

UK Coastal Governance – Future Insights



“We are an island nation with our backs to the sea...we need to transition to a better and more sustainable coastal future.”

“The complex web of governance is daunting”

Natasha Bradshaw, Doctoral Researcher, UWE Bristol

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UK Coastal Governance – Future Insights



170 participants: 14 sectors & scales
Two online surveys & workshop(s)
Final event – open invitation



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Exploring the utility of voluntary coastal partnerships for supporting integrated management

Pamela M. Buchan, University of Exeter, and Katherine L. Yates, University of Salford
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Introduction

- Integrated coastal zone management relies on effective stakeholder engagement
- Coastal forums are an established stakeholder engagement mechanism

Aims and method

- Stakeholder analysis of case study, North West Coastal Forum
- Management Board membership and event attendance records analysed
- Online survey on sector, perceptions of Forum, and environmental values

Findings

- Respondents were very satisfied with the Forum: 56% said performed well/very well
- Particularly as neutral and honest broker, and for knowledge exchange and networking

Stakeholder representation

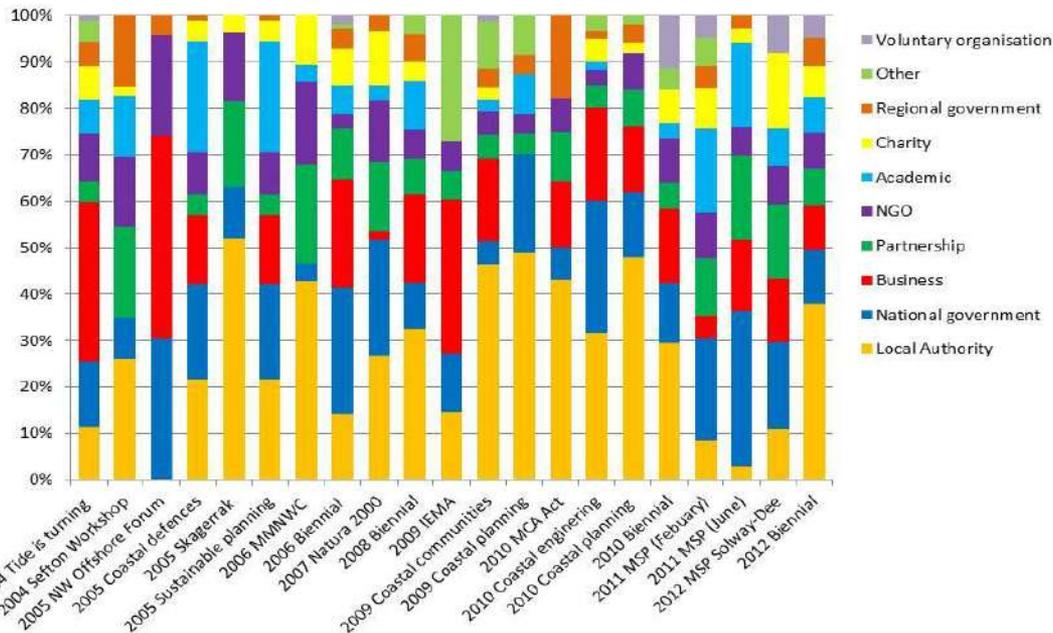


Figure
Proportion of individual attendees per North West Coastal Forum event from each listed organisation type. *Other* = low representation (<4 events), unclassifiable independent individuals.

Stakeholder values

- Personal values not significantly different from organisation values
- Personal values were strongly pro-environmental

Conclusions

- Coastal partnerships are viewed by stakeholders as effective
- Active recruitment is needed to engage a full range of stakeholders

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Sustainable Shores

Challenges and opportunities for UK coastal habitats

Dr Nathan Richardson, Senior Policy Officer, RSPB nathan.richardson@rspb.org.uk

COASTAL HABITAT VALUE

- Flood risk, fisheries, recreation, water quality, carbon, wildlife
- Value of ecosystem services is at least £48 billion

COASTAL HABITAT LOSSES:

- ~ 30,000ha of coastal habitat lost since 1945
- ~ 3,000ha protected intertidal habitat projected to be lost by 2050 due to coastal squeeze

COASTAL HABITAT CREATION TO DATE:

- ~ 2,500ha of coastal habitat created since 1991 (MR + RTE)
- RSPB involved in around 33% of area created



