

Role of economics in marine natural capital approaches

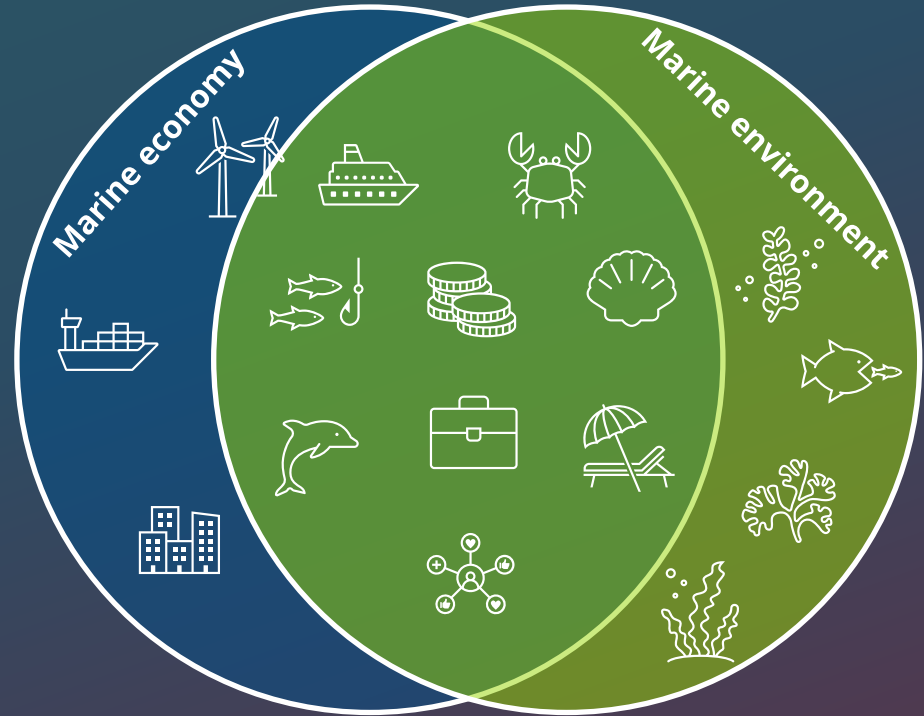
For The Parliamentary and Scientific Committee, 9 February 2026

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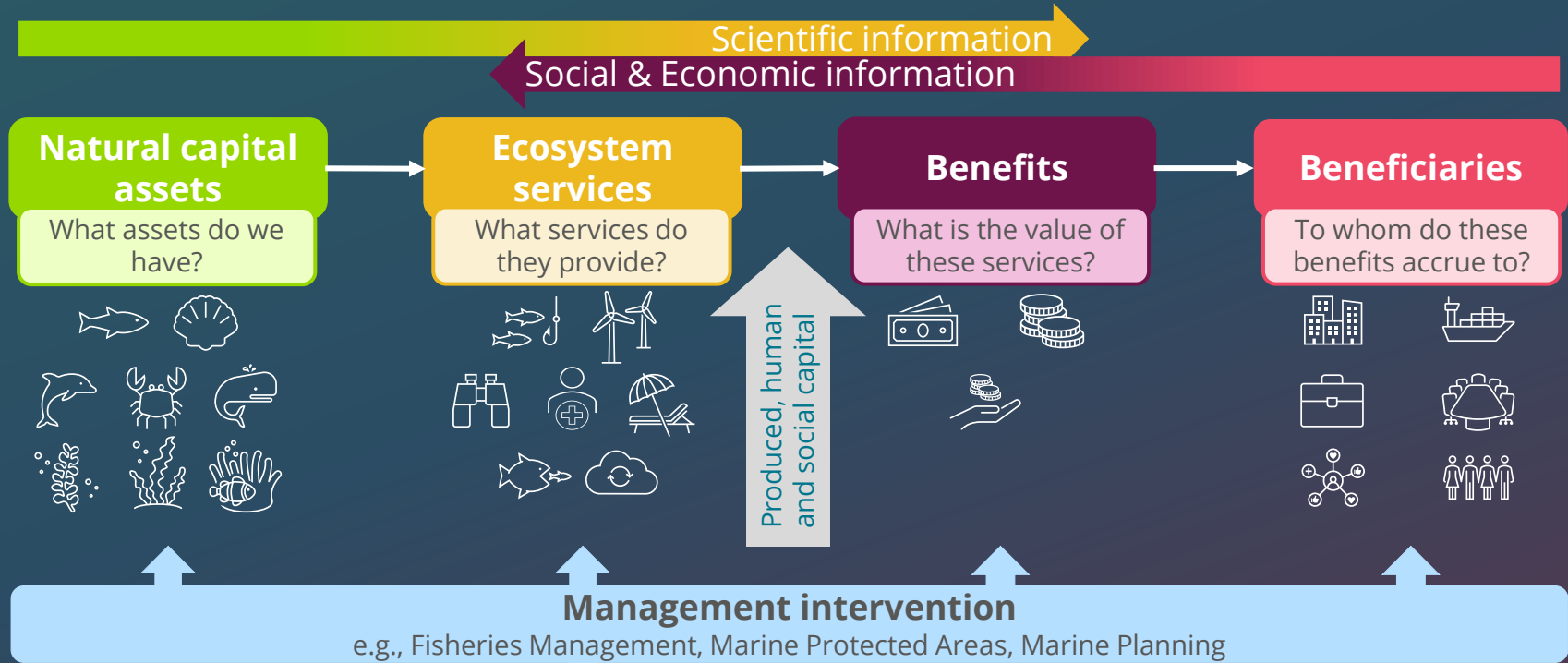


