

# **Mainstreaming of ecosystem services in to decision making process**

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# Presentation overview

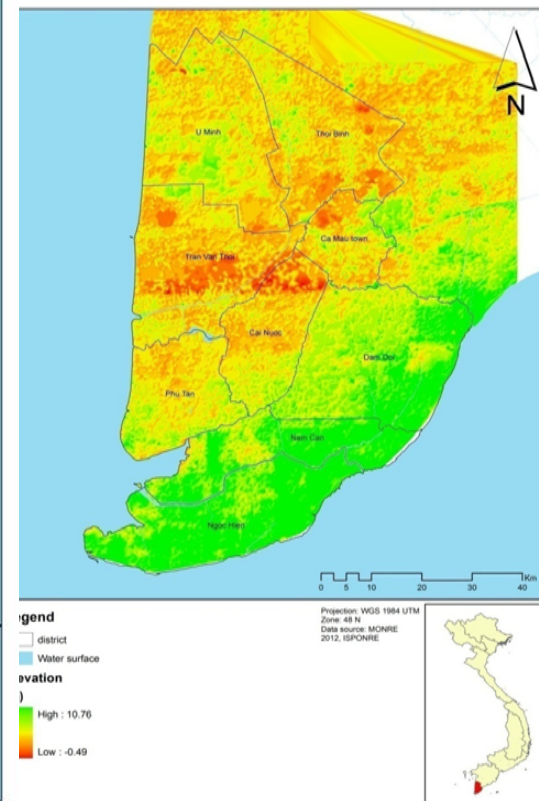
- Background/Objectives
- Methods/Data
- Findings/Policy intake



# Background

## Ca Mau province

- Total area: 62,436 ha
- Largest mangrove area in the country
- Mui Ca Mau National Park was approved by UNESCO to become Mui Ca Mau **International Biosphere Reserve** on 26/05/2009.
- It was recognized as the **5th Ramsar** of Viet Nam and the 2088th of the world on 13/12/2012

