

Supporting Coastal Communities 'Sea the Value' of Marine **Restoration Initiatives**

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Marine Natural Capital Navigators Spring Meeting, Friday 14 March 2025, 14:00-15:00

www.seathevalue.org



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Natural Environment Research Council



Economic and Social Research Council







Sea the Value Aims & Project Team

- Quantify the interlinkages between marine biodiversity, natural capital, and ecosystem services, taking quantity & quality into consideration.
- Determine the economic and social values associated with the benefits of <u>carbon sequestration</u> and <u>bioremediation of waste</u> and apply these values to support natural capital accounting and community benefits.
- Connect the ecological, economic, and social values
 of biodiversity to decision-making through co-design
 and supporting of green investment to enhance
 biodiversity.



The Cromarty Firth

Photo: D. Burdon



The Solent

Photo: A. Van Der Schatte Olivier









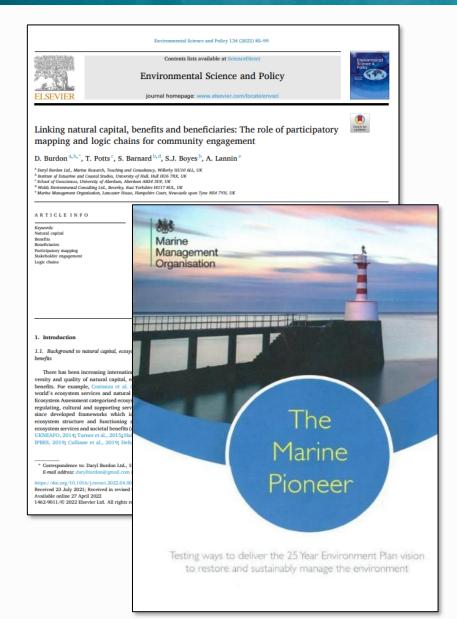








Participatory Mapping Method



- The Participatory Mapping approach is driven by the stakeholders at every stage through the workshops.
- Identifies and maps features and benefits (Workshop #1).
- Explores the trade-offs between benefit provision under different management scenarios (Workshop #2).
- Identifies and scores linkages between beneficiaries and benefits (Workshop #3).



NATURAL FEATURES

Features as Identified and Mapped in Workshop #1 and Refined in Workshop #2

BENEFITS

Benefits as Identified and Mapped in Workshop #1 and Refined in Workshop #2

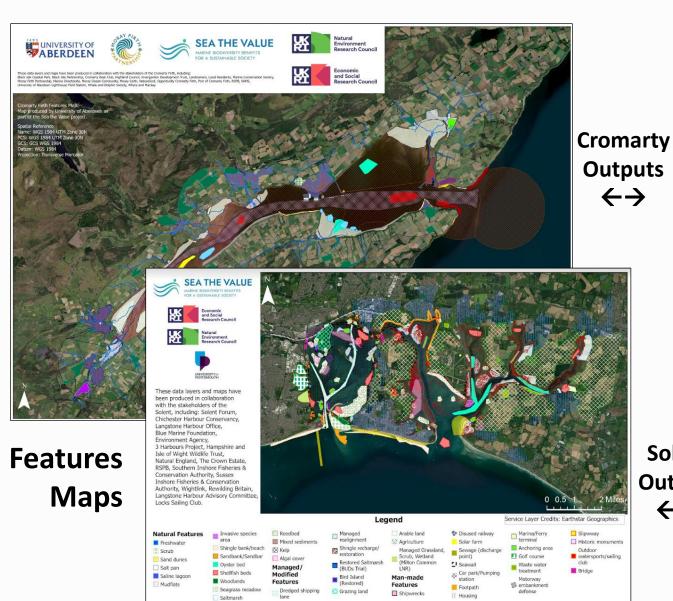
BENEFICIARIES

Stakeholder relationships with benefits mapped and assessed in Workshop #3

IMPORTANCE ('Natural Capital Lens')

RELIANCE / DEPENDENCE ('Beneficiaries lens')





| September | Sept

Features
vs
Benefits
Matrices

mic Benefits (EB)

