

03.2

Tecniche di valutazione



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Due famiglie di metodi di valutazione

Metodi di valutazione basati sull'analisi dei valori di mercato

E' possibile utilizzare il valore monetario di beni o servizi uguali o analoghi a quelli considerati.

Nel caso non esista un mercato per tali beni e servizi, si può ricorrere a stime basate sui costi:

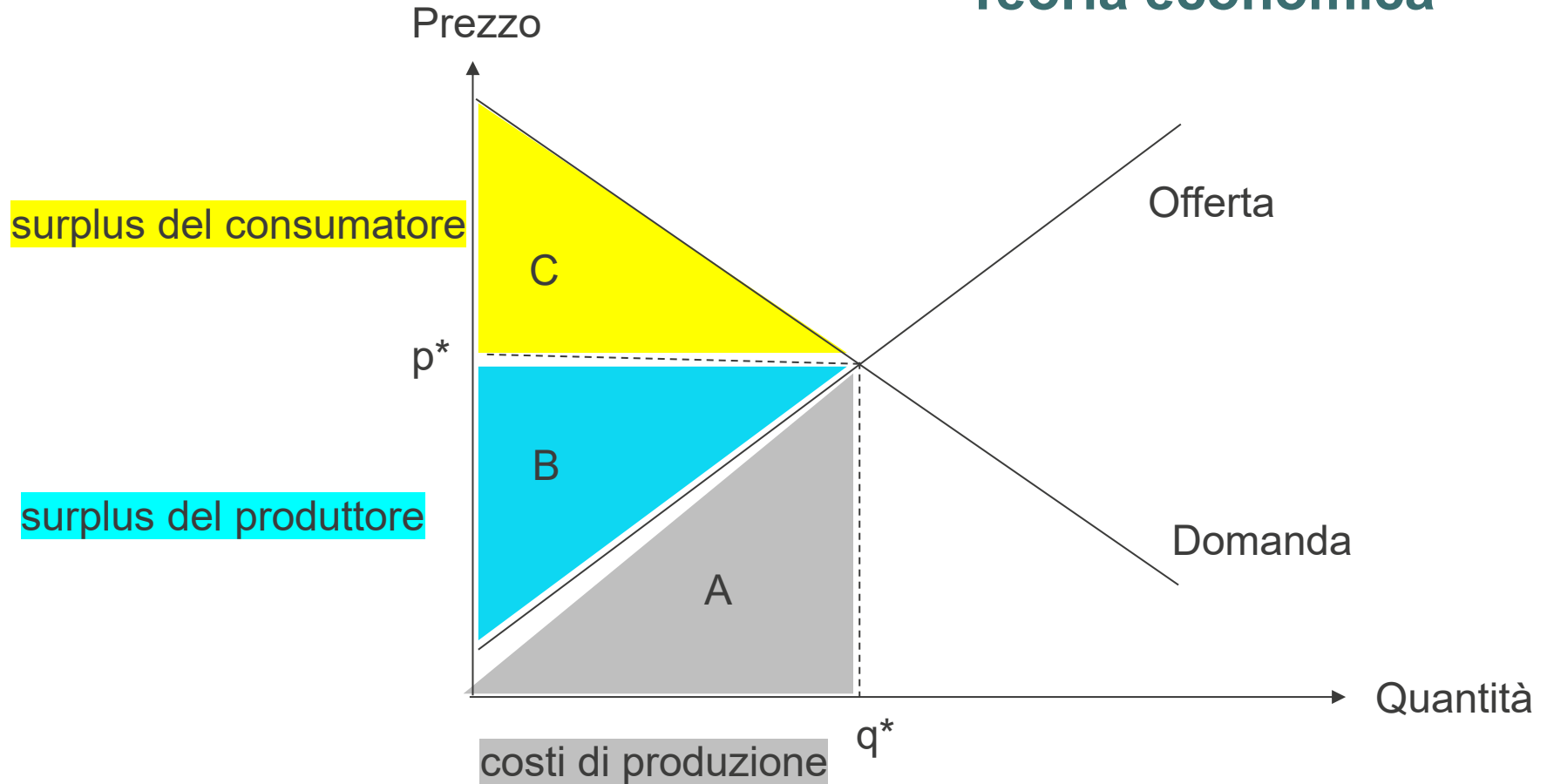
- costo di surrogazione*
- costo di ripristino*
- costo del danno evitato*
- spese difensive*

Metodi valutazione basati sulla costruzione di una curva di domanda

Si tratta di metodi basati su mercati ipotetici dove viene simulato quale potrebbe essere il comportamento dei consumatori al variare della disponibilità e del prezzo del bene.

Questi si applicano (di solito ma non solo) quando non esiste un mercato reale di riferimento. A seconda che il valore attribuito al bene venga direttamente chiesto ai fruitori o che sia desunto dal loro comportamento reale si distinguono i metodi a preferenze espresse (metodi diretti) da quelli a preferenze rivelate (metodi indiretti).

