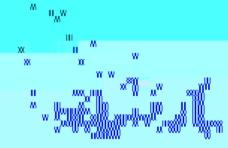


the economic background to payments for environmental services

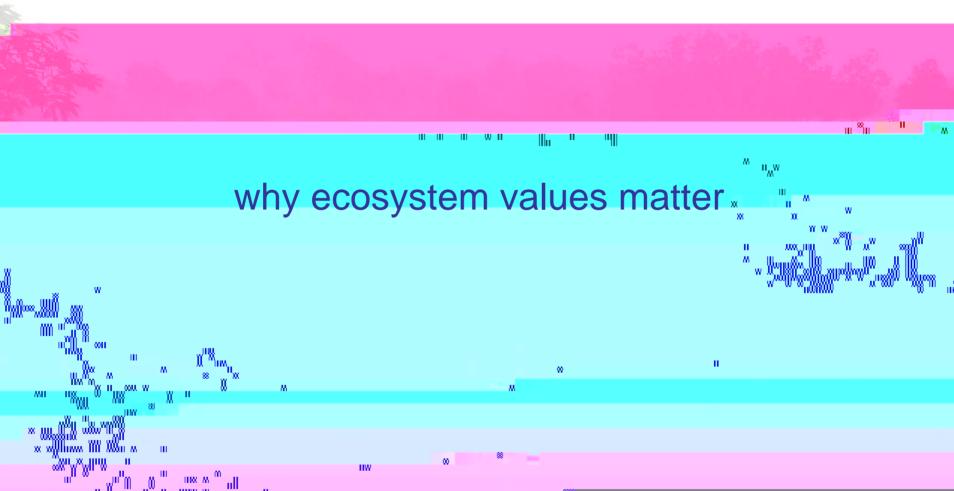
regional workshop on Payments for Environmental Services 3-5 April 2008, Hanoi, Viet Nam



HW







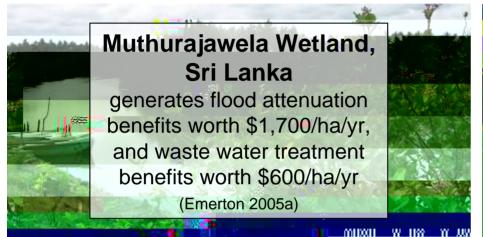
ecosystem services and human wellbeing



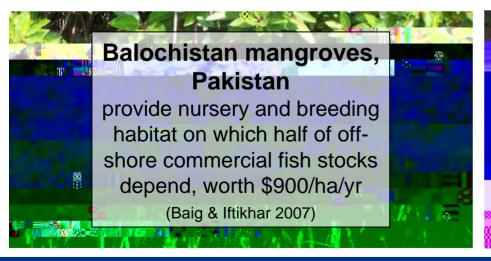


economic values of ecosystem services







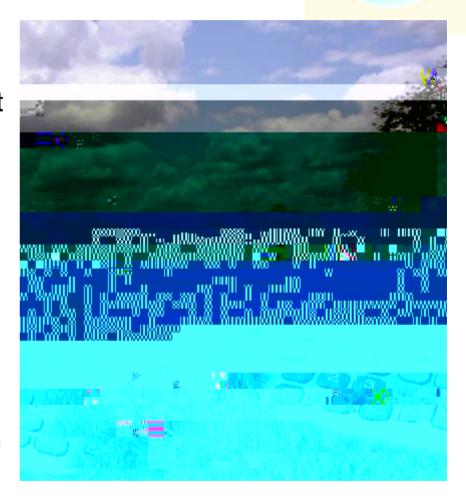




how under-valuation is a problem



- ecosystem costs and benefits tend to be underpriced by the market, or not have any market price at all
- yet it is often these goods and services that are the most valuable
- as a result, ecosystem conservation is seen as having little economic benefit, and ecosystem degradation is seen as having little economic cost







where costs & benefits don't balance



- those who benefit most from ecosystem conservation typically receive these values free, or at very low cost (e.g. urban, industrial and commercial consumers)
- those who are responsible for ecosystem conservation typically gain very little reward or return on their actions (e.g. government agencies and local communities)
- yet conservation cost-bearers are often those who are least able to afford to bear them (e.g. because of poverty and low budgets)