Sustainable Shores

Challenges and opportunities for UK coastal habitats

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OPPORTUNITIES

~ 34,000ha of coastal habitat creation opportunities

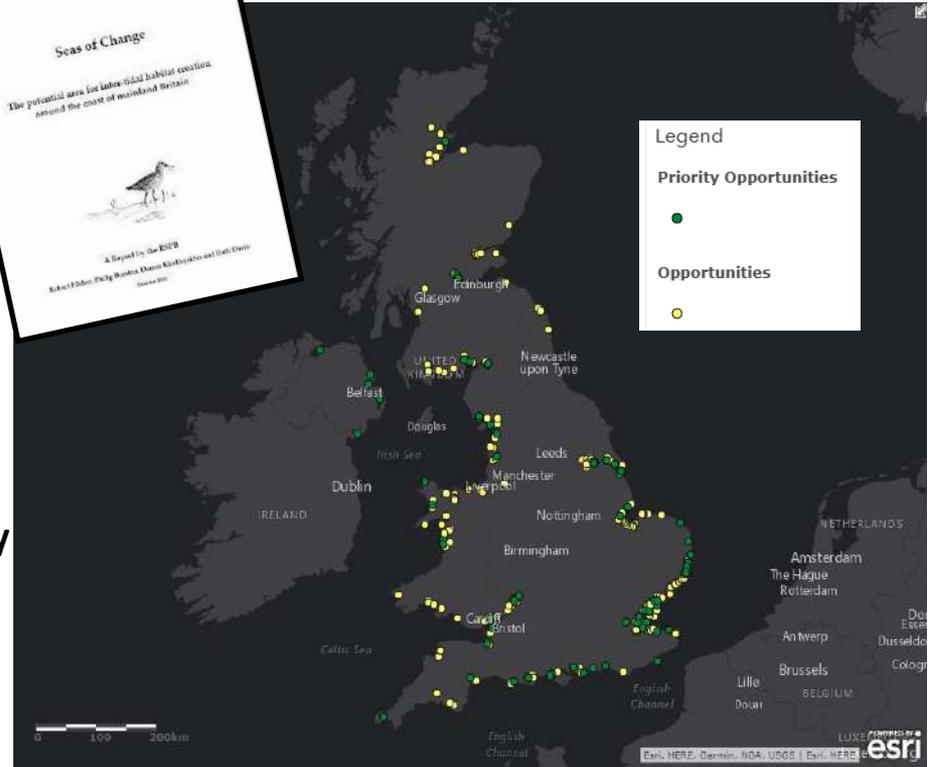
~ 13,450ha identified by RSPB at 52 priority sites

RSPB looking for partnership delivery opportunities

POLICY ASKS:

- New National Habitat Creation Programmes in Scotland and Northern Ireland
- Greater focus on addressing Epoch 2 losses
- Quality as well as quantity
- Step change climate change adaptation/SMP delivery
- Greater use of Natural Capital & Innovative Finance

Email me if want a copy of the report when published



Tyne to Tees Shores and Seas

A Seascape Partnership

Funding raised by
The National Lottery
and awarded by the Heritage Lottery Fund



Heritage rich Seascape

- Common geology
 - Magnesian limestone
- Common industrial past
 - Mining, shipbuilding, trade
- Common wartime experience
 - East Coast War Channels
- Common culture
 - Post industrial society
- Common natural features
 - Coast & marine fauna and flora

But often overlooked

- Most visitors come from within 6km
- Forgotten between North Yorkshire & Northumbria
- **Time to write the next chapter...**



What and How?

<http://www.durhamheritagecoast.org/our-coast/seascape>

Funding raised by
The National Lottery

and awarded by the Heritage Lottery Fund



LOTTERY FUNDED

Ambition

Heritage, whether built, cultural or natural, will be better recorded, better managed and in better condition

Coastal communities are better engaged with their rich heritage and can better access the amazing coast on their doorstep

£5 million over 6 years

Making tangible the intangible concept of ICZM

Builds on:

- North East Marine Planning process
- Sunderland Tall Ships 2018
- England Coast Path partnership

Proposed Projects:

From shorebirds to shipwrecks e.g.

- Hartlepool's high and low lights
- Wreck, water & shore activities
- Volunteer training & citizen science
- Beach Care & Blue Gym
- Seascape "Stations"



The Blue New Deal is a framework to transform the way economic development happens on the coast.

