Compensation for Ecosystem Service Value Improvement (CESVI)

28 November 2018







PHILIPPINE BUSINESS FOR THE ENVIRONMENT

Business for Sustainable Development (BSD)

Bonar Laureto













































































































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CONTRIBUTION TO

ACHIEVEMENT OF SDGs

Creating systems transformation in key development areas



Solid Waste Management Materials Exchange Program Partnership with PARMS

MOBILITY SOLUTIONS

First and Last Mile Telecommuting Solutions Sustainable Mobility Project

AGRICULTURE & ECOSYSTEMS

Farmers-Market-Finance Linkage Carbon Sequestration Investment Ecosystem-based Adaptation

STRATEGY FRAMEWORK







Contribution of Ecosystems in the Philippines:

- Watersheds 81.56 km3 of water for drinking, agriculture, and industry in 2009.
- The forestland (15.8 million ha) 1.1 million m3 of logs and fuelwood in 2016.
- Philippine waters world's richest ecosystems. Corals coral reefs at least USD 1.064 billion to the economy in 2005 (1 km2 = net revenues of USD 29,000 to USD 113,000 World Bank).
- Mangroves at least USD 83 million per year.
- Our Fisheries is one of the largest fish producers in the world commercial (36%), municipal (30%), and aquaculture fisheries (24%) of the total annual fisheries globally







Our Challenge

- Ecosystems Value is externalized
- PES remain voluntary
 - methodologies for remain inconsistent
 - expenditure for ecosystem not guaranteed.
 - Freeloaders abound
- Paying for ecosystem services is a disadvantage in the competition landscape







How can we shape the market to benefit those who invest in ecosystem protection and restoration?





Mechanism:

- (1) reduce, if not eliminate, freeloaders; all who benefits, pays
- (2) Returns for investment in ecosystem restoration and protection
- (3) Science-based, Results-based compensation

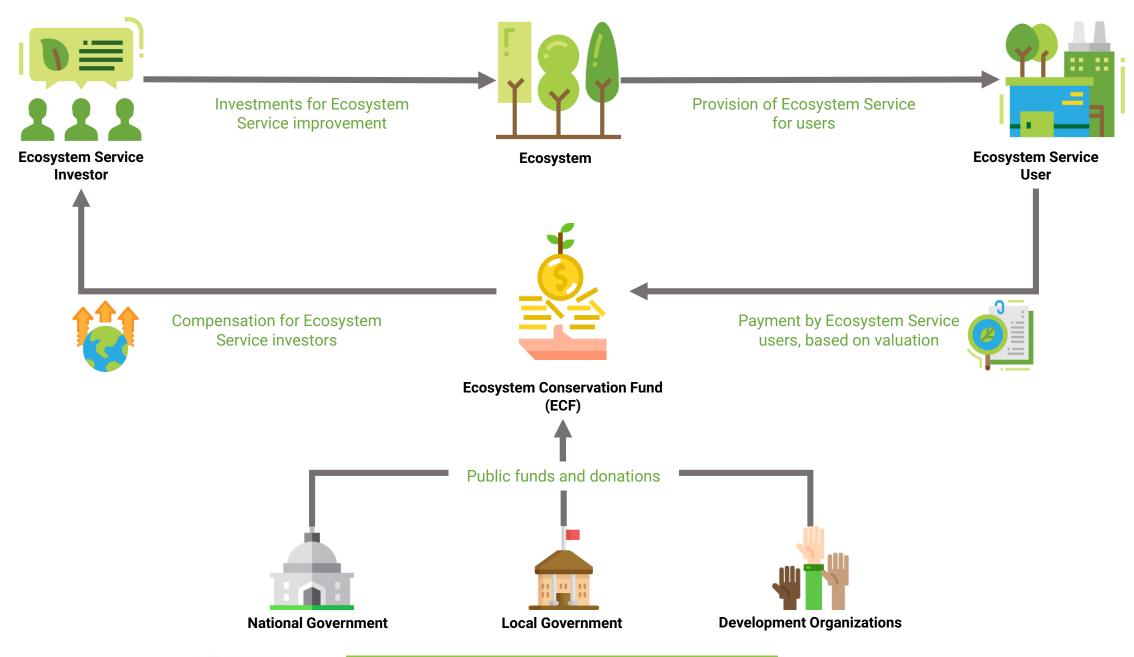




Proposed Mechanism













Precedence?