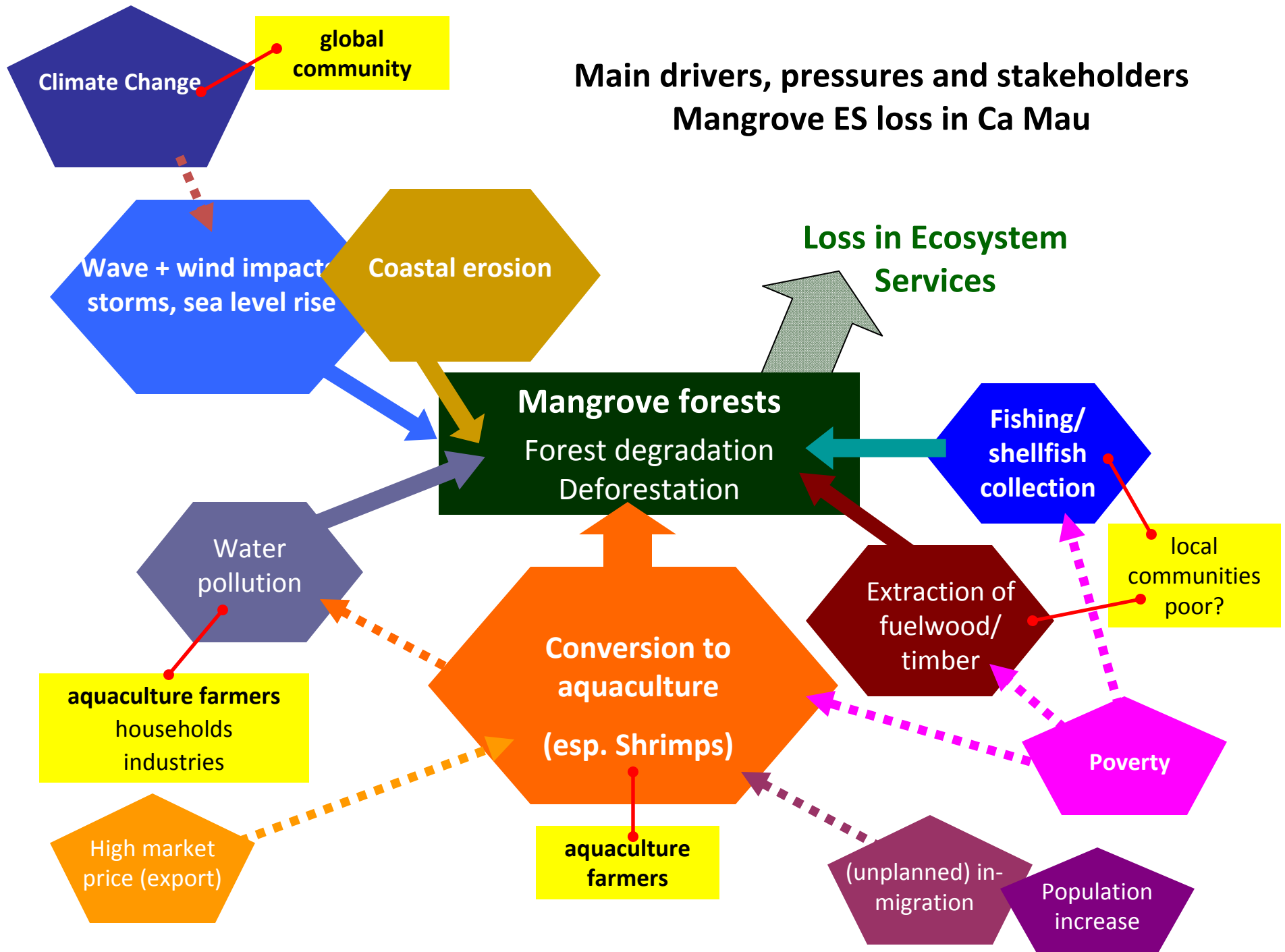




## High pressures from development



## Main drivers, pressures and stakeholders Mangrove ES loss in Ca Mau



# Methods/Data

## Supporting tools

