Accounting for Integrated Ecosystem Management (IEM)

Planning and Training Workshop on Wealth Accounting and Valuation of Ecosystem Services

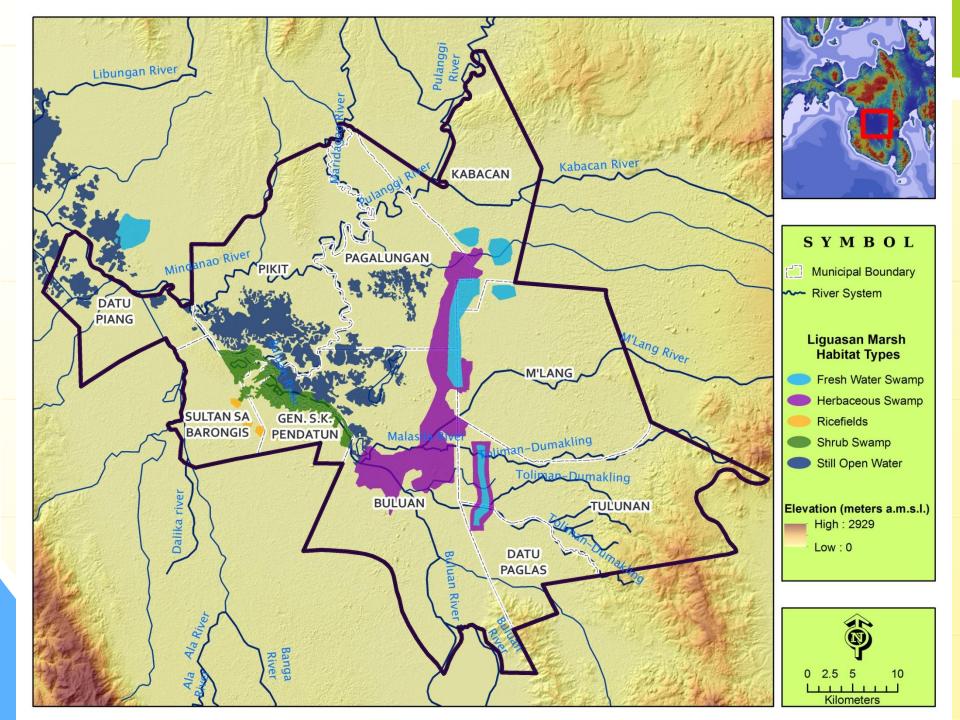
September 6, 2013

Gem B. Castillo

LLDA Achieved Goals by 2020

The lake basin serves the region for:

- drinking water
- food and fisheries
- renewable energy
- transport
- flood control
- beneficial land development, including tourism and housing projects



Content

- Issues and Concerns in WAVES
- Why Accounting for Integrated Ecosystem Management
- Processes for IEM Accounting
- Case of Laguna Lake Development Authority
- Recommendations
- Ways Forward

Issues and Concerns

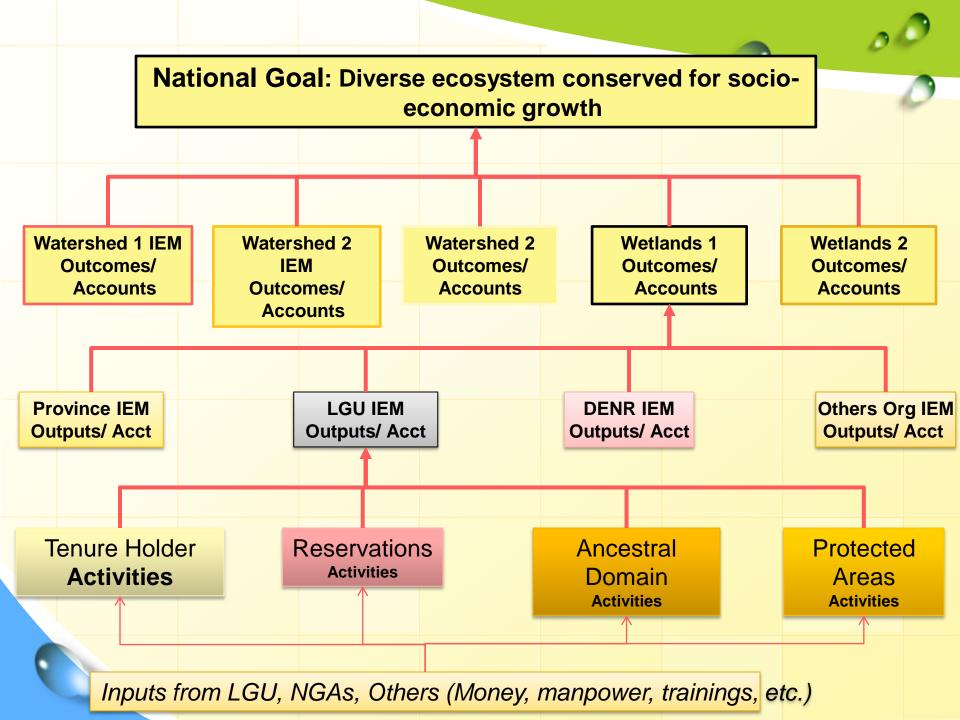
- Level of aggregation/disaggregation
 - National/Regional/Provincial/Municipal
 - Extent of data capture
 - Household
 - Community/Barangay
 - Firms
- Boundary of the accounts
- Who will develop the accounts?
- What account framework to adopt?
- The frequency of data collection, steps involved type of data, number and type of sampling to employ will depend on the analysis required

Why IEM Accounting?

