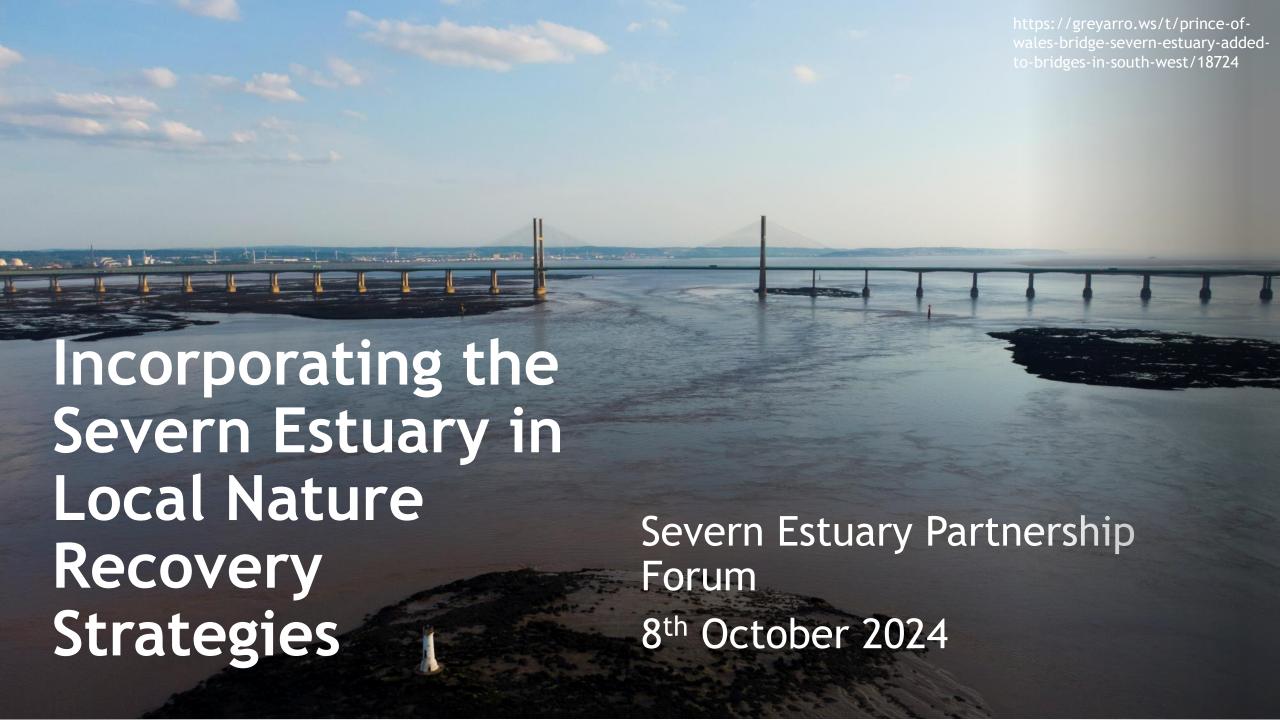


Session 4 – Enabling Recovery Through Resilience

Cllr Mike Stanton Somerset Council

@SevernEstuary #SEPForum24







Context

What is an LNRS?



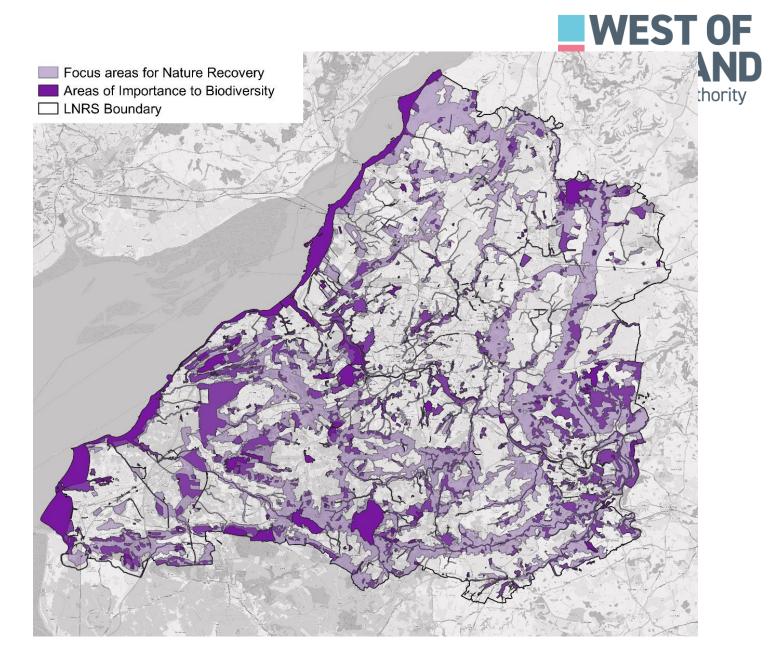
- 'New, England-wide system of spatial strategies that will establish priorities and map proposals for specific actions to drive nature's recovery and provide wider environmental benefits'
- 48 Strategies across England, covering the whole country
 - Joined together, will map delivery of the national Nature Recovery Network
- Public Authorities must take account of any relevant local nature recovery strategy