ER 1-94

As amended by Department Circular 2000-03-003





ER 1-94's policy objectives include:

ENERGY REGULATION NO. 1-94

RULES AND REGULATIONS IMPLEMENTING SECTION 5 (i) OF REPUBLIC ACT NO. 7638, OTHERWISE KNOWN AS THE "DEPARTMENT OF ENERGY ACT OF 1992"

SECTION 1. Title. - Pursuant to Section 5 (i) of Republic Act No. 7638, otherwise known as the "Department of Energy Act of 1992," which provides that the Department shall "devise ways and means of giving direct benefits to the province, city, or municipality, especially the community and people affected, and equitable preferential benefit to the region that hosts the energy resource and/or the energy-generating facility: Provided, however, That the other provinces, cities, municipalities, or regions shall not be deprived of their energy requirements," the Department of Energy hereby adopts and promulgates the following rules and regulations.

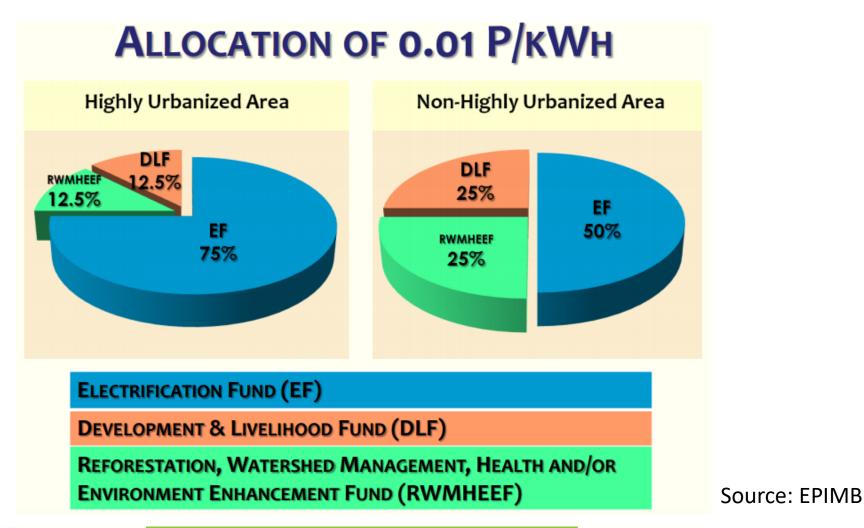
SECTION 2. Policy Objectives. -

- affected with public interest; and
- c) To promote harmony and cooperation among host LGUs, the community and people affected, the energy resource developers or power producers, and the appropriate agencies of the national government whereby the community and people affected and the host LGUs are provided with the benefits under a coordinated and consultative or participative process while the power producers or energy resources developers are accorded community support and legal protection by the host LGUs.

SECTION 3. Scope of Application. – These rules and regulations shall apply to energy resource development projects and energy.



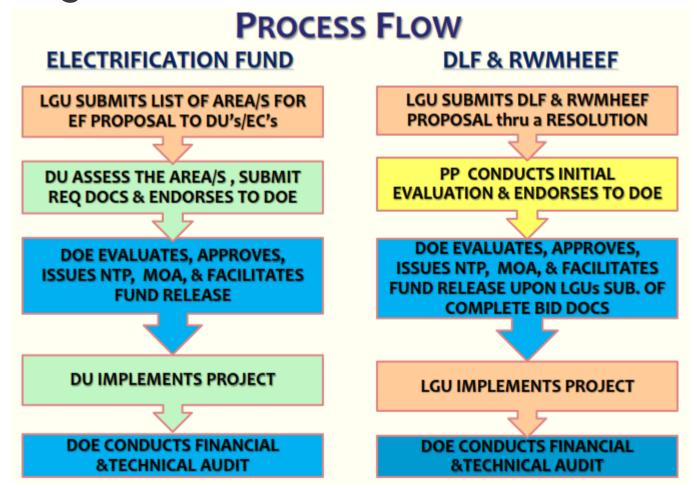
The allocation of funds is split for EF, DLF, and RWMHEEF:







The process flow for the project implementation is the following:

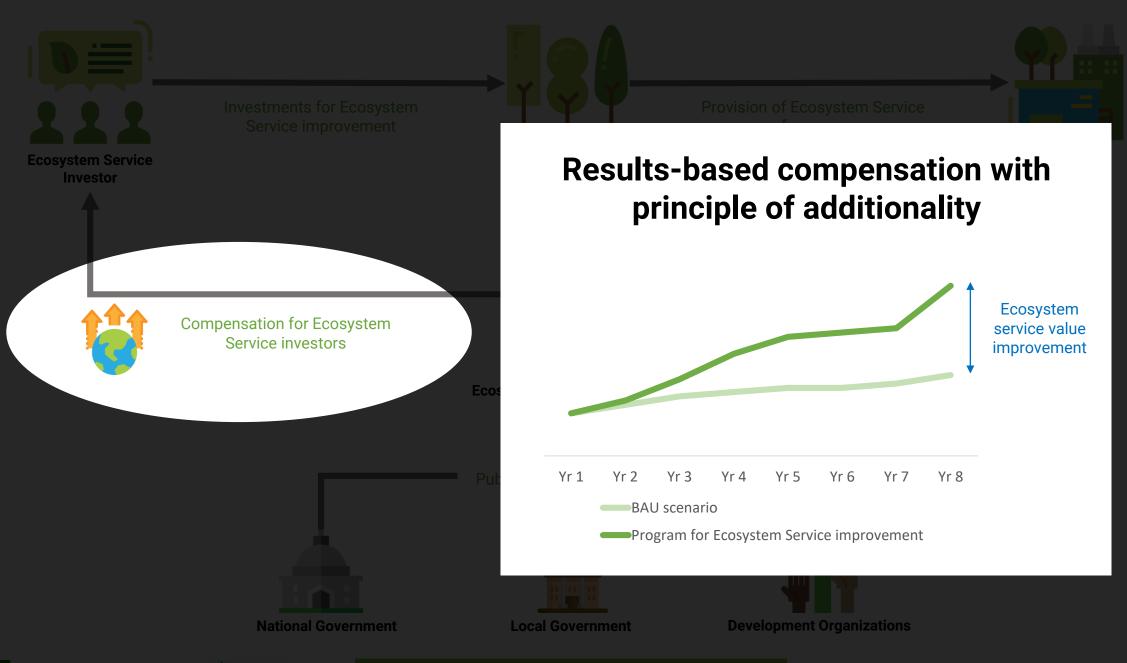


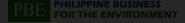


Ecosystem Valuation?





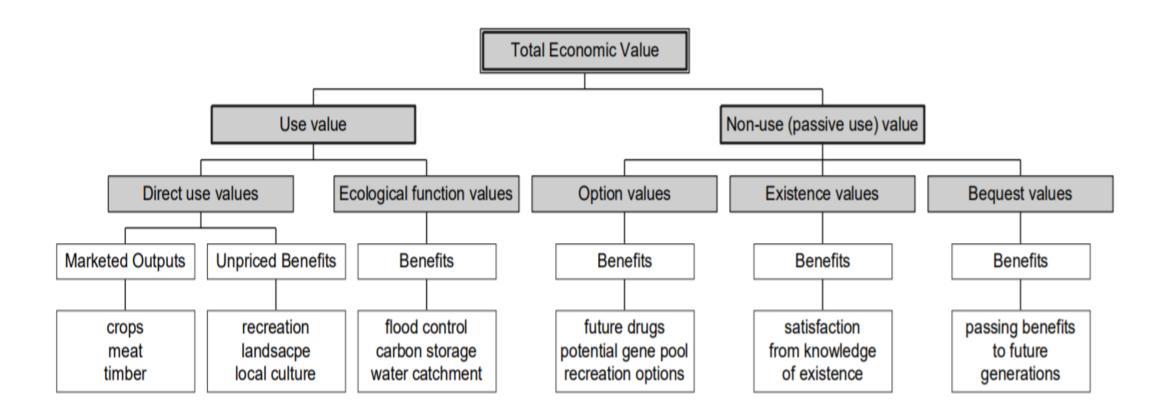








Total Economic Value (TEV)

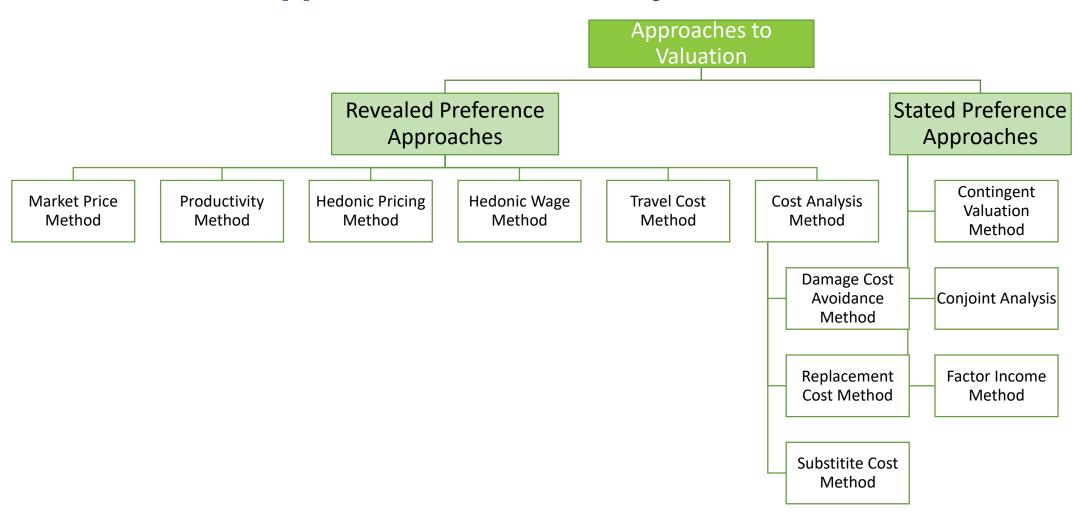


Source: Christie, Mike. "Valuing Ecosystem Services" presentation. 2015.





