



# NORFOLK SEAWEED

Presentation to “The Next Generation for Energy in the East of England Conference”.

“Native Oyster Restoration and Regeneration”

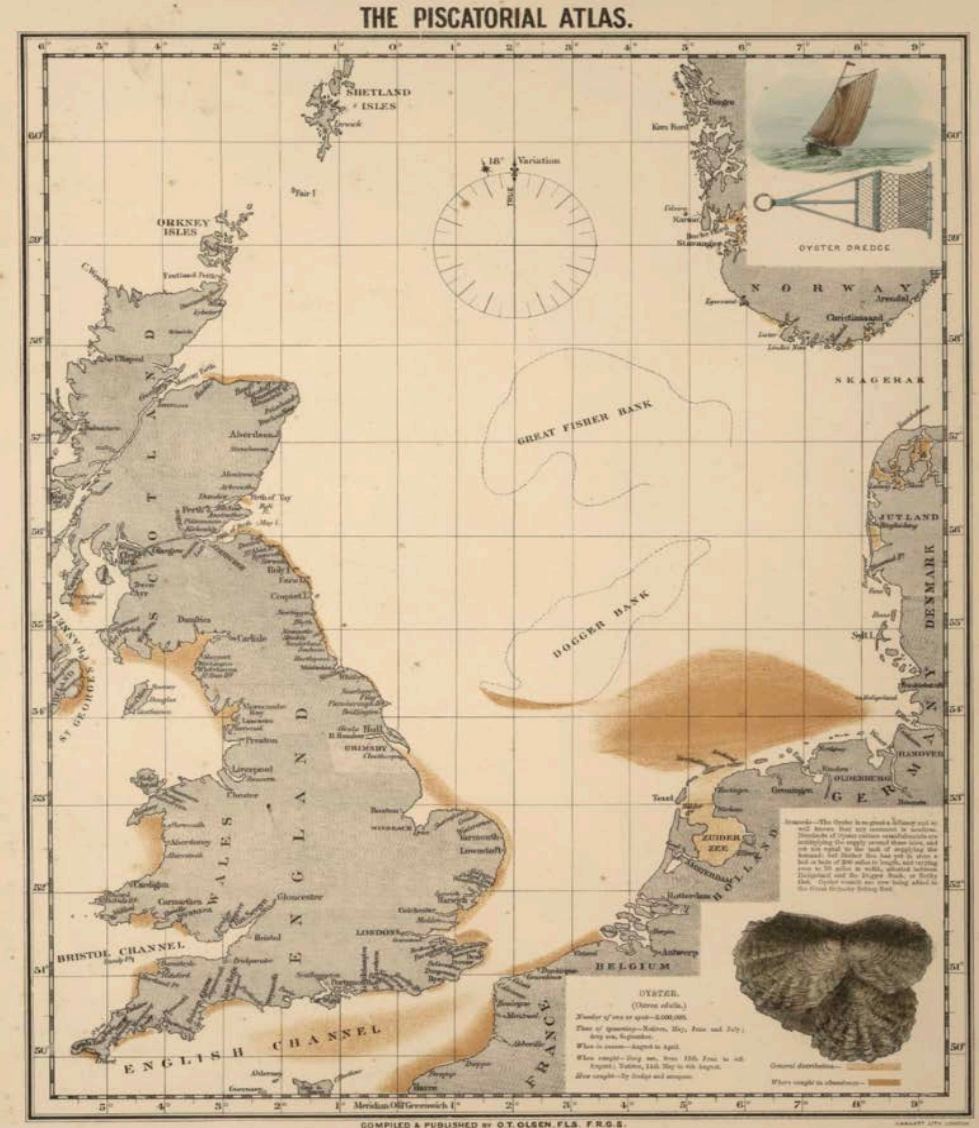
11 May 2023

# THE PISCATORIAL ATLAS (1883)

Native oysters once formed vast reefs along the coastlines of Europe, forming a dominant ecological feature of our coastal marine habitat.

The Piscatorial Atlas of 1883 portrays the known distribution of native oyster reefs around the coast of the UK, English Channel and the North Sea, illustrating just how widespread this habitat was.

The significant decline of native oyster populations across Europe has highlighted that active intervention is required for the recovery of this species from the brink of extinction.