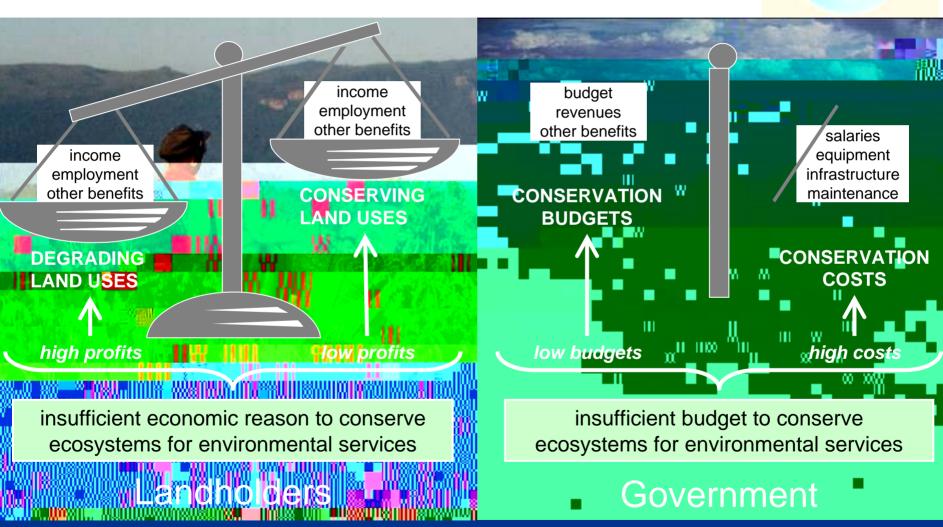


where costs & benefits don't balance

Regional Workshop on Payments for Environmental Services



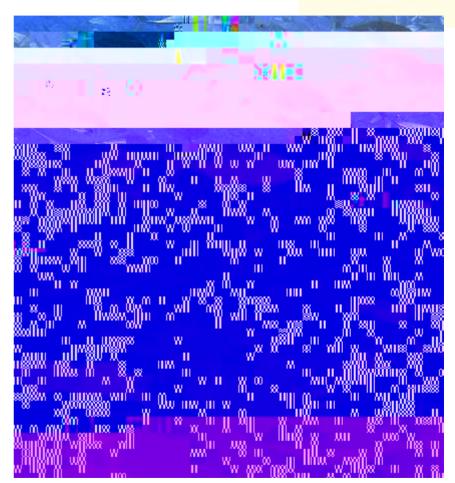
International Union for Conservation of Nature



where social and private values diverge



- what is most beneficial from a social viewpoint is unprofitable in private terms, and vice versa
- conservation to generate ecosystem services may be the best option from a social point of view
- but from a private point of view (for land and resource managers) it is often the least profitable or most costly option



where social and private values diverge



ecosystem conservation private cost









social gain

services maintained & improved

ecosystems

for example: forests wetlands coral reefs mangroves

... etc ...





services

for example: clean & regular water supply flood mitigation fisheries productivity protection against storms carbon sequestration ... etc ...

