

# The Regional Training Workshop Economic Valuation of the Goods and Services of Coastal Habitats March 24 – 28, 2008 Samut Songkram Province, Thailand



# Mangrove Case Study Exercise

#### Group 2:

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Case Study 1: Klong Klone Mangrove Conservation Project

Case Study 2: Yee San Private Mangrove Plantation

### Socio-economic impacts of oil price increase to the goods and services of the coastal habitat

- Effect for the fishermen who are looking for Acetes:
  - reduced time to fish
  - decreased efficiency
  - increased price of fish
  - more alternative source of income
     (e.g. change in profession/occupation)
- Increase in stock of Acetes in the long run

- Lower catch thus lower income

Loss of profit

#### Goods and services to be analyzed

- Acetes
- Blood cockle
- Shrimps
- Green mussel
- Crab
- Fish
- Tourism attractions / visitors
- Research and study
- Monkey
- Mangrove trees (branches for firewood, for domestic use)
- Shoreline stabilization/protection
- Windbreak

## Valuation techniques

Use values	Proposed valuation techniques
Acetes	Direct market price
Blood cockle	
Shrimps	
Green mussel	
Crab	
Fish	
Mangrove trees (branches for firewood,	
for domestic use)	
Tourism attractions / visitors	Travel cost method
Non-use values	
Shoreline stabilization/protection	Surrogate market; benefit transfer
Windbreak	Surrogate market
Research and study	Travel cost and surrogate market
Monkey	WTP

#### Data needs

- Income of the fishermen per household
- Cost of fishing effort
- Market price of the goods
- Trend of annual production of goods
- Total area of the mangrove (historical data)
- Boat rental fee
- Number of fishermen
- Number of visitors per year
- Discount rate / Interest rate
- Data from similar studies

#### Policy recommendations

- Encourage community-based management
- Protection of property rights
- Develop guideline for implementing user fees (e.g. entrance fee) for tourists
- Increase in tax of extractive uses such as charcoal and firewood production
- Diversification of use and packaging of the goods
- Limitation of middlemen in marketing the goods
  - Support from the government in terms of market information, export tax discount etc.