

Rehabilitation of Coastal Vegetation through Community Participation in Post Nargis-The Myanmar Experience

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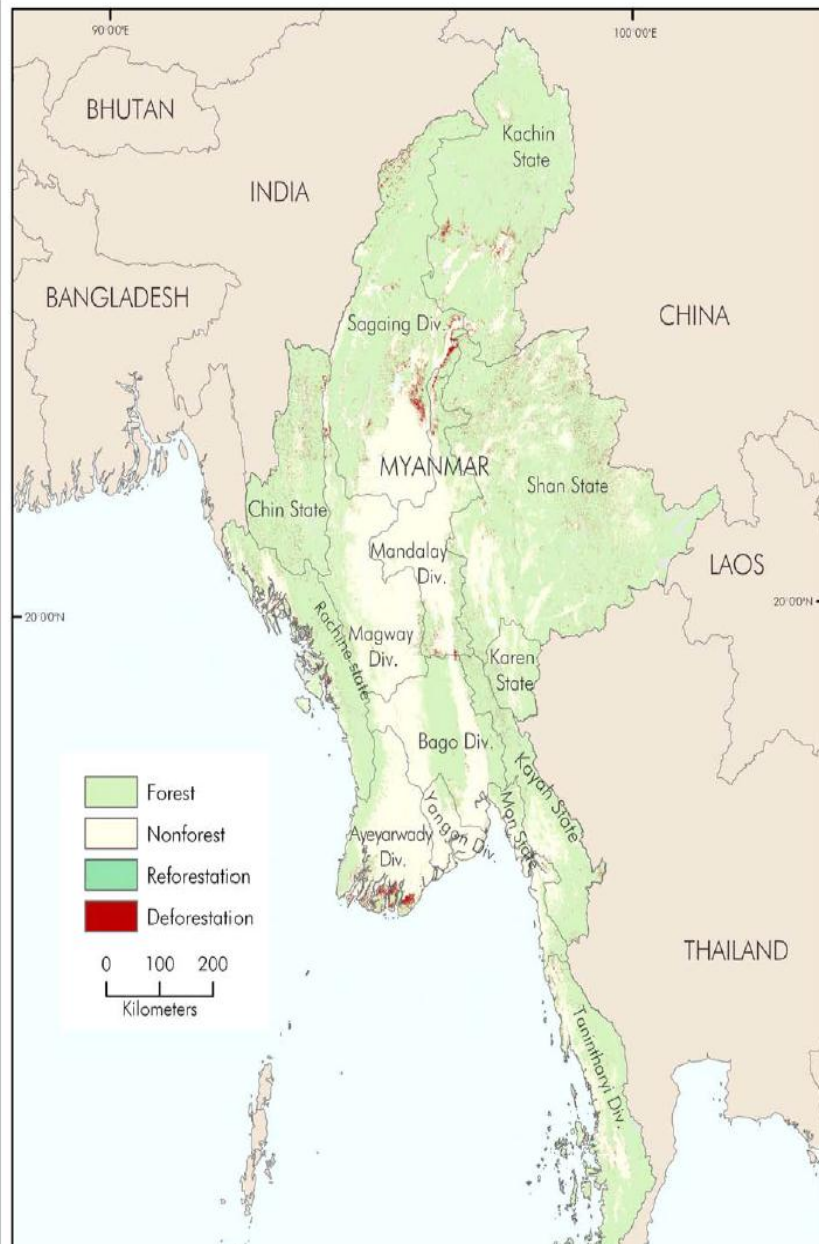
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Association-FREDA

