



The Summit culminated with a planning workshop wherein the three groups (Group 1: Bulacan, Bataan, SBMA, Zambales and Masinloc; Group 2: Ilocos Norte, Ilocos Sur, La Union, Pangasinan and Bani; Group 3: NGAs, NGOs, and Academe) were asked to specify the issues and problems in mangrove management; the specific objectives that may respond to these; as well as the activities, resources needed, persons-in-charge and the proposed timeline for the activities. Below are the tables and the outline that summarizes these.

The recurring issues in mangrove management include the following: (1) the lack or inconsistency of data, (2) the lack or redundancy of laws and problems in its implementation and (3) the lack of awareness on the importance of mangroves on the ground. For the lack or inconsistency of data, a similar activity enumerated was the development of a comprehensive and central data bank that will consolidate existing, current and future information on mangroves. Capacity building of the managers and other technical efforts such as ground truthing and mapping of mangrove areas also need to be undertaken.

As for the lack or redundancy of laws and problems in its implementation, it was suggested for the agencies involved to develop close coordination. There is also a need to revisit existing laws and to refine these into clear-cut policies that may aid mangrove management. A national framework for mangrove management was also identified to address the issue of governance and implementation.

Lastly, even with the decades-long mangrove management in the country, it seems that there still seems to be a lack of awareness on the importance of mangroves on the ground. To address this, IEC campaigns and the strengthening of public participation through volunteer activities were suggested.

All the activities identified and discussed below are to be implemented within 6 months to 2 years from the date of the summit.



Workshop Output: Group 1 (Bulacan, Bataan, SBMA, Zambales, Masinloc)

Issues/Problems	Objectives	Activities	Resources Needed	Person(s)-in-charge	Timeline
1. Lack of Comprehensive Mangrove Management and Protection Plan					
a. Incomplete baseline data (mangrove species, old growth, etc.)	Develop comprehensive baseline data	<ul style="list-style-type: none"> Personnel selection Capacity building Mapping of area Field validation Formulation of survey form Conduct survey Consolidation of collected data Encoding 	<ul style="list-style-type: none"> Personnel Funds Trainings/capacity building Office equipment 	GOCC/ LGU (PGU, MGU)	2 years
b. Conflict on boundary delineation	Establish clear boundaries	<ul style="list-style-type: none"> Coordinate with responsible offices (NAMRIA, DPWH, etc.) 	<ul style="list-style-type: none"> Personnel Office equipment 	PPDO, MPDO, PDO	1 year
2. Weak law enforcement/ implementation of existing laws/rules/ regulations	Strengthen Law Enforcement Team/ Implement All Pertinent Laws	<ul style="list-style-type: none"> Capability building Procurement of equipment (patrol boats, communication, etc.) Formulation of clear-cut policies/ ordinances/Executive Orders 	<ul style="list-style-type: none"> Hire consultant/trainors Budget 	PNP, PCG, BFAR, NGOs, DENR	6 months
3. Lack of awareness on mangrove ecosystem	Increase awareness on importance of mangroves	<ul style="list-style-type: none"> IEC (utilize print, radio and tv) Hold regular programs aimed on enticing public participation in the maintenance of mangrove areas 	<ul style="list-style-type: none"> Budget/funds Materials 	Public Affairs Office, Local/national media, Public Relations Department	6 months
4. Declining Mangrove Cover due to:					
a. Encroachment	Relocate informal settlers/remove physical structures	<ul style="list-style-type: none"> Identification of suitable relocation site Formulation of plans and programs for sustainable livelihood of relocatees Demolition of illegally erected structures 	<ul style="list-style-type: none"> Personnel Budget Ordinance/policy formation 	DPWH, PPDO, MPDC, PDO, Legal Office	2 years
b. Reclamation	Ensure that all provisions regarding reclamation is followed	<ul style="list-style-type: none"> Info Dissemination Strict Implementation Monitoring/ Reporting 	<ul style="list-style-type: none"> Personnel Budget 	-	
c. Conversion	Revert all AUU into mangrove areas	<ul style="list-style-type: none"> Identify AUUs Obtain complete legal documentary requirements File Appropriate Legal Action for Reversion 	<ul style="list-style-type: none"> Personnel Budget Records 	Legal Office, Provincial Agriculture Office, MAO, BFAR	2 years
d. Solid waste management	Implement RA9003	<ul style="list-style-type: none"> IEC MRF/ Sanitary Landfill 	<ul style="list-style-type: none"> Budget Personnel 	PSWMB, PGSO, MGSO, Public Affairs Office	1 year
5. Lack of national framework for mangrove initiative	Develop a national mangrove monitoring/ reporting framework	<ul style="list-style-type: none"> Workshop/training Establish a social network Group Establish an efficient/effective system of reporting Cross Visit Organize a mangrove conservation society 	<ul style="list-style-type: none"> Budget Personnel Consultant 	all	2 years
6. Lack of direct economic values for mangrove ecosystem goods and services	Develop the Blue Carbon accounting	<ul style="list-style-type: none"> Training on blue carbon Establish guidelines and standards 	<ul style="list-style-type: none"> Budget Personnel Consultant 	all	2 years
	Conduct economic valuation study	<ul style="list-style-type: none"> Training Survey Analysis Dissemination 	<ul style="list-style-type: none"> Budget Personnel Consultant 	all	2 years