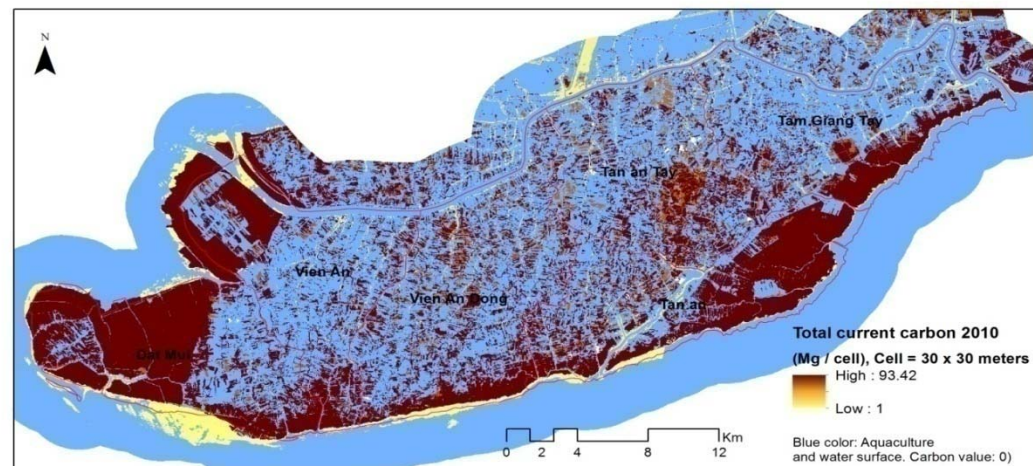
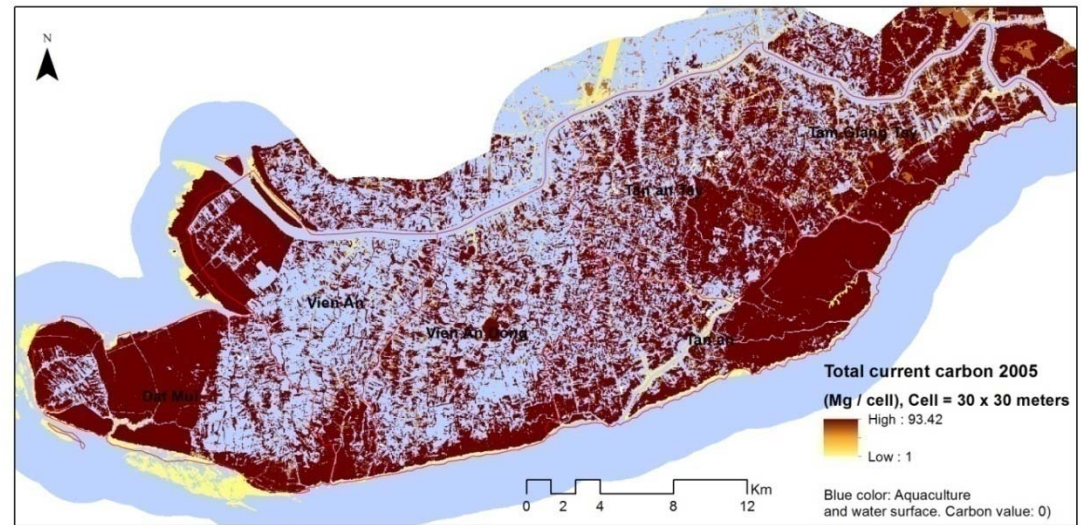
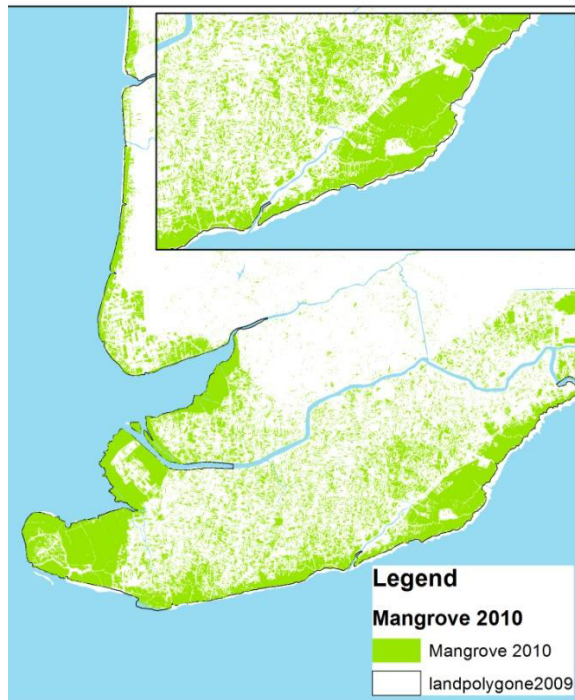
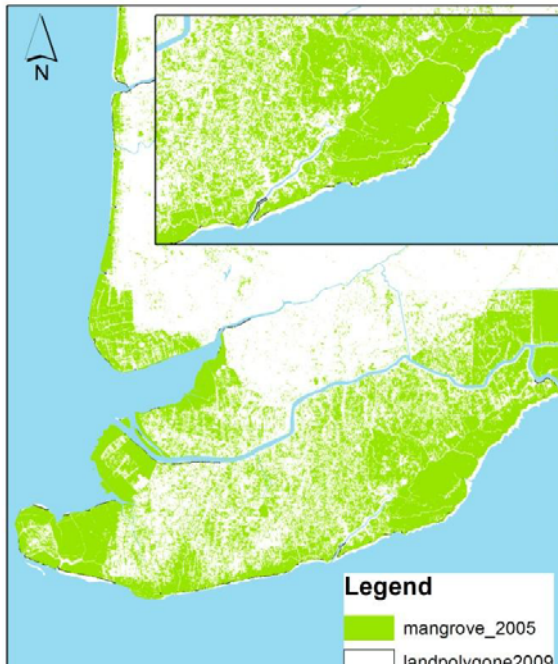
- Mapping
- Valuation
- Trade-off analysis

