



## Deltas in Times of Climate Change II

24 – 26 September 2014



### Mekong Delta

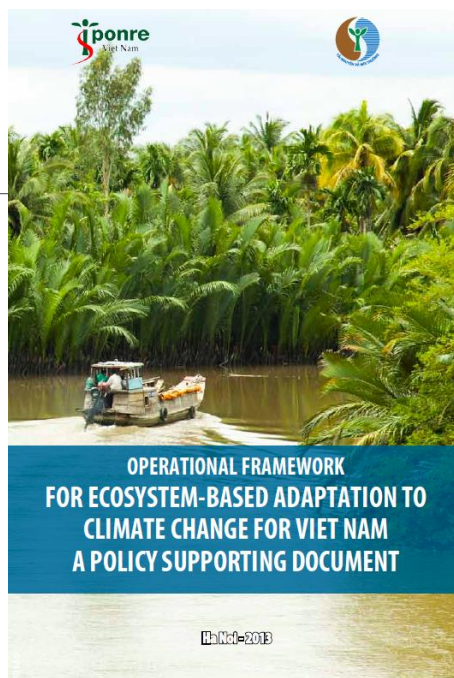
A case study on  
successful policy  
advocacy for enabling a  
legal framework on green  
adaptation in Vietnam

Viet Hoang, WWF Vietnam



## Content

1. Rationale
2. Green adaptation solutions implemented on the ground
3. Lesson learned





## Rationale

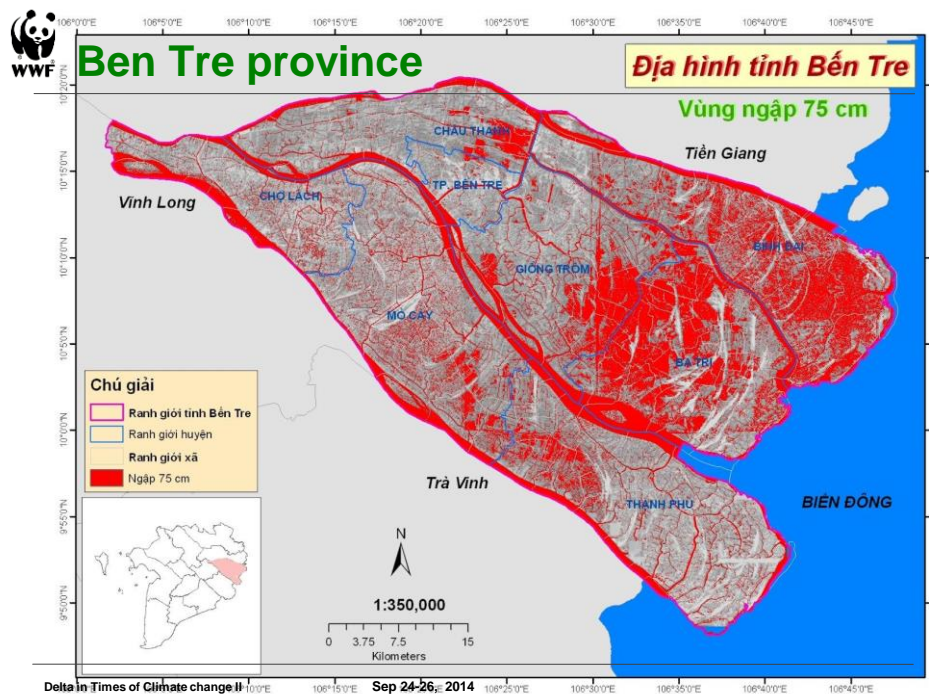
- Vietnam is one of most vulnerable countries to climate change
- Adaptation to climate change increasingly recognized in all development agenda in the Vietnam
- Growing investments in infrastructure and physical engineering solutions to CC adaptation
- Lack of understanding of how these affect to natural ecosystems and local communities
- Lack of practical information on how ecosystems and its services can help people adapt to adverse impacts of CC

→ ***A need for better understanding of the effectiveness of green adaptation and include it in policy and planning processes,***

→ ***Think globally, act locally!!!***

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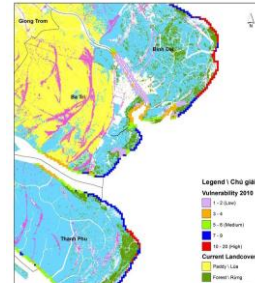
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## Land use planning adjustment

- Assess current and future climate and non-climate risks to local communities
- Identify high risk areas to climate change
- Reallocate/resettlement to safer areas
- Create buffer zones for farming areas



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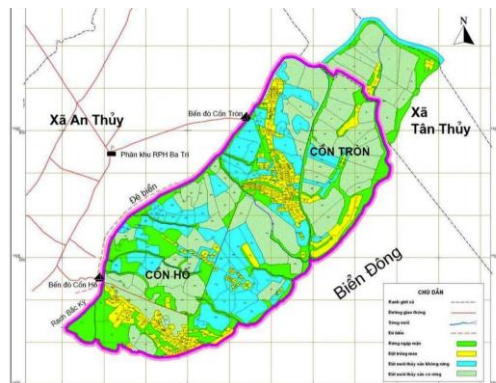


## Climate-smart agriculture

Watermelon: Lack of water, pollution, high cost, highly affected by sea (wave and wind), salt vapor in the air

- Replant mangroves along the coast to reduce wave and wind energies and absorb salt vapor
- Composting by agricultural wastes
- Water saving irrigated farms

