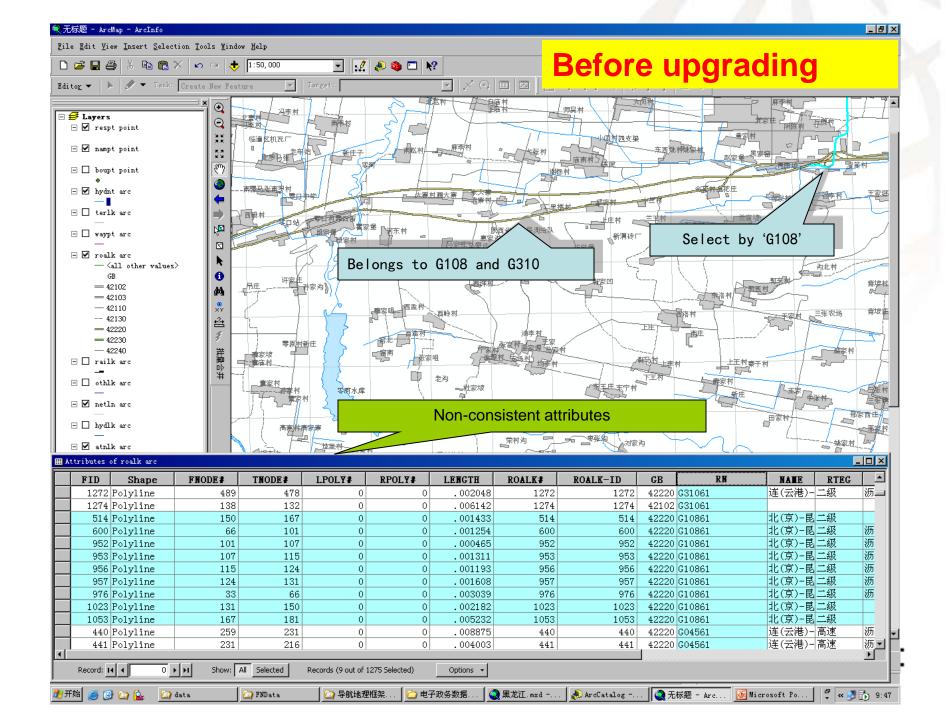
■ Distributed Datasets with same standards