## Mainstreaming of ES at national and provincial level

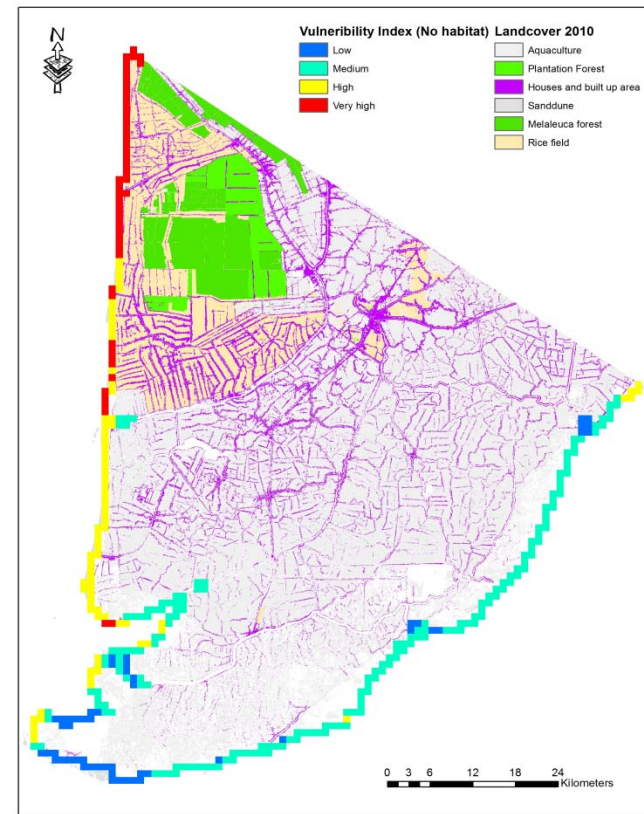
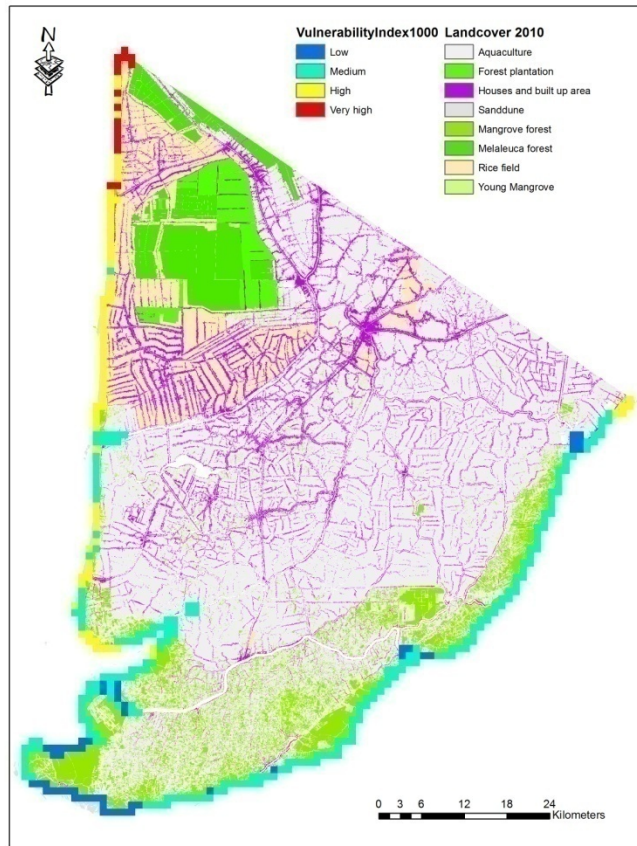




