

Nature for
People's Sake
Integrating
ecosystem
services in public
decision making

The Ecosystem Services Approach



Presentation outline

3 cases from the field

Introducing ecosystem services

The Ecosystem Services Approach



What is the Ecosystem Services Approach?

- A framework for integrating ecosystem services into decision making
- Incorporates a variety of methods, including ecosystem service dependency and impact assessment,
 valuations, scenarios, and policies
- Often applied at a watershed or landscape level



What types of decision processes can the Ecosystem Services Approach inform?

National and sub-national • National budgets policies and plans

- National development policies
- Climate adaptation

Economic and fiscal incentives

- Subsidies
- Tax policies to promote sustainable technology
- Payments for ecosystem services

Sector policies and plans

- State of the environment reports
- Land use zoning
- Technology transfer

Governance

- Freedom of information
- Participatory decision making



Key elements in the Ecosystem Services Approach to making a decision

Understand the link between ecosystems and development

Assess risks and opportunities

Explore the future

Select policies to sustain ecosystem services

What is the relationship between ecosystems

ecosystems and human well-being? How can

an ecosystem

services

framework help organize decision-

making?

What are the ecosystem service dependencies and impacts? When and how can ecosystem services be

valued?

How can future changes be taken into account?

How can ecosystem service risks and opportunities be incorporated into the decision? What policies can help sustain ecosystem services?



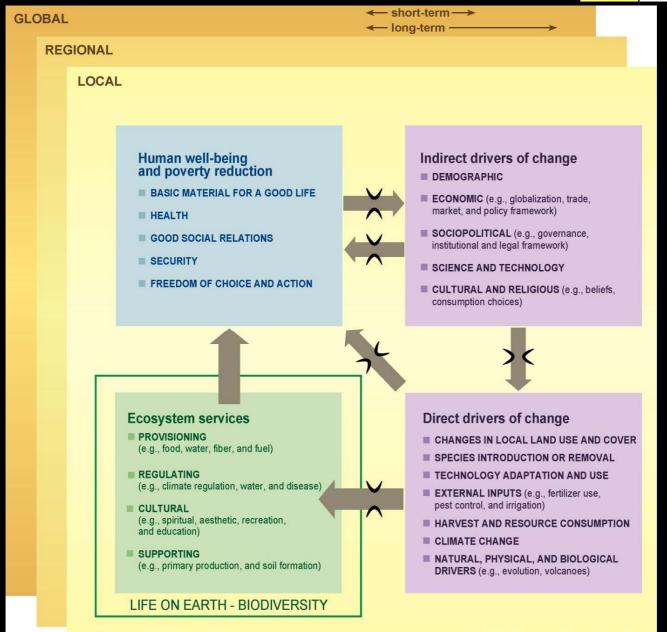
Understand the link between ecosystems and development

People impact nature

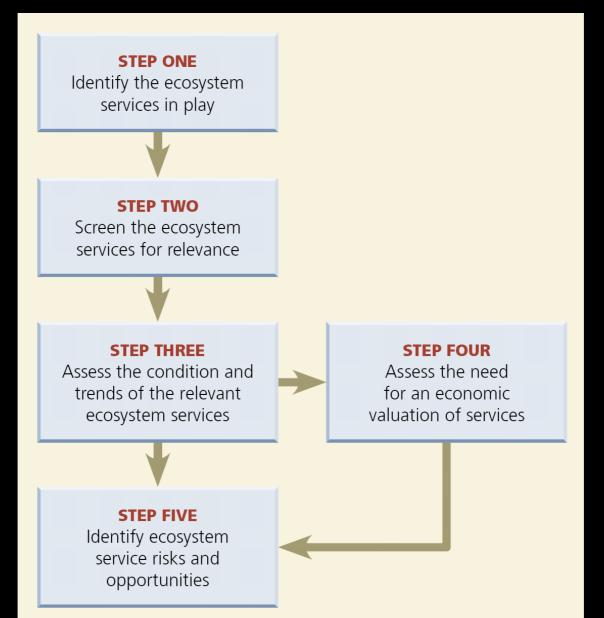








Assess risks and opportunities







Identify the ecosystem services in play

- Identify which ecosystem services a landscape provides
- Determine whether or not the decision depends on or impacts each service