Sendai, Japan
2012

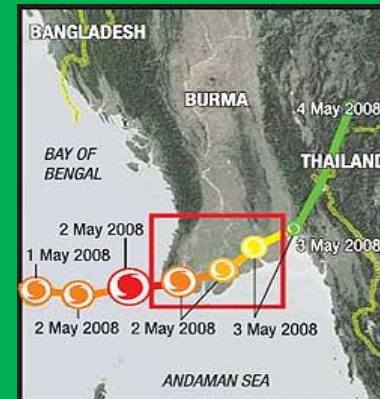
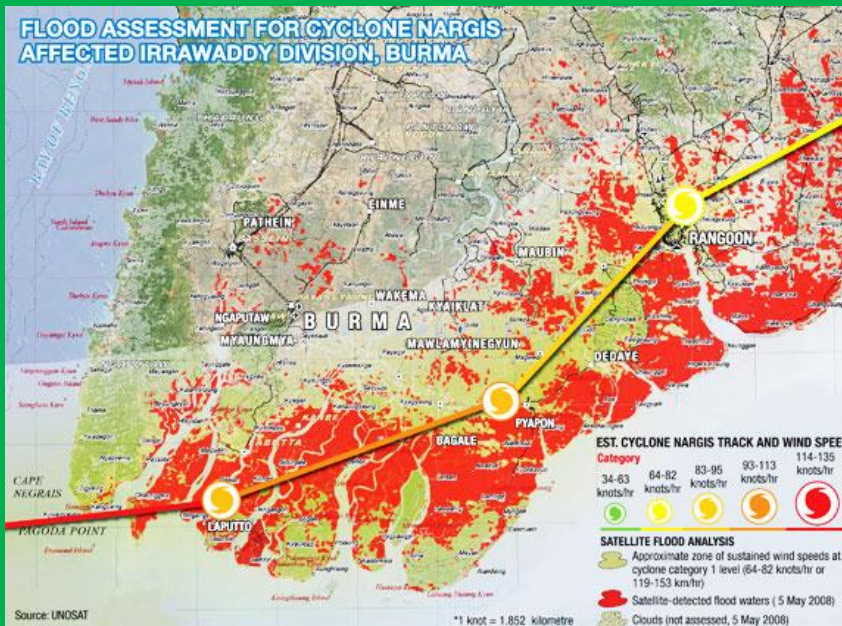
5th February

Disasters in Myanmar



- Exposed to multiple natural hazards
- > 2000 km coastal lines
- Urban fires 70%, floods 11%, storms 10% and other 9%
- Cyclone “Nargis” (2008)

Magnitude



Est. TOTAL FLOODED AREA (km²) PER TOWNSHIP

| Township | Division | Est. flood water* |
|----------------|-----------|-------------------|
| Laputto | Irrawaddy | 1,504.5 |
| Rangoon | Irrawaddy | 1,435.0 |
| Bagale | Irrawaddy | 1,202.0 |
| Dedaye | Irrawaddy | 599.5 |
| Ngaputaw | Irrawaddy | 514.6 |
| Pyapon | Irrawaddy | 509.6 |
| Mawlamyinegyun | Irrawaddy | 322.3 |
| Maubin | Irrawaddy | 280.3 |
| Kyaukiat | Irrawaddy | 190.5 |
| Myaungmya | Irrawaddy | 84.7 |
| Pathein | Irrawaddy | 78.8 |
| Wakema | Irrawaddy | 53.2 |
| Einme | Irrawaddy | 48.6 |