Teoria economica



Metodi valutazione basati sulla costruzione di una curva di domanda

metodi indiretti: preferenze rivelate

La domanda viene «dedotta» analizzando le scelte dei consumatori => si riferiscono a comportamenti reali da parte del consumatore in mercati esistenti

- *Metodo del costo del viaggio*
- *Metodo del prezzo edonico*

metodi diretti: preferenze dichiarate

Il mercato è ipotetico => si stima la disponibilità a pagare o ad accettare una compensazione

- *Metodo di valutazione contingente*
- *Metodo del Choice Experiment*

03.3

Tipologie di studio



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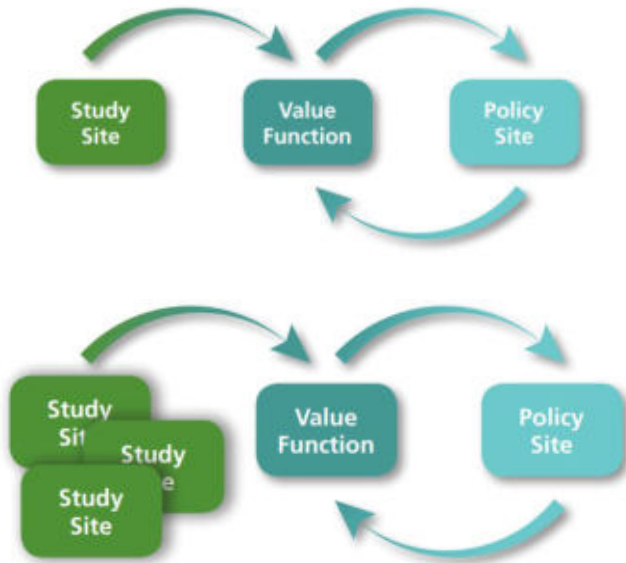
Benefit Transfer



Il metodo di trasferimento dei benefici è utilizzato per stimare i valori economici dei servizi ecosistemici trasferendo informazioni disponibili da studi già completati in un'altra località e/o contesto

L'obiettivo è stimare i benefici per un contesto adattando una stima dei benefici di un altro contesto.

Il trasferimento dei benefici è spesso utilizzato quando è troppo costoso e/o c'è troppo poco tempo a disposizione per condurre uno studio di valutazione originale, eppure è necessaria una misura di benefici.



<https://www.esvd.net/>



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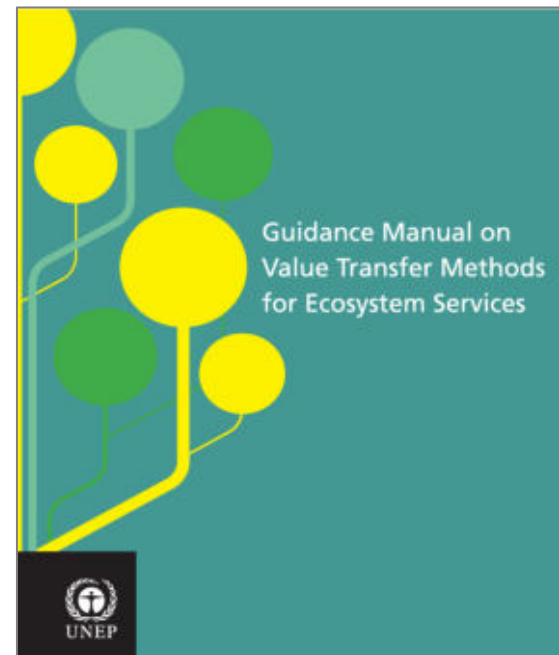
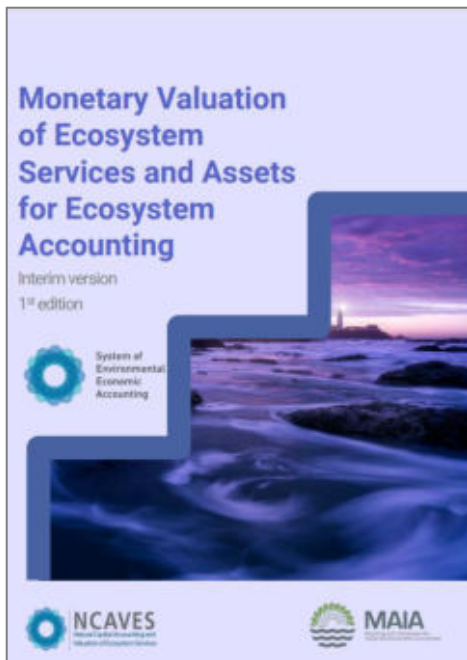


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14/09/2026

Quantificazione, valutazione e contabilizzazione dei servizi ecosistemici



- https://seea.un.org/sites/seea.un.org/files/techreportvaluationv15_final_21072022.pdf
- https://www.lifemgn-serviziecosistemici.eu/IT/Documents/LIFE+MGN_Manuale_IT.pdf
- <https://www.unep.org/resources/report/guidance-manual-value-transfer-methods-ecosystem-services>

04

Come si contabilizzano i servizi ecosistemici



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<https://seea.un.org/en/methodology/ecosystem-accounting>



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System of Environmental Economic Accounting