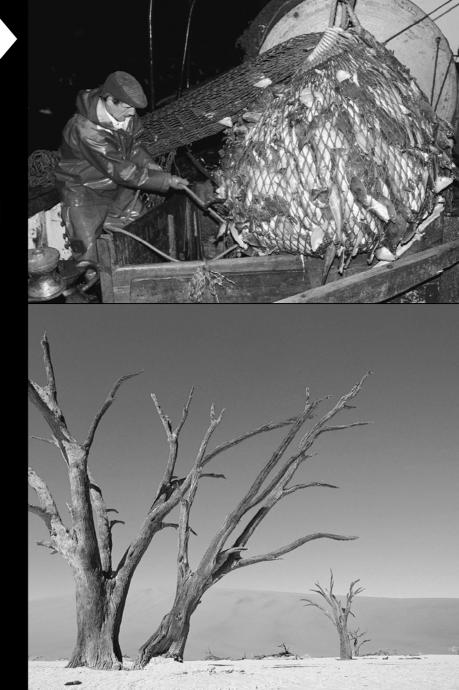
Screen the services for relevance

- Dependence relevant if no cost-effective substitute exists
- Impact relevant if the impact limits or enhances others' use of the service



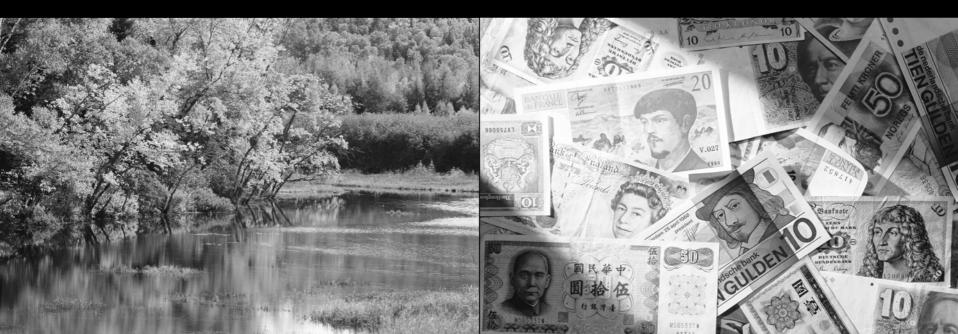
Assess the conditions and trends

- What are the conditions and trends of the relevant ecosystem services?
- What are the major drivers affecting the services?
- •What thresholds or irreversible changes have been observed in the ecosystem services?



Assess the need for an economic valuation

- •To **communicate** the value of ecosystem services by highlighting their **economic** contribution to societal goals
- •To compare the **cost-effectiveness** of investments
- •To evaluate the impacts of development policies
- •To **build markets** for ecosystem services



Identify risks and opportunities

- Are there ecosystem services that were unrecognized or in poorer condition than previously known?
- •Are **users competing** for a service in limited supply? If so, are cost-effective substitutes available?
- Are there unforeseen impacts on services that others depend on for their well-being?



Enhancement of some services often leads to degradation of others creating new winners and losers





Explore the future

- Exploring the future helps decision makers anticipate and avoid unintended consequences from development projects
- Scenario planning is a useful tool for exploring future changes to ecosystem services
- Scenarios are **stories** about the future



Select policies to sustain ecosystem services

- 1. Review and revise the development strategy based on ecosystem service risks and opportunities
- 2. Explore the range of policy options available to influence the drivers of change in ecosystem services
- **3. Choose policies** based on their effectiveness in influencing the drivers of ecosystem change
- 4. Adopt a learning approach to implementing policies



