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### Ecosystem Services From Concept To Practice

Ecosystem services are hot, and they have been hot for a while. In 1998, Costanza et al. published their famous article about the societal value produced by ecosystems through ecosystem service delivery, an article which at the time this introduction was written had been cited more than 10 000 times.

Ecosystem services: from concept to practice (Chapter 1 ...

Despite the growing popularity of the concept of ecosystem services, policy makers and practitioners continue to struggle with the challenge of translating it into practice. Drawing on a range of interdisciplinary perspectives, this volume takes up the challenge to provide a framework for the effective implementation of simple

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concepts into complex ecosystem-related decision making.

Ecosystem Services: From Concept to Practice: Amazon.co.uk ...  
Addressing the measurement, valuation and governance of ecosystem services, Ecosystem Services: From Concept to Practice is specifically designed to guide students and policy-makers from definitions and measurements to applications in terms of policy instruments and governance arrangements. Each chapter discusses key methodological approaches, illustrating their applications at various scales by drawing on case studies from around the world.

Ecosystem Services: From Concept to Practice | NHBS ...

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And by now, most (inter)national policies in the field of nature conservation refer to ecosystem services when explaining the need for nature conservation, biodiversity protection, and sustainable...

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Ecosystem Services From Concept to Practice. Despite the growing popularity of the concept of ecosystem services, policy-makers and practitioners continue to struggle with the challenge of translating it into practice. Drawing on a range of interdisciplinary perspectives, this volume takes up the challenge to provide a framework for the effective implementation of simple concepts into complex ecosystem-related decision-making.

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### Ecosystem Services From Concept to Practice

Particularly valuable are the chapters on the role of biodiversity in ecosystem service provision, economic values and valuation methods of ecosystem services, trade-offs and decision-support tools, payments and global governance. If the reader wants more depth about particular topics, each chapter has a good list of references.

### Ecosystem Services: From Concept to Practice

Ecosystem services have become a popular concept for policymakers and practitioners to explain the societal value of ecosystems and biodiversity to the general public.

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### Ecosystem Services From Concept To Practice

The concept of "ecosystem services" emerged during the 1970s and gained increasing recognition in the following decades. However, the idea that natural systems support human welfare is much older. Relationships between deforestation and water supply were documented by Plato as early as 400 bce. Economists in the

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18th and 19th centuries recognized the value provided by land and other natural resources as productive assets.

ecosystem services | Definition, History, & Importance ...

As a part of this process, the use of the ecosystem services concept has transcended the academic arena to reach Governmental policy as well as the non profit, private and financial sectors (Bayon, 2004, EC, 2008).

Mainstreaming of ecosystem services, however, has resulted as well in application of the concept in directions that diverge significantly from the original purpose with which the concept was introduced.

The history of ecosystem services in economic theory and ...

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The leading professional body representing many of the learned societies and other organisations making up the diverse landscape of the biological sciences, as well as thousands of individuals

## Ecosystem Services: From Concept to Practice

Ecosystem services – what are they? Is it a way of quantifying the unquantifiable? How can you put a monetary value on coral reefs? For many ecologists and biologists, these are important questions to address if you are trying to influence environmental policy anywhere in the world. This concise ...

## Ecosystem Services: From Concept to Practice

The ecosystem services concept has

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Concept To Practice continued to expand and includes socio-economic and conservation objectives, which are discussed below. A history of the concepts and terminology of ecosystem services as of 1997, can be found in Daily's book "Nature's Services: Societal Dependence on Natural Ecosystems".

Ecosystem service - Wikipedia  
Ecosystem Services: From Concept to Practice: Bouma, Jetske A., van Beukering, Pieter J. H.: Amazon.sg: Books

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The ecosystem services concept focuses attention on the fundamental links and feedbacks between nature and society (Mace et al., 2012). Specifically the concept frames these

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links in terms of the benefits derived from ecosystem functions and processes to diverse social groups (Hauck et al., 2013).

Knowledge needs for the operationalisation of the concept ... Despite the growing popularity of the concept of ecosystem services, policy makers and practitioners continue to struggle with the challenge of translating it into practice. Drawing on a range of interdisciplinary perspectives, this volume takes up the challenge to provide a framework for the effective implementation of simple concepts into complex ecosystem-related decision making.

Ecosystem Services edited by Jetske A. Bouma  
Ecosystem services refer to the

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interface between ecosystems and human well-being and are described as the many different benefits ecosystems provide to people (MEA 2003). The cascade model originally published by Haines-Young and Potschin (2010) is used as a basis in many studies dealing with the ES concept.

## Ecosystem Services in River Landscapes | SpringerLink

The "ecosystem services" concept offers a way to directly recognize the effect that human activities have on the environment, and thus ultimately on our own well-being. Ecosystem services are the products and services that people get from the natural environment.

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Draws on a range of interdisciplinary perspectives to provide a framework for translating concepts into ecosystem-related decision-making and practice.

Nature provides us with many services seemingly for free: recharged groundwater, fertile soil and plant biomass created by photosynthesis. We human beings draw extensive benefits from these "ecosystem services," or ES — food, water supply, recreation and protection from natural hazards. Major international studies, such as the Millennium Ecosystem Assessment, have addressed the enormous role of biodiversity and ecosystems to human well-being, and they draw particular attention to the consequences resulting from the reduction or loss of these services.

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These very topical issues are being addressed by authors/scientists in a wide variety of disciplines and their approaches, terminologies and methodological specifics are just as diverse. What, for example, does the efficacy of nature or natural capital mean? Which values of nature are particularly important, how are they distributed in space and time and how can they be assessed and the relevant knowledge promoted? Can all ecosystem services be quantified and even monetarised? What should be done to ensure that the multiple services of nature will be available also in future? This book explains the multifaceted concept of ecosystem services, provides a methodological framework for its analysis and assessment, and discusses case examples, particularly from Germany.