Statement of Biodiversity Priorities

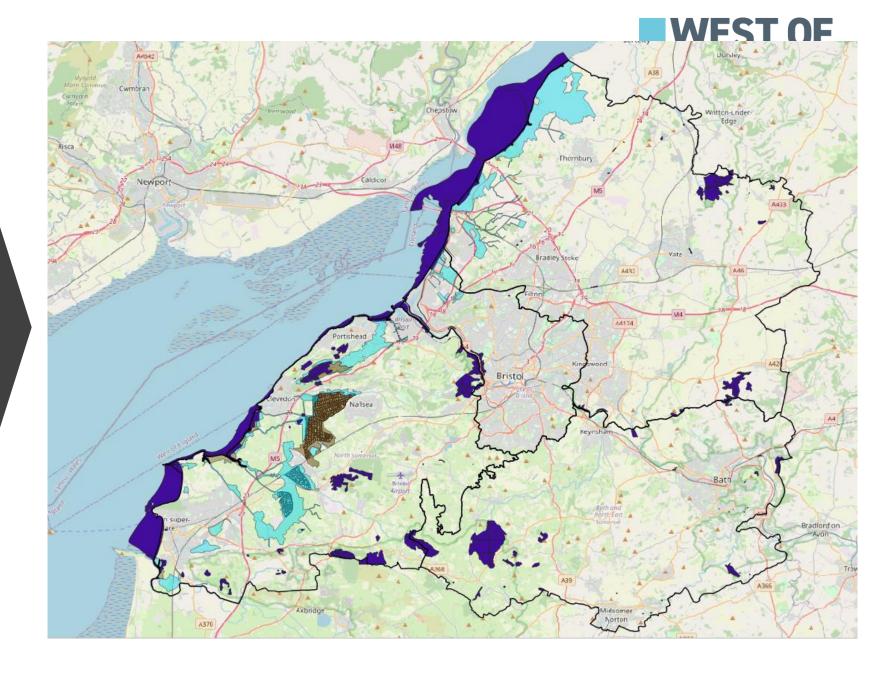


- 'Priorities are outcomes that are most important for nature recovery in WoE
 - E.g. 'There is more and better managed inter-tidal and saltmarsh habitat along the Severn Estuary, supporting populations of wading birds and wildfowl'
- Measures are actions to achieve the priorities
 - E.g. 'Restoration and creation of intertidal saltmarsh habitat and mudflats near the coast, using techniques such as managed realignment or regulated tidal exchange...'
- Each Priority may have several Measures

Local Habitat Map



Mapped measures



How will the LNRS be used?



