



A practical tool to assess the socio-economic benefits of protected areas

Stream 4: Valuation of Protected Area systems

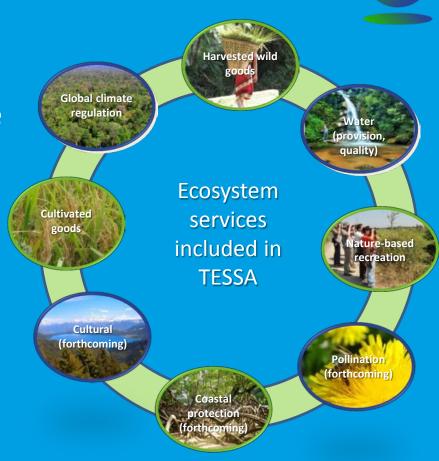
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CONGRESS

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Overview

TESSA - Toolkit for Ecosystem Service Site-based Assessment - provides accessible guidance on low-cost methods for how to evaluate the benefits people receive from nature at protected areas (or other sites) in order to generate information that can be used to influence decision making.





The Toolkit for Ecosystem Service Site-based Assessment has been developed by



















Who this toolkit is for

This toolkit has been designed to allow users to develop an understanding of the benefits we receive from nature, and assess their value, in order to generate information for decision making.

- Conservation practitioners and those with an interest on supporting better biodiversity conservation through ecosystem service arguments
- ➤ The methodology applicable to a wide range of users: forestry, fisheries, water managers, land use planners, development organisations, the private sector and many others



Purpose and scope

Understanding the impacts on ecosystem services of actual and potential changes in state at individual sites is important for promoting better planning decisions to support both biodiversity conservation and ecosystem service delivery.



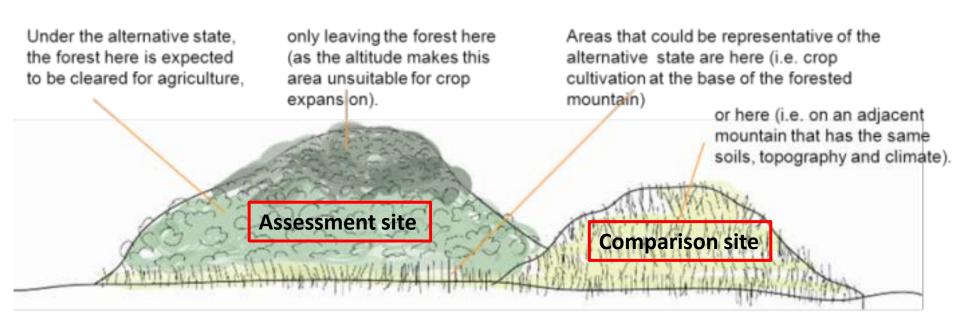
Protected Ramsar site with wild herbivores



Unrestricted domestic cattle grazing



Example



Forested mountain

Cultivated mountain

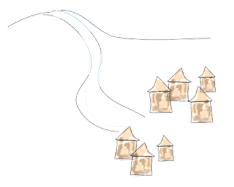


Purpose and scope

An ecosystem service only exists if someone derives benefits from it. Social, political and ecological factors all play a role. The distribution of benefits, and the impacts of change, may not be equitable. It is essential to understand who the beneficiaries are so that the full consequences of changes in ecosystem services can be assessed.







