

## **Ecosystem-Based Management**



Social-ecological systems as interlinked, complex, adaptive systems. Source: Gómez et al. (2016)

A process that integrates biological, social and economic factors into a comprehensive strategy aimed at protecting and enhancing sustainability, diversity and productivity of natural resources.

EBM emphasizes the protection of ecosystem structure, functioning and key processes; is place-based in focusing on a specific ecosystem and the range of activities affecting it; explicitly accounts for the interconnectedness among systems, such as between air, land and sea; and integrates ecological, social, economic and institutional perspectives, recognizing their strong interdependences.

By José Carlos Ferreira







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## **Ecosystem Services**

"Ecosystem **goods** (such as food) and **services** (such as waste assimilation) represent **the benefits human populations derive**, directly or indirectly, **from ecosystem functions**. (...) Ecosystem services consist of flows of materials, energy, and information from natural capital stocks which combine with manufactured and human capital services to produce human welfare."

Costanza et al., 1997

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## **Ecosystem Services**









![](_page_4_Picture_1.jpeg)

## **Green Infrastructure**

"Green infrastructure is a strategically planned network of natural and semi-natural areas with other environmental features designed and managed to deliver a wide range of **ecosystem services** such as water purification, air quality, space for recreation and climate mitigation and adaptation."

European Commission, 2013

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![](_page_4_Figure_5.jpeg)

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![](_page_5_Picture_0.jpeg)

![](_page_5_Picture_1.jpeg)

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