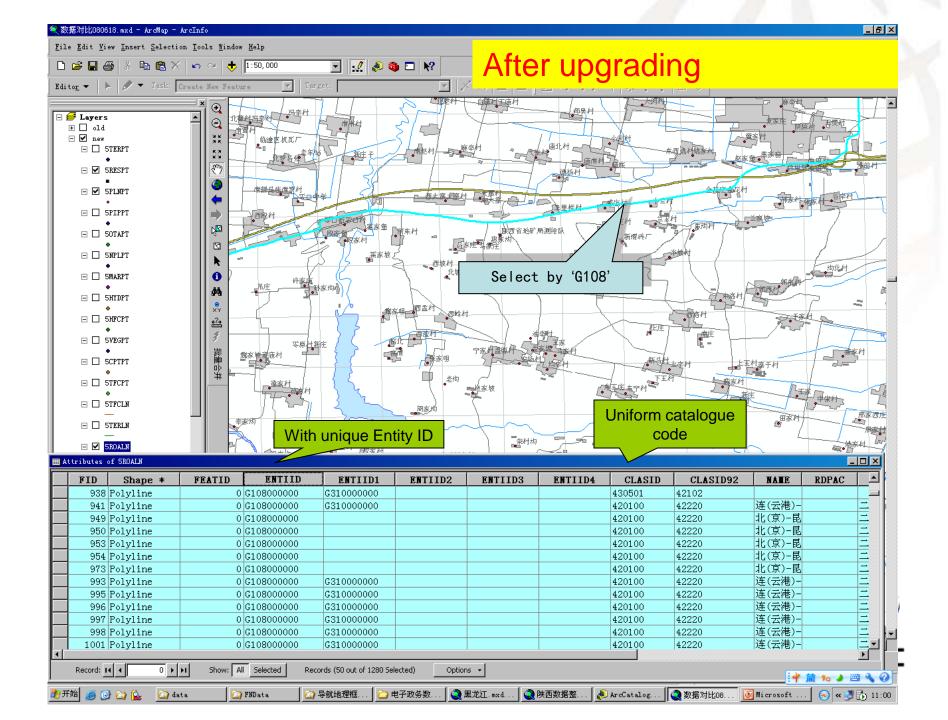


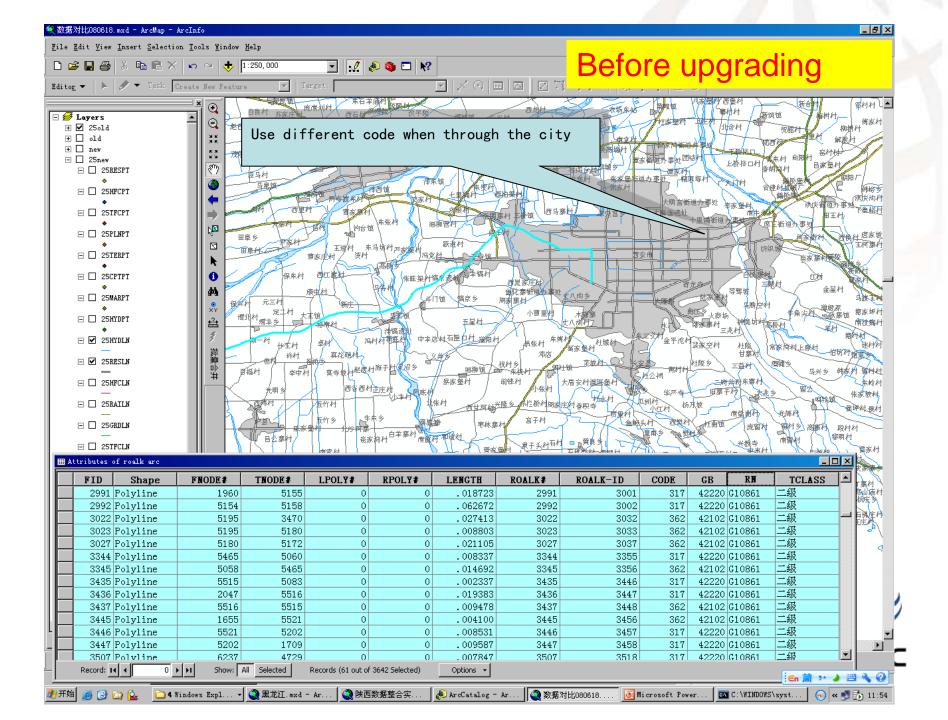


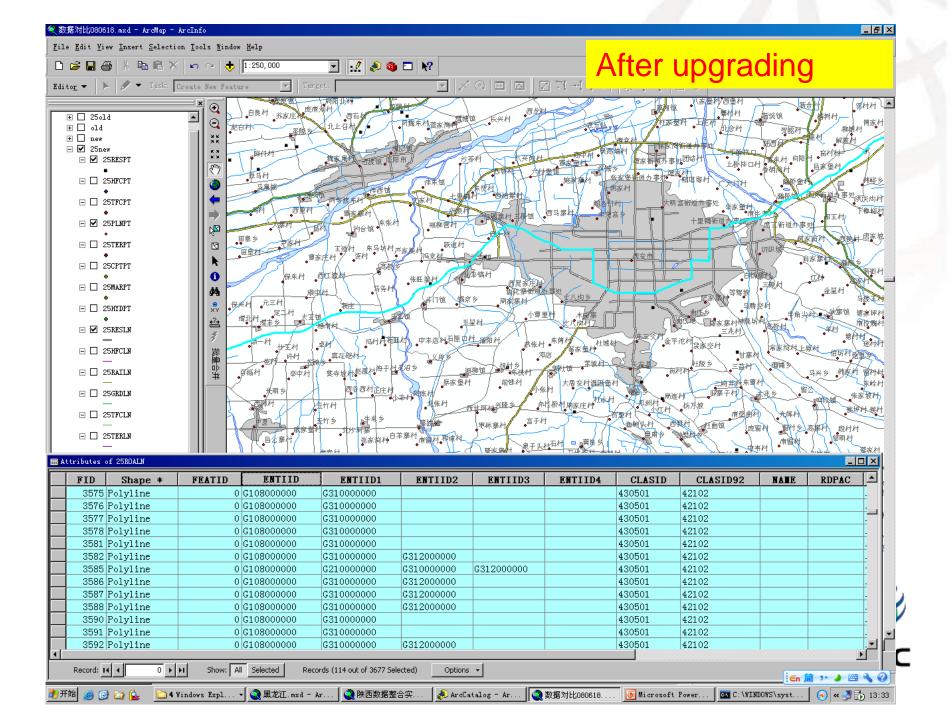


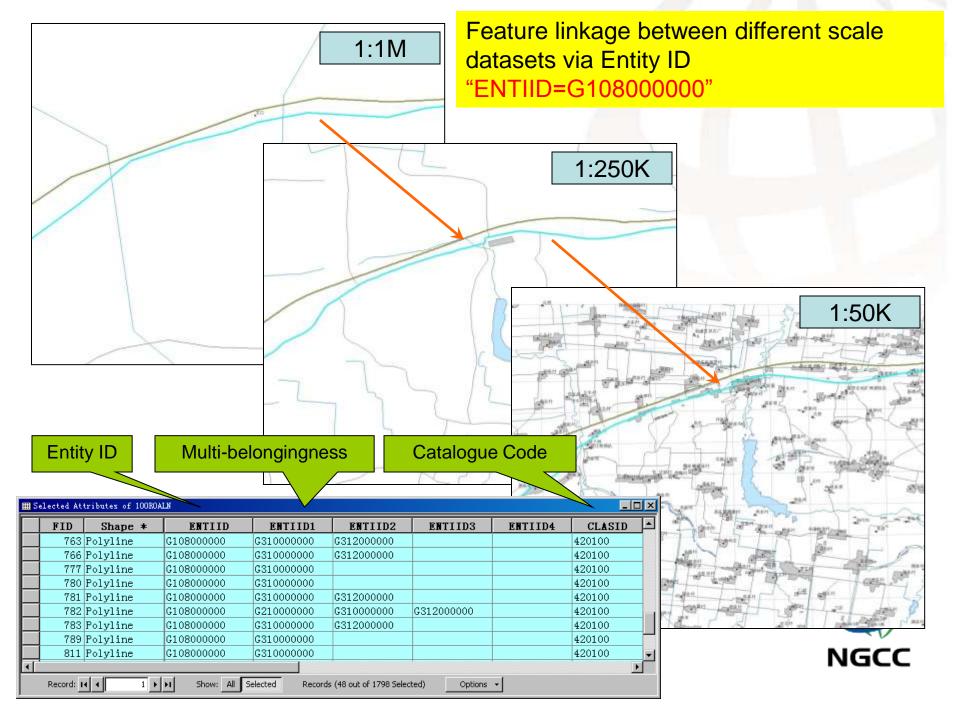


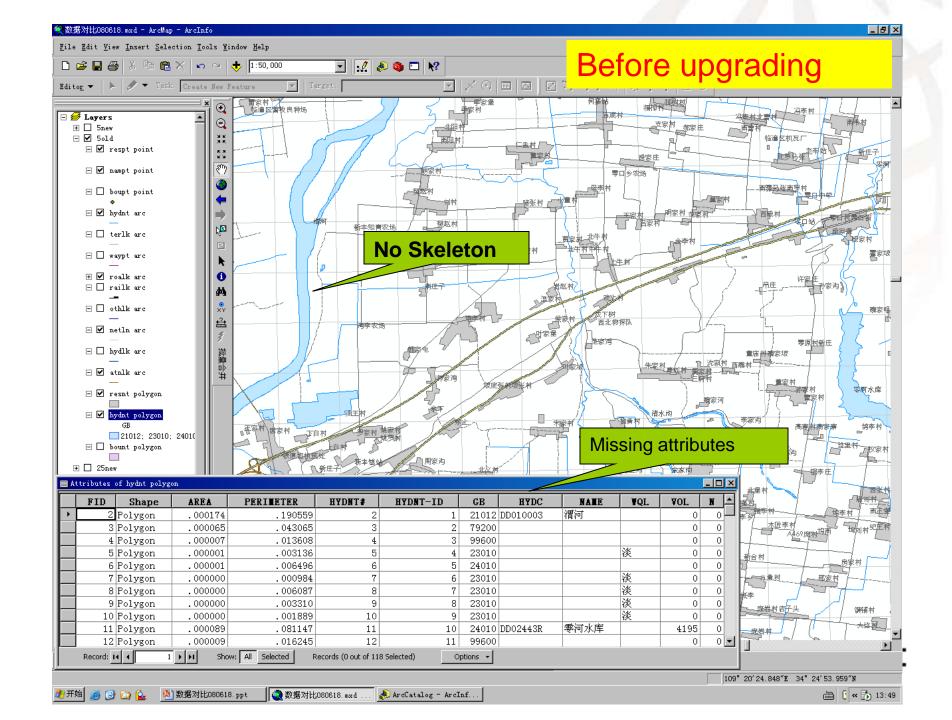


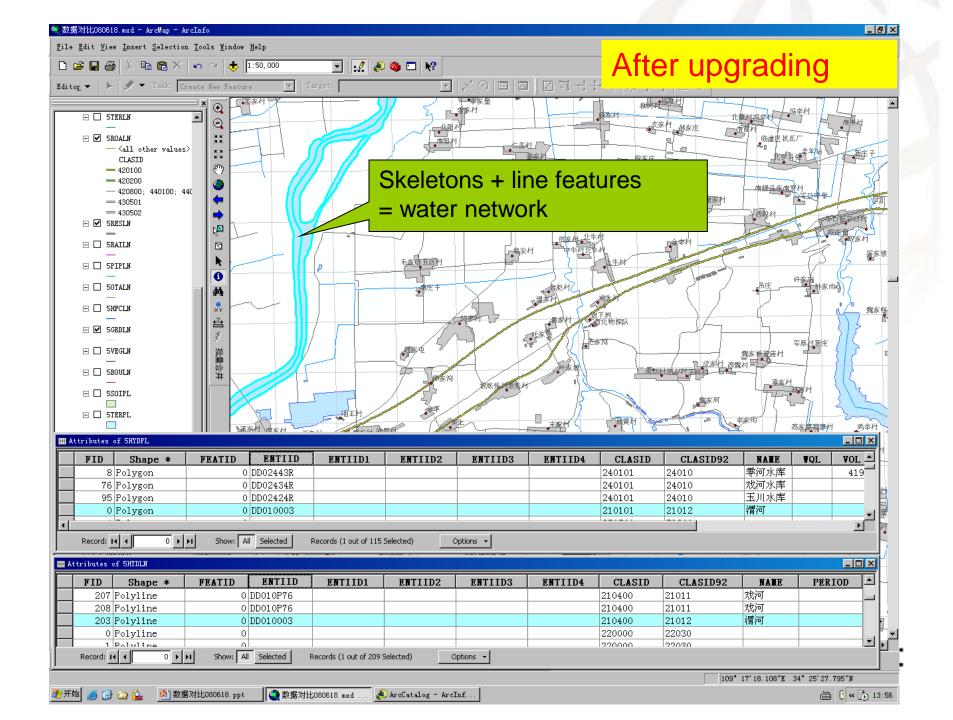


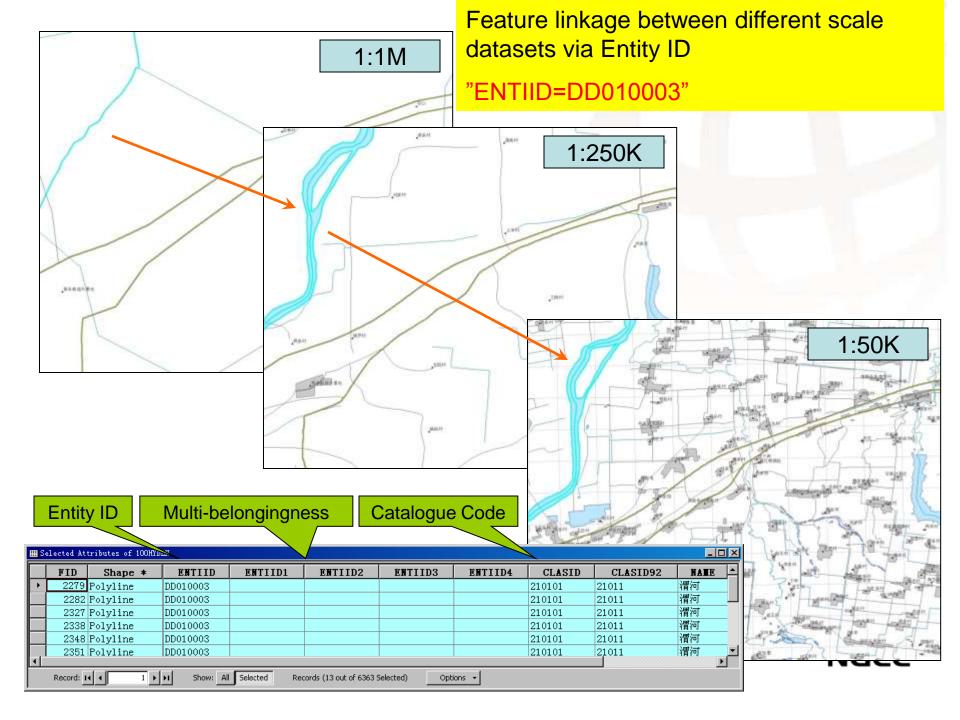


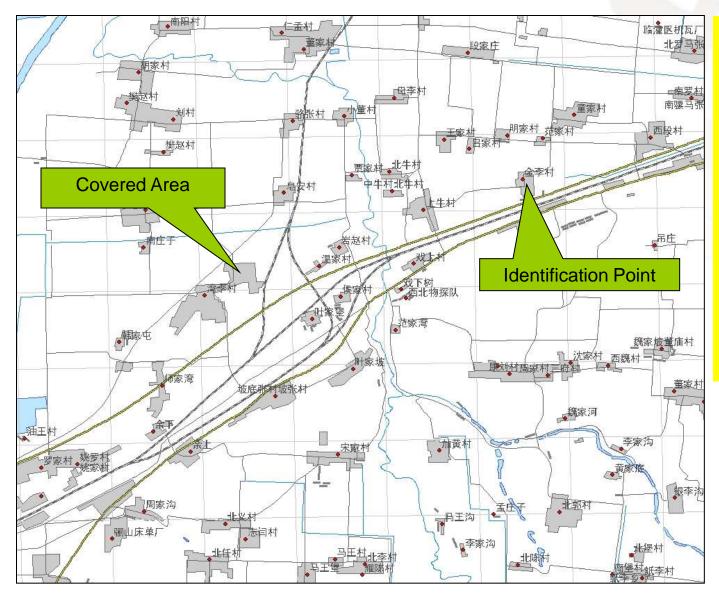












Settlements:

- Identification
 Point As Key
 Feature to link
 Social economic
 information
- Covered Area-As background for displaying



Upgrade for Smarter Services

-Cartography for on-line Services









Upgrade for Smarter Services

-Cartography for on-line Services



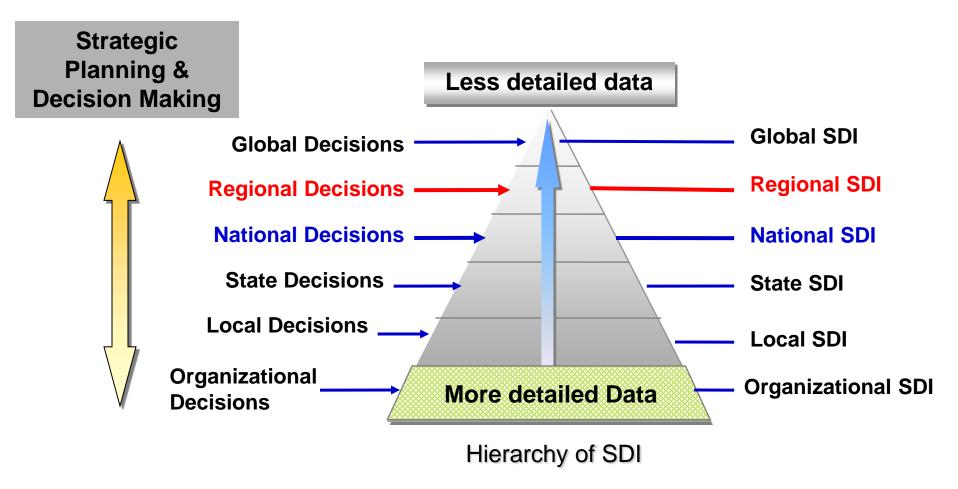
Level of Details

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Suggestion -- Regional SDI for AP



Success depends on cooperation between individuals and agencies

Suggestion -- Regional SDI for AP

- European Commission Directive 2007/2/EC: establishing an Infrastructure for Spatial Information in the European Community (INSPIRE) to ensure that the spatial data infrastructures of the Member States are compatible and usable in a Community and transboundary context.
- and usable in a Community and transboundary context.
 The Directive requires that community and Regional SDI are adopted in a number of specific areas for APaRegion Lifications, Network Services, Data and Service Sharing and Monitoring and Reporting).





INSPIRE GEOPORTAL

Enhancing access to European spatial data





Thanks

