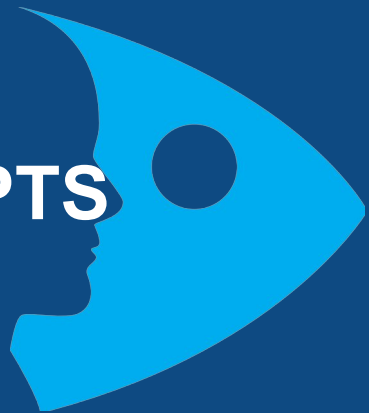


# Ecosystem Services Valuation Overview



Arantza Murillas-Maza  
[amurillas@azti.es](mailto:amurillas@azti.es)  
(WP4 coordinator)

# CONCEPTS



- ✓ Ecosystem Services (ES) framework
- ✓ Conceptualization of multiple values of nature
- ✓ Ocean Accounts structure adding ES
- ✓ The loss of ES
- ✓ ES timeline
- ✓ DiadES wp4 general overview

# ES framework linked to Well-being

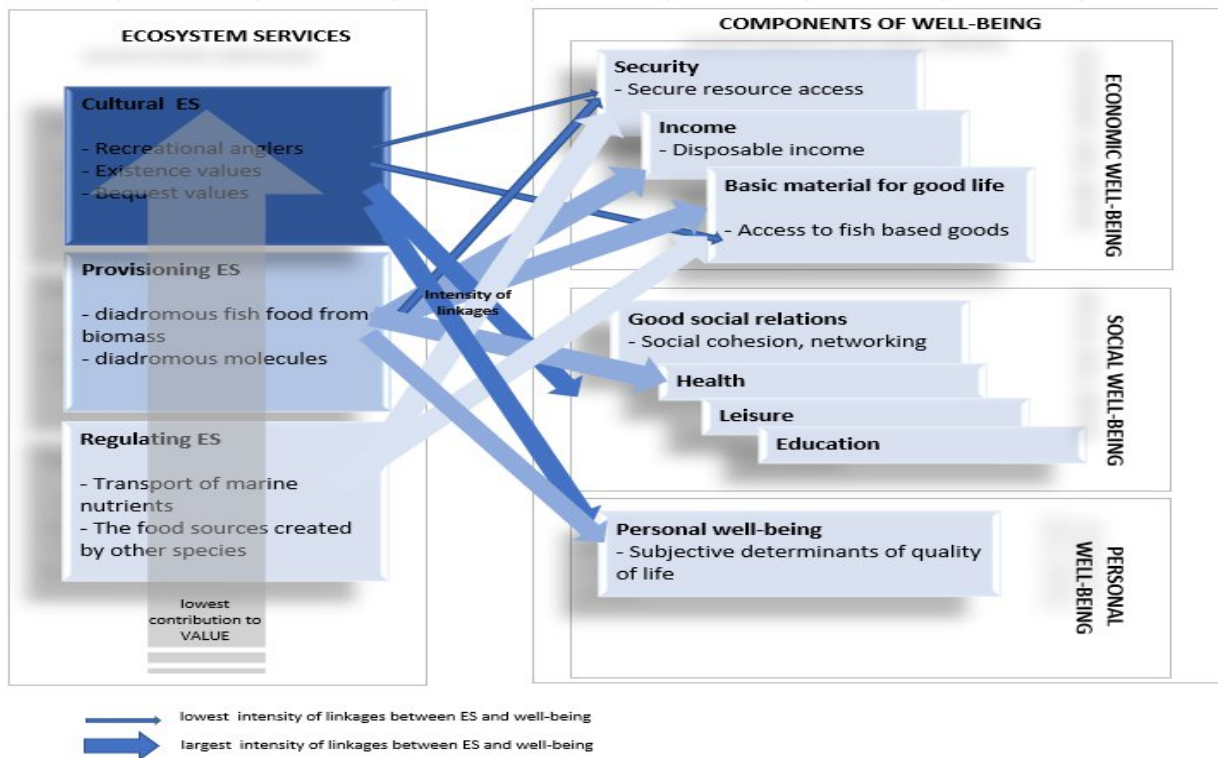