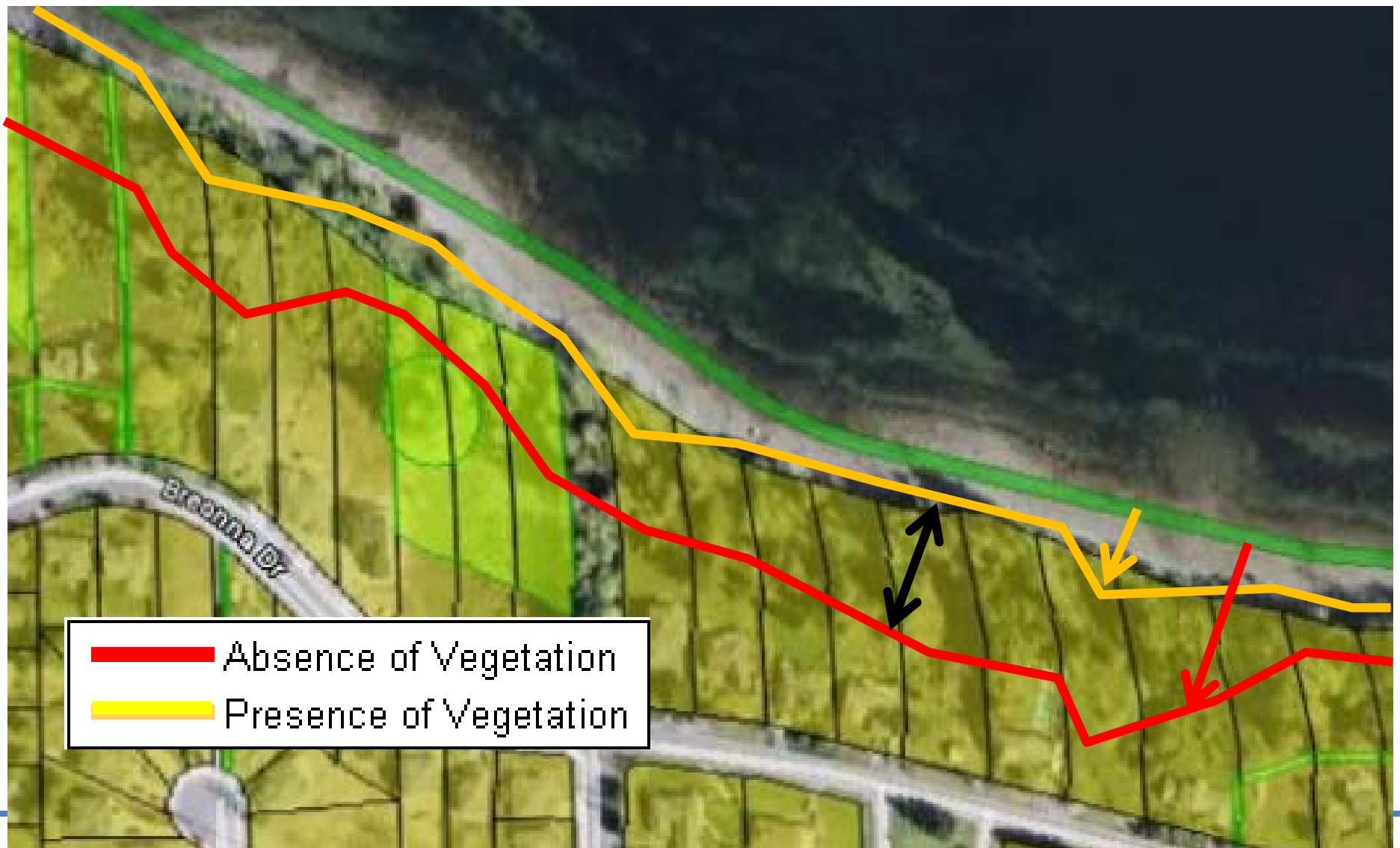
# Mapping of ecosystem services



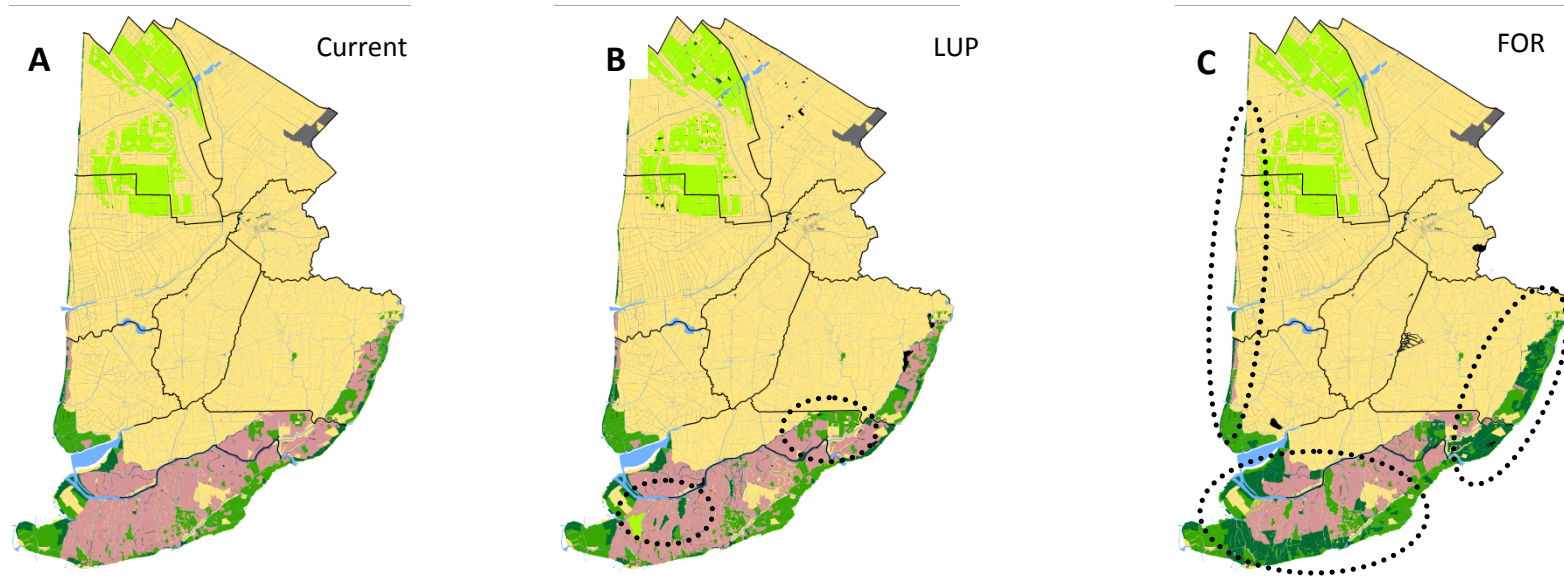
# High vulnerability areas





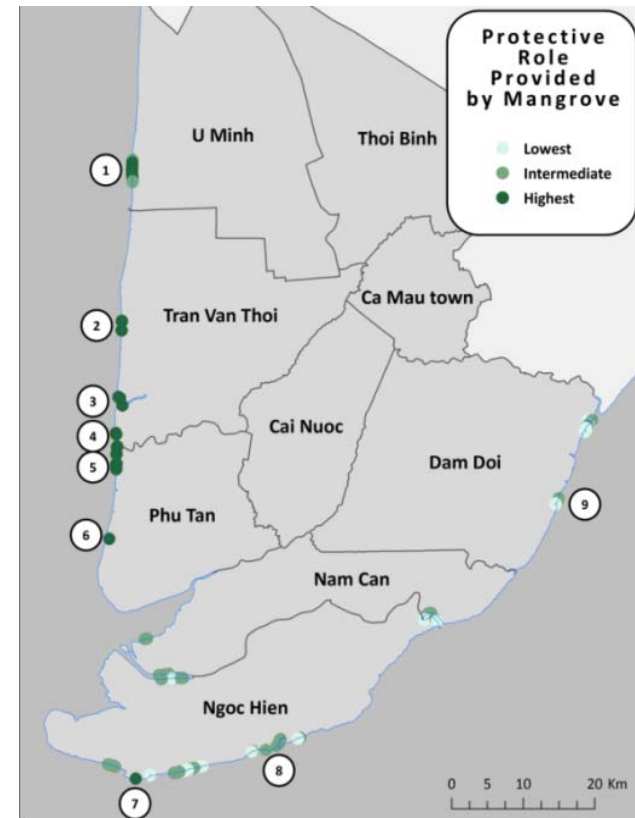
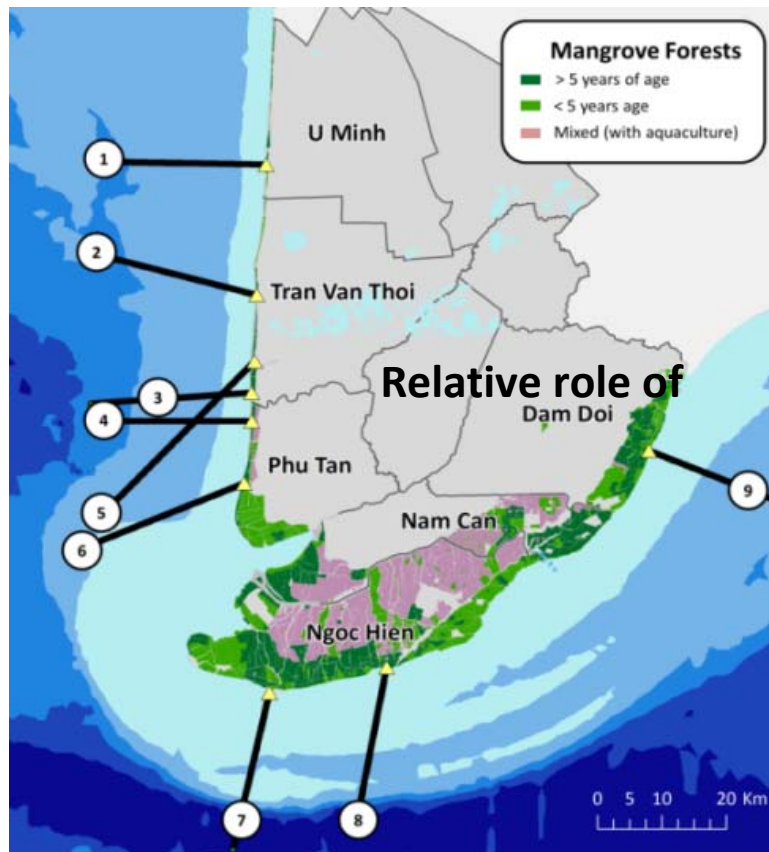


# Mapping of Ecosystem Services



Land use and cover across two alternative future scenarios (B and C) as produced by the InVEST Scenario Generator (green colors = forest; pink color = mixture of mangrove forest and shrimp farming). Circles indicate large areas of change by the year 2020 as compared to the current scenario (A).