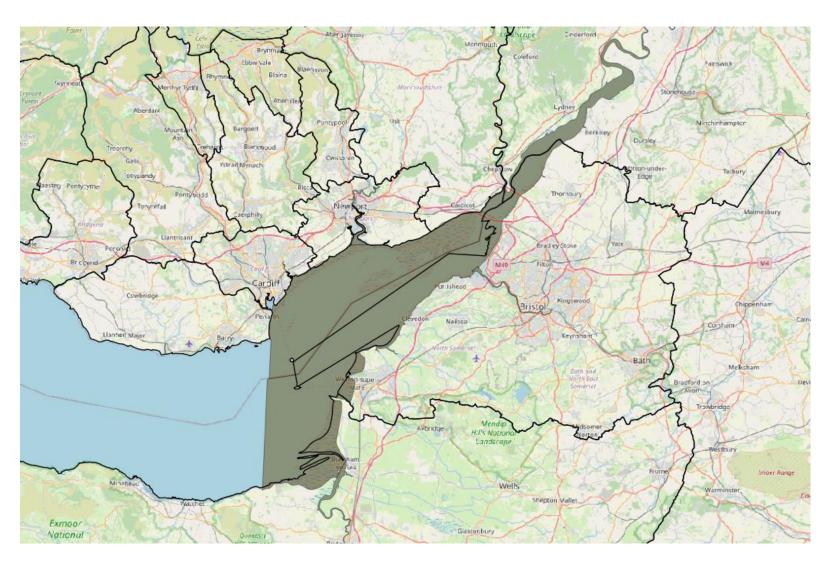


LNRSs and the Severn Estuary

The Geography



- At least 3 relevant LNRS areas in England
- 4 relevant LNP areas in Wales



What we do have

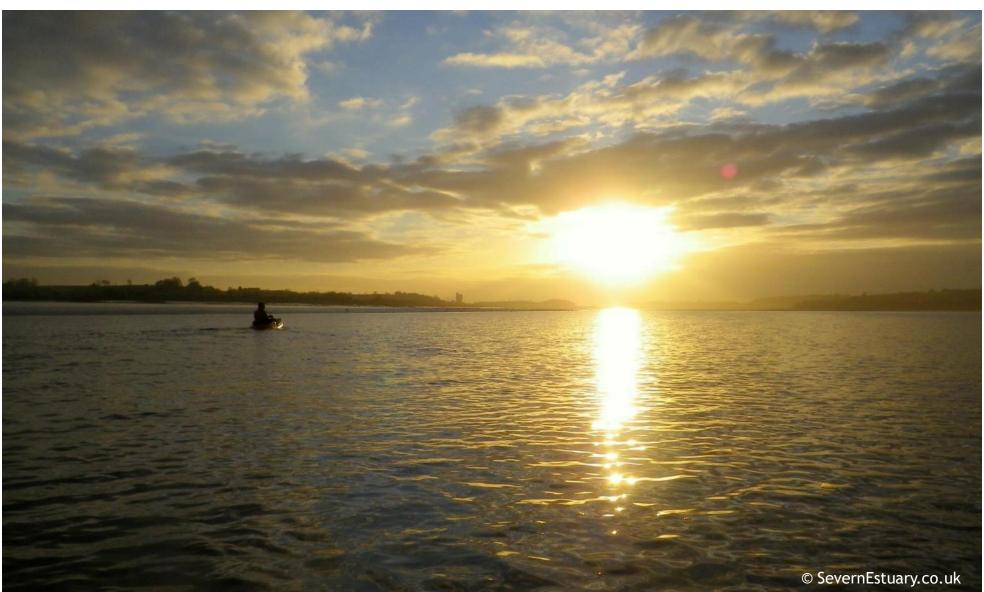
- Measures up to the low-tide line (excluding SSSIs)
 - E.g. regarding saltmarsh and mudflat habitats
- Measures across the terrestrial and freshwater environment that are relevant to the Estuary
 - E.g. removing barriers to eel passage





And what we are missing...





The Opportunity...



- Statutory role of and Government support for LNRS
 - Planning and BNG
 - Role in directing other public and private funding streams
- Achieve buy-in to SEP ambitions from a larger number and range of stakeholders
- Opportunity to translate ambitions of SEP to local priorities and measures, and eventually on-the-ground action

The Challenges...



- LNRSs do not have to include the marine environment
 - Unlikely that the 'statutory component' of LNRSs will include many marine elements at this stage
 - Although, some areas are doing voluntary marine extensions
- No clear mechanism for LNRS to influence marine environment
- Wales does not have LNRSs...





Next steps

How to square the circle?



- ? Bring together a group to produce coordinated voluntary marine extensions to the three relevant LNRSs, with similar products for Wales
- ? Produce a single 'LNRS Extension' for the Severn Estuary that would be relevant to all areas
- ? Incorporate LNRS priorities and measures into existing strategies / action plans

Some questions to consider



- Is there appetite for producing voluntary marine extension(s) to the LNRSs, including Wales?
- What would this look like for LNP Areas in Wales?
- What would this add in addition to existing strategies, action plans etc?



Thank you for listening



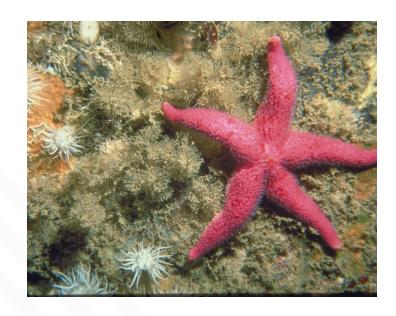


Opportunities for building resilience in Wales

Dr Jenny Oates, Lead Specialist Advisor, Marine Ecosystems Policy, Natural Resources Wales

What do we mean by ecosystem resilience?

