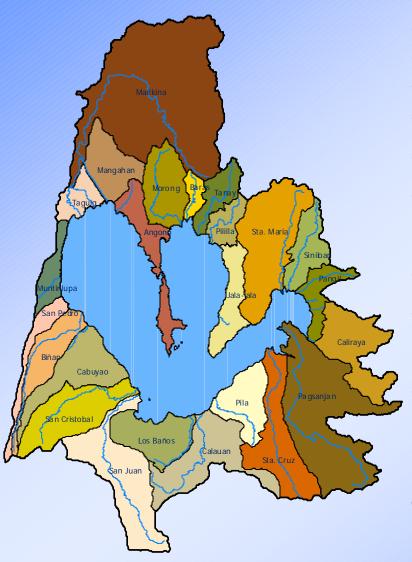


#### Laguna de Bay Features



Average Depth: ~2.5 m.

Average Volume: 2.25 MCM

Shoreline: 285 km.

Lake surface area: 900 km²

Watershed area: ~2920 km²

(24 sub-basins including many tributaries
 + a floodway)

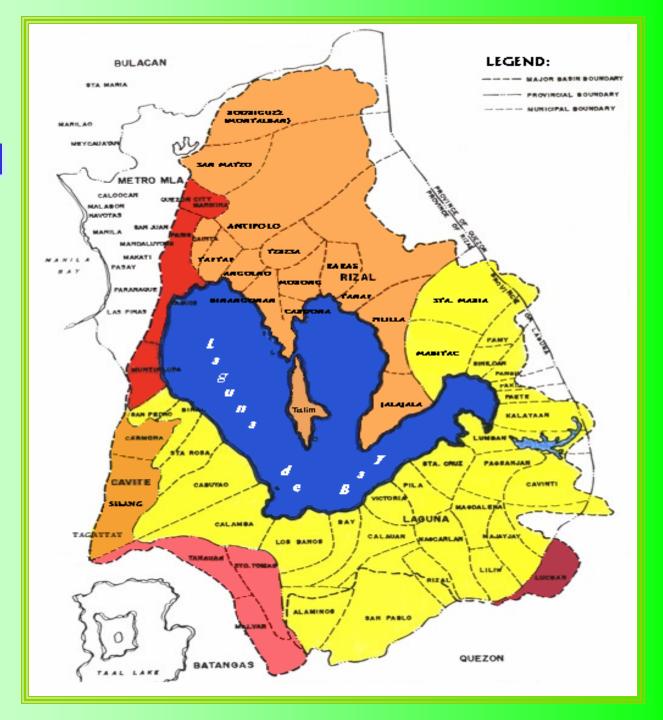
6 provinces, 12 cities, 49 municipalities

 Of which 27 are lakeshore towns and 2 are lakeshore cities

 One outlet: Napindan Channel – Pasig River (serves as inlet of saline water during Pasig River backflow)

