

28. Management of Natural Resources in the Coastal Zone of Soc Trang Province

gtz German Technical Cooperation



Management of
Natural Resources
in
the Coastal Zone of
Soc Trang Province

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Project Overview

- Partner institutions: Provincial People's Committee Soc Trang & German Federal Ministry of Economic Cooperation and Development
- Implementing agencies: Forest Protection Sub-department Soc Trang & German Technical Cooperation (GTZ)
- Project Period: 03/2007 – 03/2012
- German contribution (ODA non refundable): Phase 1 (2007-2010) € 2.0 Mio
- Vietnamese counterpart funding: 10%

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Problem

- Unsustainable use of natural resources in the coastal zone and economic interest in shrimp farming is threatening the protection function of the mangrove forest belt and reducing income for local communities

Project Aim

- To protect and sustainably use the coastal wetlands of Soc Trang for the benefit of the local population

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Climate change creates new challenges for the management of natural resources

- Climate change will cause increased intensity and frequency of storms and floods and will cause rising sea levels
- How can management of natural resources contribute to the protection of the coastal zone from the negative impacts of climate change?
- Ecosystem services provided by mangroves

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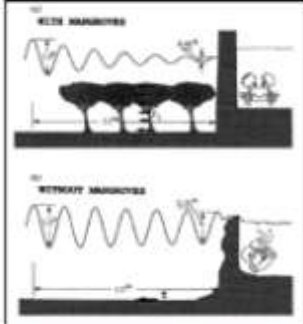
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The setting

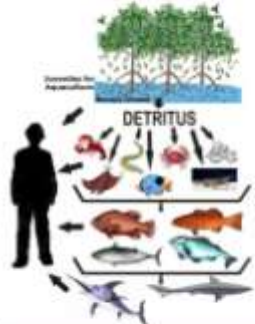


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**1.1 Mio USD for Mangrove rehabilitation saved
7.3 Mio USD annually for dyke maintenance**



**1 ha of mangroves produces up to 3.6 tonnes of litter fall/ year (food)
Each ha of mangrove destroyed is loss 1.08 tonnes of fish per year**

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Dynamic process of accretion and erosion



• 15 km² accretion in 43 years



• GE image April 2007
• GPS track log 17 months later

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Need for integrated coastal area management (ICAM)

- Parts of the coastal zone cannot be effectively managed in isolation (sectoral approach)
- Institutionalised co-ordination and cooperation of local authorities from provincial through district to commune level (Ecosystem Approach)
- Participation of all affected stakeholders in the planning process
- Integrated planning covering the coastal zone rather than looking at the mangrove forest only
- Risk management over space and time as part of ICAM (not maintain status quo at all costs)

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Test new approaches for mangrove planting

- Past: wind, sediments, barnacles
- Lessons learnt: species, site, time, technique (tool box)
- Mimic nature: imitate the successful regeneration of nature
- Precautionary principle: test new approaches to mangrove planting without having the scientific proof of their successfulness
- Aim: create diverse coastal forests in terms of species composition as well as horizontal and vertical structure (increase resilience)

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Aim: protect and sustainably use the coastal wetlands for the benefit of the local population

- Mangrove rehabilitation and management with emphasis on resilience to climate change
 - Risk spreading strategies (test new approaches)
 - Effective integrated management and protection
 - Livelihood alternatives

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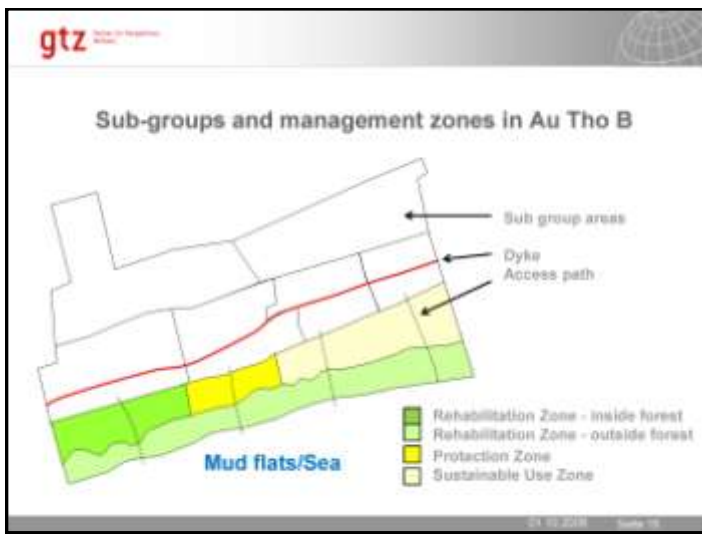
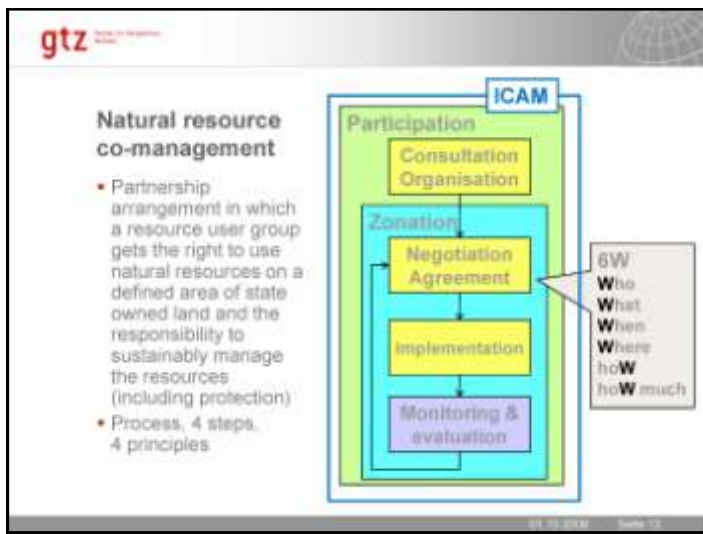
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Test new approaches to mangrove management



State management	Co-management		Community management
control by government agency	shared control government agency and stakeholders		community control
	negotiating specific agreements	sharing authority and responsibility in a formal way	transferring authority and responsibility to communities

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- Benefits of mangrove co-management**
- More effective protection of mangrove forests (rights and responsibilities, ownership, zonation)
 - Livelihood improvement through secure sustainable resource use
 - Resource users involved in resource management decision making
 - Reduced workload for authorities
 - Benefit sharing for maintaining the protection function of the mangroves as part of an ICAM approach



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