"the capacity of ecosystems to deal with disturbances, either by resisting them, recovering from them, or adapting to them, whilst retaining their ability to deliver services and benefits now and in the future" (SoNaRR 2016)







Images: NRW

Legislation



The Well-being of Future Generations Act 2015 aims to improve the social, economic, environmental and cultural well-being of Wales

The Environment (Wales) Act 2016 formalised Welsh Government's commitment to the sustainable management of natural resources (SMNR).

'maintain and enhance the resilience of ecosystems and the benefits they provide and, in so doing –

- (a) meet the needs of present generations of people without compromising the ability of future generations to meet their needs, and
- (b) contribute to the achievement of the well-being goals in section 4 of the Well-being of Future Generations (Wales) Act 2015.'

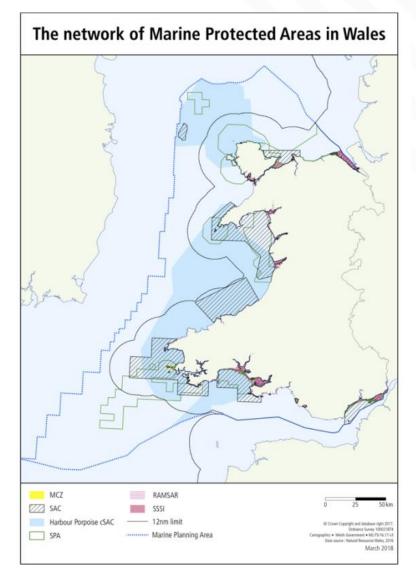
Enhancing the resilience of marine ecosystems

Our position is that the coherence and condition of the MPA network is the "cornerstone" for marine ecosystem resilience in Wales:

 getting features across the network into favourable condition should be the priority focus of action







Nature Networks

Programme funded by **Welsh Government** which aims to address the nature emergency in Wales through:

- increasing biodiversity
- improving the condition of protected sites
- enhancing the resilience and connectivity of our habitats and species

1) Direct to NRW to fund marine projects

- Improving Marine Conservation Advice
- Coastal Squeeze and MPAs
- Saltmarsh Restoration at Rhymney Great Wharf
- Investigations into the Declines of Benthic Habitats and Species







Nature Networks











2) Available for external partners e.g.

- The Zoological Society of London 'Restoring Wild Oysters'
- The Royal Society for the Protection of Birds 'Biosecurity for Wales'
- The Marine Conservation Society 'Ocean Literacy' project called Hiraeth yn y Môr
- Wildlife Trust of South and West Wales –
 Sentinels of the Sea
- SAC Officers: Partnership delivery of MPA improvements in Wales

Improving Marine Conservation Advice project (IMCA)

The outputs of this project will be:

- A full set of condition assessments for 88 features of our Welsh only marine sites
- Feature level reports (e.g. seal report) and site level reports (e.g. Carmarthen Bay and Estuaries SAC)
- A full set of conservation advice packages including targeted conservation objectives for 12 sites
- We have applied for funding to do the same for crossborder sites starting in 2025



IMCA outcomes

- Condition assessments will highlight which features are unfavourable and why
- This will allow prioritised management actions needed to bring features back into favourable condition
- Up to date knowledge of condition and more specific objectives will help to evaluate planning and licence applications

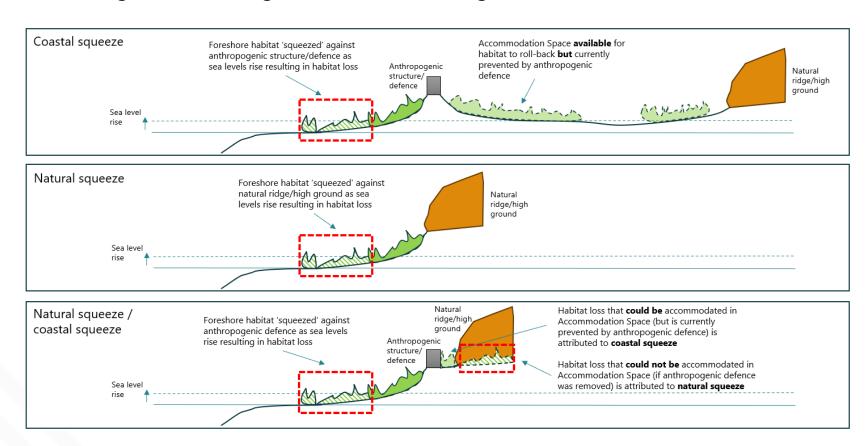






Understanding the likely scale of deterioration of Marine Protected Area features due to coastal squeeze - Scope

- Assesses the potential for coastal squeeze for the whole Welsh MPA Network up to 2155
- Also assesses the potential for natural squeeze.
- Looks at seven habitat groups: saltmarsh, mudflats and sandflats, intertidal reef, littoral coarse sediments, dunes, vegetated shingle, and coastal lagoons.