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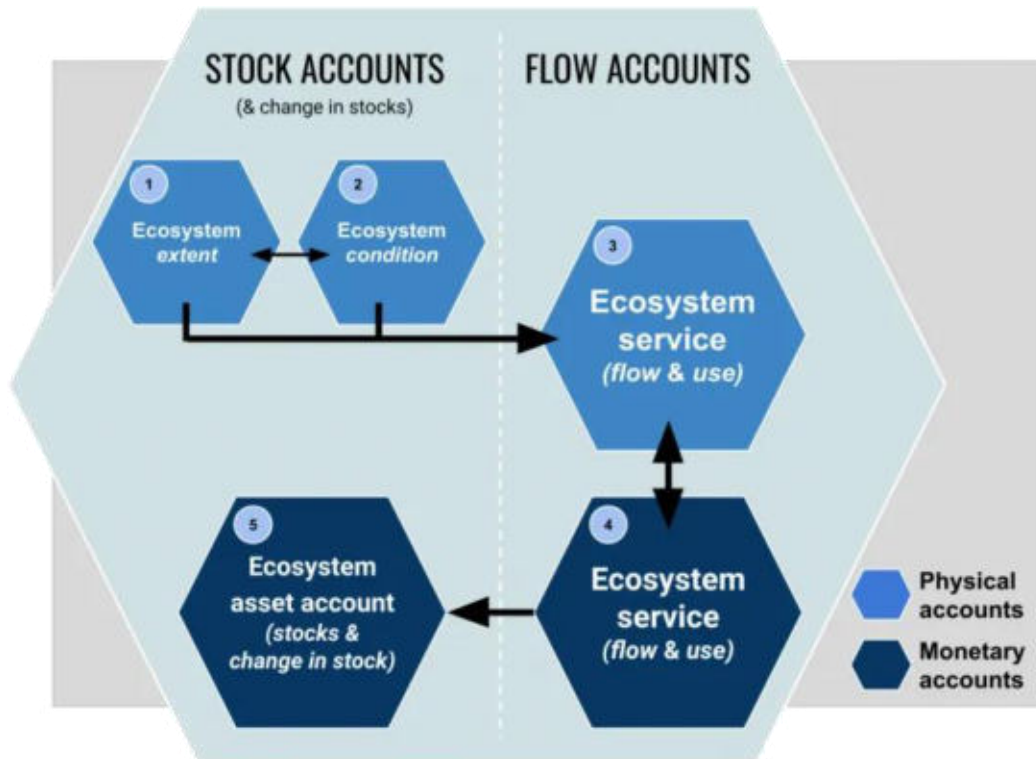
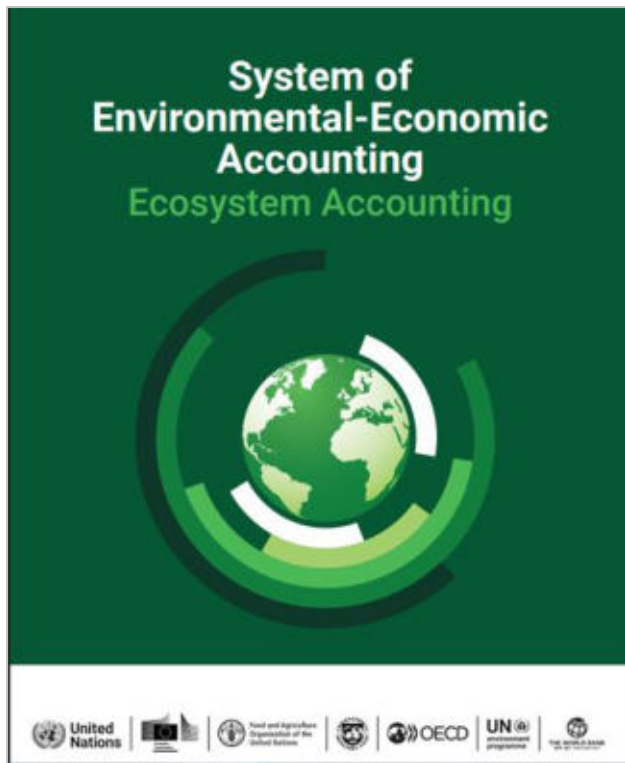
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Ecosystem Accounting



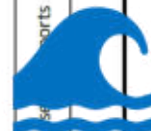


SUPPLY		UNIT OF MEASURE	PROVISIONING SERVICES	REGULATING AND MAINTENANCE SERVICES	CULTURAL SERVICES																																																																																																																																																																																																																																																																																																																																																																																																						
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Cultural services - Recreation-related services - Visual amenity services - Education, scientific and research services - Spiritual, artistic and symbolic services - Other cultural services			ENG of the NICH Global Ecosystem Typology <table border="1"> <thead> <tr> <th colspan="2">Terrestrial</th> <th colspan="2">Freshwater</th> <th colspan="2">Marine</th> </tr> <tr> <th>TT</th> <th>FLS</th> <th>FLS</th> <th>FLS</th> <th>FLS</th> <th>FLS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> <tr> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>6</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> </tr> <tr> <td>7</td> <td>7</td> <td>7</td> <td>7</td> <td>7</td> 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Tabella Risorse – Colonne: Tipologie di Ecosistemi