Fig. Adapted from MES 2015 and Chicharo and Fohrer, 2015

# Multiple values of nature

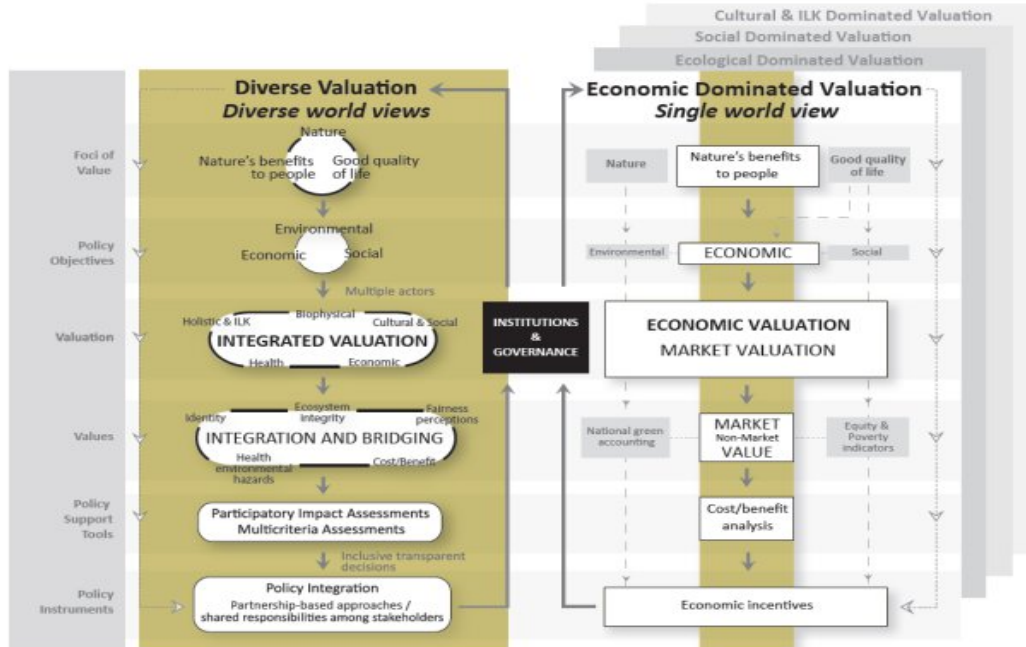
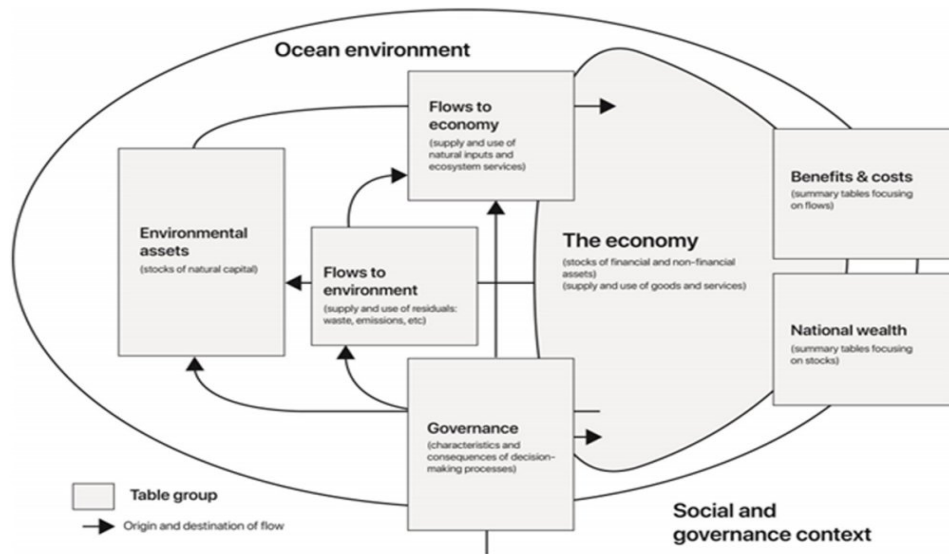


Fig. IPBES, 2015

- ✓ Left side: pluralistic notion of value
- ✓ Right side: monistic approach
- ✓ DiadES emphasizes a valuation dominated by an economic view based on **market prices**.  
 ↓  
**Signal the value of ES**
- ✓ DiadES also find ways to incorporate **non-market monetary values**  
 ↳ **Accounting natural capital**