*Unit: km²

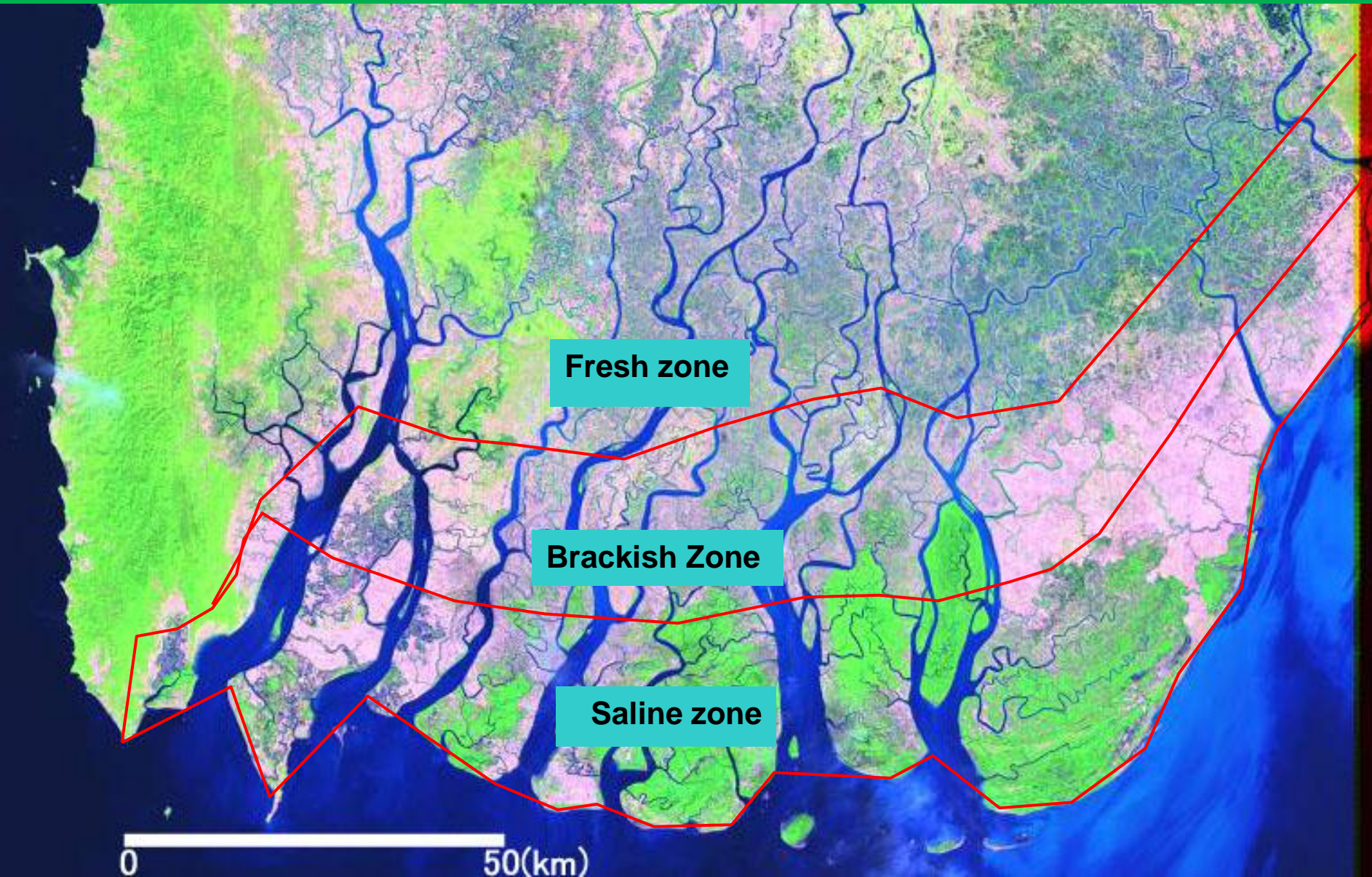
POSTgraphics

DEVASTATION

- ❖ 77,738 dead and 55,917 reported missing.
- ❖ 2.4 million people out of 4 million affected
- ❖ Over 25,000 ha of mangrove forests and plantations were destroyed



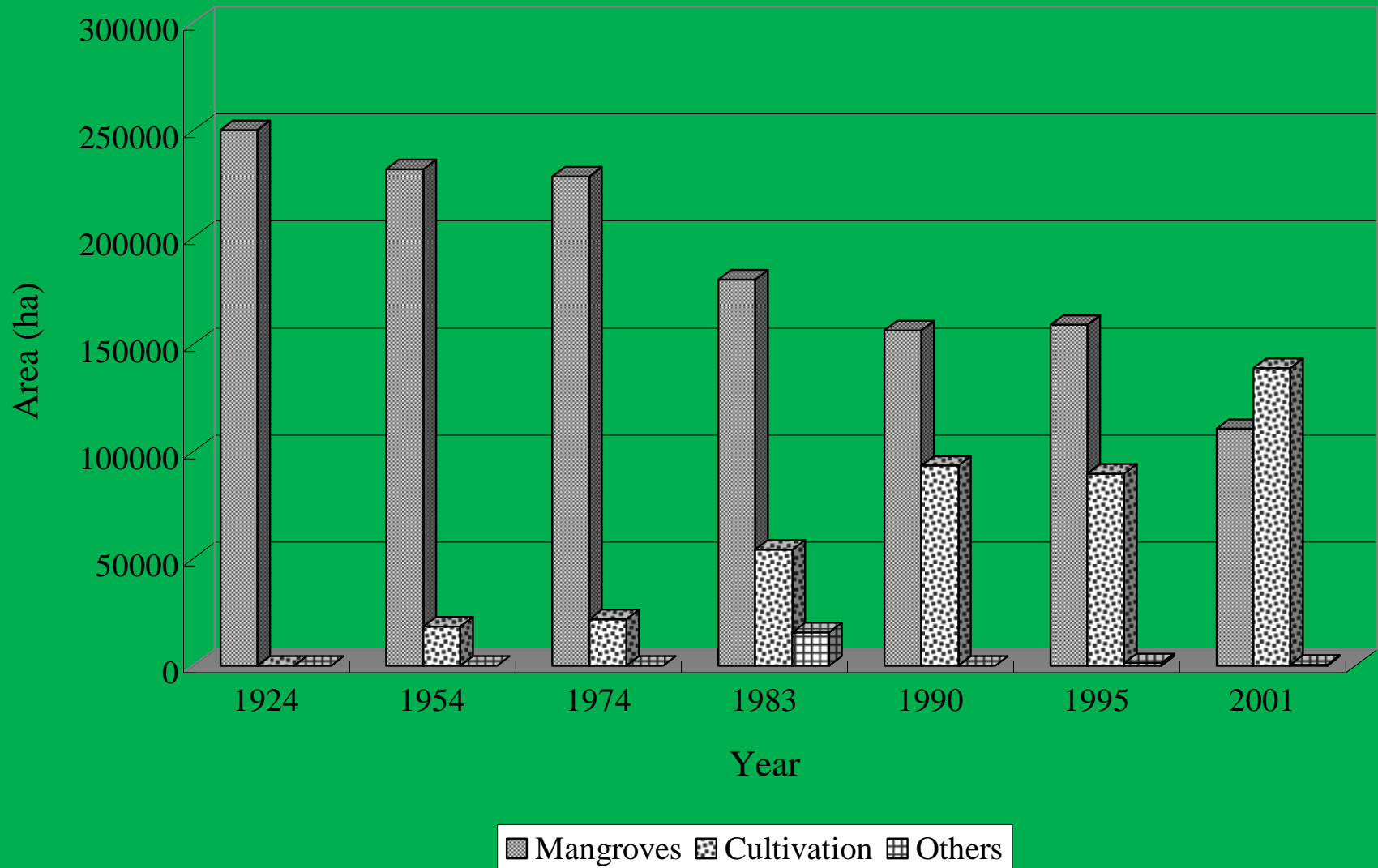
Illustration of salinity zonation in the Ayeyarwady delta