Solent Outputs

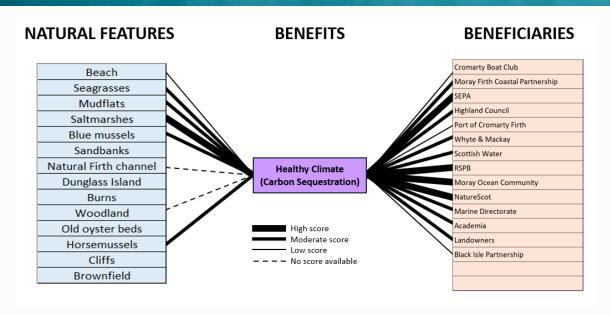


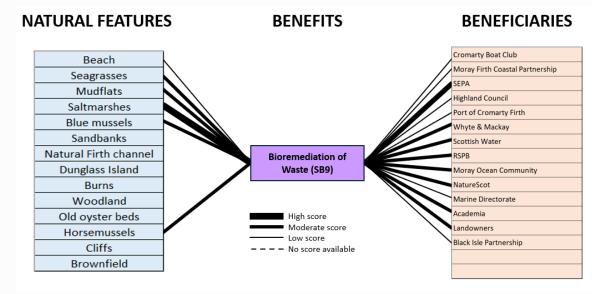
Beneficiaries Mapping

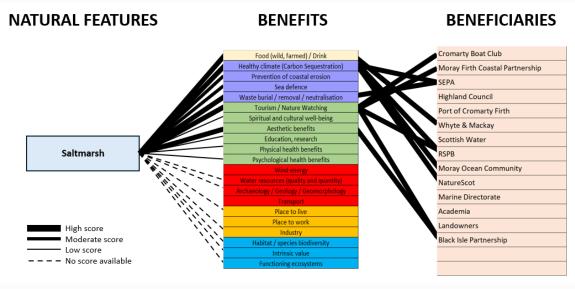
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		Food (wild, farmed) / Drink	Healthy climate (Carbon Sequestration)	Prevention of coastal erosion	Sea defence	Waste burial / removal / neutralisation	Tourism / Nature Watching	Spiritual and cultural well-being	Aesthetic benefits	Education, research	Physical health benefits	Psychological health benefits	ind energy	Water resources (quality and quantity)	chaeology / Geology / Geomorphology	ansport	Place to live	Place to work	Industry	Habitat / species biodiversity	Intrinsic value	Functioning acceptame
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EPA	Range	0	0	1	0	0	0	0	1	0	1	1	0	0	0	1	1	1	0	0	0	
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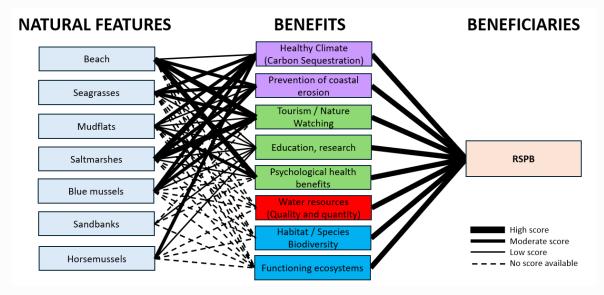
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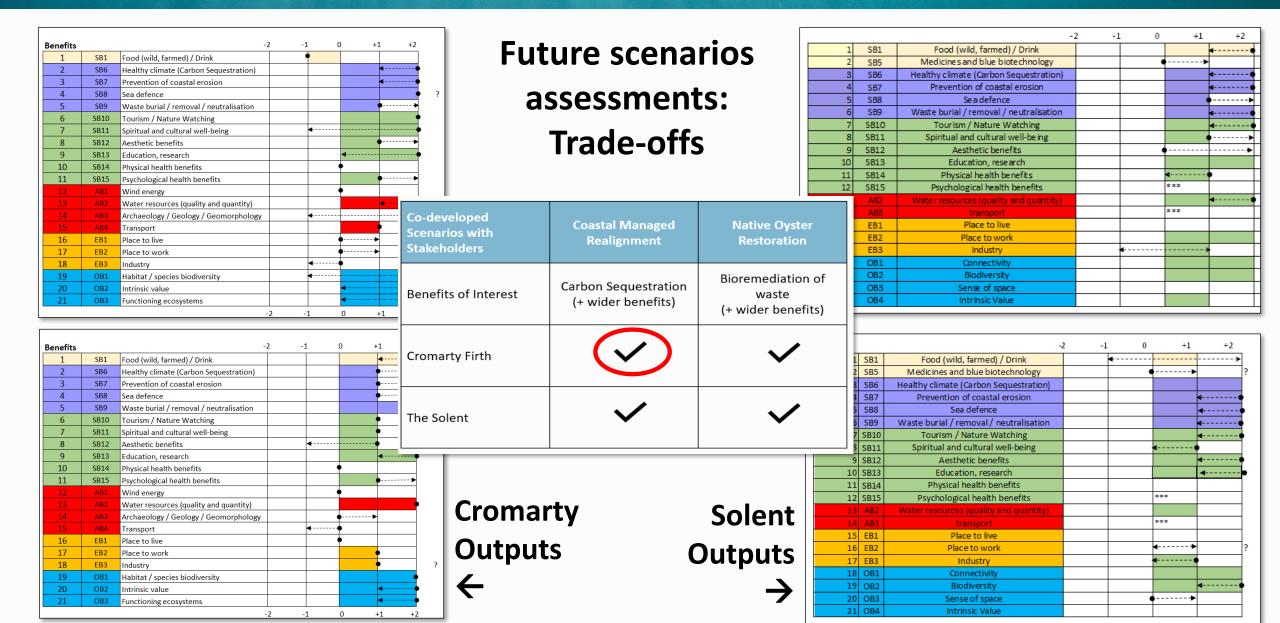