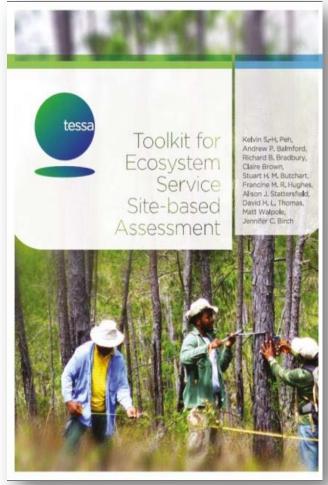




Example

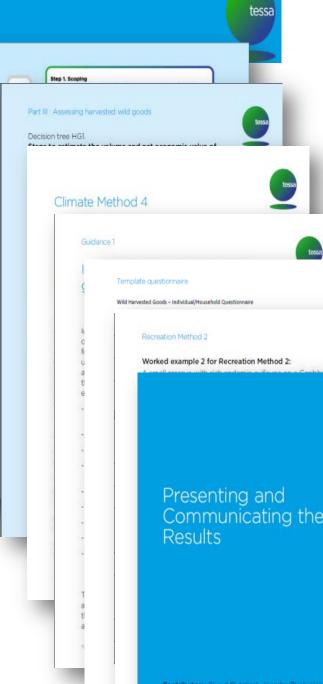
Ecosystem services	Current value	What would happen in the alternative state	Who gains	Who loses
Timber				
Global climate regulation	PAT			
Water services	999			
Medicial plants				
Cultivated goods				
Nature-based tourism				

The Toolkit



The toolkit includes:

- ☐ Step by Step guidance
- Decision trees (flow charts)
- Detailed methods
- Additional guidance and tips
- Templates
- Worked examples
- Guidance on data synthesis





Participatory approach



builds awareness

generates opportunities for dialogue among stakeholders

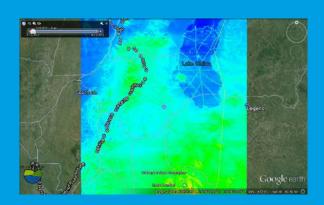


improves uptake of the results



Allows exploration of ecosystem service trade-offs

underpins conservation strategies that deliver better outcomes





Informing policy in Nepal





Water provision

Water provision

Water provision

Water provision

Water provision

Recreation/fourism

Recreation/fourism

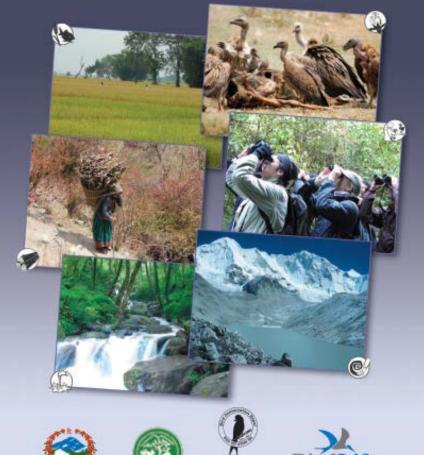
Recreation/fourism

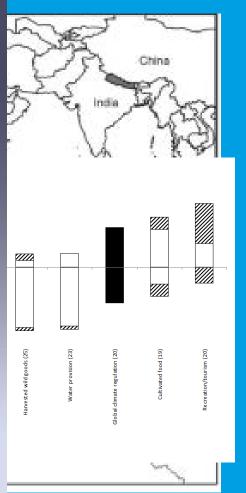
Cultivated food

Outlivated food

are and air quality regulation

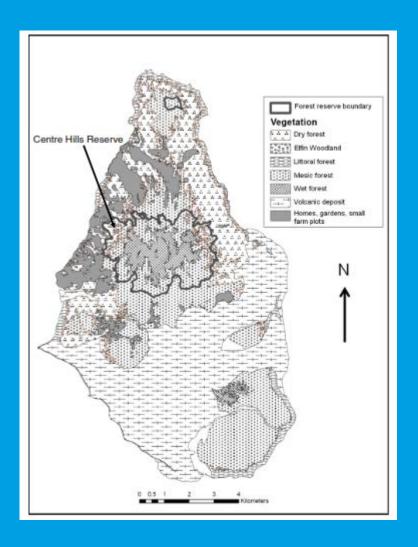
CONSERVING BIODIVERSITY & DELIVERING ECOSYSTEM SERVICES at Important Bird Areas in Nepal