→ Results: farming costs reduced by 30% and productivity increased by 30%



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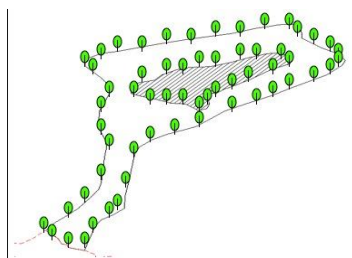
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## Agro-forestry/organic shrimp

Shrimp-mangrove aquaculture:  
Habitat reduce, disease out-break, low yield, highly affected by weather events

- Improve farming practices (pond preparation, seed selection, growing calendar, culturing and harvesting)
- Restore mangroves inside and around farm
- Diversify farming species/poly-culture



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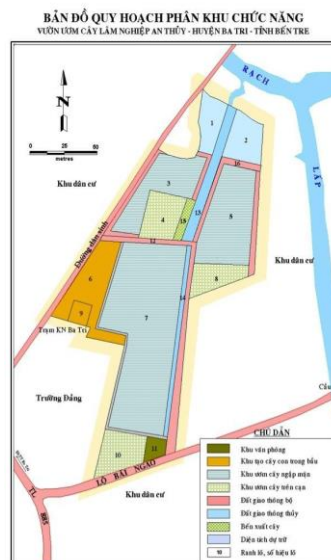
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## Mangrove nursery

Lack of good/diverse mangrove seedlings for replantation of 100ha every year

- 2.2 ha land allocated for building a mangrove nursery
- 1,000,000 healthy mangrove seedlings produced every year
- 6 mangrove species suitable for different type of soils and hydro-ecological conditions



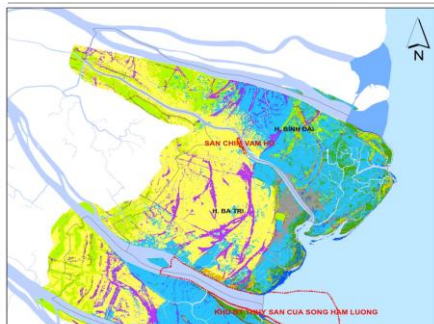
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## Mangrove restoration and conservation



- 2 new Protected areas established
- 05ha degraded mangrove rehabilitated
- > 250 people from 8 companies and 3 universities participated
- Local communities led monitoring and managing restored mangroves



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## Capacity building & Awareness raising

- Training courses on climate change and climate change adaptation
- Share and exchange experience and knowledge to other provinces
- Training on monitoring and managing coastal mangroves
- Improve understanding on aquatic resource management and protection



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## Information sharing

- Annual Mekong Delta Conservation Forum
- Show-case and call for international support for climate change adaptation action
- Documentary films for local communities on impacts of climate change



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## Cost-effectiveness of adaptation measures (in first 10 years)

District	Adaptation measures	Number people to be protected	Building and maintenance costs (billion VND)	Cost-effectiveness (mil./person)	Other economic values (bil. VND)	Total cost (bil. VND)	Cost-effectiveness (mil./person)
Thanh Phú	Sea dyke	14,806	- 2,390.5	-161.5		-2,390.5	-161.5
	Green adaptation		- 21.3	- 1.4	64.4	43.1	2.9
Ba Tri	Sea dyke	10,070	- 190.3	- 18.9		-190.3	- 18.9
	Green adaptation		- 10.5	- 1.0	58.9	48.4	4.8
Bình Đại	Sea dyke	4,714	-1,526.6	- 323.8		- 1,526.6	- 323.8
	Green adaptation		-17.3	- 3.7	105.4	88.1	18.7
Ben Tre province	Sea dyke	29,590	-4,107.3	- 138.8		- 4,107.3	- 138.8
	Green adaptation		-49.1	- 1.7	228.7	179.6	6.1
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## Lesson learned

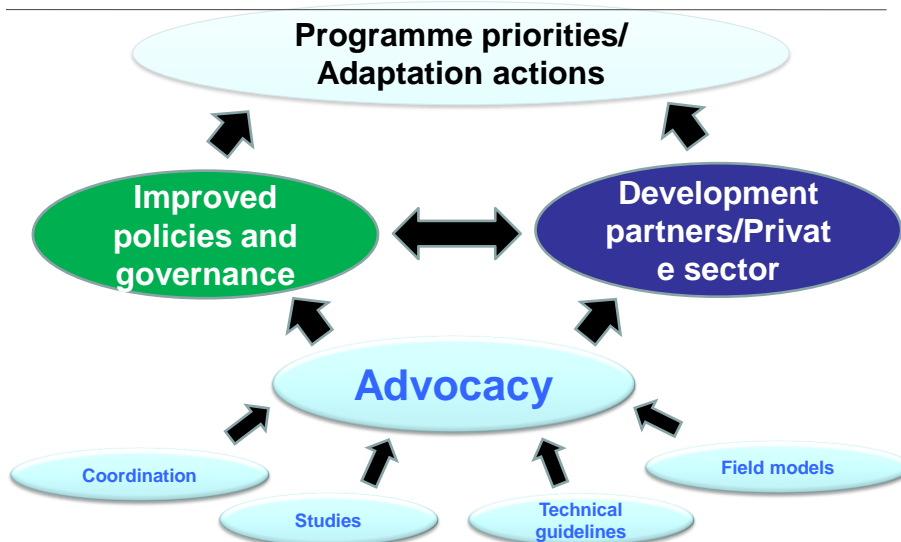
- Green adaptation provides nature-based solutions to reduce vulnerability even under high climate risks and provides multiple benefits to communities.
- Green adaptation can be cost effective.
- Green adaptation should be included in overall climate change strategies to address the future risks, even though it may have to be supplemented by other measures.
- Green adaptation solutions should be mainstreamed and implemented at different scales with local levels prioritized first.

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## Evidence-based policy advocacy approach



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