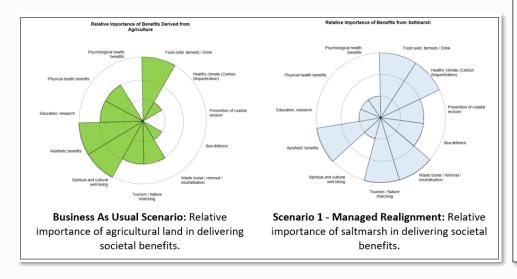


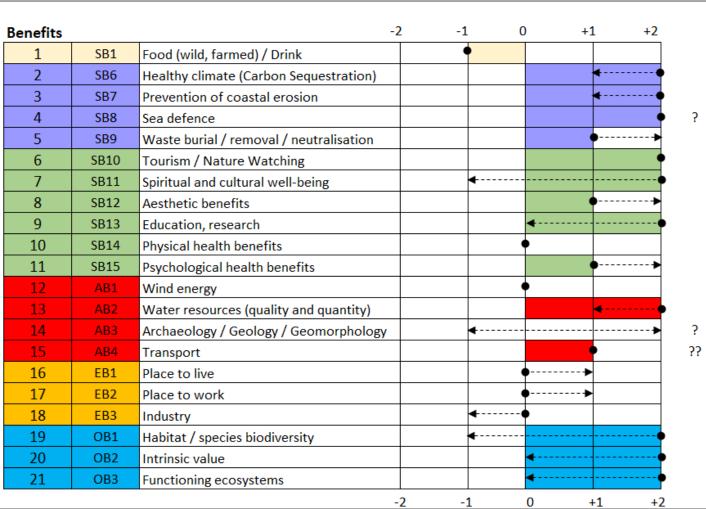




Scenario 1: Managed Realignment in Cromarty Firth

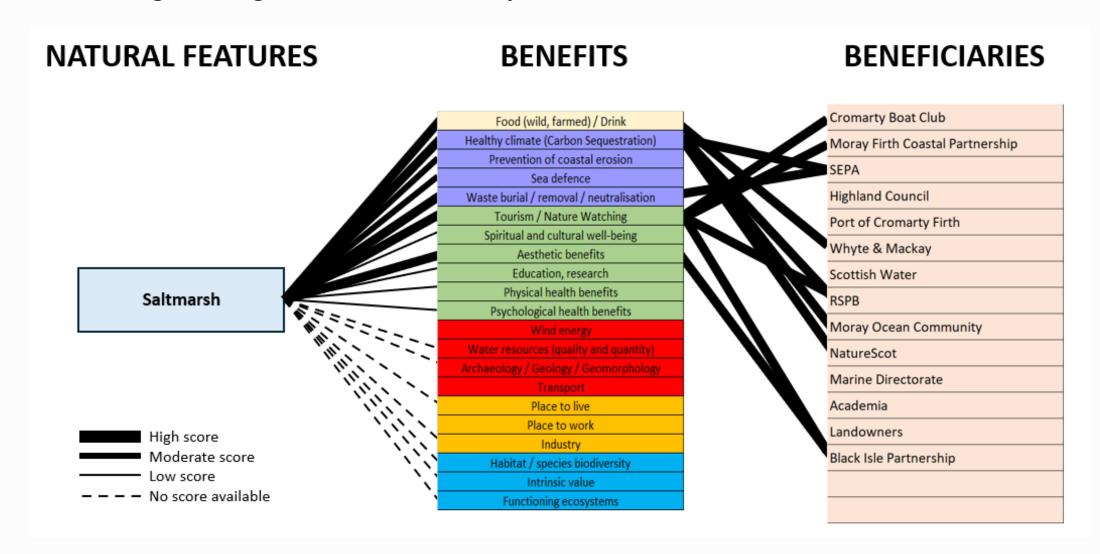
- A nature-based intervention whereby existing sea walls are breached to allow tidal inundation.
- Can be used for flood and erosion management, habitat compensation and/or habitat restoration.
- It can be seen as a triple-win for the environment, society and the economy.