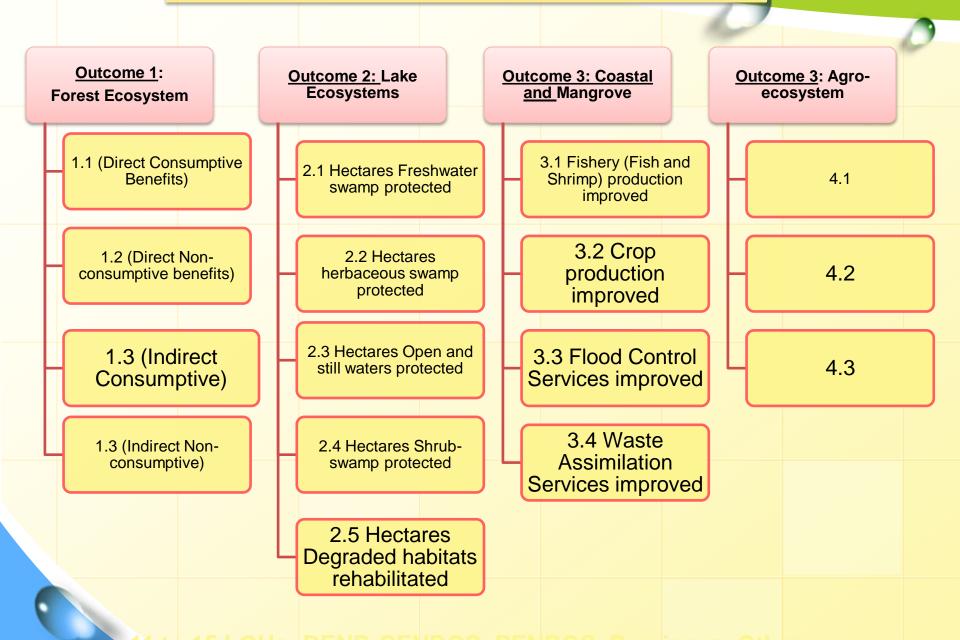
- Decision-making at the watershed level needs synergy of different sectors and sectoral objectives
- Need for common goals and objectives for management of watershed or ecosystem
- Links/Impacts of upstream interventions on downstream economic activities
- Ecosystems decision-making rather than sector decisions and actions

Processes of IEM Accounting

- Account based on expected goals, desired outcomes and outputs
- Clearly define accountable entities for data collection, monitoring and evaluation
- Agree on measurable indicators and coverage of the accounts
- Develop the account structures based on agreed upon accounting framework



Ecosystem Outcomes/ Accounts



LLDA Accounting Issues in Watersheds

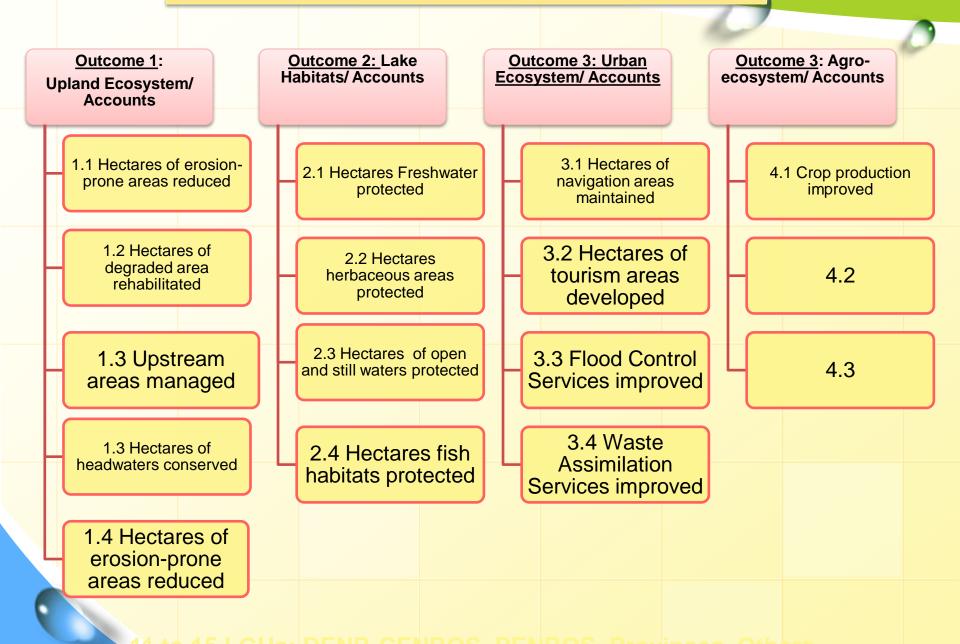
- water availability and regulation,
- soil conservation
- silt control
- flood control
- Pollution control

LLDA Achieved Goals by 2020

The lake basin serves the region for:

- drinking water
- food and fisheries
- renewable energy
- transport
- flood control
- beneficial land development, including tourism and housing projects

Recommendation for LLDA Outcomes/ Accounts



Way Forwad

- Identify entities (agencies, LGUs, etc) accountable
- Spatial accounts and entities accountable
- Non-negotiable areas
 - Protected Areas
 - Protection forests and forest lands
 - Areas greater than 50% slope, greater than 1000 meters above sea, mangroves;
 - Designated as head waters of watersheds and critical habitats;
 - Areas with closed & open natural forests
 - Conservation areas managed by local communities and Indigenous Peoples and
 - Ordinance-supported local watersheds and natural attractions
 - High hazard zones
 - Prime agricultural lands
 - Disallowed investments, land and resource uses