[illegible]

Selected ecosystem types (based on Level 3 - EFG of the IUCN Global Ecosystem Typology)																	
Terrestrial											Freshwater			Marine			
T1 Tropical-subtropical forests				T2 Temperate-boreal forests and woodlands							F1	--	FM1	M1	--	MFT1	
Tropical-subtropical lowland rainforests	Tropical-subtropical dry forests and scrubs	Tropical-subtropical montane rainforests	Tropical heath forests	Boreal and temperate high montane forests and woodlands	Deciduous temperate forests	--	Temperate pyric sclerophyll forests and woodlands				Derived semi-natural pastures and old fields	Permanent upland streams	--	Intermittently closed and open lakes and lagoons	Seagrass meadows	--	Coastal saltmarshes and reedbeds
T1.1	T1.2	T1.3	T1.4	T2.1	T2.2	--	T2.6	--	--	--	T7.5	F1.1	--	FM1.3	M1.1	--	MFT1.3
Total Supply resident ecosystem assets																	
Supply from non-resident ecosystem assets																	
Total Supply ecosystem services																	
TOTAL SUPPLY																	



<https://global-ecosystems.org/>

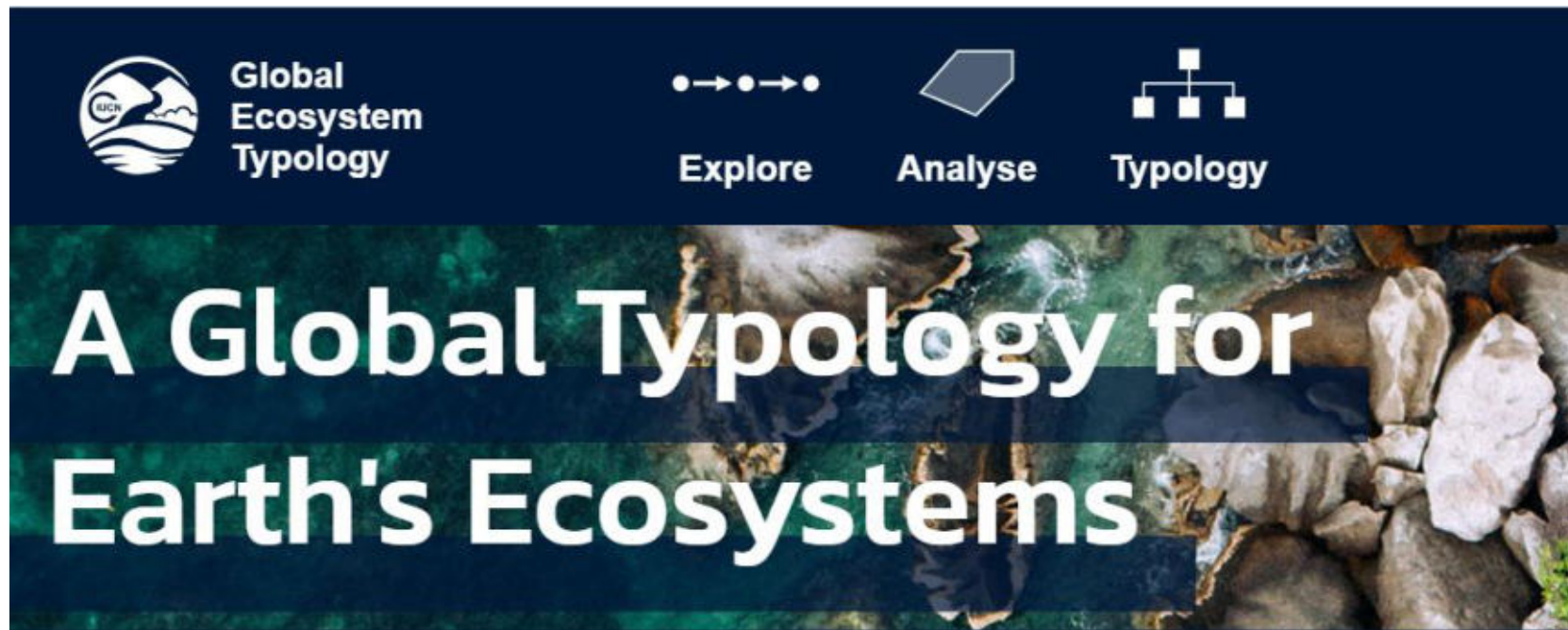


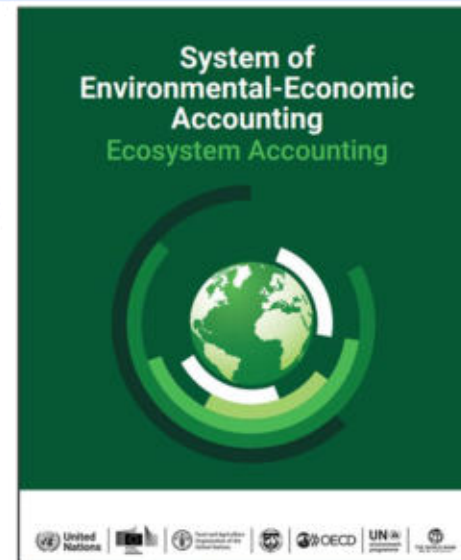
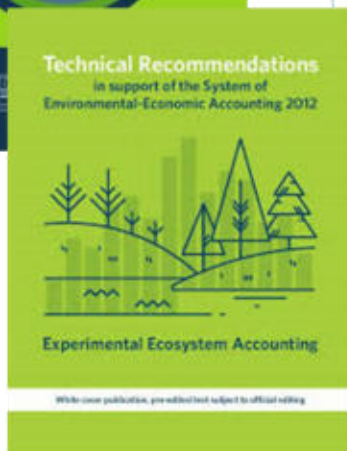
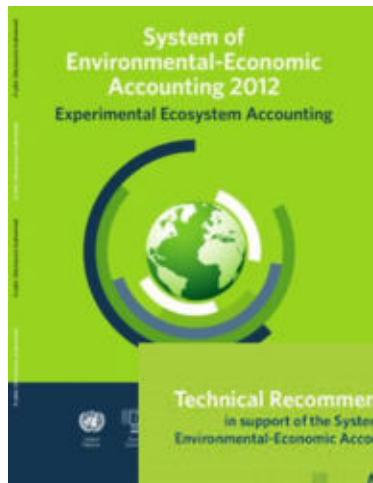
Tabella impieghi – Righe: Servizi Ecosistemici

SUPPLY		UNITS OF MEASURE	
Provisioning services			
Biomass provisioning	Crop provisioning		
	Grazed biomass provisioning		
	Livestock provisioning services		
	Aquaculture provisioning services		
	Wood provisioning services		
	Wild fish and other natural aquatic biomass provisioning services		
	Wild animals, plants and other biomass provisioning services		
Genetic material services			
Water supply			
Other provisioning services			
Regulating and maintenance services			
Global climate regulation services			
Rainfall pattern regulation services			
Local (micro and meso) climate regulation services			
Air filtration services			
Soil quality regulation services			
Soil and sediment retention services			
Solid waste remediation services			
Water purification services			
Water flow regulation services			
Flood control services			
Storm mitigation services			
Noise attenuation services			
Pollination services			
Biological control services			
Nursery population & habitat maintenance services			
Other regulating and maintenance services			
Cultural services			
Recreation-related services			
Visual amenity services			
Education, scientific and research services			
Spiritual, artistic and symbolic services			
Other cultural services			

ERG of the IUCN Global Ecosystem Typology						
Ecosystem type	ET	Provisioning		Regulating		
		PL	ENL	ENL	ENL	ENL
1	1	1	1	1	1	1
2	2	1	1	1	1	1
3	3	1	1	1	1	1
4	4	1	1	1	1	1
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250	250	1	1	1	1	

Tabella impieghi – Colonne: Settori Economici

USE	UNIT OF MEASURE	Selected economic units										Selected ecosystem types (Based on Level 3 - EPT of the IUCN Global Ecosystem Typology)										TOTAL USE
		Selected industries										Terrestrial										