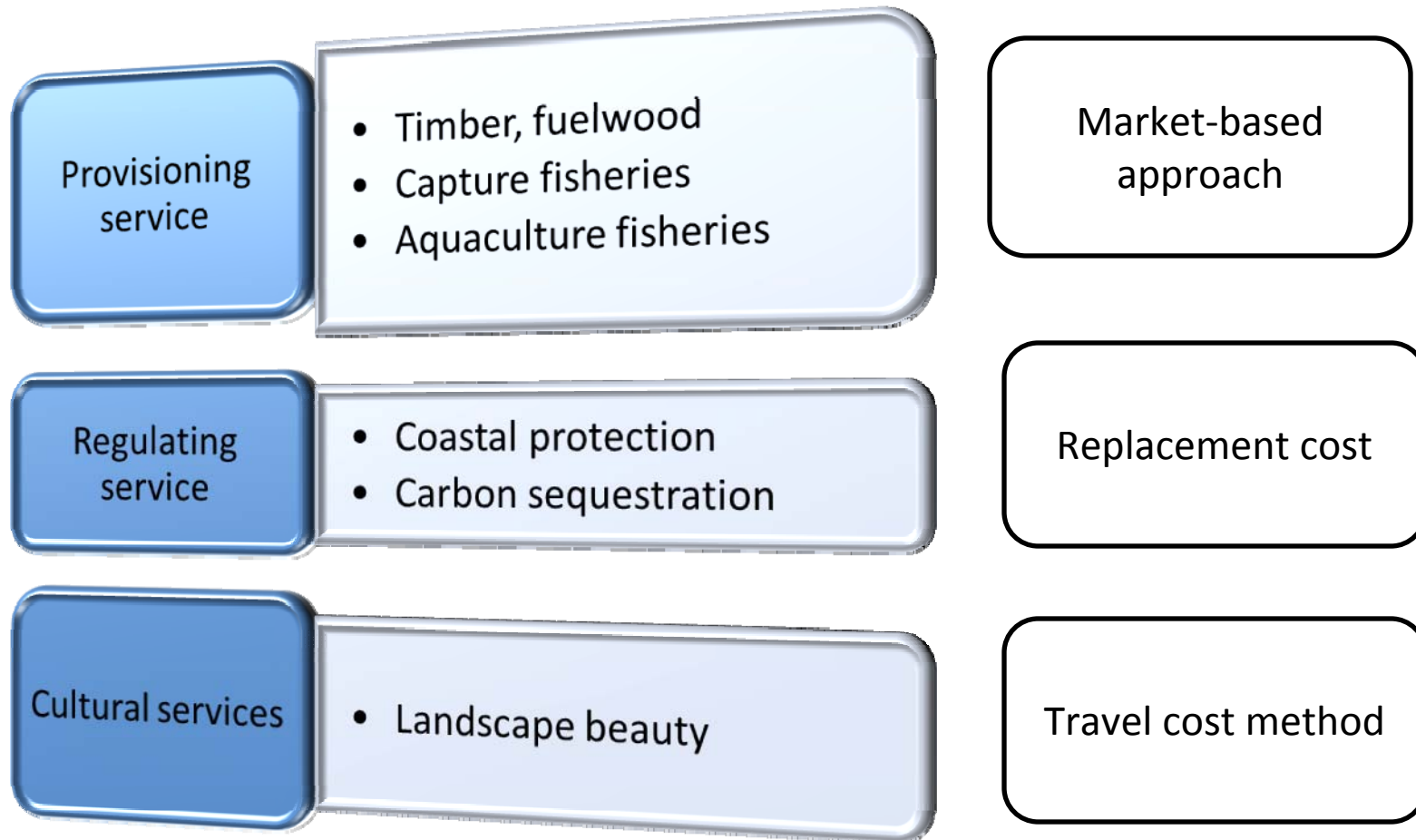
# Mapping of Ecosystem Services



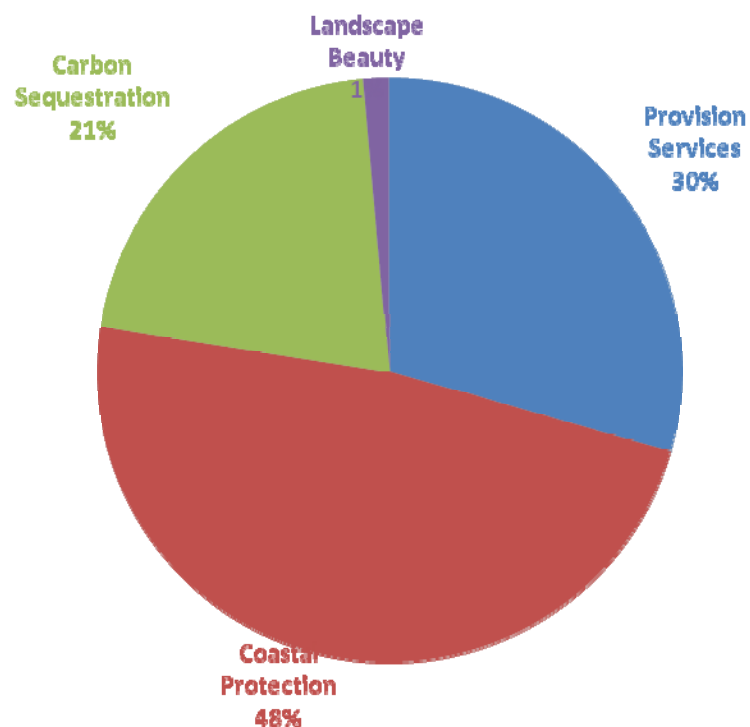
*Mangroves in reducing exposure from coastal hazards in the FOR future as compared to 2010 (current) scenario*



