Good communication on ES within the field of EP and NC: the involvement of stakeholders in The Basque Country

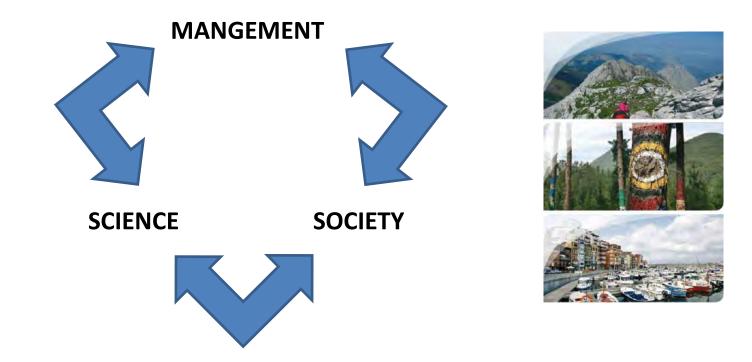
Igone Palacios-Agundez, University of the Basque Country

ENCA/EPA IG Ecosystem Services Interest group meeting March 31/ April 1 2014 in Peterborough, England



Biodiversity for Human well being

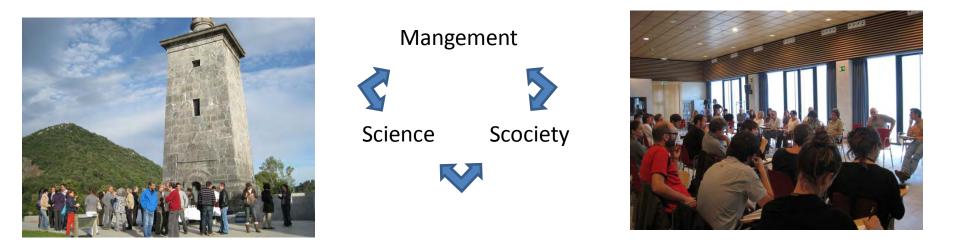
Ecosystem Service Framework provides a space for coordination and dialogue between scientist, managers/politicians and Stakeholders



INTEGRATIVE, ADAPTATIVE AND RESILIENT MANAGEMENT

Applicability of ecosystem services for management

PARTICIPATORY PROCESSES



Useful scientific knowledge emerges from the cooperation of scientists and practitioners



The Millennium Ecosystem Assessment in the Basque Country:

A local/regional integrative approach to enhance the link between science, policy-making and society.



INGURUMEN ETA LURRALDE POLITIKA SAILA DEPARTAMENTO DE MEDIO AMBIENTE Y POLITICA TERRITORIAL











Objective

Obtain scientific results integrating stakeholders participation that will be useful for landscape planning and nature conservation policies

The project is meant to serve as a tool to identify priority actions that can prevent or mitigate human impact on ecosystems and also to highlight the policies and actions that have a positive effect on the conservation and sustainable use of natural capital.



Key characteristics

- A clear outreach and coordination strategy
- Participation and implication of local authorities and NGO's
- Ensuring stakeholder participation from the outset
- Linked to national and international multidisciplinary / transdisciplinary teams and networks
- Availability of high resolution data at local scale

Study area Different working scales



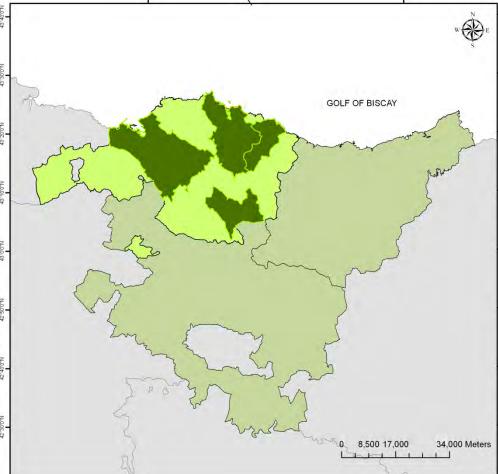
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Basque Country 7.229 km² 2.18 M inhabitants (302 inhab/km²) BM 2.189 inhab/km²













Comprehensive participatory methodology

- **1.** Active transdisciplinar core group integrated by: politicians, technicians of different administration bodies, researchers and NGO's
- 2. Involving stakeholders at multiple stage of the assessment
- 3. Educational programmes
- **4. Encouraging direct contact, continuous communication and specific meetings** with different stakeholders (e.g. administration practitioners)
- 5. Integration of participatory results into scientific research and into planning strategies



