



A Comparative study on Marine Spatial Management
between Republic of Korea and China

2011. 5. 21

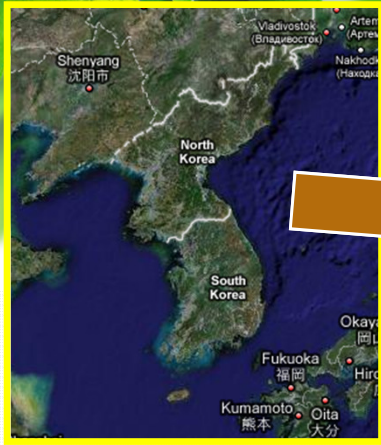
Korea Cadastral Survey Corp.
Technological Development Team
Hyun Sook, Lee



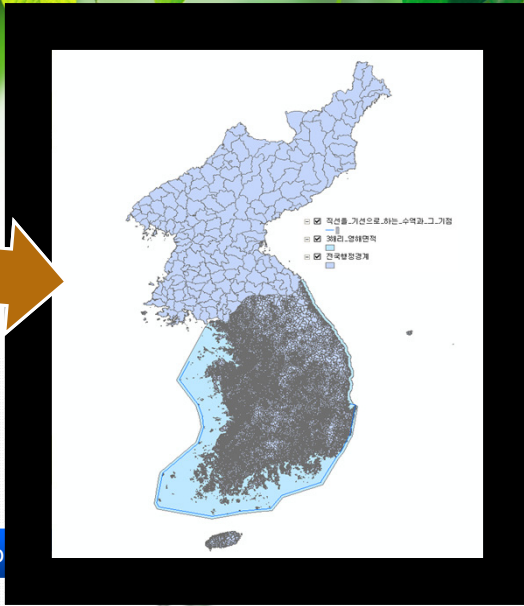
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1. Introduction

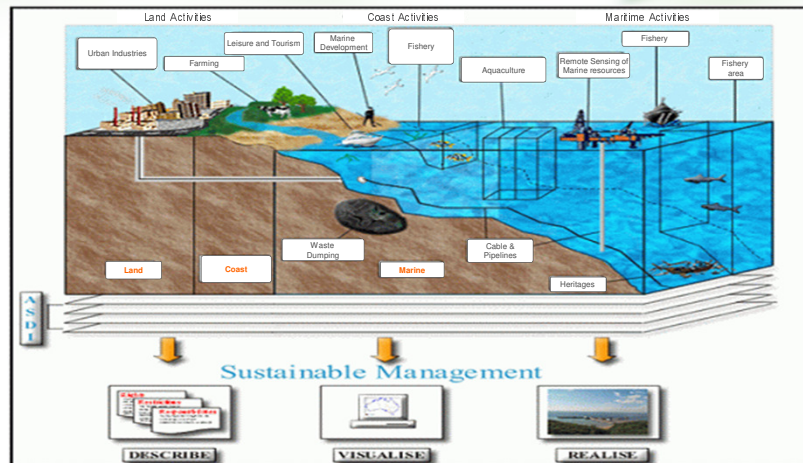


Marine Po



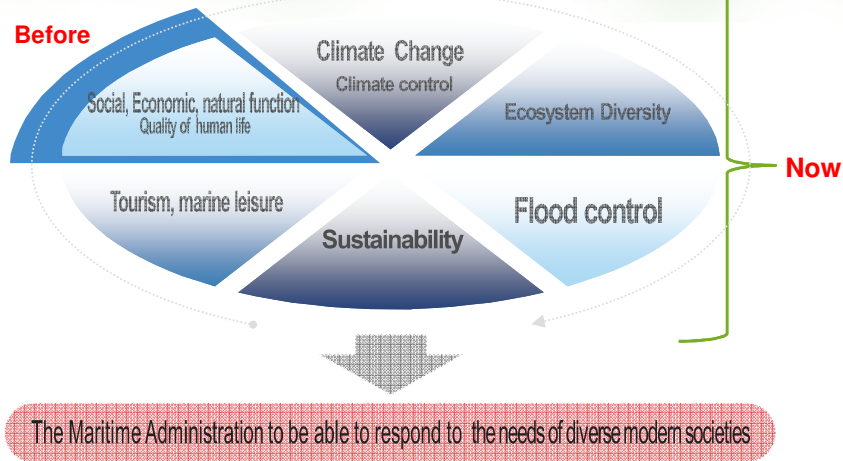
1. Introduction

Marine Activities



Binns, A et al. (2003) Issues in Defining the concept of marine cadastre for Australia, Presented at the UNB-FIG meeting.

2. Current issues in Marine Spatial Management



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3. Marine area in South Korea

Trouble shooting of Marine management

❖ Conflict of marine boundaries

Conflict of reclamation area between local governments

Conflict of Fishery rights

Conflict of jurisdiction

❖ Conflict types

- - Islands
- - Reclamation
- - Fishery



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3. Marine area in South Korea

Coastal management system in South Korea

- Divided into General information for general user and government support system for public officer
- Web Based GIS and time sequence information (Tidal, Hurricane, Waves, Tsunami etc.)
- Improvement recently, provide Satellite imagery and location based shore information etc.

