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Climate & Sustainability

Use Case |
Natural Capital Accounting



Natural Capital Accounting according to the UN SEEA framework

Applying ecosystem services accounting to inform sustainable economic planning

Project scope

The Client asked Deloitte to support in the **calculation** of its natural capital and its ecosystem services.

Deloitte Climate & Sustainability applied the **United Nation System of Environmental-Economic Accounting** (UN SEEA) for the Client's natural capital and ecosystem services, adopting an innovative approach relevant for **financing, modeling and valuing nature-based solutions**. This ensured that **Nature's Contributions to People (NCP) is integrated into the Client's economic framework**, promoting sustainable growth and economic development.

Deliverables

- A QGIS shapefiles mapping land use, ecosystem health, and natural capital value
- B Tables of ecosystem condition with key and aggregated indicators
- C Flow tables linking ecosystems, services, and economic sectors
- D Physical Supply and Use Tables tracking ecosystem service flows to economic sectors
- E Monetary Supply and Use Tables showing ecosystem service value across sectors

Main Activities

Ecosystem extent and condition:



Conducted an analysis of existing **habitat mapping data** and **QGIS files** to categorize habitats into ecosystems, following the international classification recommended by the **UN SEEA framework** (IUCN Global Ecosystem Typology). This included identifying ecosystems impacted by built-up areas.



Assessed the condition of **10 ecosystems** by analysing abiotic and biotic data and normalising these findings according to reference values in the literature to establish a baseline for ecosystem health for the Client's area (2021-2023).

Ecosystem service mapping and monetary valuation



Mapped different ecosystem services provided by the different ecosystems in the Client's area and feeding into different economic sectors, among which **Tourism was the most relevant**.



Performed a **monetary valuation of 13 ecosystem services** using different methods and following the UN SEEA framework approach.



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