



Ecosystem Services Assessment in the Basque Country

Prof. Miren Onaindia.
UNESCO Chair on Sustainable Development and Environmental
Education. University of the Basque Country



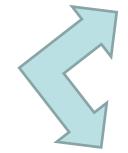
ECOSYSTEM SERVICES ASSESSMENT



An integrative approach to enhance the link between science, policy-making and society

MANGEMENT









SCIENCE

SOCIETY







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





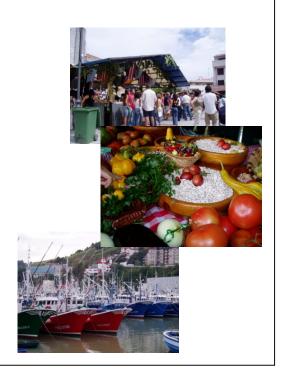






Provisioning Food, fresh water, wood, fiber,

genetic resources



Regulating
Climate regulation,
air quality,
pollination

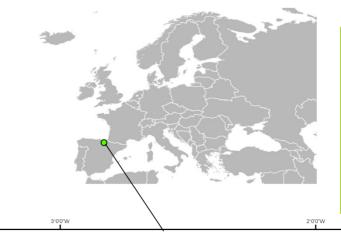


Cultural
Educational,
recreational, traditional
knowledge, local
identity



Study area: Different working

scales



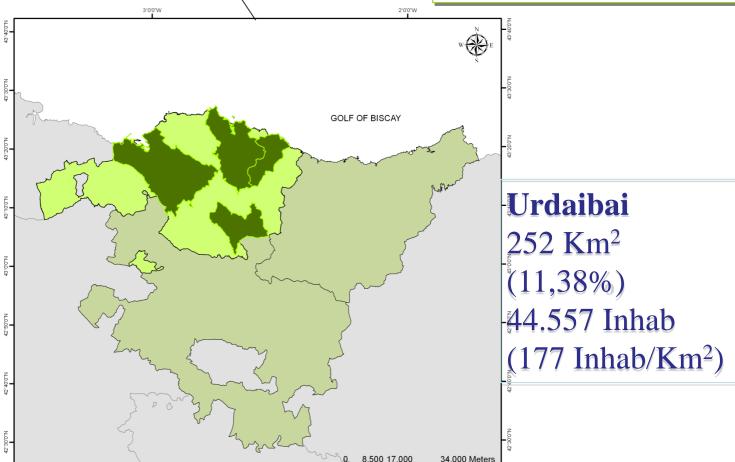
Basque Country

 7.229 km^2

2.18 M inhabitants

 (302 inhab/km^2)

BM 2.189 inhab/km²





Methodologies and research lines



1. Mapping ecosystem services at different scales

Identifying hotspots or priority areas for multiple ecosystem services to enhance sustainable land management



2. Analyzing social preferences (demand)

Users' perceptions: participatory processes. An urban/rural/natural gradient. Metropiltan area of Bilbao.



3. Indicators of multifunctionality

Socio-economic compensation for landscape multifunctiona at municipality level







IMPLEMENTATION IN MANAGEMENT STRATEGIES AND POLITICS

- Regional Planning Guidelines (DOT)
- Bilbao Metropolitan Landscape Planning
- Urdaibai Biosphere Reserve

Future steps

- Elaboration of a practical guide to facilitate the actual implementation of ES concept in planning
- Inclusion of ecosystem service indicators in official statistics





LESSONS LEARNED AND CHALLENGES

The perspective of ecosystem services contributes to develop sound land-use policies and planning actions, with the participation of stakeholders

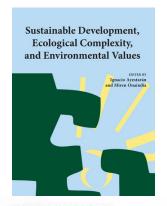
• Important issues:

- Collaboration between researchers, technicians and politicians
- Development of technical tools: mapping, indicators, others (spatially explicit accurate information). Data credibility.
- Engagement in Networks. Make it more relevant for local / regional policy-makers





Outreach materials and educational programs



KERKETAK INVESTIGACIÓN



Escenarios de futuro en Bizkaia

boras sprine Palapore, rissistani Cassero, Aspilia Aupore, Itos Andersagai, Johns Chaimbia Caspore si Michiel Soli depice placeardia Si michieldia y Silvania in Amberica di si a UPVSHIS L'Escantemente de Michiel Artistotic del la Dispublica Francisco del Silvani Recognitica, Michiel Serios, Estater



III. C. ASIASY "**. Mittern Oran Holds: "
""" A there was a series of the series of th

40 2014 Elsevier Lod. All rights mun

. Introduction

The contribution of many-terms to the world's consumer and terms of the contribution of many terms of the contribution of a solice and pall terms and the contribution of the contribution

Communiting within Tel., 16 to 60 2018; for 19 to 60 1000; if well addresses, devices have for the production of the 60 1000; if well addresses, devices have for the 60 to 60

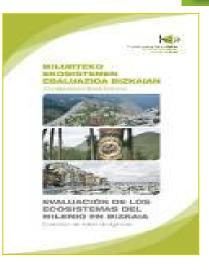
Cannum, 2007). Subguarding and minuscing the provision of in marketed SS is crockal from both the human and enament, specifives. As a consequence, initiatives have been develope grounds the supply of non-marketed sentors (Colonia Sugger et al., 2003), such as payments for ecosystem services self-(Schoniars and Maredonf, 2011; Vanador et al., 2003), but the control of the control of the control of the control of the Schoniars and Maredonf, 2011; Vanador et al., 2003), but

The Colon colon for the Act of the training of the Colon colon for the Colon colon

CARTOGRAFIADO DE LOS SERVICIOS DE LOS ECOSISTEMAS

2014













Integration of science and stakeholders improves decision-making processes



Thank you very much Eskerrik asko

Further information:

www.ehu.es/cdsea Miren.onaindia@ehu.es