Forest management strategies, Montserrat

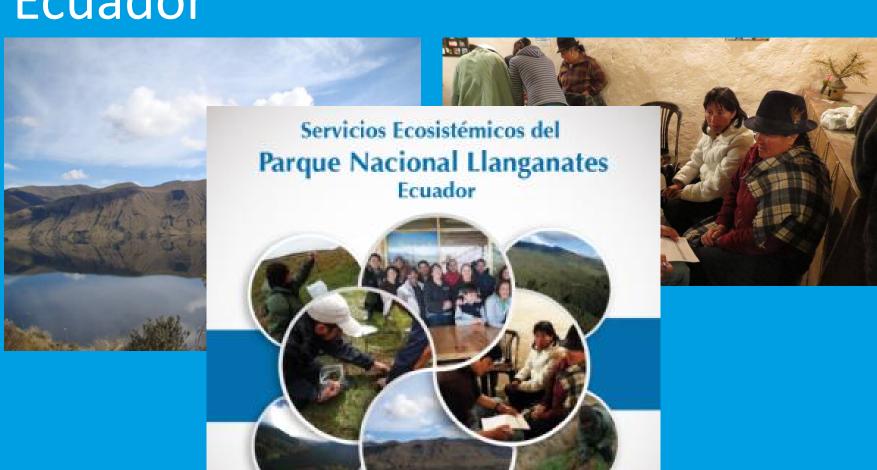






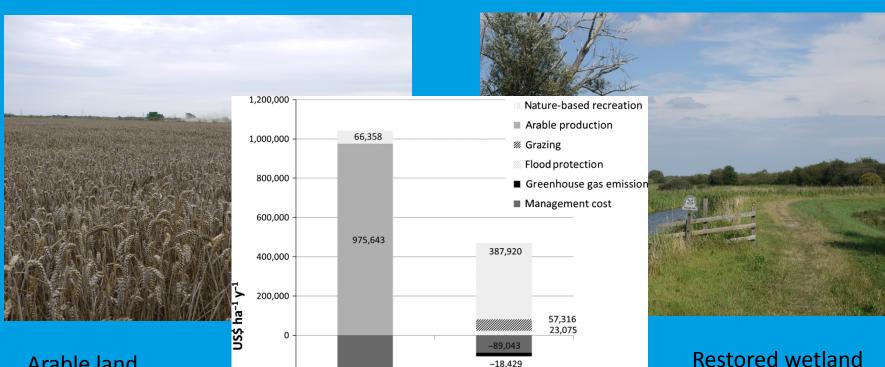
Protected area management, Ecuador





Resultados de una evaluación participativa

Wetland restoration outcomes, UK



Restored wetland

Arable land

-200,000

-400,000

-600,000

-800,000

-1,000,000

Arable land

-723,731

-52,918

Peh et al. 2014 Fcol & Evol

More information



More information at

www.tinyurl.com/tessatoolkit

Webinar:

http://youtu.be/Dn2Vd0HCprc

E-poster

Version 1.2 available to download: http://tessa.tools

TESSA is an evolving resource (subject to funding)

Additional resources and publications

<u>BCN and DNPWC (2012)</u> Conserving biodiversity and delivering ecosystem services at Important Bird Areas in Nepal.

Birch, J.C., et al. (2014) What benefits do community forests provide, and to whom? A rapid assessment of ecosystem services from a Himalayan forest in Nepal. <u>Ecosystem Services (8) 118-127</u>

Peh et al. (2014) Potential impact of invasive alien species on ecosystem services provided by a tropical forested ecosystem: a case study from Montserrat <u>Biological Invasions July 2014</u>

Thapa, I., et al. (2014) Using information on ecosystem services in Nepal to inform biodiversity conservation and local to national decision-making. Oryx [published online 4 August 2014]

Peh et al. (2013) TESSA: A toolkit for rapid assessment of ecosystem services at sites of biodiversity conservation importance Ecosystem Services (5) 51-57