# Ecosystem Services Provided by *Ostrea Edulis*

## INCREASED WATER CLARITY

Can benefit recovery of seagrass and other coastal aquatic plants



## INCREASED FISH PRODUCTION

Provides a suitable feeding and nursery grounds for fish



## INCREASED OYSTER POPULATIONS

Provides a spill over effect to local oyster fisheries



## CULTURAL VALUE

Have previously formed the heart of coastal communities



## IMPROVED WATER QUALITY

Removes pollutants from the water column



## BIODIVERSITY ENHANCEMENT

Form a complex structure that provides shelter and food for a diversity of species



## DENITRIFICATION

Removes excess nutrients



## STABILISATION OF SEDIMENTS

Reduces the resuspension of fine sediment, improving water clarity

-  *Provisioning services*
-  *Regulating services*
-  *Cultural services*

# Beneficiaries of Native Oyster Restoration

**LOCAL ECONOMY**  
Local industry and businesses thriving from tourism, encouraged by improved water quality



**RECREATIONAL FISHERS**  
Increased catches per trip



**SWIMMERS AND HOLIDAY MAKERS**  
Encouraged by improved water quality



**NATURE LOVERS**  
Through increased biodiversity



**COASTAL COMMUNITIES**  
Increased wellbeing from healthy marine environment. Educational and outreach opportunities created via projects



**COMMERCIAL FISHERS**  
Increased commercial oyster and fish catch



**MARITIME INDUSTRY & SEA USERS**  
Provided jobs and work



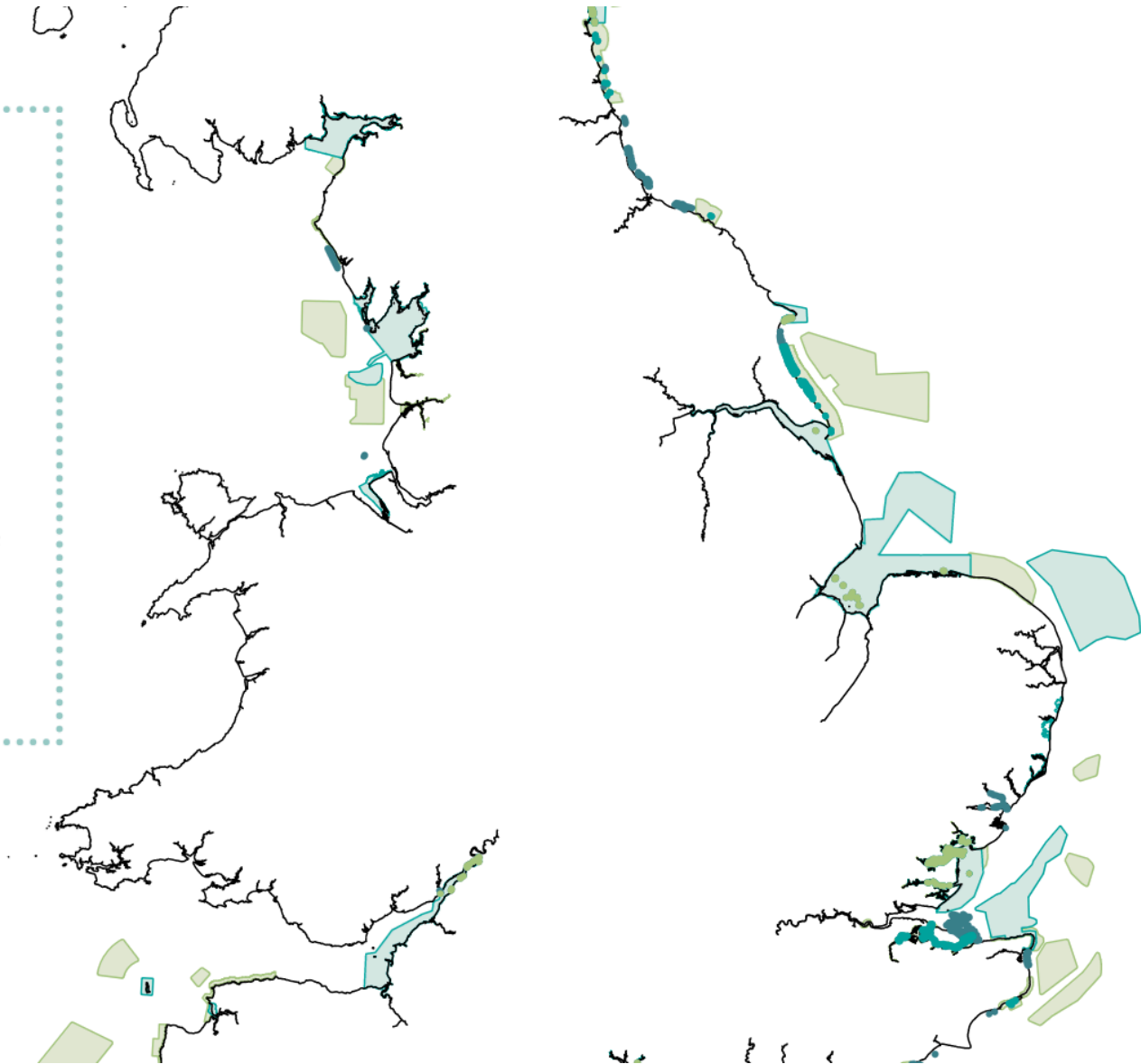
## Oyster Restoration Potential and Marine Protected Areas