ecosystem degradation

private gain







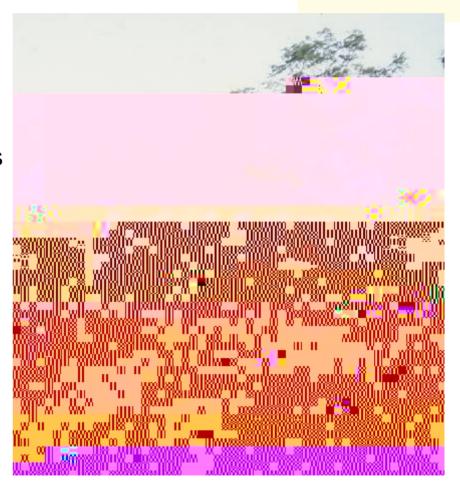


social cost services reduced & lost

how policies, prices and markets fail



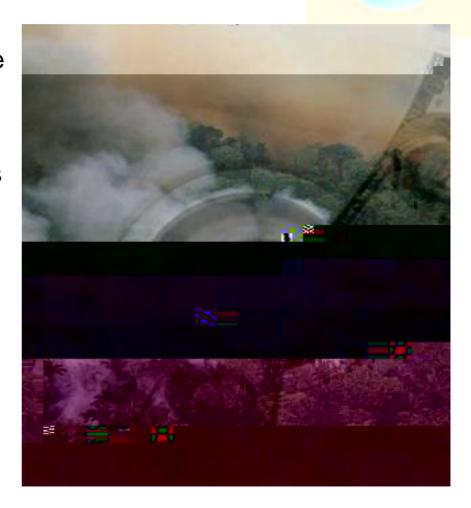
- policies, prices and markets shape people's economic behaviour
- sometimes they are distorted or fail, and send the "wrong" private signals as to the "real" social costs and benefits of different economic activities
- they result in a situation where people are encouraged to produce and consume in ways which give rise to high social losses and costs
- ... such as degrading ecosystems



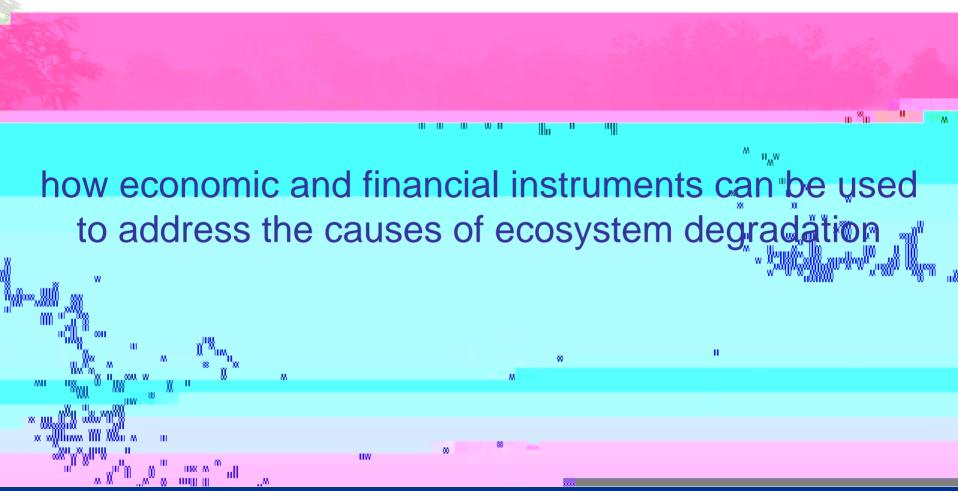
examples of policy, price and market failures



- relatively higher taxes on sustainable land uses, resources and inputs
- "perverse" subsidies to environmentally degrading land uses
- price support to unsustainable products and supply chains
- lack of markets, credit and valueadded for sustainable land and resource uses
- lack of realistic environmental penalties and fines