Approaches to Monetary Valuation

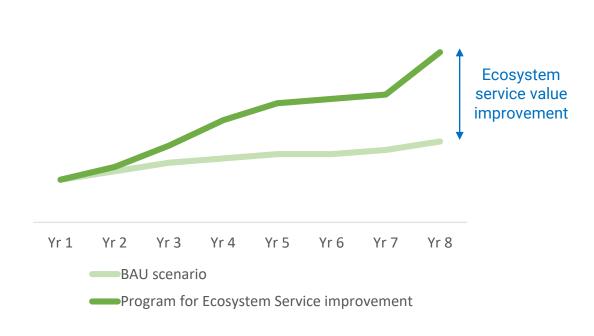


Source: Carson, Rebecca M. and John C. Bergstrom. "A Review of Ecosystem Valuation Techniques." University of Georgia. 2003.





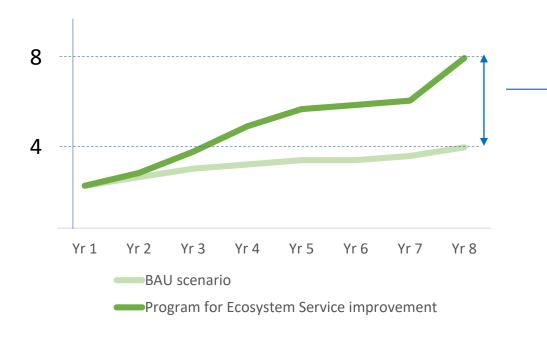
ES Value Improvement Estimation



Ecosystem Health Index (Density/Cover Diversity / Species Richness)	ESV Factor (based on TEV) (PhP/Ha)
1 (Poor)	10,000
2	20,000
3	30,000
4	40,000
5	50,000
6	60,000
7	70,000
8	80,000
9	90,000
10 (Extremely healthy)	100,000



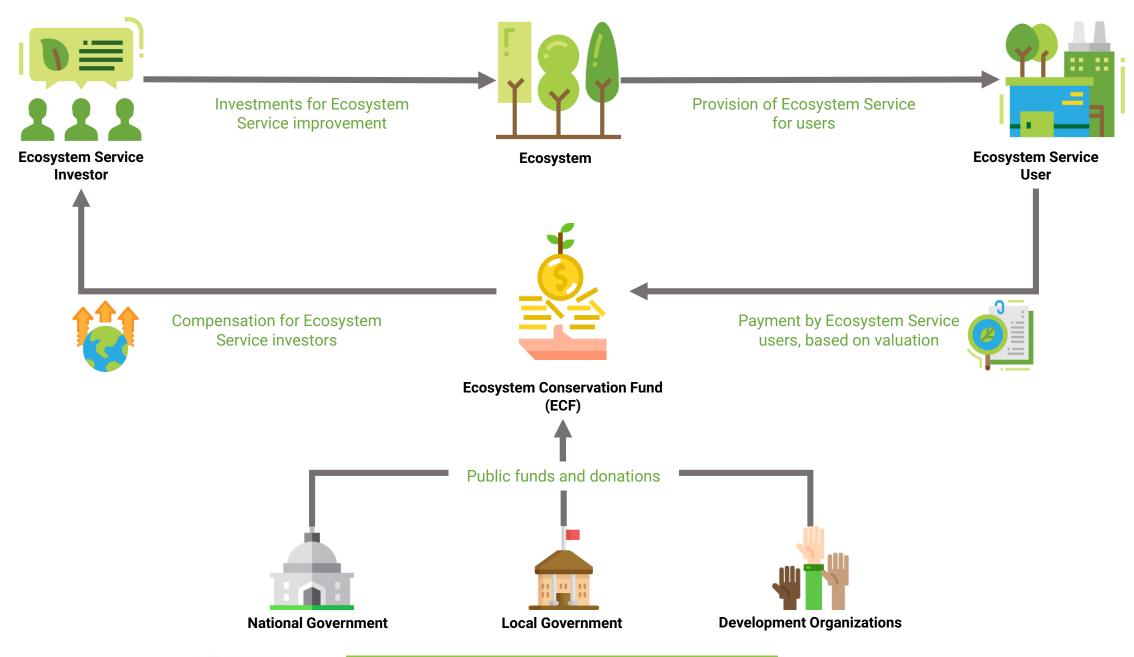
ES Value Improvement Estimation



Profit = P 400,000













Thank you!