Transversal: international inputs from different scales

- Data credibility (Peer review)
- Make it more relevant for local / regional policy-makers
- Engagement with the wider community and scaling of results



Specific examples of participatory research for Biodiversity and Ecosystem Services sustainable management policies

- Perception, demand and users contribution in the Bilbao
 Metropolitan Greenbelt
- Update process of the Urdaibai Biosphere Reserve Master
 Plan for Use and Management (MPUM)
- Participatory scenarios development





Perception, demand and users contribution in the Bilbao Metropolitan Greenbelt (BMG)

Participatory workshop

Direct in-person questionnaires (545)

<u>Randomly selected population at</u> different sites in the BMG

<u>Specific groups of interest</u>: e.g. teachers, university researchers and students, public-administration technicians and people from environmental associations

Feedback seminars with the research results





Bilbao Metropolitan: Results for management

Demand for ES in the BMG did not correspond to what users perceived these ecosystems to provide.

The interviewees were in favour of improvements to periurban rural areas, and the results suggested that the **authorities should highlight the role of the BMG ecosystems** with respect to regulating services and historic and cultural values to improve people's awareness of the ecosystems' capacity to provide benefits to society.

Updated of the Urdaibai Master Plan for Use and Management (MPUM) using ES framework

Participatory process

4 Participatory workshops

120 participants -> 63 in each workshop

143 specific management proposals

Participatory survey to prioritize actions

Research on Co-benefits and trade-off between biodiversity and ES

Seminar on applicability of ES in Biosphere Reserves



Urdaibai: Results for management

Natural forests are the ecosystems that most contribute to biodiversity, carbon storage and water flow regulation (overlap areas)

Conservation and restoration of biodiversity would ensure the provision of some important portions of other ecosystem services

Pine and eucalyptus plantations contribute to ecosystem services but have very low biodiversity (some negative effects)

Conservation based only in one ecosystem service might be detrimental to biodiversity. Integrative management is needed.

Participatory scenario planning

Survey previous to the workshops

Two scenario workshops (66 stakeholders)

Development of local-regional scenarios and characterization of scenarios in terms of the provision of ES and human well-being

Description of the sustainable target scenario and definition of management strategies for Biscay

Identified research gap: on forest ES and on the synergies and trade-offs between biodiversity and carbon storage







Scenario planning: Results for management

A core aspect of the sustainable target scenario chosen by participants is that a real change in social values is proposed

Landscape multi-functionality was considered key in the sustainable target scenario for what other ES apart from timber production should be promoted

To achieve this scenario, participants identified the need for a strategic landscape planning and management

Participants also highlighted the necessity for coherent and coordinated policies.

Outreach materials

Publications for the general public

Sustainable Development, Ecological Complexity, and Environmental Values





Bosques del Mundo

KERKETAK INVESTIGACIÓN



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NVALUACIÓN DE LOS DOMENTENAS DEL HILEROS EN BUSILINA 100



Servicios de los ecosístemas y bienestar humano



Publications in specialised journals (ISI)

Landscape Ecol DOI 10.1007/s10980-014-9994-1

RESEARCH ARTICLE

Integrating stakeholders' demands and scientific knowledge on ecosystem services in landscape planning



Mapping recreation and aesthetic value of ecosystems in the Bilbao Metropolitan Greenbelt (northern Spain) to support landscape planning

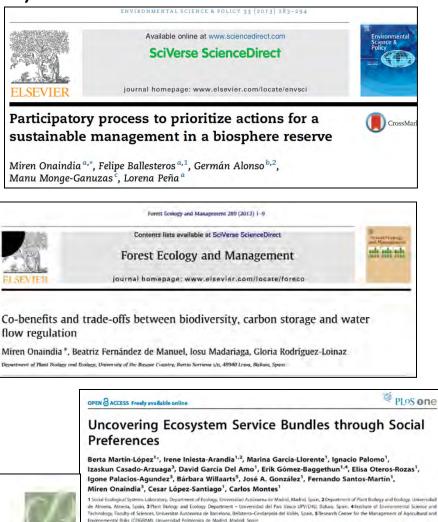
Izaskun Casado-Arzuaga · Miren Onaindia · Iosu Madariaga · Peter H. Verburg

Copyright © 2013 by the author(s). Published here under license by the Resilience Alliance. Palacios-Agundez, I., I. Casado-Arzuaga, I. Madariaga, and M. Onaindia. 2013. The relevance of local participatory scenario planning for ecosystem management policies in the Basque Country, northern Spain. Ecology and Society 18(3): 7. http://dx.doi.org/10.5751/ES-05619-180307