# Ocean Accounts structure

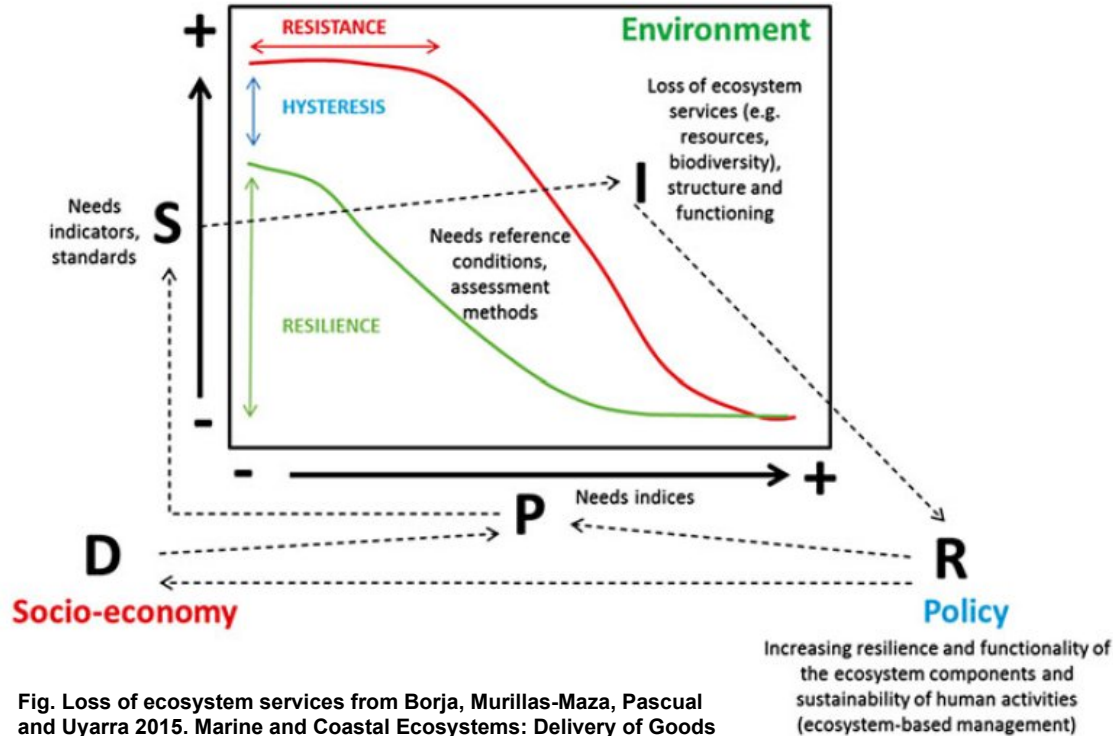


An environmental asset account could be compiled through ecosystem accounting, with flows to the economy measured through ECOSYSTEM SERVICES.

**Fig. General structure of the Ocean Accounts Framework** adapted from the Technical Guidance on Ocean Accounting.

Gacutan, Galparsolo, Pinarbasi, Murillas et. al. 2022. Marine Policy 136 AND Marine Policy 140

