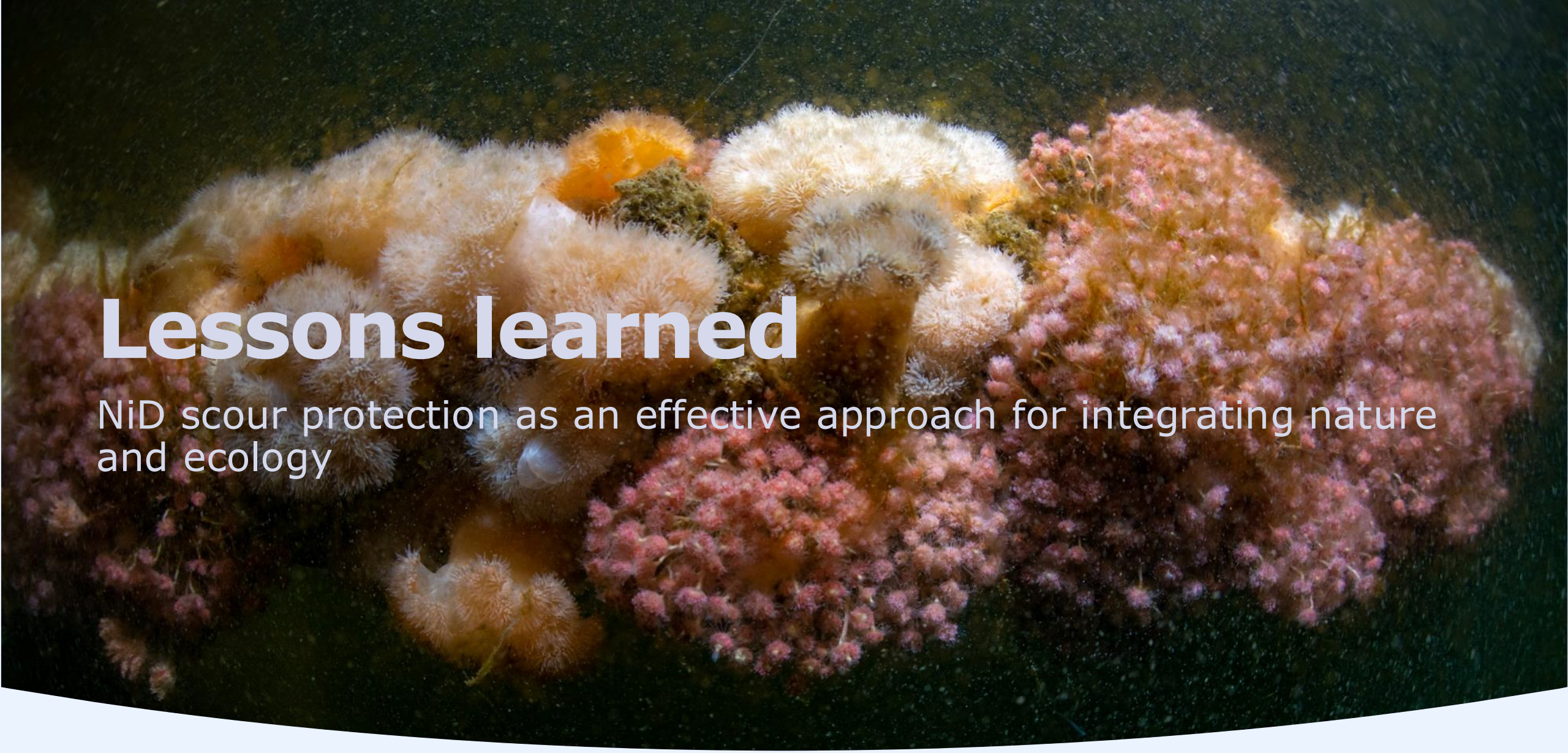


Lessons learned

NiD scour protection as an effective approach for integrating nature and ecology

The Rich North Sea

4-11-2026

Why we started The Rich North Sea

Stichting De Noordzee

NATUUR & MILIEU

- **Started in 2019**
- **5-year program**

Made possible by:

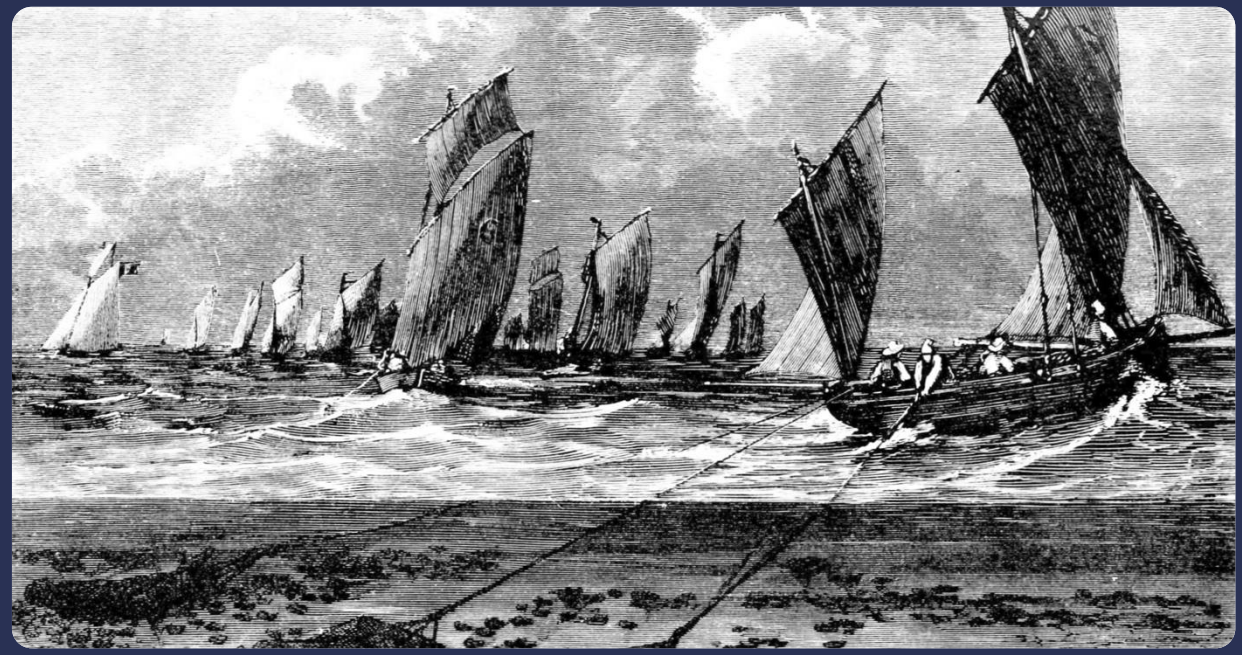
NATIONALE POSTCODE LOTERIJ

The Rich North Sea

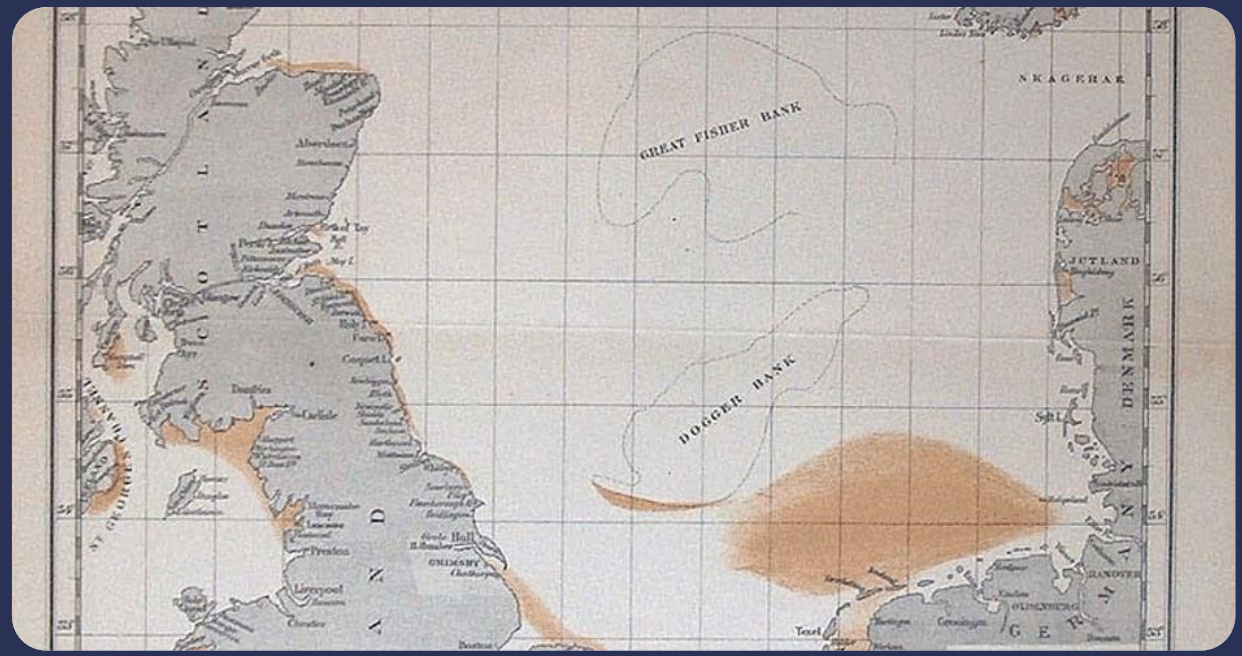


Why restoration is needed