Understanding the likely scale of deterioration of Marine Protected Area features due to coastal squeeze – Method and Outputs

Provides results for two sea-level rise scenarios:

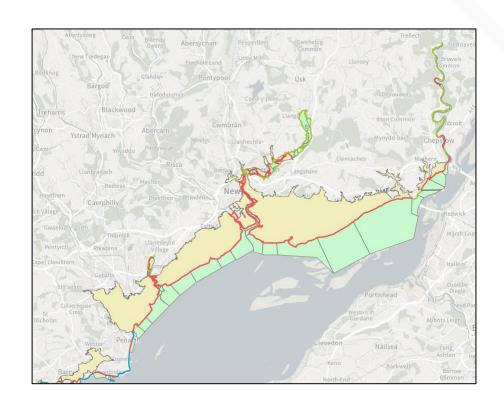
RCP 8.5 70th and 95th percentiles

Provides results for three different management scenarios:

- assume all current defences are maintained
- assume Shoreline Management Plan policies are implemented
- and assume all defences have failed/been removed

Outputs:

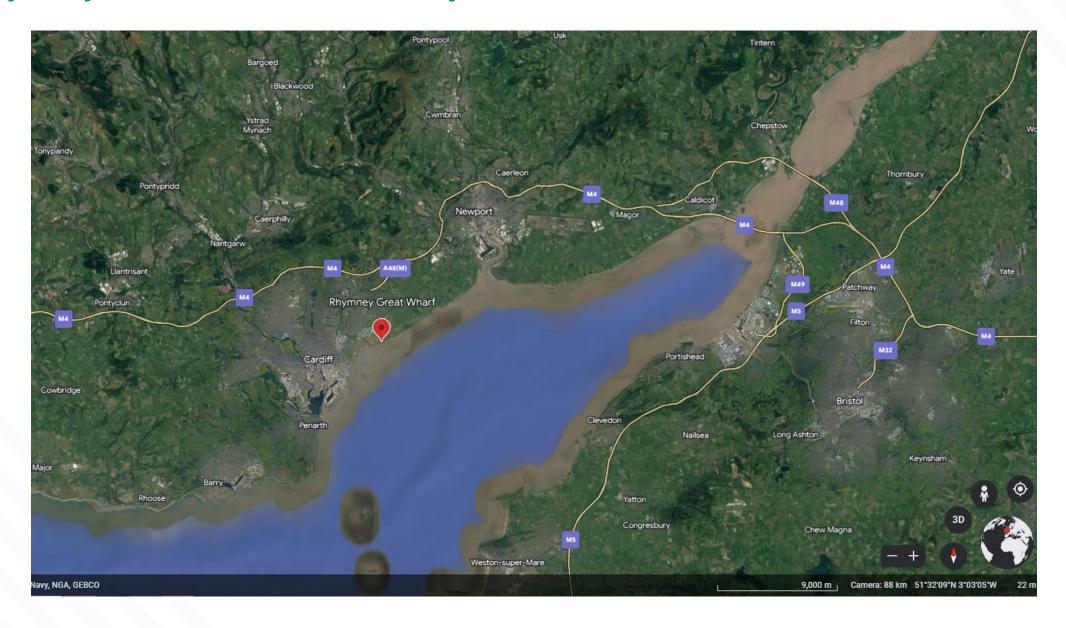
- Evidence Report Volume 1 (Methodology)
- Evidence Report Volume 2 (Results and Discussion)
- Coastal Squeeze Assessment Tools (Excel spreadsheets)
- GIS outputs



Want to find out more?

Project Dissemination Webinar: 6th November 2024, 2pm Contact: Nicola.Rimington@naturalresourceswales.gov.uk to request an invite.

