

Nile Water E-Learning Hub: Training and Education Tools for Capacity Development

The online regional Training Course on:

Nile Wetlands Ecosystems Wise use for Sustainable Development

From 7th February – 21st March 2022

Modules Planning

Module #: Presentation and Content Template

Item	Details
Module Number # Title	Mainstreaming economic valuation into decision making and Introduction to economic valuation concepts and methods
Instructor /Lead Module	Prof. Noha Donia, Dr Mohamed Kamel
Module Moderator	Eng. Noha Sami, Dr. Hanan Farag
Module Facilitator	Dr. Hager Nawar, Eng Mostafa Fathi
Introduction	<p>Ecosystem services are defined as benefits provided by the natural environment that profit people. Although there is no single, agreed method of categorizing all ecosystem services, the Millennium Ecosystem Assessment (MA) framework is widely accepted and is seen as a useful starting point. Ecosystem services provide outcomes that directly or indirectly affect human wellbeing. The ultimate goals of defining and measuring the value of the natural environment are to better inform management decisions and/or influence human behavior, as well as to contribute to better decision-making by ensuring that policy evaluations fully account for the costs and benefits to the natural environment. Some of these ecosystem services are well known including food, fiber, and fuel provision and the cultural services that provide benefit to people through recreation and appreciation of nature. Other services provided by ecosystems are not so well known. These include the regulation of the climate, purification of air and water, flood protection, soil formation, and nutrient cycling. Thus, more efforts are needed to highlight much more clearly the implications of ecosystem services for human wellbeing while providing policy development with new insights.</p>
Module goal	Clarify the main tools and methods of mainstreaming the value of wetlands ecosystems and the services they provide into policy decision-making regarding conserving, managing, and enhancing the natural environment.
Learning Objectives	<ul style="list-style-type: none"> • Provide an introduction to the concept of valuation of wetlands ecosystem services. • Introduce the methodology of economic valuation for provisioning, regulating, cultural and supporting services. • Define the value of ecosystem assets. • Clarify the difference between economic and ecological values. • Identify the key challenges and opportunities in each valuation method while valuing ecosystem services in practice.

Learning activities

Main module material;
Nu. Of Live streaming session;
Discussion form (set of discussion questions) ;
Case studies.....

Resources

Compulsory readings, Recommended Readings, Recommended websites, Recommended Videos

- **Platform discussions:**
 - Explain how economic valuation of a wetland's ecosystem services could impact decision making in your country?
 - What are the main opportunities and challenges in your country of mainstreaming ecosystem valuation in decision making?
- **Compulsory reading:**
 - GEF guidance documents to economic valuation of ecosystem services in IW projects, GEF, 2019
 - The economic, social and ecological value of ecosystem services: a literature review, cbd, 2005
 - Economic valuation of ecosystem services, Katherine Hawkins, University of Minnesota, 2003
- **Recommended References:**
 - Marine and coastal ecosystem services, valuation methods and their practical application, UNEP, 2011
 - An introductory guide to valuing ecosystem services (europa.eu)
 - Valuation of ecosystem services, Emmanuelle Quillérou, ELD Campus, 2019
 - Tools for measuring, modelling, and valuing ecosystem services, IUCN, 2018
 - Calculating the economic values of the ecosystem services provided by Natura 2000 features and sites in Wales, European Community, 2015
 - Economic valuation and the commodification of ecosystem services, Erik Go´mez-Baggethun et al., Progress in Physical Geography, 2011
 - The Economics of Valuing Ecosystem Services and Biodiversity, Unai Pascual et al., 2010
- **Recommended Videos**
 - <https://www.youtube.com/watch?v=0CHIs9dLvxA>
 - <https://www.youtube.com/watch?v=q8AZHtF2f50&t=68s>
 - <https://www.youtube.com/watch?v=M0ZdV5WU5K4>
 - <https://www.youtube.com/watch?v=iTW05vFILXY>
 - https://www.youtube.com/watch?v=_xzmIG4L8s
 - <https://www.youtube.com/watch?v=LkXVCQam5kw>
 - https://www.youtube.com/watch?v=O_m76akZWWo
 - <https://www.youtube.com/watch?v=C7dLbWEmOMY>
 - <https://www.youtube.com/watch?v=fUbSZKVePOg>
 - <https://www.youtube.com/watch?v=EshPNDXe9kl>
- **Recommended websites**
 - [https://www.EcosystemValuation - Dollar-Based Methods.htm](https://www.EcosystemValuation-Dollar-BasedMethods.htm)

	<ul style="list-style-type: none"> • https://www.Contrasting approaches to values and valuation IPBES secretariat.htm • https://www.cbd.int/incentives/valuation.shtml • https://www.unep.org/explore-topics/ecosystems-and-biodiversity/what-we-do/accounting-ecosystems
<p>Assessment Quizzes or other exercises by end of each module (MCQ a set of 10 Q are recommended).</p>	<p>Exercise 1:</p> <ul style="list-style-type: none"> ▪ Mention one of the ecosystems in your country and identify its provided services (provisional, regulating, supporting, athletic). ▪ Provide clear pictures and maps if available. ▪ Define (direct use / indirect use / non-use / option value) of this ecosystem services. ▪ Design a questionnaire for economic assessment of one of its provisional services then make suitable assumptions to valuate these services, using valuation methods and available guidelines. ▪ If you were one of the decision makers, how could you mainstream ecosystem valuation in decision making?