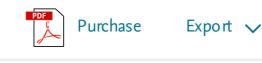
Challenges in integrating the concept of ecosystem services and values in landscape planning, management and decision making.

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Challenges in integrating the concept of ecosystem services and values in landscape planning, management and decision making R.S. de Groot ^a A ⊠ ... L. Willemen ^{a, d} **■ Show more** https://doi.org/10.1016/j.ecocom.2009.10.006 Get rights and content

Abstract

Despite the growing body of literature on ecosystem services, still many challenges remain to structurally integrate ecosystem services in landscape planning, management and design. This paper therefore aims to provide an overview of the challenges involved in applying ecosystem service assessment and valuation to environmental management and discuss some solutions to come to a comprehensive and practical framework.

First the issue of defining and classifying ecosystem services is discussed followed by approaches to quantify and value ecosystem services. The main part of the paper is focussed on the question how to analyze trade-offs involved in land cover and land use change, including spatial analysis and dynamic modelling tools. Issues of scale are addressed, as well as the question how to determine the total economic value of

different management states.

Finally, developments and challenges regarding the inclusion of ecosystem services in integrative landscape planning and decision-making tools are discussed.

It is concluded that the ecosystem service approach and ecosystem service valuation efforts have changed the terms of discussion on nature conservation, natural resource management, and other areas of public policy. It is now widely recognized that nature conservation and conservation management strategies do not necessarily pose a trade-off between the $\hat{a} \in \mathbb{C}$ environment $\hat{a} \in \mathbb{C}$ and $\hat{a} \in \mathbb{C}$ development $\hat{a} \in \mathbb{C}$. Investments in conservation, restoration and sustainable ecosystem use are increasingly seen as a $\hat{a} \in \mathbb{C}$ which generates substantial ecological, social and economic benefits.



Next article



Keywords

Ecosystem services; Valuation; Modelling; Landscape planning

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