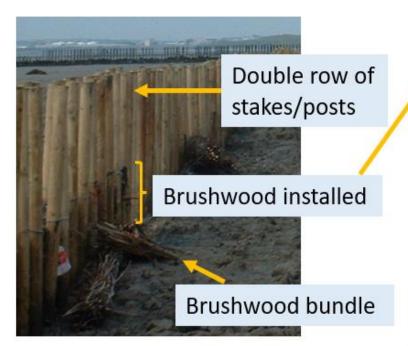
Rhymney Great Wharf Polders Project



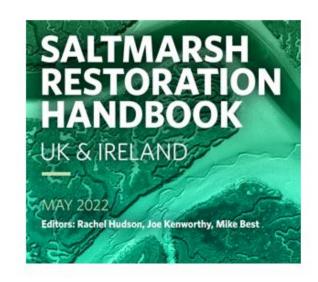
What's a polder?

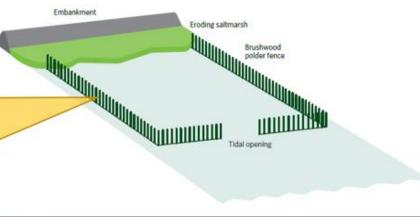
Sedimentation polder:

Intertidal area, enclosed by rectangularly arranged brushwood groynes to facilitate enhanced sediment deposition.









Nature Networks polders project

Objectives:

- 1. Protect the frontage of Rhymney Great Wharf from existing erosive pressures on mudflat and saltmarsh habitats by promoting sediment deposition in the first instance.
- 2. Create conditions that will support both mudflat and saltmarsh features to varying extents over time.
- 3. Have a refined sedimentation polder design
- 4. Support the flood risk management of the area





Work so far

- 2023: ABPMer feasibility study (tricky environmental conditions in the Severn!)
- Summer 2024: Restoration of 3 old polders and construction of new polders to the west
- Chestnut fenceposts and willow brushwood
- Cost: £707,000
- Marine Licence conditions: commitment to undertake maintenance and monitoring



Further research opportunities

- How well is the design working against predictions? Are the structures sound and/or could they be improved for other projects?
- How successful are the polders compared to other similar schemes in the UK and beyond?
- How are invertebrate communities affected in mud/saltmarsh areas?
- How are estuarine/migratory fish using the polders? Increased use as a fish nursery?
- How are birds using the polders area? Special Protection Area species, overwintering birds etc.







Thanks for listening!

Jenny.oates@cyfoethnaturiolcymru.gov.uk









A more local lens for marine planning

Aspirations, issues and opportunities

Tara Hooper, Principal Specialist
Natural England & Marine Management Organisation

October 2024







Important caveats



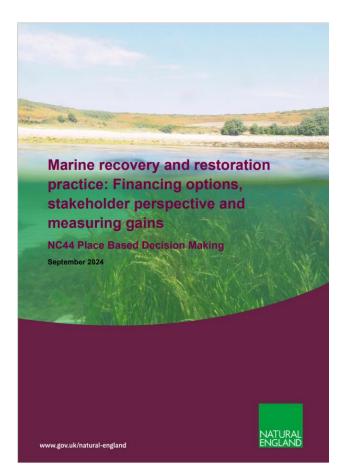
- This is a research project. It is not current, or future, policy.
- The MMO recognises the potential benefits of a more localised approach. This project is about scoping the art of the possible.
- It remains in a 'pre-pilot' phase.
- Future funding will also be key to what may be achievable.

Background: Local marine recovery

- **Aim**: to explore how funding for marine nature recovery is prioritised and allocated, and to understand the way in which recovery and restoration is delivered.
- Adopted a mixed-method approach integrating empirical qualitative research (surveys and in-depth interviews) with desk-based scoping and evidence reviews:
 - Part 1: Funding marine nature recovery and restoration
 - Part 2: Delivering restoration Projects and perceptions
 - Part 3: Payments for recovery
 - Part 4: Using Natural Capital to measure loses and gains
- Ten main recommendations, including:
 - Improve public funding coordination and establish clear governance for public accountability
 - Recognize marine and terrestrial environments as integrated systems
 - Increase emphasis on payments for passive recovery
 - Reform licencing for marine nature recovery and restoration
 - Increase recognition of the role of collaborative partnerships in marine nature recovery
 - Standardise, expand and resource monitoring and evaluation







(Available on NE Access to Evidence portal)

Background: Partnerships for Marine Nature Recovery

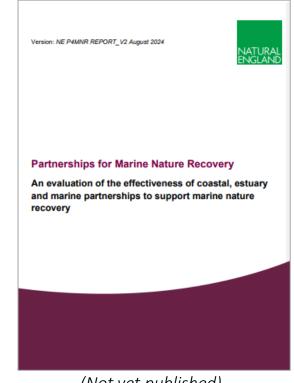
• Three decades of partnership working at the local level have evolved in over fifty locations and offer strong potential for Coastal Estuarine and Marine Partnerships (CEMPs) to facilitate Marine Nature Recovery (MNR) engagement.