CLEAR MESSAGES

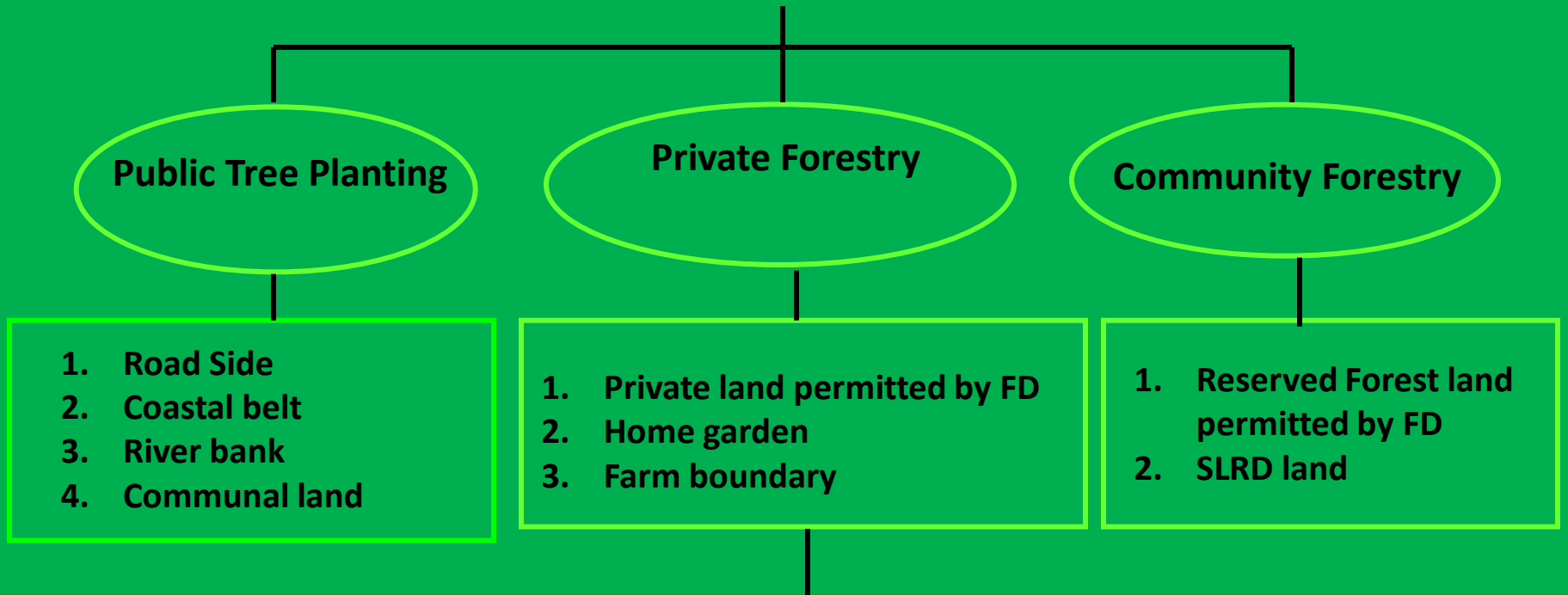
- The areas with less forests were more affected by Nargis.
- More demand for environmental services provided by the forests.
- More demand for stronger communities.

