

# "STAKEHOLDERS PARTICIPATION IN IWRM IN LAGUNA LAKE BASIN"

- The LLDA Experience -



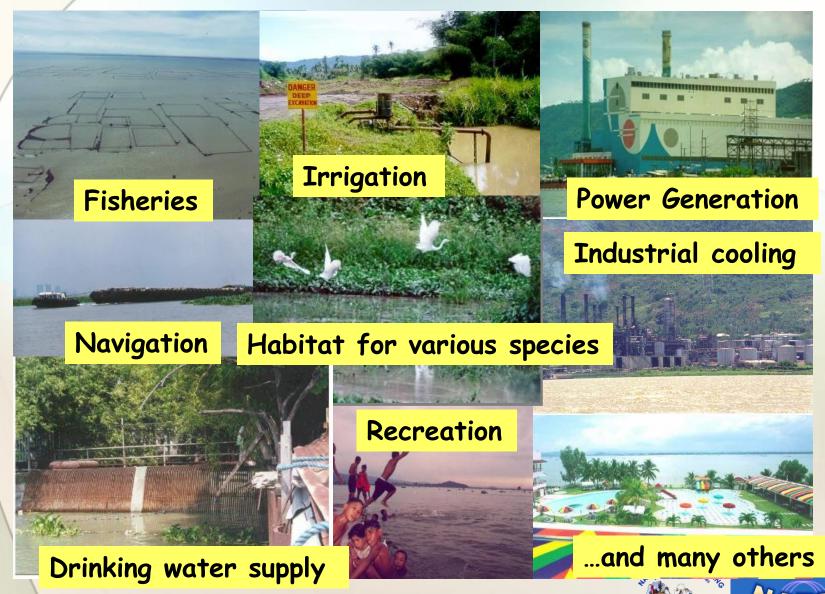
#### **OUTLINE OF PRESENTATION**

- A. Background
- B. River Rehabilitation Program
  - i. Organization of River Councils (RCs) and Environmental Army (EAs)
  - ii. Adopt-A-River Project
  - iii. National Greening Program (NGP)
- C. FARMC
- D. ECO-INDEX
- E. Knife Fish Project





## **Existing Water Uses**





### **Current Issues and Concerns**



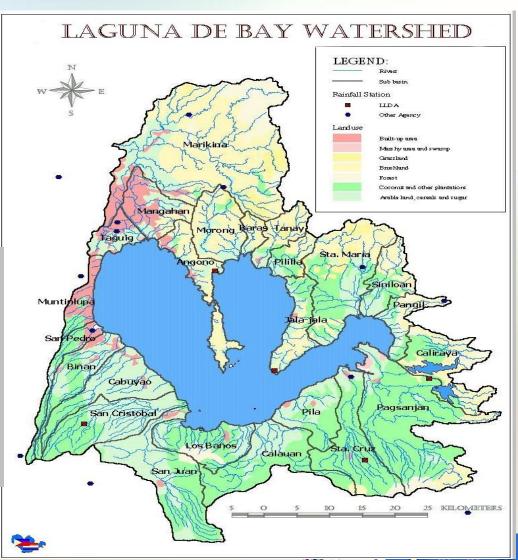




#### **RIVER REHABILITATION PROGRAM**

# Basin Approach to Water Resources Management

- Geographic Focus is the watershed
- Participation and partnership
- Strong science and sound management







# Organization of River Councils and Environmental Army

- To ensure that the restoration effort is sustained
- The River Councils are the mechanisms that ensure stakeholder participation and community involvement
- In support to RCs, LLDA issued Board Resolution No.
   114, series of 1998, Institutionalizing the River Rehabilitation Protection Councils/Foundations for all of the River Basins in the LDB Region
- In support to EAs, LLDA issued Board Resolution No. 325, series of 2007, recognizing the EA Foundation as official partner of LLDA in River Rehabilitation Program





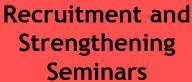
#### **Functions of RCs/EAs**

- Formulate environmentally sound Micro-watershed Plans (formulated in a participative manner in order to develop a sense of ownership for the activities identified in the plan)
- Conduct of Information, Education and Communications Campaign (ultimately to engage stakeholders to support the restoration effort)
- Develop a Sustainable Funding Mechanism (for the success of any river restoration effort will ultimately depend on a sound financial foundation)



#### **Activities of RCs/EAs**









**Tree Planting** 

# Adopt – A – River Project

- Documentation and Characterization of the River and its Watershed
- Stakeholder Mapping and Analyis
- Participative Environmental Action Planning
- Identification of Priority Interventions
- Signing of Memorandum of Agreement
- Implementation of the Action Plan