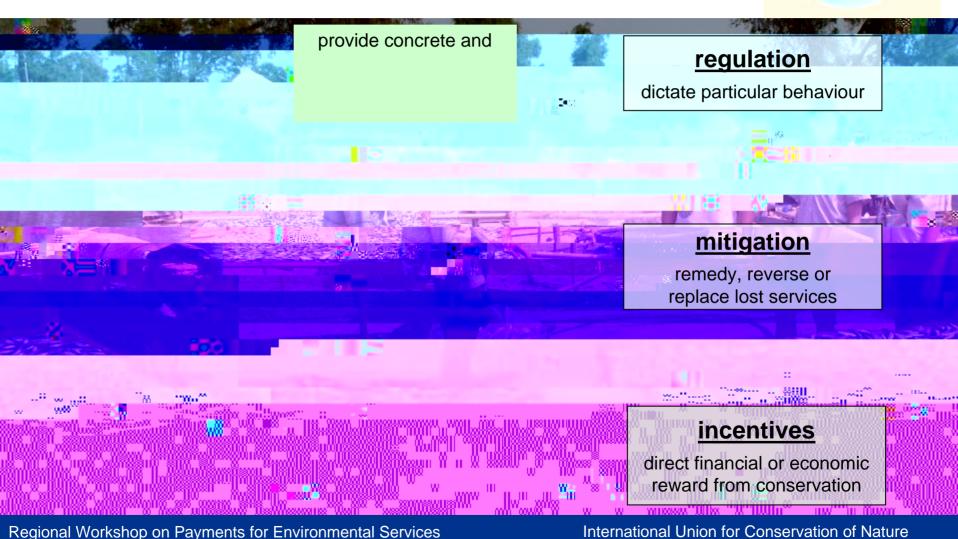






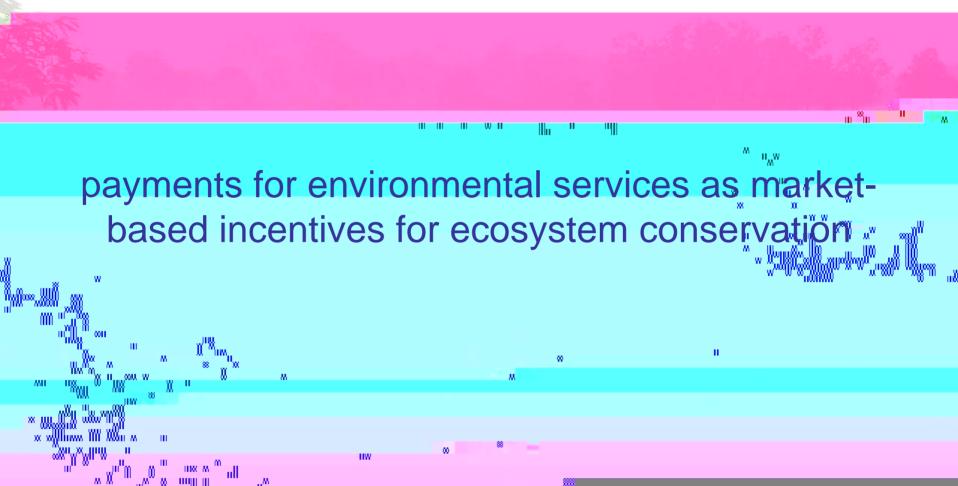
responses to ecosystem loss













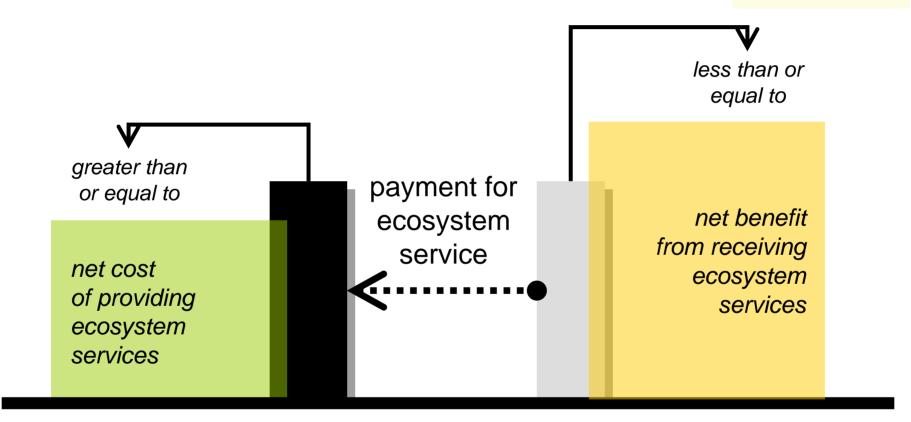
Yving the economic gap



reduced income conservation

PES as a conservation incentive





ECOSYSTEM MANAGERS

BENEFICIARIES



- in principle PES are applicable to any ecosystem which generates economically valuable services for which people are willing to pay
- in practice their use has been limited mainly to forest water services and to a lesser extent carbon, primarily in the Americas and Europe