Research

The Relevance of Local Participatory Scenario Planning for Ecosystem Management Policies in the Basque Country, Northern Spain

Igone Palacios-Agundez¹, Izaskun Casado-Arzuaga¹, Iosu Madariaga^{1,2} and Miren Onaindia¹

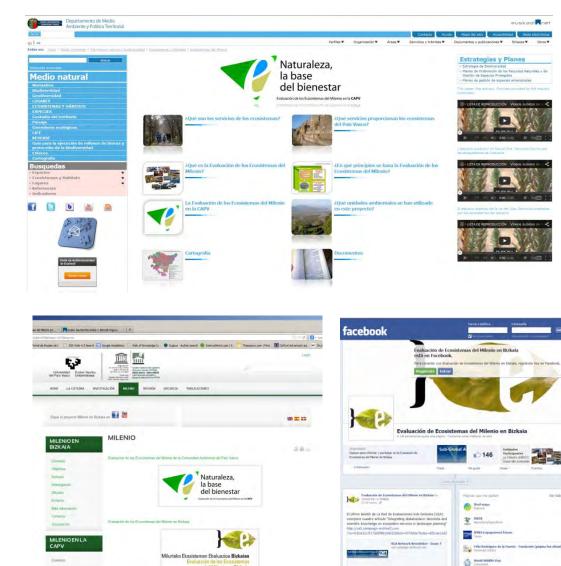


Abstract

1.8.5

Ecosystem service assessments have increasingly been used to support environmental management policies, mainly based on biophysical and economic indicators. However, few studies have coped with the social-cultural dimension of ecosystem services, despite being considered a reasent priority. We examined how ecosystem service bundles and trade-offs emerge from diverging social preferences toward ecosystem services delivered by various types of ecosystems in Spain. We conducted 3379 direct face-to-face questionnaires in eight different case study sites from 2007 to 2011. Overall, 905% of

Internet and Audio-visual media Radio, videos, facebook, websites..



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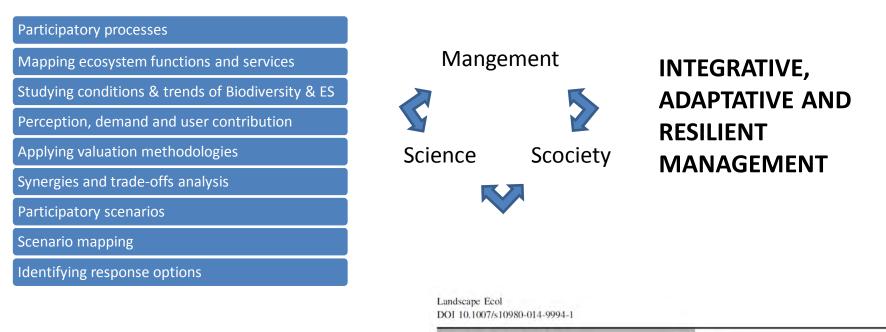


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Evaluación de tom

Integration of participatory results into scientific research and into planning strategies

Combining the results of different methodologies allows a broad analysis of the existing synergies and trade-offs and helps to deal with ES management in a more sustainable way



RESEARCH ARTICLE

Integrating stakeholders' demands and scientific knowledge on ecosystem services in landscape planning Relevant implementations in the Basque Country

- A. Environmental Framework Programme of the Basque Country (2015-2019)
- B. Regional Planning Guidelines for the Basque Country
- C. The Urdaibai Biosphere Reserve Master Plan for Use and Management (MPUM)

Other working fields:

- A. Primary sector
- B. Rural-Urban interactions
- C. Water policies





The perspective of ecosystem services **can contribute to develop sound land-use policies and planning actions** at different scales; being the local-regional scale (linked to broader scales) very appropriate to lead the first steps from theory to **practise**

<u>Key issues:</u>

- Ensuring stakeholder participation and working in collaboration with technicians and politicians from the outset
- Development of technical tools (e.g. mapping to obtain spatially explicit accurate information) and combining different methodologies
- Engagement in Networks



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¹ University of the Basque Country
 ² County Council of Biscay
 ³ Basque Government
 ⁴ Urdaibai Biosphere Reserve
 ⁵ UNESCO Etxea

And many active stakeholders



Nature, basis of well-being

Millennium EcosystemAssessment in the Basque Country

Thank you very much Merci beaucoup Muchas gracias Eskerrik asko

A sustainable future is possible working from local to global and vice-versa

Further information: www.ehu.es/cdsea Igone.palacios@ehu.es