		Agriculture	Forestry	Fisheries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning supply	Water supply; sewerage, waste management and remediation activities	Services	Other industries	Total industry	T1 Tropical-subtropical forests	T2 Temperate forest lands and woodlands	T3 Temperate forest lands and woodlands	T4	T5	T6	T7	T8	T9	T10	
Selected ecosystem services (reference list)																						TOTAL USE
Producing services																						
Business processing																						
Crop processing																						
Livestock processing services																						
Aquaculture processing services																						
Wood processing services																						
Wild fish and other natural aquatic business processing services																						
Wild animals, plants and other business processing services																						
Service material services																						
Waste supply																						
Other producing services																						
Regulating and maintenance services																						
Global climate regulation services																						
Rural climate regulation services																						
Local (terrestrial and marine) climate regulation services																						
Air filtration services																						
Soil quality regulation services																						
Soil and sediment retention services																						
Soil erosion reduction services																						
Water purification services																						
Waste flow regulation services																						
Flood control services																						
Waste management services																						
Noise attenuation services																						
Pollination services																						
Biological control services																						
Nursery propagation & habitat maintenance services																						
Other regulating and maintenance services																						
Cultural services																						
Recreation-related services																						
Visual amenity services																						
Education, scientific and research services																						
Spiritual, artistic and symbolic services																						
Other cultural services																						
Selected economic units																						
Agriculture																						
Forestry																						
Fisheries																						
Mining and quarrying																						
Manufacturing																						
Electricity, gas, steam and air conditioning supply																						
Water supply; sewerage, waste management and remediation activities																						
Services																						
Other industries																						
Total Industry																						
Government consumption																						
Household consumption																						
Total use by resident economic units																						
Exports - final ecosystem services																						
Total Use by economic units																						