The Marine Economy & a healthy Marine Environment are linked

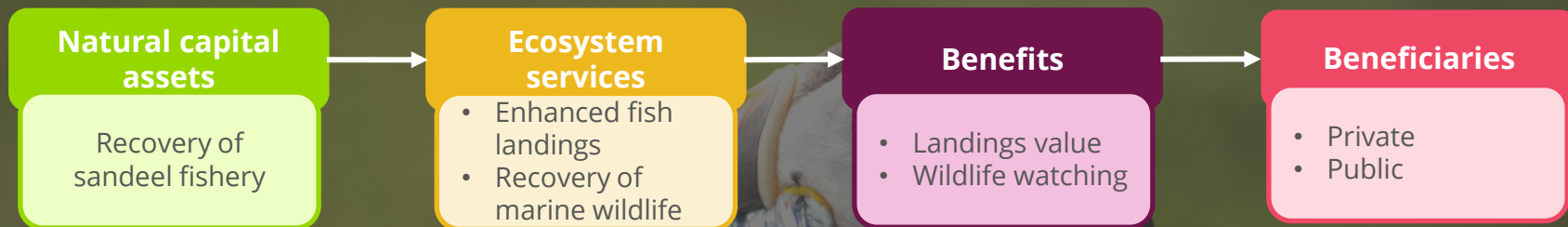
- Our economy and society **impacts and depends** on the environment:
 - Science helps create the links
 - Economics shows trade-offs
- A healthy and resilient marine environment supports livelihoods:
 - Income
 - Jobs
 - Health & wellbeing



Natural Capital approach requires interdisciplinary information

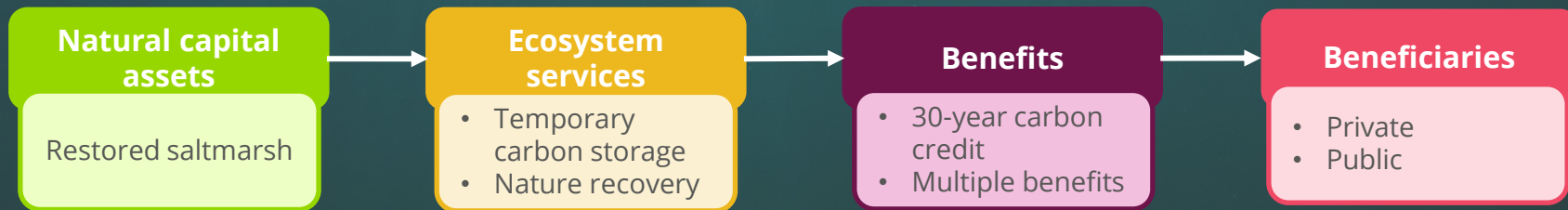


Natural Capital Assessment for UK North Sea Sandeel Fishery



- Ecological model to quantify food-web effects over time from the reduction or halt of sandeel fishing in an area of UK waters (ICES rectangle IV):
 - Fish stocks (feeding on sandeels and others) remain stable
 - Marine wildlife recovery includes seabirds, seals and whales
- Impacts on fish landings (tonnes) and value (£) show short-term losses (2-5 years), with the sector recovering over the medium term (10-15 years) and long term (30+ years)
- Contributed to the government's decision to prevent any fishing of the UK's Sandeel quota.

Sea the Value – Valuing Saltmarsh Restoration



- Economic valuation enables the understanding of the size, timing and beneficiaries of values from marine restoration
- Informs appropriate investment and financing approaches
- Key issues:
 - Marine and coastal habitat restoration benefits have high uncertainty
 - Adjust valuations to reflect outcome uncertainty
 - Climate change and SLR may mean 50- or 100-year nature credits are untenable
 - Covering ecosystem restoration costs challenging with revenues from one type of credit

Summary of key messages

- A healthy and resilient marine environment goes hand-in-hand with a healthy economy, supporting businesses, livelihoods and achieving Government goals/commitments
- Using scientific, social and economic information together supports better management & investment decisions
- To continue to support livelihoods need to treat nature as an asset
 - Better management to maintain and sustain benefits
 - Investment to enhance and restore
- All decisions have trade-offs it's the role of economics to showcase these and their implication to decision-makers across policy and industry

Links to project examples and other references

- Referenced Examples

- Sea The Value, [for UK Research and Innovation](#) (2022-2025)
- Natural capital analysis for UK North Sea Sandeels Fishery, [for Natural England](#) (2021-22)

- Other project examples

- Framework to quantify the economic value of impacts on marine species, [for Defra](#) (2024)
- Just Transition Framework for UK Fisheries, [for Blue Marine Foundation](#) (2024)
- Ecosystem service impacts of bottom-towed fishing, [for Blue Marine Foundation](#) (2024)
- Review of marine Natural Capital for UK environmental policy and management, [for JNCC](#) (2022)
- Cost benefit analysis of the Marine Environmental Data & Information Network, [for MEDIN](#) (2019)

- Other references

- The Green Book appraisal guidance, and supplementary guidance(s), [by HM Treasury](#) (2026)
- Enabling a Natural Capital Approach (ENCA) guidance, databooks and case studies, [compiled by Defra](#) (updated regularly)
- Marine and coastal margins natural capital accounts for the UK, [by ONS](#) (2025)

Thank you



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