- Raising awareness of the value and importance of UK seas to the wellbeing of coastal economies.
- Demonstrating that marine conservation can, and must, go hand-in-hand with revitalising coastal economies.
- Bringing people together to explore economic solutions for healthier seas.
- Giving them the right tools to develop their ideas and shape their own economic future.

If implemented, the Blue New Deal could support around 160,000 additional jobs and add about £7.2 billion to the coastal economy.

The UK's first Centre for Coastal Economies will become a hub for those working towards a transformation of the coastal economy.

- Working in partnership to make good practice the norm, rather than the exception.
- Helping local strategies, marine projects, enterprises and businesses get off the ground and connect to funding.
- Providing a powerful voice for coastal communities and the marine environment as post-Brexit national and devolved policy unfolds.
- Advocating for improved policy that empowers rather than frustrates those who want to innovate and lead the reinvention of their coastal towns.

Get involved by contacting Fernanda Balata fernanda.balata@neweconomics.org

“ Working towards a framework of monitoring the oceans using autonomous vehicles”

AlterEco

(An Alternative Framework to Assess Marine Ecosystem Functioning in Shelf Seas)

- Aim to better understand how changing physical and chemical conditions in UK Shelf Seas affects the marine ecosystem and ocean health.
- Deploy small fleets ocean robots to provide a continuous measurement campaign in the North Sea between November 2017 and January 2019.
- Provide atmosphere-through-ocean coverage of North Sea conditions at scales from centimetres to 100s of kilometres and seconds to the full winter-to-winter cycle.



“ Working towards a framework of monitoring the oceans using autonomous vehicles”

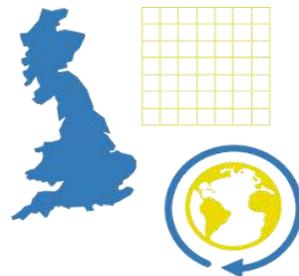
AlterEco

Our robots will help UK scientists and international partners to better define the key indicator parameters that we need to measure and understand to assess shelf-sea-wide ecosystem health and to help define **good environmental status (GES)**

25 scientists


8 missions


17 ocean robots

will travel over
25,000 ml
of ocean
[about the circumference of the Earth]

1010100010
01 01
1 0
10 11
1100101101
0110010100
collecting over
32,000 hrs
of data





Marine Scotland

AFBI

Queen's University Belfast
£480k

Strathclyde University
£275k

University of Glasgow
£75k

SCOTTISH ASSOCIATION FOR MARINE SCIENCE
£685k

RSPB
£348k

NOC
£100k

The University of Sheffield
£740k

Cefas
£645k

DEFRA

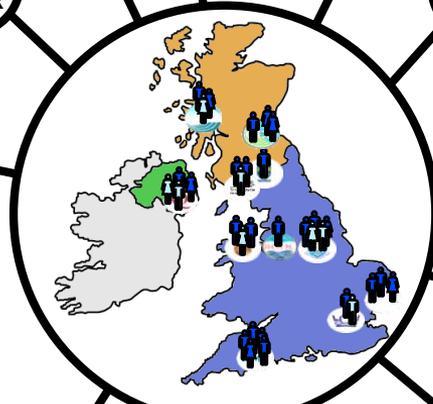
Queen Mary
£281k

ROCK
£110k

BANGOR UNIVERSITY
£668k

PML Plymouth Marine Laboratory
£1275k
Incl. SAHFOS

SEA WATCH FOUNDATION



Marine Ecosystems Research Programme

Programme goal
Improved understanding of the whole marine ecosystem and how change alters key ecosystem services, integration of knowledge into ecosystem models, and application of models to test the impact and efficiency of potential management solutions

MERP facts

- ~£6 million
- 5 years
- >50 researchers
- 15 organisations (lead PML)
- Co-funded by NERC and Defra
- Focus on Celtic Seas
- www.marine-ecosystems.org.uk

Project Coordinator – Paul Somerfield **PML** Plymouth Marine Laboratory



**Marine Ecosystems
Research Programme**

Stakeholder Symposium

**Wednesday 25th April 2018
The Royal Society, London**



Photo (c) Peter Evans, Seawatch Foundation

Register your interest at: www.marine-ecosystems.org.uk

End-to-End Marine Ecosystem Modelling | Fisheries Management | Marine Protected Areas |
Trade Offs | Cumulative Impacts | Natural Capital | Marine Spatial Planning | Seabed Integrity