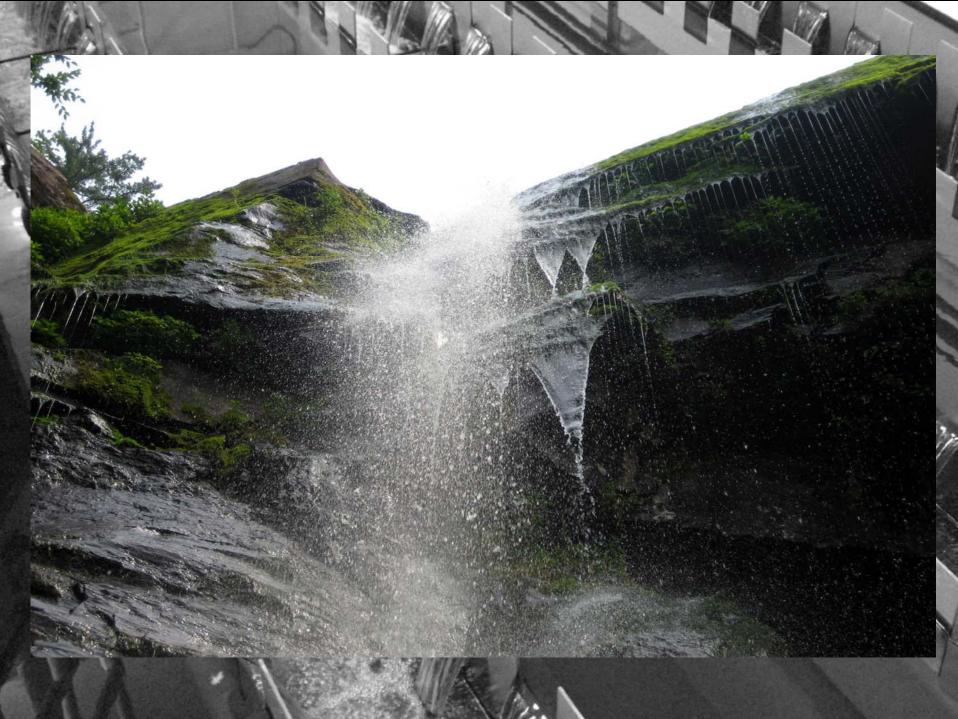




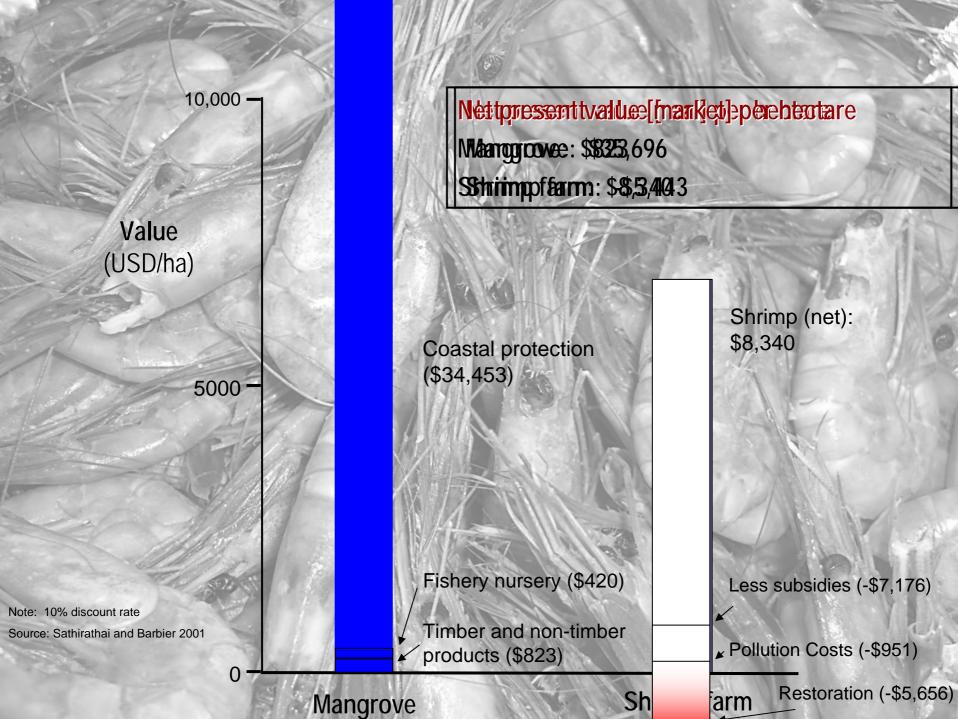
Adopt a learning approach

- Strengthen existing monitoring systems
- Use monitoring data in making course corrections









Countries starting to utilize the Ecosystem Services Approach

China Proposing national ecosystem assessments and exploring how to incorporate into policy

Costa Rica, South Have established or are exploring markets for ecosystem services Africa, & others

European Union European Environment Agency is developing an ecosystem

service assessment process

Tanzania Government paper identifying concrete ways in which sound

ecosystem management can contribute to poverty reduction goals

U.K. DFID/NERC have established an Ecosystem Services for

Poverty Alleviation Programme

United States E.P.A. Office of Research and development has an ecosystem

service research program

Water quality trading programs emerging in a few states