2024/3024

6.12.2024

REGOLAMENTO (UE) 2024/3024 DEL PARLAMENTO EUROPEO E DEL CONSIGLIO

del 27 novembre 2024

che modifica il regolamento (UE) n. 691/2011 per quanto riguarda l'introduzione di nuovi moduli di contabilità economica ambientale

► B



REGULATION (EU) No 691/2011 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 6 July 2011

on European environmental economic accounts

(Text with EEA relevance)

(OJ L 192 22.7.2011, p. 1)

Amended by:

		No	Official Journal page	date
► M1 ↓	REGULATION (EU) No 538/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014	L 158	113	27.5.2014
► M2 ↓	COMMISSION DELEGATED REGULATION (EU) 2022/125 of 19 November 2021	L 20	40	31.1.2022
► M3 ↓	REGULATION (EU) 2024/3024 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 November 2024	L 3024	1	6.12.2024
► M4 ↓	COMMISSION DELEGATED REGULATION (EU) 2025/1131 of 26 March 2025	L 1131	1	4.6.2025
► M5 ↓	COMMISSION DELEGATED REGULATION (EU) 2025/1131 of 26 March 2025	L 1131	1	4.6.2025





2024/3024

6.12.2024

REGOLAMENTO (UE) 2024/3024 DEL PARLAMENTO EUROPEO E DEL CONSIGLIO

del 27 novembre 2024

che modifica il regolamento (UE) n. 691/2011 per quanto riguarda l'introduzione di nuovi moduli di contabilità economica ambientale

Stock di apertura

Δ

+ aumento

- diminuzione

Stock di chiusura

Estensione degli ecosistemi:

- 12 tipologie (ogni 3 anni)
- 49 tipologie (livello 2)

Tipo di ecosistema
Insedamenti e altre aree artificiali
Terre coltivate
Formazioni erbose (pascoli, formazioni erbose seminaturali e naturali)
Boschi e foreste
Brughiere e arbusteti
Ecosistemi a vegetazione rada
Zone umide interne
Fiumi e canali
Laghi e bacini
Insenature marine e acque di transizione
Spiagge, dune e zone umide costiere
Ecosistemi marini (acque costiere, di piattaforma e di mare aperto)



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Ecosystem Extent Accounts

Dashboard | Published 17 Feb 2021 | Modified 23 Mar 2021

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Ecosystem Extent Accounts are derived from the Copernicus Land Monitoring Service Corine Land Cover datasets every six years from 2000 till 2018. They describe the extent of various ecosystem types in the EEA38+UK region and how they change over time.



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14/09/2026

Quantificazione, valutazione e contabilizzazione dei servizi ecosistemici

51



2024/3024

6.12.2024

REGOLAMENTO (UE) 2024/3024 DEL PARLAMENTO EUROPEO E DEL CONSIGLIO

del 27 novembre 2024

che modifica il regolamento (UE) n. 691/2011 per quanto riguarda l'introduzione di nuovi moduli di contabilità economica ambientale

Condizione degli ecosistemi: 9 indicatori (ogni 3 anni)

Stock di apertura

Δ + aumento

- diminuzione

Stock di chiusura

- aree verdi in grandi città e città medie, cinture urbane contigue in percentuale (%) sulla superficie totale
- concentrazione di particolato, con un diametro fino a 2,5 µm nelle grandi città
- stock di carbonio organico nello strato superficiale del suolo è indicato in tonnellate/ettaro per terre coltivate (1) e formazioni erbose (2)
- indice dell'avifauna comune nelle aree agricole (1) e nelle aree boschive (2)
- legno morto in m3/ettaro
- densità della copertura arborea in percentuale (%)
- copertura di aree impermeabili artificiali in percentuale (%)



2024/3024

6.12.2024

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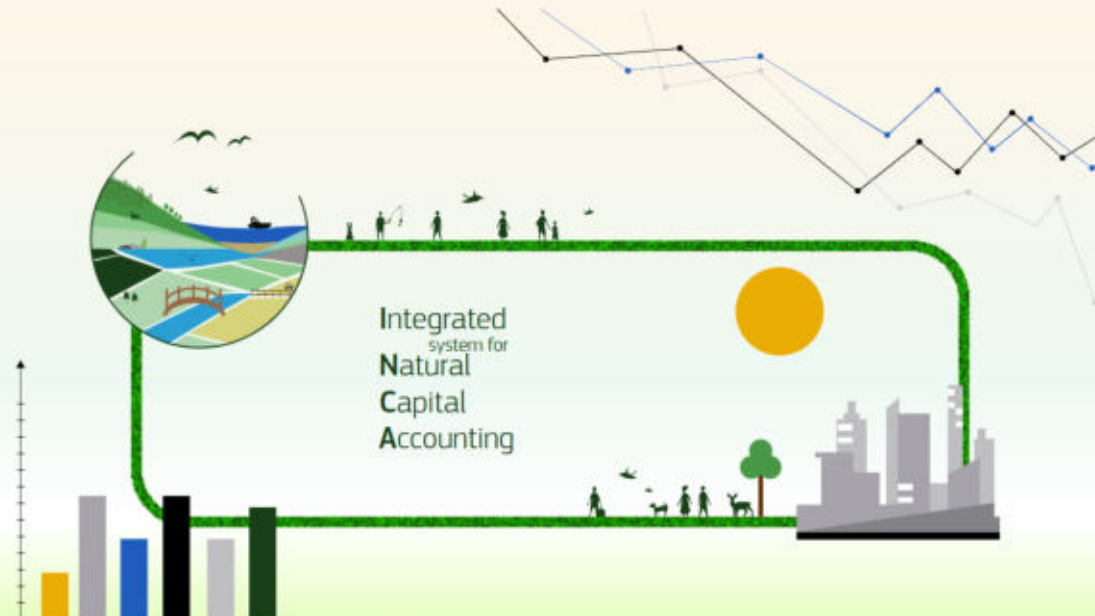
Servizi Ecosistemici: 7 servizi (ogni anno)