Structures of the two systems

Coastal information



Public affairs support system



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3. Marine area in South Korea

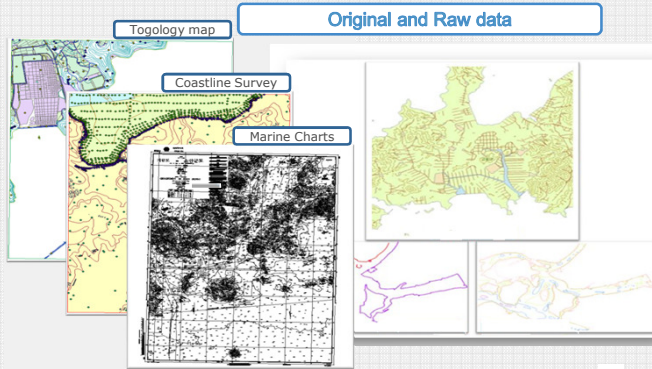
1:25,000 scale ; Coastal Information Map

By Ministry of Land, Transport and Maritime Affairs

Provide 9 groups and 39 layers for ..

Coastline, Salt marsh, river, reference points on land, islands, marine reserves, DEM, etc.

Using imagery from Landsat, IKONOS, Arirang #2 (Korean Satellite)



.....+ With Satellite Imagery

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3. Marine area in South Korea Coastal Management (WebGIS)



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3. Marine area in South Korea Trouble shooting of Marine management

Regulation on marine area

- Coastal Management Act. Water and reclamation Act.
- Land Reclamation Act. Port Act.
- Fishery Act. Maritime Community Act.
- Fishery Management Act Shipping Act. etc.

Needs for
location based
marine cadastre

Organizations related to marine area

- Ministry of Health & Welfare
- Ministry of Environment
- Ministry of Land, Transport and Maritime Affair
- Statistics Korea
- Korea Meteorological Administration
- Marine Police and Coast guard
- Ministry of National Defense etc.

Unification of
related Regulation
and Organizations

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4. Marine Cadastre System in China

Marine management of China

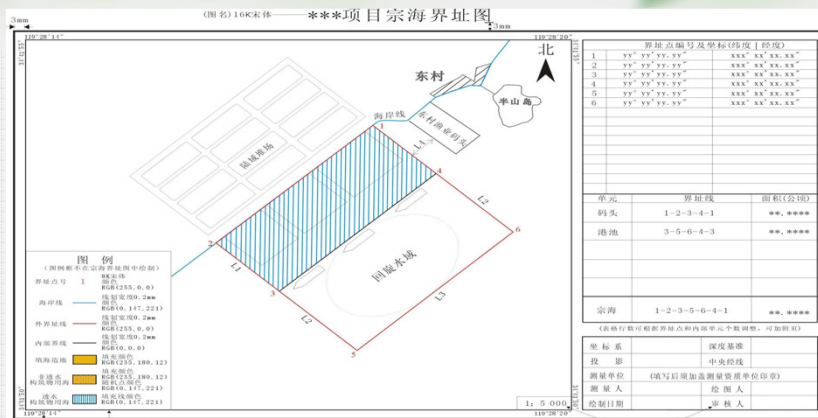


宗海位置圖 from Southern china : Kim et al, 2009

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4. Marine Cadastre System in China

Marine Registration System



Marine Boundary for fishery, (from Kim et al, 2010)

Include, marine parcel usage, size Location and coordinates from GPS Survey for fiscal and environmental purpose

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5. Conclusion

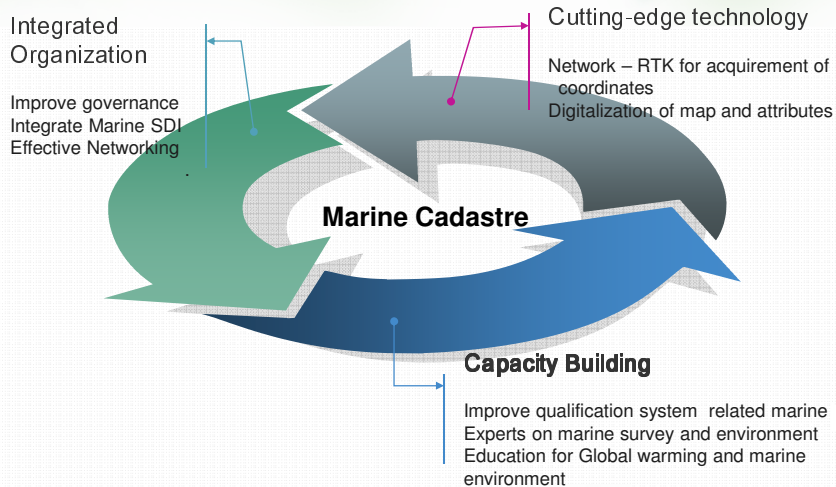
❖ Recommendation for building Marine cadastre system

- Introduction of land cadastre advantages
- Reasonable registration object set for marine management
- Marine lot number and classification by Law
- Review of legal, institute, technical aspect on maritime boundaries
- Providing Web-based Marine cadastral information system

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5. Conclusion

❖ Recommendation for Marine area in South Korea



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