Scenario 1: Managed Realignment in the Cromarty Firth









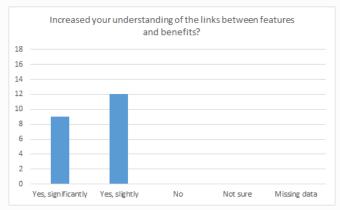


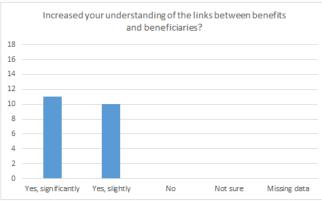
Why use Participatory Approaches in Estuarine and Coastal Restoration Projects?

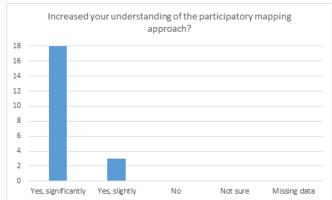
- Driven by stakeholders at all stages of the process.
- Creates a shared common language.
- Captures local knowledge and generates digital data.
- Generates outputs which can be used by coastal communities.
- Improves understanding of the links between natural features and benefits.
- Allows organisations to assess their own reliance on natural capital features.
- · Identifies shared reliance on natural capital features and their benefits.



Participatory Mapping Feedback







"The map is a good tool for showing the links between community and the environment."

"Mapping outputs will be really useful to demonstrate to other parties about the features and benefits and the impacts change can have on all of the different beneficiaries."

"Identifying opportunities for marine enhancement and linking with other partners."

"Getting local stakeholders around the same table – great connections made for future projects / partnerships."

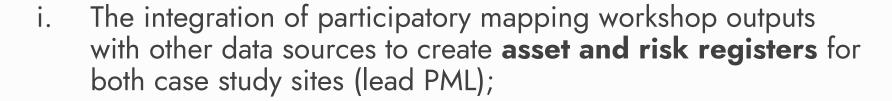
"Meeting people from different organisations and the different points of views."

"Thanks, you for your time, help and expertise in making these workshops so informative and fun!"



Other Sea the Value Workstreams







ii. Linking this information to the effects of habitat quality / biodiversity on nutrient bioremediation and carbon sequestration to **quantify ecosystem services** (lead Portsmouth University);



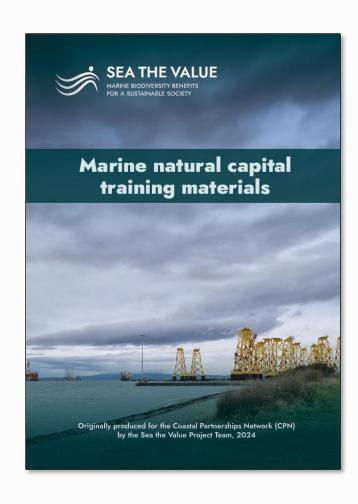
iii. Valuing the quantified ecosystem services and understanding how these values should be used, alongside other data, in economic appraisal and natural capital accounting (lead PML), and



iv. Using project data to outline and **test green finance approaches** for marine ecosystems (eftec).



Sea the Value Training



CPN Workshop Series & Training Materials

WSO: 'Sea The Value' Introductory Workshop

WS1: Natural Capital & Understanding Value

WS2: Interlinkages Between Biodiversity & Natural Capital

WS3: Participatory Mapping

WS4: Funding Nature's Needs





Thank you for listening — any questions?

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