- fornitura di prodotti delle coltivazioni
- impollinazione agricola
- fornitura di legno
- filtrazione dell'aria
- regolazione del clima a livello globale
- regolazione del clima a livello locale
- turismo naturalistico



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Integrated system for Natural Capital Accounting

Ecosystem services map viewer

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Accounting tables

-- Select --  

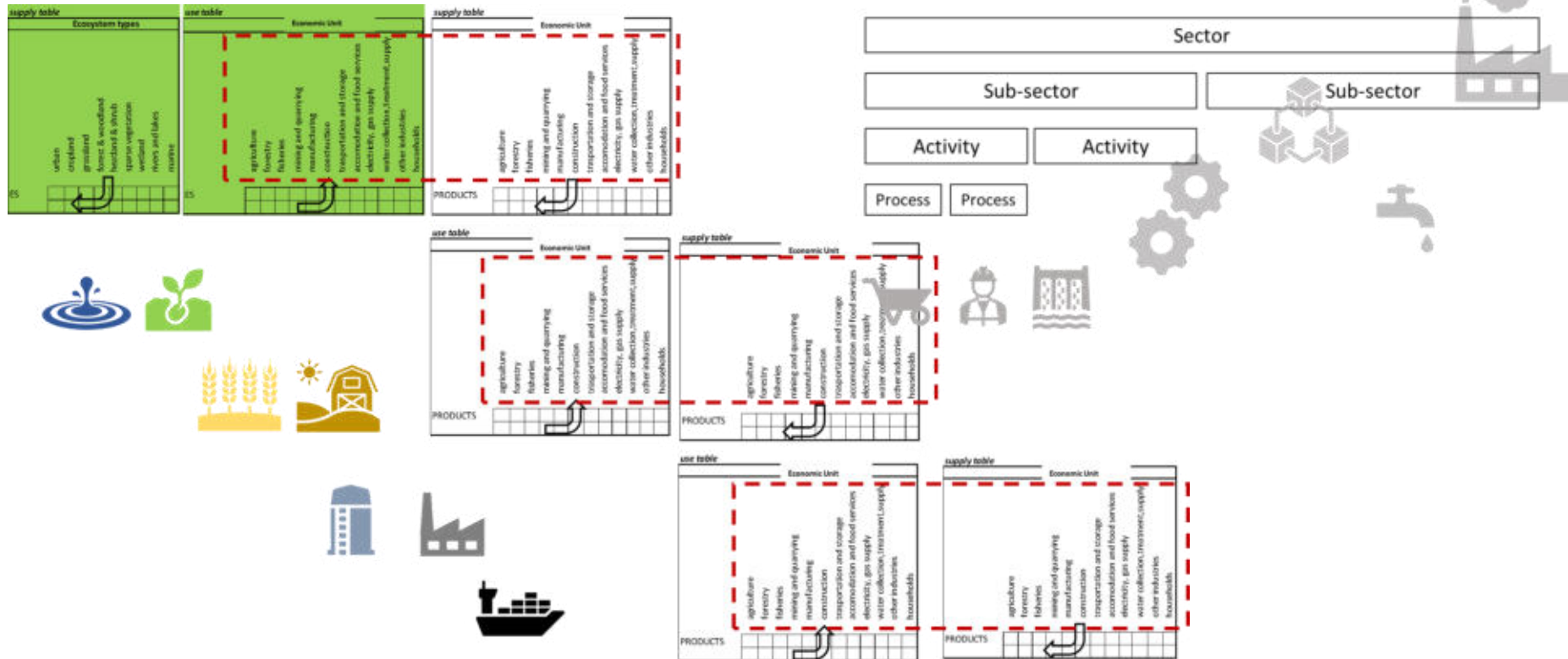
Complementary tables