### Marine Protected Areas

- Special Areas of Conservation (SACs) within 12nm
- Marine Conservation Zones (MCZs) within 12nm

### Oyster Reef Restoration Potential Areas

- Areas in SACs
- Areas in MCZs
- Areas outside of SACs and MCZs

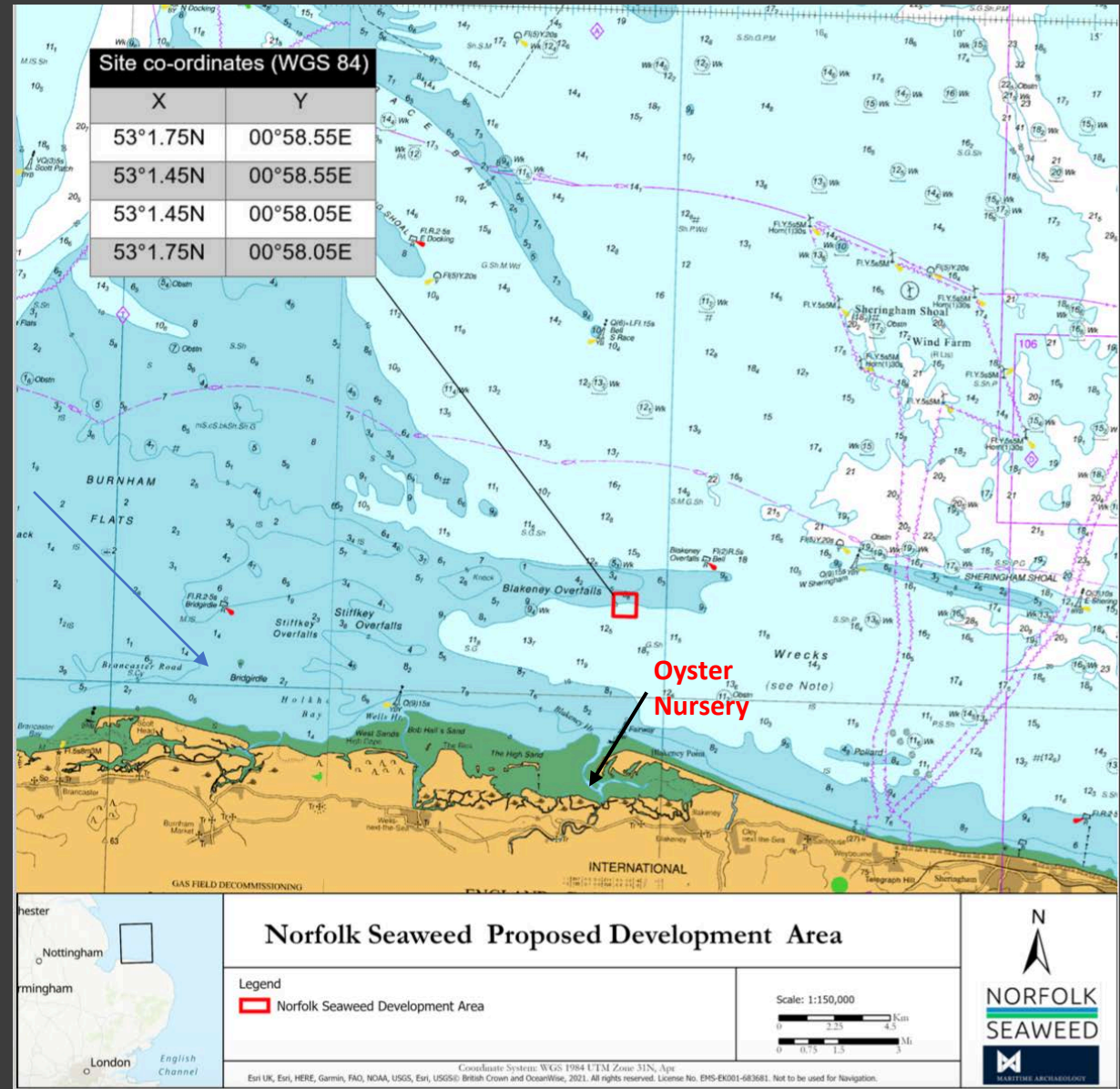


A person wearing a red hooded jacket and dark clothing is standing on a wooden platform in the water, working with oysters. The background shows a vast expanse of water and a distant shoreline under a grey sky. In the foreground, there are several rows of oyster racks made of wooden poles and dark mesh, extending into the water.