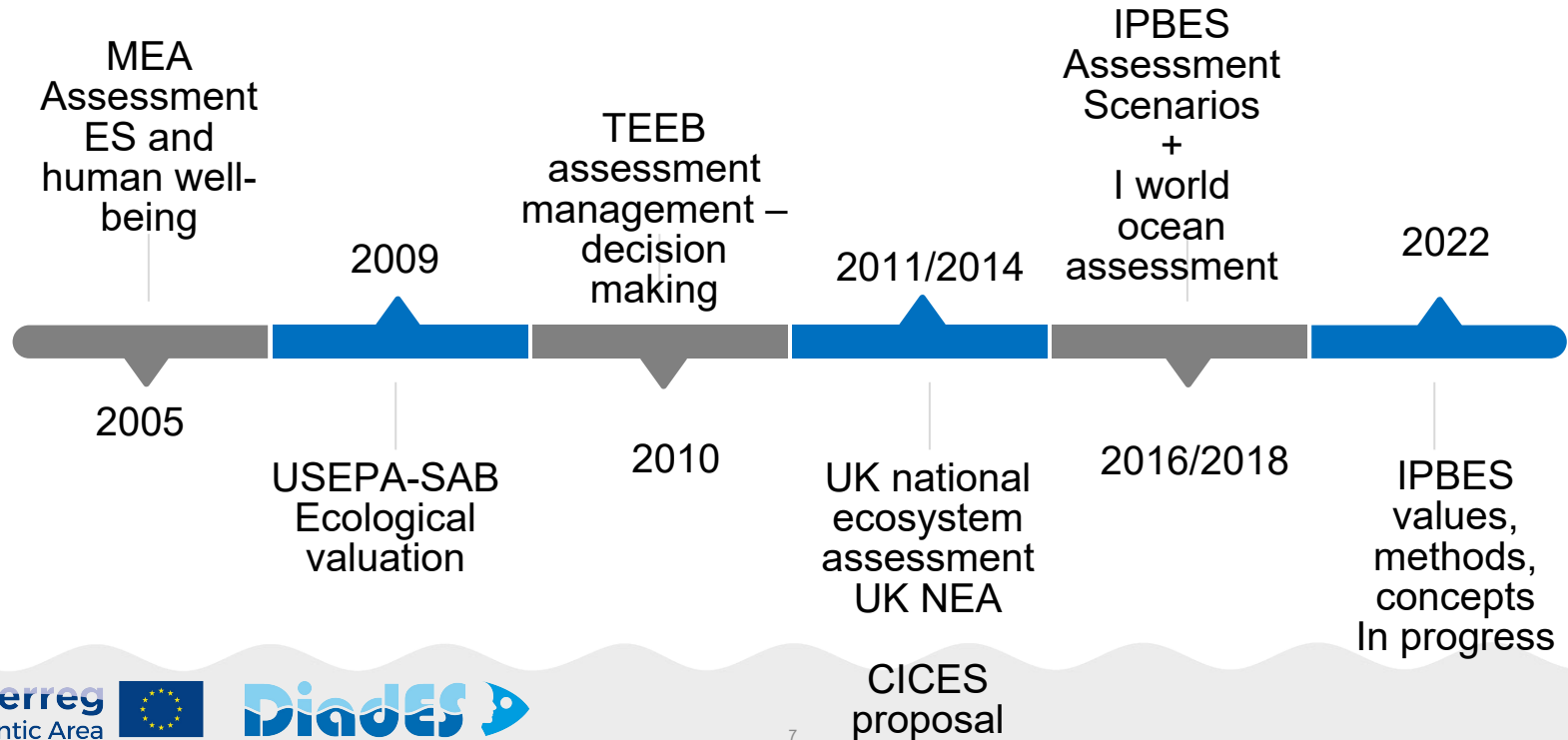
# Loss of ecosystem services



Evaluating the loss of ecosystem services provided by ecosystems can provide a new understanding of the impacts produced.

Fig. Loss of ecosystem services from Borja, Murillas-Maza, Pascual and Uyarra 2015. Marine and Coastal Ecosystems: Delivery of Goods and Services, Through Sustainable Use and Conservation. In Ecosystem Services and River Basin Ecohydrology edited by Chicharo and Fohrer.

# Ecosystem Services timeline



## DiadES General aim

---



**“Change in perception on diadromous fish-related benefits”**



**Interreg**  
Atlantic Area  
European Regional Development Fund



EUROPEAN UNION

**DiadES** 



# DiadES general overview

- **ES identification.** The EU Atlantic Area's (AA's) rivers provide numerous **benefits to the society** known as **ecosystem services (ES)**. AA's rivers support diadromous fish populations which are valued for use and non-use aims
  
- **Enhancement of methods** for the economic assessment of fish diadromous ES: to be commonly applied across rivers in the AA
  
- **Monetary evaluation.** The total economic value that will be obtained should represent a novel measure of the **contribution of diadromous fish to the overall social welfare** and in that sense, may be transferred to policy-makers when developing environmental policies in the future



Boat working at the level of the town of Pontecesures (Spain)

Thanks for your attention!

