

Blue Carbon Ecosystem and Peatlands

Organized by Wetlands International

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NFP for CBD/Ramsar Convention,

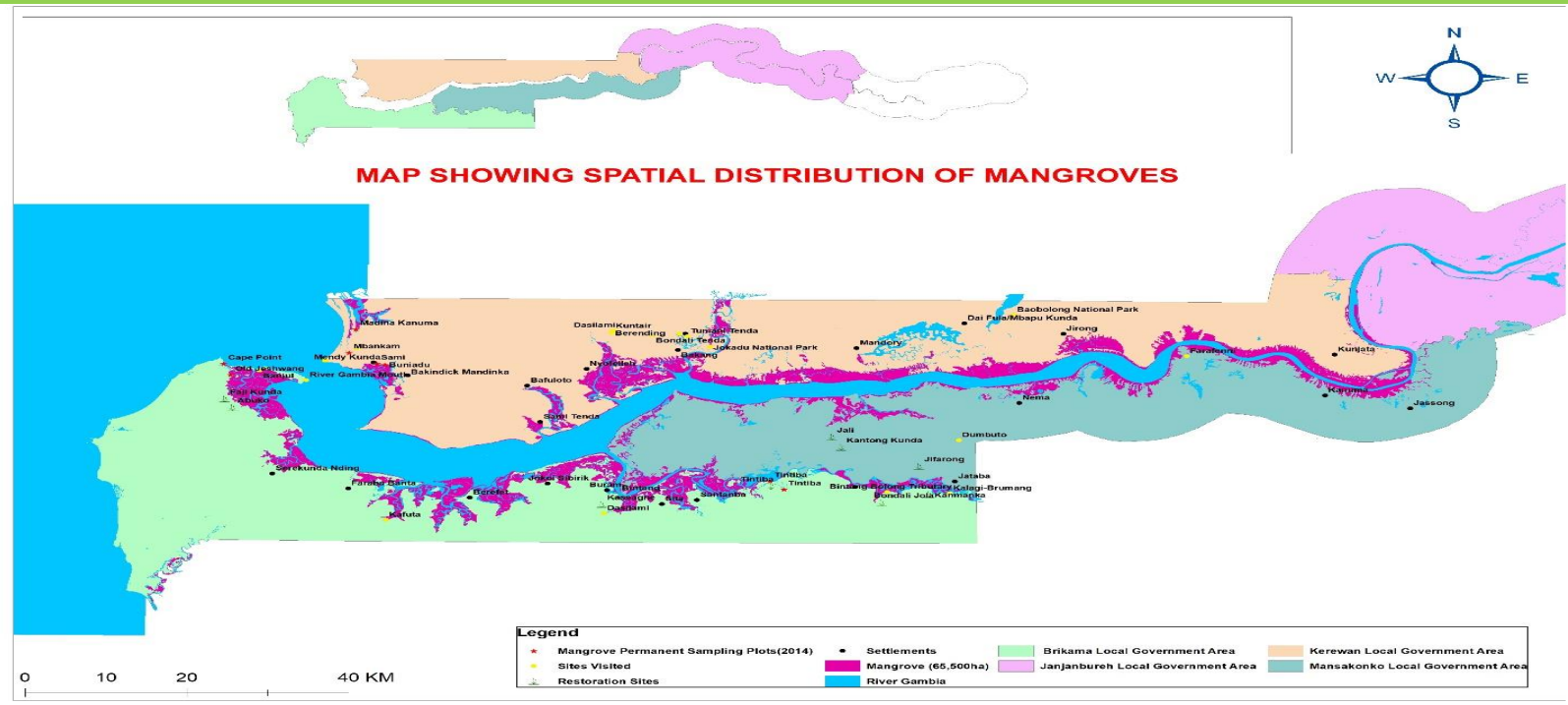
PoWPA and Bonn Challenge

WISE Fellow 2009, Brown University USA

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Status of Mangrove

- Species, Coverage and Distribution



Mangrove Protection Status

- 114,000ha
- Five administrative region
- Half of the country (River Gambia)
- 80% of MPA
- 14 out 23 MPA
- 8 MPA + 2 in the making
- 3 PA partially MPA
- 20% of the Biosphere (MPA)

DRIVER FORCES/FACTORS

- Growth rate/pop density
- - Migration
- - Consumption style/rate
- - Technology
- - Poverty

Climate change and its Impact on Mangrove

- **Sea Level Rise**
 - **Salinization/salt intrusion**
 - **Overflooding**
 - **Coastal Erosion**
 - **Invasive species**

Climate change and its Impact on Mangrove

- Extreme Temperature
 - - Forest fires
 - - Livestock mortality
 - - Wildlife mortality
 - - Human health implication

Climate change and its Impact on Mangrove

- Violent Storm
- - Affect crops
- - Settlement/disaster
- - Fishing
- - Affect forest stands

Population Pressure and Impact on Mangrove

- - Deforestation for fuel/construction create pressure



Population Pressure and Impact on Mangrove

▣ - Agriculture extensification



Pressure and Impact on Mangrove

▣ - Agriculture (Dykes and Dams)



Commercial logging



Coastal Erosion- NNP



Local Responses

Mangrove Planting



Oyster Farming



Bee Conservation



Energy Saving Cooking Stoves



Global/International Response



Carbon Market Value

- Restoration through mangrove planting
- Maintenance of the existing intact mangrove as a sink

Mangrove REDD+ Project

- Partnership
- Department of Parks and Wildlife Management
- Consortium of Local Environmental Organizations
- ORSTED Nature Based Solution, Denmark
- S2 Services, Cameroun

Gambia Mangrove REDD+ Project

□ Necessary Conservation Actions:

- expand existing protected areas and establish new ones
- Improve community livelihood and natural resource management
- Strengthen capacity of stakeholders and institutions
- Restoration of degraded mangrove forest landscape including coastal forest