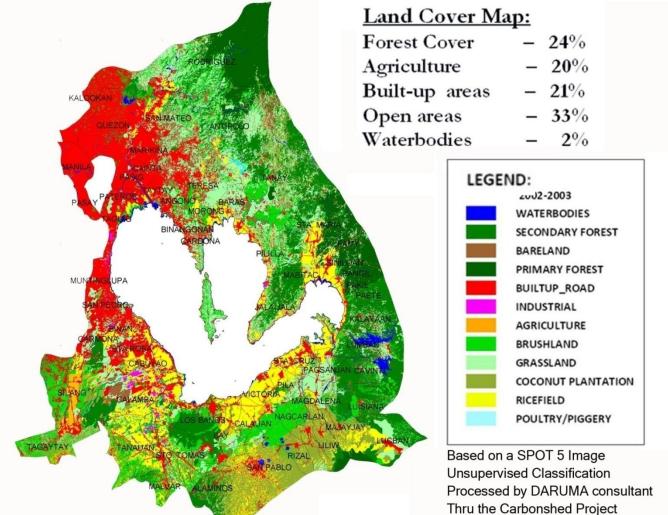
## National Greening Program (NGP)

- Executive Order 26 dated February 24, 2011, aims to plant 1.5 billion seedlings in 1.5 million hectares of public lands in a span of five years
- EO 26 aims to reduce poverty, promote food security, environmental stability and biodiversity
- Mobilize National Government Agencies, government employees, students and other stakeholders
- The LLDA Board of Directors committed One Million seedlings within the Laguna de Bay Region





## One Million Trees within the LDB Region







# Tree Planting, Bamboo Training and MOA Signing





# Fisheries and Aquatic Resources Management Councils (FARMCs)

- Republic Act 8550 also known as "The Philippine Fisheries Code of 1996" with the Bureau of Fisheries and Aquatic Resources (BFAR) of the Department of Agriculture as the lead agency
- MOA between LLDA and BFAR, for LLDA to take the lead in the organization of FARMCs specifically within the Laguna de Bay Region
- LLDA Board Resolution No. 137, Series of June, 2000 was issued for the organization of FARMCs

#### **Activities of FARMCs**







# Eco-Industrial Exchange Network (Eco-Index), Inc.

#### **VISION:**

A dynamic leader in industrial ecology and economic excellence strengthening the network among stakeholders in CALABARZON Region

#### **MISSION:**

An organization that is capable of implementing environmental initiatives and resolving issues in the most economical and efficient ways

#### **Eco-Index Goals**

 Promote linkage among Industrial Estates (IEs) and other sectors in the CALABARZON area

 Capability building of its member Industrial Estates with each locators therein

 Produce a publication containing e-Database on wastegenerated by each locator





#### **Eco-Index Activities**

#### Planning Workshop cum Team Building







#### **Eco-Index Activities**

Exhibitors during the Eco-index Resource Recovery Event





#### **Eco-Index Activities**



**Tree Planting Activities** 



Seminars/Pollution Control Officers Training





# **Knife Fish Project**

The Clown Knife Fish (Chitala sp.)















# **Knife Fish Project**

#### Impacts and Threats

- Alarming impact on indigenous species (considering that the knife fish is a carnivorous species)
- Economic operation of augaculture in the lake

#### **Economic Valuation**

- 1 kilo Knife fish consume 7 kilos of fish
- Estimated cost is P 1,050.00 (BFAR 2013)





#### What has been done?

Creation of the Inter-Agency **Technical Working Group** on the Containment of Knife Fish Infestation in Laguna de Bay



National Forum and MOA Signing on the Containment of Knife Fish Infestation in Laguna de Bai held on June 14, 2013 at Taguig City University, Upper Bicutan, Taguig City









# **Knife Fish Project**

- Creation of the National Knife fish Research and Development Committee
- IEC Component (distribution of IEC Materials and a video on Knife fish is ready for mass production)
- Survey of 100 fisherfolks and Households on their knowledge and practices about knife fish
- Creation of livelihood opportunities Commmittee
- MOA Signing with the Lakeshore Municipalities within the LDB Region





# Livelihood Project on Knife Fish

**Project Components:** 

Cash For Work

LLDA allocated Php 2.1 Million intended for 21 lakeshore municipalities within the LDB Region

Establishment of mini processing plants for the utilization of knife fish into Value Added Products





## **Summary/Lessons Learned**

- Community participation and involvement in all aspects in project planning and implementation is crucial to the success of the project
- Commitment of the Local Government Units insofar as implementation of various laws and regulations approved by the LLDA Board and by their respective approved Ordinances
- Active involvement of different National Agencies and industries as partners of LLDA towards the protection and rehabilitation of the Lake and its tributaries
- Sustained IEM Campaigns to a wider number of people to solicit their participation and involvement in various rehabilitation efforts
- Continuous mentoring and provision of trainings/seminars to different organizations involved in various river rehabiliation activities

# Thank you!!!