The Largest Lake in the Philippines and one of the largest in Southeast Asia

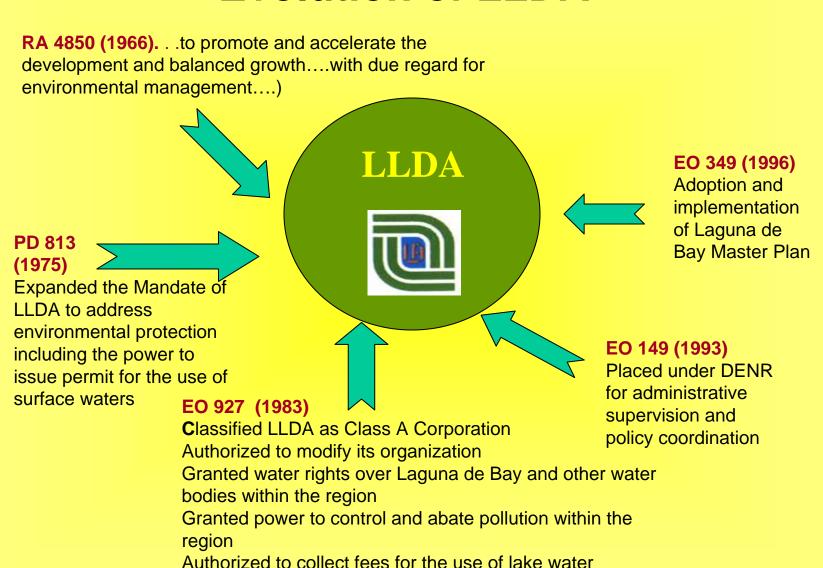
### **Geographical Mandate**





**The Laguna Lake Development Authority** 

#### **Evolution of LLDA**

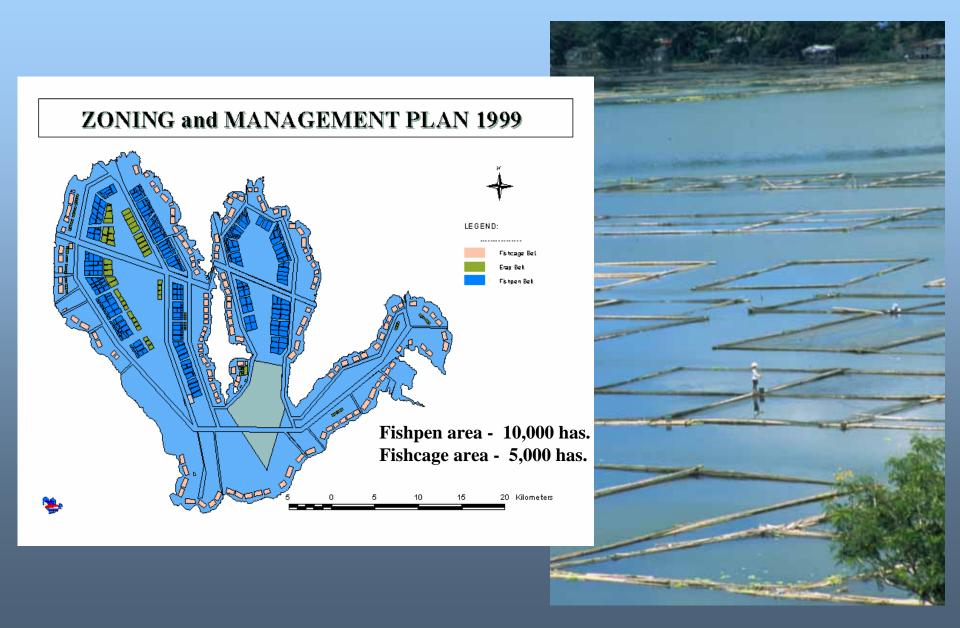


#### **CHALLENGES**

- Water Quality of Surface waters
  - Expansion of Development Activities
  - Inadequate Regulation and Enforcement
  - Lack of Strength as an IWRM agency

# STRUCTURAL & NON-STRUCTURAL COUNTERMEASURES

#### Implementation of the ZOMAP



# Implementation of the Environmental User Fee System (EUFS)



A pioneer market-based instrument for pollution control and abatement in the **Philippines** 

### Implementation of the Shoreland Management Plan

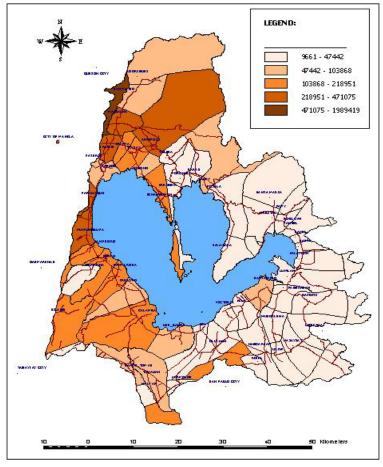
Shorelands- a strip of land along the perimeters of Laguna de Bay (approximately 14,000 hectares)



#### Rapid Urbanization and Industrialization



#### 1995 POPULATION MAP



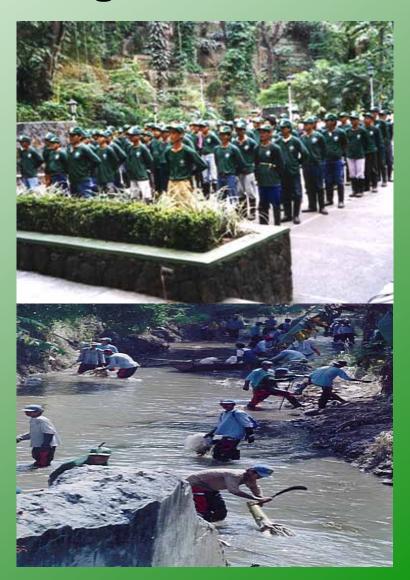
### Implementation of the River Rehabilitation Program

A model in multisectoral/multi-agency river basin approach

#### With the RRP:

Fully intensified river rehabilitation efforts by covering all 21 major tributary river systems

Formed the first ever Environmental Army in the world with *400* members, *39* of whom are women



# RE-ENGINEERING OF LLDA

#### **Re-engineering Objectives**

**Restructure** LLDA

Streamline LLDA's functions

Enhance LLDA's ability to manage sustainable development of Laguna Lake

Build political and social acceptability

# Strategic Objectives for the Re-engineered LLDA

- 1. Ecosystem based planning and management
- 2. Participatory and partnership approach in planning and implementation
- 3. Broadening market based instruments
- 4. Restoring the water quality of the Lake
- 5. Developing and sharing knowledge



#### **Component 1**

Co-Managed Investments for Watershed Development

Laguna de Bay Institutional Strengthening and Community **Participation** (LISCOP) Project Component 2

Improving Regulatory
Instruments/Approaches
and Strengthening of
Policy/Planning



## LISCOP CONTRIBUTIONS TO INSTITUTIONALIZING RE-ENGINEERED LLDA

- Deepening co-management for watershed development
  - Micro-watershed improvement projects
  - Capacity building of LGUs, RCs, communities
- Financing environment protection and social development projects
  - Environmental Trust Fund
  - Laguna de Bay Development Corporation (LBDC)

#### **Future LLDA-NARBO Collaborations**

- Development of a mechanism to encourage participation of stakeholders and the local government units within the region
- Institutionalization of conflict resolution mechanism that persistently confronts LLDA
- Formulation and implementation of programs that would enhance the environment of Laguna de Bay Region



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