Change of mangrove areas in the Ayeyarwady Delta from 1924 to 2001



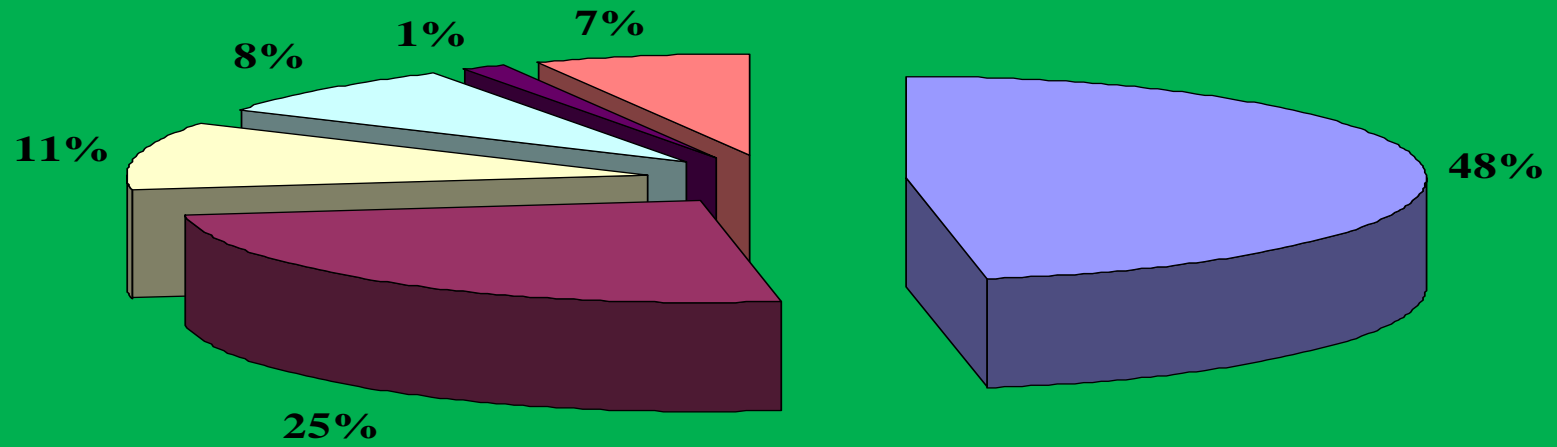
(Source: GIS section, Myanmar Forest Department, 2004)

Strategy for reforestation in the Ayeyarwady delta in post Nargis



To restore forests that support Livelihood and reduce Disaster risk in the Ayeyarwady delta

Reforestation programme in the Delta after cyclone Nargis



- | | | |
|-------------------------|----------------------|----------------------|
| Artificial regeneration | Natural regeneration | Private plantation |
| Community Forestry | Riverbank protection | Conservation forests |

Opportunities of Reforestation in Ayeyarwady Delta

- 30 years of land tenure right by Community Forestry

Instructions

- Knowledge of forest conservation and reforestation
- Generation of some income from community forests
- Initiative of Community Based Organizations
- Increase of People Participation in resource management

Challenges of Reforestation in the Ayeyarwady Delta

- Land use conflicts
- Lack of alternative energy source
- Lack of alternative income sources
- Limitation in availability of land for reforestation
- Mutual trust between community and implementation agencies
- Capacity Building for Community members and Staff of implementation agencies
- still a small scale and related technical knowhow
- Maintenance of established plantations

Recommendations for successful reforestation

- ❖ Change of Land Use policy
- ❖ Awareness raising
- ❖ Capacity Building for all levels
- ❖ Encouragement on evident base research
- ❖ Increase of coordination among relevant stakeholders
- ❖ Strengthening of Community Base Organizations
- ❖ Establishment of Public Private Partnership
- ❖ Policy Advocacy

THANK YOU