# Valuation of Ecosystem Services



# Valuation of Ecosystem Services



Ecosystem Services	Value (VND/ha/year)
Provision Services	9,872,556
Coastal Protection	16,130,000
Carbon Sequestration	7,077,061
Landscape Beauty	474,000
<b>Tổng</b>	<b>33,080,091</b>

# Local Valuation to National Decision Making

ProEcoServ

Application of  
Tools

Outcomes at sub-  
national level

Policy impacts at the  
national level

## Mapping tools

Carbon sequestration  
Coastal protection

Land Use Planning

Forest Payments for  
Ecosystem Services

National Green Growth Strategy

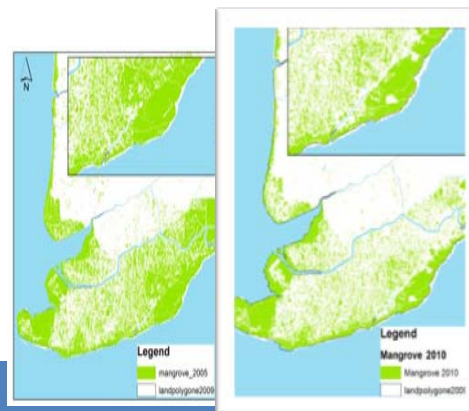
National Strategy for Environmental  
Protection to 2020, vision to 2030

## Valuation tools

Provisioning services  
Regulating services  
Cultural services

Investment Policy for  
Mangroves

Party Resolution on Actively  
Responding to Climate Change,  
Strengthening Resource  
Management and Environmental  
Protection





# Mainstreaming Process

- Detail Land Use Planning of Ca Mau National Park

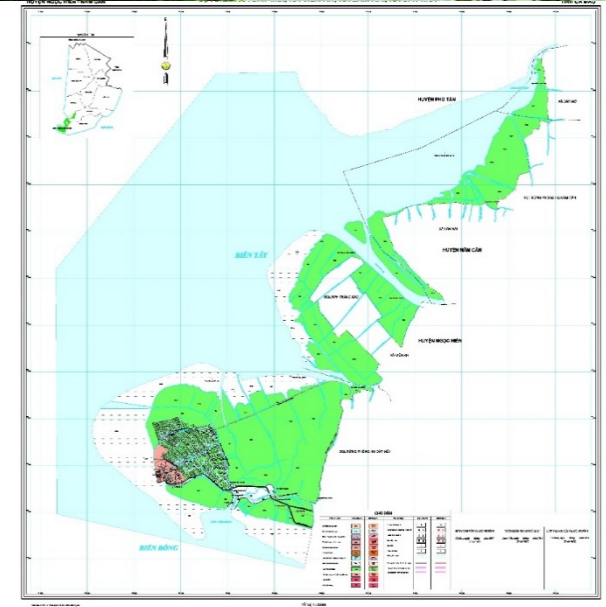


Understand  
land use  
resources

Assess LU  
change

Propose LU  
options

Develop LUP  
maps



# Mainstreaming Process

- Party Resolution no. 24-NQ/TW on responding to Climate Change, natural resources management and environmental protection ,
- The National Strategy for Green Growth
- National Strategy for Environmental Protection to 2020, vision to 2030



# Mainstreaming Process

- **Identification, assessment of natural resource values and development of natural resource accounting system**

(Party Resolution no. 24-NQ/TW on responding to Climate Change, natural resources management and environmental protection)



"Restoration and development of **natural capital**"

- Study and issue economic and financial policies for **restoring and developing natural capital resources**, mobilizing and encouraging all economic sectors to **invest in ecological services infrastructure**, conservation areas and **restoration of degraded ecological systems**

-Formulate a **green accounting system** through valuing natural resources

(**National Green Growth Strategy** in the period 2011 - 2020 with vision to 2050 )



# Mainstreaming Process

- We recognize that the natural capital/resources lie at the heart of economic development, underpins inclusive and sustainable development and sustains the livelihoods and wellbeing of all people in the GMS, especially the rural poor
- We welcome initiatives under the GMS Core Environment Program (CEP) to **promote increased knowledge and financial investments to protect, maintain, and enhance our natural capital/resources**

*Joint Ministerial Statement, Greater Mekong Subregion  
4<sup>th</sup> Environment Ministers' Meeting*

<http://www.gms-eoc.org/events/emm4>





**Thank you**

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