Workshop Output: Group 2 (Ilocos Norte, Ilocos Sur, La Union, Pangasinan, Bani)

Issues/Problems	Objectives	Activities	Resources Needed	Agencies-in-charge	Timeline
Technical					
Data Gap	To establish accurate and reliable data bank	<ul style="list-style-type: none"> Field validation and ground truthing (PRA) Conduct consultation/dialogue Identification/potential reforestation areas and mangrove stands. 	<ul style="list-style-type: none"> Budget GPS, GIS training 	DENR, BFAR, LGUs, Academe, NGOs	2 years
Lack of technical know-how: a. Mangrove propagation b. Monitoring and assessment using technical tool c. Pest and diseases control management	To capacitate concern LGUs/stakeholders	<ul style="list-style-type: none"> Skills Hands-On training and exposures trips 	<ul style="list-style-type: none"> Budget Training supplies/ IEC materials/ film showing 	DENR, BFAR, LGUs, Academe, NGOs	2 years
Governance					
Overlapping implementation of mangrove program from different agencies (NGOs, NGAs-BFAR, DENR, Academe and LGUs)	To establish harmonious/ systematic program implementation	<ul style="list-style-type: none"> Close coordination among agencies concern 	<ul style="list-style-type: none"> Budget 	DENR, BFAR, LGUs, Academe, NGOs	2 years
Reversion of unproductive FLA to mangrove state		<ul style="list-style-type: none"> Organize MPA network 	<ul style="list-style-type: none"> Budget 	DENR, BFAR, LGUs, Academe, NGOs	2 years
Social					
Lukewarm attitude on the benefits/Illegal cutting of mangroves	To disseminate the importance of mangrove to the community	<ul style="list-style-type: none"> Massive IEC, FGD Mangrove Reforestation Adopt a mangrove project Establishment of mangrove nursery 	<ul style="list-style-type: none"> Budget Training supplies/IEC materials/Media Advertisement 	DENR, BFAR, LGUs, Academe, NGOs	2 years

Workshop Output: Group 3 (NGAs, NGOs and Academe)

1. Mapping

- Standardized methodology in mapping mangroves
 - * Streamline mangrove classification through satellite images
 - * Complimented by field validation

2. Data Availability and Central Management

- Where to plant? Is data accessible?
- No central repository
 - * No consolidation
 - * Plans only (for all coastal ecosystems)
 - * Should be a permanent office (plantilla)
- Data management and consolidation per region, for now

3. Incentive Rates for Reforestation

- Different rates of incentives
 - * BFAR through SUCs: P2.5-/propagule planted, +P3.50 if __m height is reached
 - * DENR: 23, 000/ha [ICRMP]; NGP: 14000/ha
 - * Standardized rate
 - * Implementation rules

4. Mangroves in A/D lands

- Related to forestland Cadastre
- Major challenge: partnership with stakeholders
 - * Case to case
 - Gonzaga, private owners transferred management to LGU
 - Buguey, Sta. Ana etc. – conflicts with land owners

5. Bantigue

- Policy enforcement to address issue on use of Bantigue Bonsai plant
 - * Improvement/ additional provision
 - * “Do what you preach”
 - * LGU ordinance on harvesting/possession/selling of Bantigue

6. Mangrove Bill

- Initially proposed as separate bill from OCM Bill
- Then moved to combined with ICM Bill
- Latest, decided to have it separate

7. Mangrove Bill (2)

- National mangrove conservation and Rehabilitation Act: 460 (Rep. Guanlao) and 3525 (Rep. Reyes)
- Almost have the same provision on mangrove on mangrove protection zone and production
- National Coastal Greenbelt Bill (Sen. Aquino)

8. Existing Laws

- Amendments
- Totally banning of mangroves
 - * Case of nipa

Time Frame

2014	2015	2016
Mangroves in A/D Lands	Mapping	Central Data Repository and Management
	Standardization of Incentives	Mangrove Bill
	Strict Implementation on Harvesting of Bantigue	Amendments on Existing Bill