# Stiffkey Freshes Oysters

- OUR OYSTER GROWERS LICENCE IS IN PLACE FOR BOTH NATIVE OYSTERS (*OSTREA EDULIS*) AND PACIFIC ROCK OYSTERS (*CRASSOSTREA GIGAS*).

# OUR LOCATION

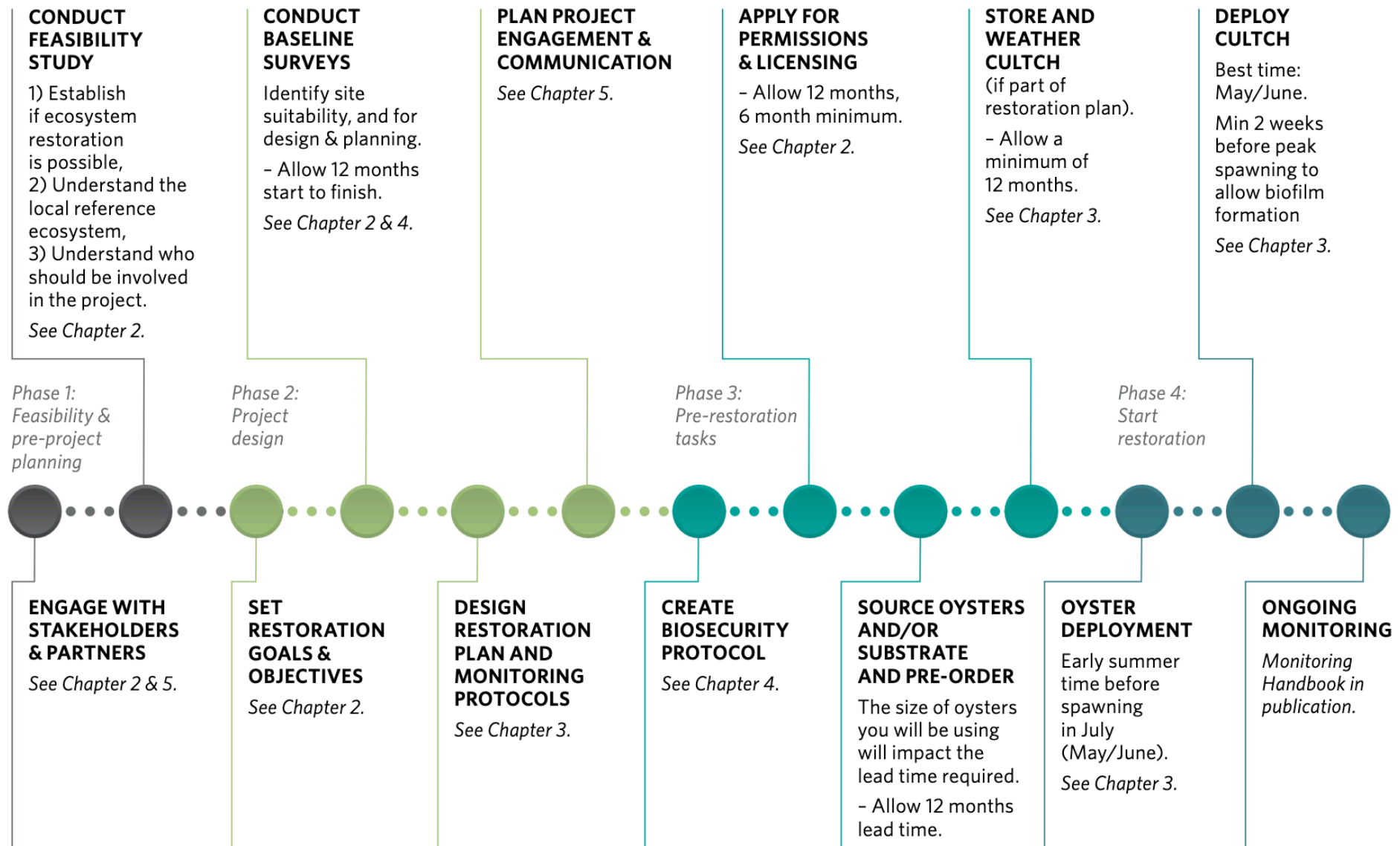




Biogenic reef ...



**T  
Y  
P  
I  
C  
A  
L  
  
T  
I  
M  
E  
L  
I  
N  
E**





[www.norfolkseaweed.com](http://www.norfolkseaweed.com)

[willieathill@norfolkseaweed.com](mailto:willieathill@norfolkseaweed.com)

01328 710003 / 0787 1823002

NORFOLK  
SEAWEEED