The project considered:

- How might effective CEMPs might be enabled to support the efficient delivery of MNR?
- What is their role in supporting strategic planning for MNR and how it connects to coastal and upstream planning?
- The wider value of CEMPs in facilitating MNR & the economic case for supporting them

Key outputs/findings

- Characterisation of CEMPs, their governance structures and engagement in MNR:
 - provide a place-based knowledge and networking hub, with 'soft' governance qualities that facilitate collaboration to identify opportunities and support delivery.
 - · need more stable, core and long-term finance to maximise their efficiency
- Additional insights from international and national research, including on green finance and social impact



(Not yet published)

"Our partnership is...held together by the personalities that are driving it...key people, lynchpins for funding, getting the right people doing things. We would like to find a way of building it back up into a core service...to do more than just the bare minimum...and be a little bit more forward thinking"

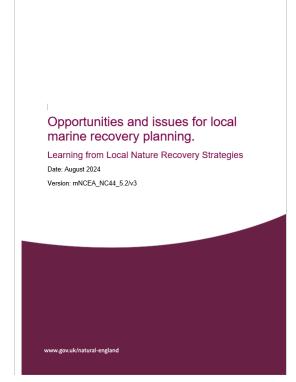


Background: Local marine recovery planning

- Initial assessment of opportunities and challenges for stakeholder-led marine nature recovery planning, with lessons from Local Nature Recovery Strategies (LNRS):
 - Survey on aspirations and needs for voluntary marine extensions to LNRS;
 - Interpretation of the LNRS process and guidance for marine areas;
 - Role of a nationally co-ordinated system of locally-led, strategic, spatial planning for marine nature recovery in supporting existing and emerging marine policies.

Key findings and recommendations

- Clear ambition to extend the approach into marine areas.
- Marine areas have unique challenges, so need specific additional advice and data.
- Clear opportunity in advance of the next LNRS iteration to develop a strategy and guidance that support integration with any future local marine recovery plans.
- The refresh of the East Marine Plan should be used to consider the legislative and practical aspects of developing and integrating local marine recovery plans.
- Additional dedicated funding should be sought to:
 - recognise and resource the wider ambition for local marine recovery plans,
 - ii. extend research on integration between terrestrial and marine nature recovery.



(Not yet published)





Background: Scoping more localised marine planning

- Local people play an important role in driving change to the environment
- What could more locally-focused, or 'nested' marine plans offer to society, the environment and the economy?
- What are the barriers, opportunities and challenges?

Short scoping study:

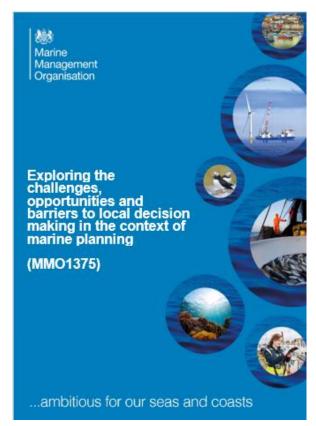
- Reviewed international, national and regional examples and best practice
- Preliminary workshop with MMO marine planning and licensing staff, and a few external practitioners and academics

To consider in more detail

- What are the legal implications?
- How would local plans integrate with other plans and planning?
- How would we best work with use existing groups to deliver them?

What success needs:

- a significant pilot that will deliver over multiple years
- a thorough evaluation of the pilot



(Available on Gov.uk)



Pre-Pilot Phase: Objectives

Aim: to undertake a more detailed assessment of the practical options for localised, integrated marine planning.

Objectives:

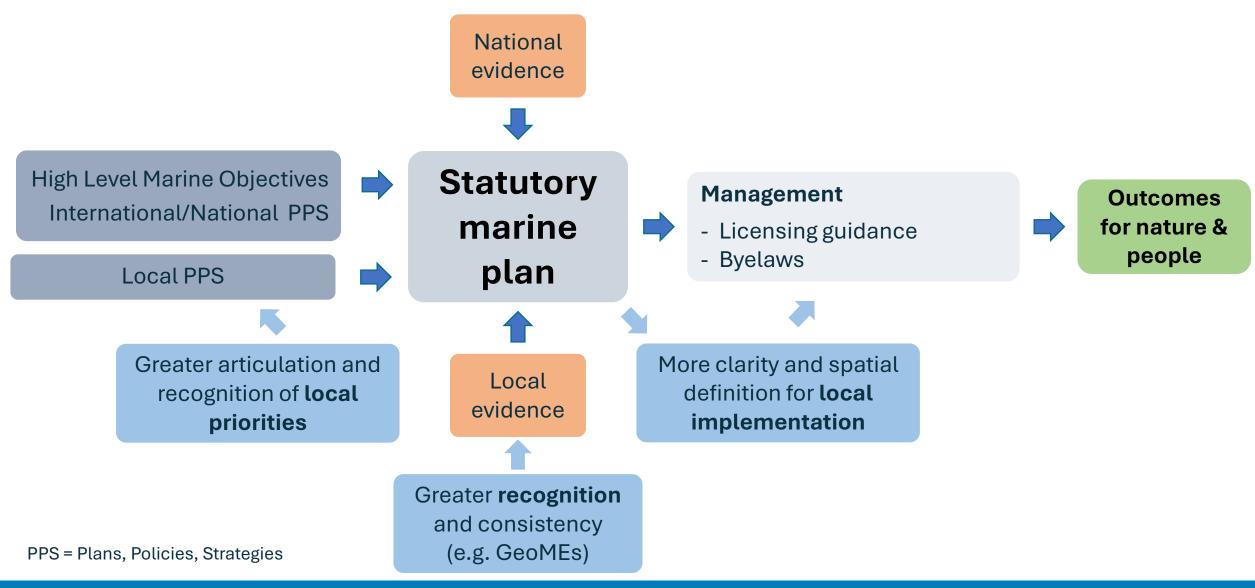
- Determine appropriate legislative pathways for, and legal constraints on, local marine planning options.
- Consider in detail the issues and opportunities:
 - spatial boundaries, engagement, integration with other plans, cross-boundary issues, data, governance, decision making, and resourcing requirements.
- Increase the engagement of local and national stakeholders, including through case studies.
- Outline a process that can be rolled out for a full pilot phase.

Intended Outcomes:

- Improved understanding of the opportunities and challenges of increasing local participation in marine planning.
- A comprehensive foundation is in place for a full pilot phase:
 - A detailed proposed process is available for further testing;
 - Likely resource requirements for implementation are better understood;
 - Stakeholders are prepared to participate, with appropriately managed expectations.



Pre-Pilot Phase: Conceptual Framework





Pre-Pilot Phase: Main project components

- 1. Establish an internal advisory group, cross-agency working group, and engage with key stakeholder networks.
- 2. Obtain a comprehensive legal opinion.
- 3. Co-design with local stakeholders a preliminary approach, through one or two case studies, which may include:
 - Stakeholder and decision mapping
 - Appropriate approaches and mechanisms for participation
 - Assessing data needs and availability
 - A Theory of Change and developmental evaluation.
- 4. Undertake a preliminary assessment of issues that could affect scaling of the case studies to a national level.
- 5. Using this learning, propose a framework for a nationally coherent local process.
- 6. Determine levels of resourcing for different options and develop an outline business case for a full pilot phase.



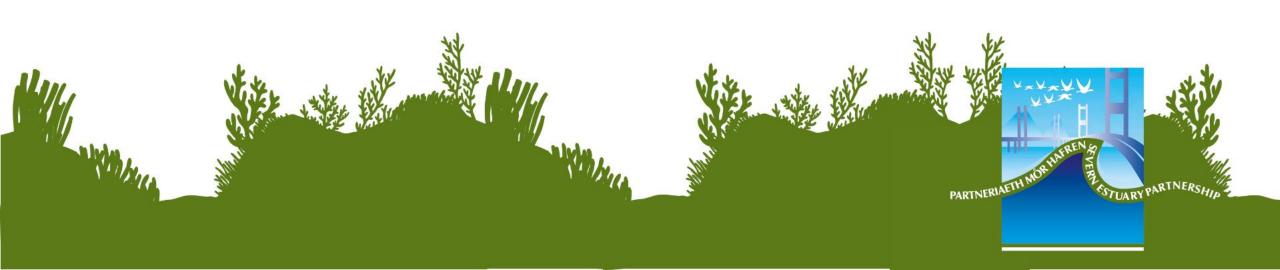




Final Thoughts

Rhoda Ballinger Severn Estuary Partnership Chair

@SevernEstuary #SEPForum24



Thank you for attending!



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We invite you to join us for the drinks reception in the foyer.