-- Select --  

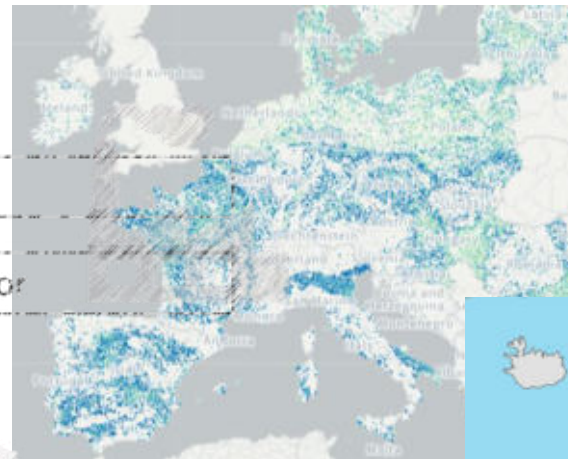
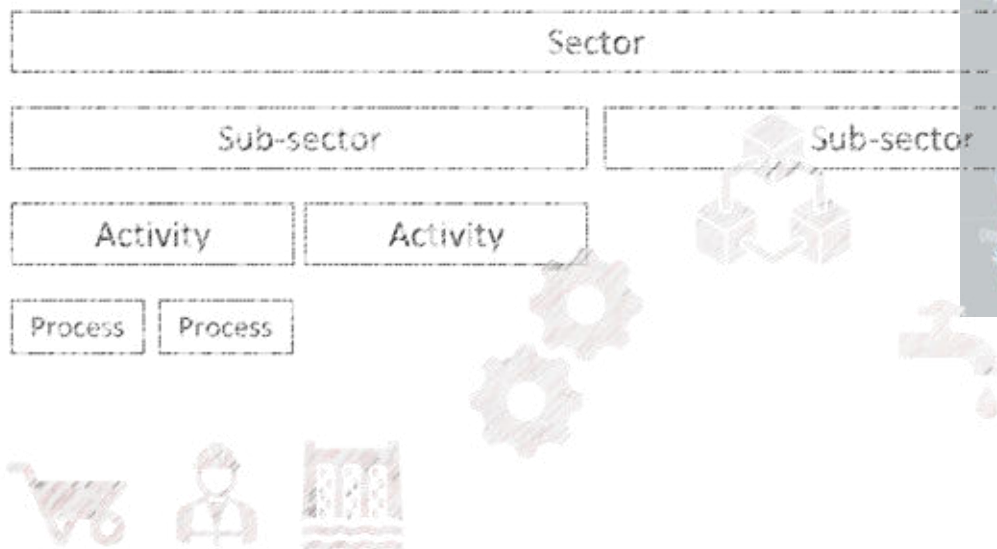
[EU Aggregates](#)

INCA tool

Il collegamento «diretto» con i conti economici



La distribuzione spazialmente esplicita dei servizi ecosistemici

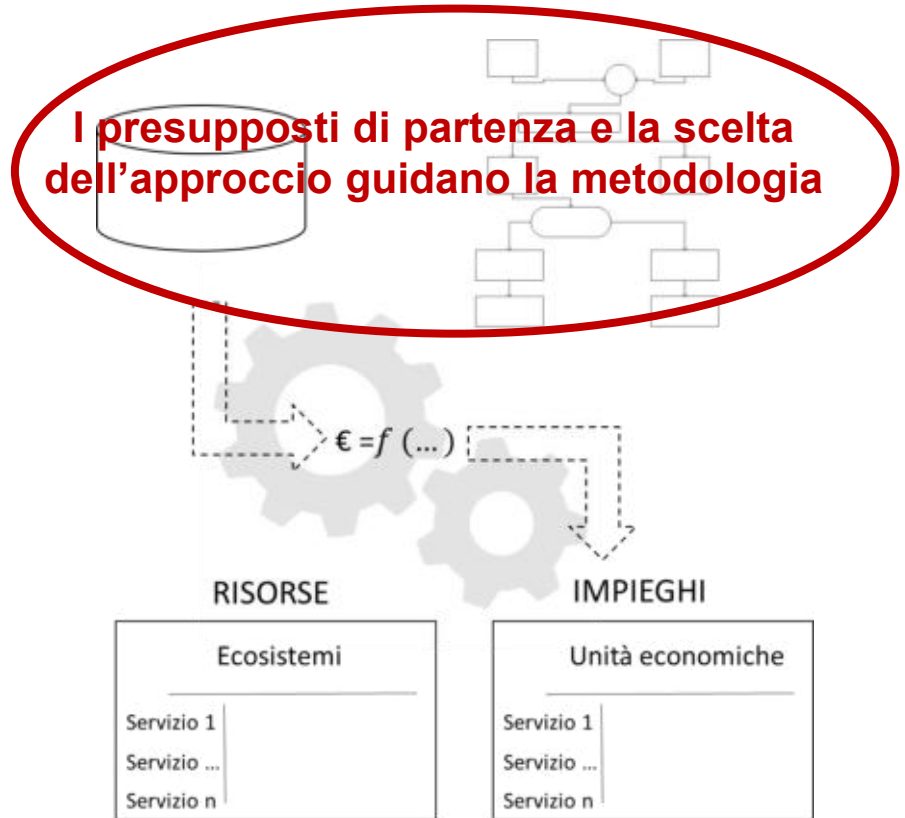


Riassunto conclusivo

Quantificazione in
termini fisici

Valutazione in
termini monetari

Compilazione delle
tabelle contabili





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Grazie per l'attenzione!