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It is addressed to scientists and practitioners in the administrative, volunteer and professional spheres, especially those who deal with environment, landscape management and nature conservation and regional and land-use planning. The target group includes experts from the business community, politicians and decision makers, students and all those interested in fundamental ecological, economic, ethical and environmental issues.

The idea that nature provides services to people is one of the most powerful concepts to have emerged over the last two decades. It is shaping our understanding of the role that biodiverse ecosystems play in the environment and their benefits for humankind. As a result, there is a

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Growing interest in operational and methodological issues surrounding ecosystem services amongst environmental managers, and many institutions are now developing teaching programmes to equip the next generation with the skills needed to apply the concepts more effectively. This handbook provides a comprehensive reference text on ecosystem services, integrating natural and social science (including economics). Collectively the chapters, written by the world's leading authorities, demonstrate the importance of biodiversity for people, policy and practice. They also show how the value of ecosystems to society can be expressed in monetary and non-monetary terms, so that the environment can be better taken into account in decision making. The

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Significance of the ecosystem service paradigm is that it helps us redefine and better communicate the relationships between people and nature. It is shown how these are essential to resolving challenges such as sustainable development and poverty reduction, and the creation of a green economy in developing and developed world contexts.

The concept of ecosystem services has emerged in recent years as one of the most powerful guiding principles for ecology, biodiversity conservation and the management of natural resources. It provides the basis of assessing the multiple values and services that ecosystems can provide to humankind, including such diverse issues as carbon sequestration, flood control, crop pollination and aesthetic

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**Concept To Practice** This introductory textbook sets out the key aspects of ecosystem services. The book details the historical roots of ecosystem services in the second half of the twentieth century and through initiatives such as the Millennium Ecosystem Assessment. It shows how ecosystem goods and services can be categorised and valued in economic as well as non-monetary terms, while also highlighting some of the difficulties and limitations of valuation techniques. The author describes how themes such as systems thinking, social-ecological resilience and natural capital relate to ecosystem services, and how these can contribute to more sustainable and equitable development. The book assumes limited prior knowledge and is aimed at a wide interdisciplinary audience of

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environmental and life sciences. It is illustrated by a wide range of international case studies and includes learning objectives and guidance for further reading.

Ecosystem Services: Global Issues, Local Practices covers scientific input, socioeconomic considerations, and governance issues on ecosystem services. This book provides hands-on transdisciplinary reflections by administrators and sector representatives involved in the ecosystem service community. Ecosystem Services develops shared approaches and scientific methods to achieve knowledge-based sustainable planning and management of

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ecosystem services. Professionals engaged in ecosystem service implementation have two options: de-emphasize the ecological and socioeconomic complexity and advance in the theoretical, abstract field, or try to develop research that is policy relevant and inclusive in an uncertain environment. This book provides a wide overview of issues at stake, of interest for any professional wishing to develop a broader view on ecosystem service science and practice. Examines a broad scope of relevant issues to create common understanding in the ecosystem services community Includes contributions from several backgrounds, providing a broad, multidisciplinary view Offers recommendations to develop a thorough understanding and

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management of ecosystem services based on tools and research in larger territories as well as on local scales

As human populations grow, so do the resource demands imposed on ecosystems, and the impacts of anthropogenic use and abuse are becoming ever more apparent. This has led to the development of the concept of ecosystem services, which describes the beneficial functions provided by ecosystems for human society. Ecosystem services are limited and hence threatened by over-exploitation, and there is an urgent imperative to evaluate trade-offs between immediate and long-term human needs and to take action to protect biodiversity, which is a key factor in delivering ecosystem services. To help inform decision-

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makers, economic value is increasingly being associated with many ecosystem services and is often based on the replacement with anthropogenic alternatives. The ongoing challenges of maintaining sustainable ecosystems and prescribing economic value to nature is prompting multi-disciplinary shifts in how we recognise and manage the environment. This volume brings together emerging topics in environmental science, making an excellent source for policy makers and environmental consultants working in the field or related areas. Ecosystem Services also serves as a concise and referenced primer for advanced students and researchers in environmental science and management.

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The Law and Policy of Ecosystem Services is the first comprehensive exploration of the status and future of natural capital and ecosystem services in American law and policy. The book develops a framework for thinking about ecosystem services across their ecologic, geographic, economic, social, and legal dimensions and evaluates the prospects of crafting a legal infrastructure that can help build an ecosystem service economy that is as robust as existing economies for manufactured goods, natural resource commodities, and human-provided services. The book examines the geographic, ecological, and economic context of ecosystem services and provides a baseline of the current status of ecosystem services in law

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and society. It identifies shortcomings of current law and policy and the critical areas for improvement and forges an approach for the design of new law and policy for ecosystem services. Included are a series of nine empirical case studies that explore the problems caused by society's failure to properly value natural capital. Among the case study topics considered are water issues, The Conservation Reserve Program, the National Conservation Buffer Initiative, the agricultural policy of the European Union, wetland mitigation, and pollution trading. The Law and Policy of Ecosystem Services is a groundbreaking look at the question of whether and how law and policy can shape a sustainable system of ecosystem service management. It is an accessible and informative work for

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faculty, students, and policy makers concerned with ecology, economics, geography, political science, environmental studies, law, and related fields.

This book provides an integrated analysis of the methodologies and main processes occurring at the entire river basin, from upstream until the coast, by merging the biological and hydrological processes with the social and economic components, thus providing an integrated framework for river basin management, integrating the ecohydrology approach with the ecosystem services concept.

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