- Louis Fibuier, 1868



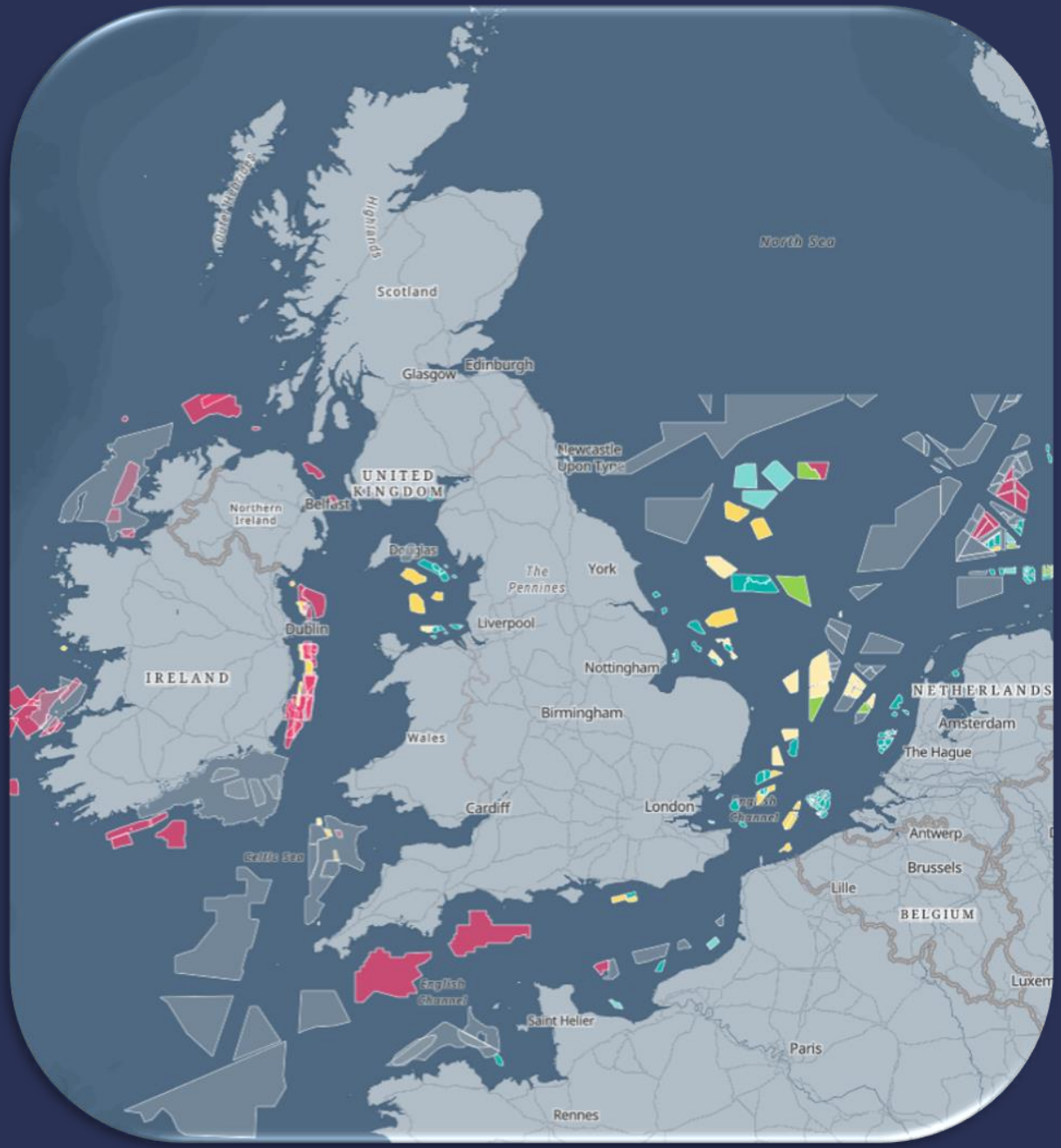
- Piscatorial Atlas, Olson, 1883



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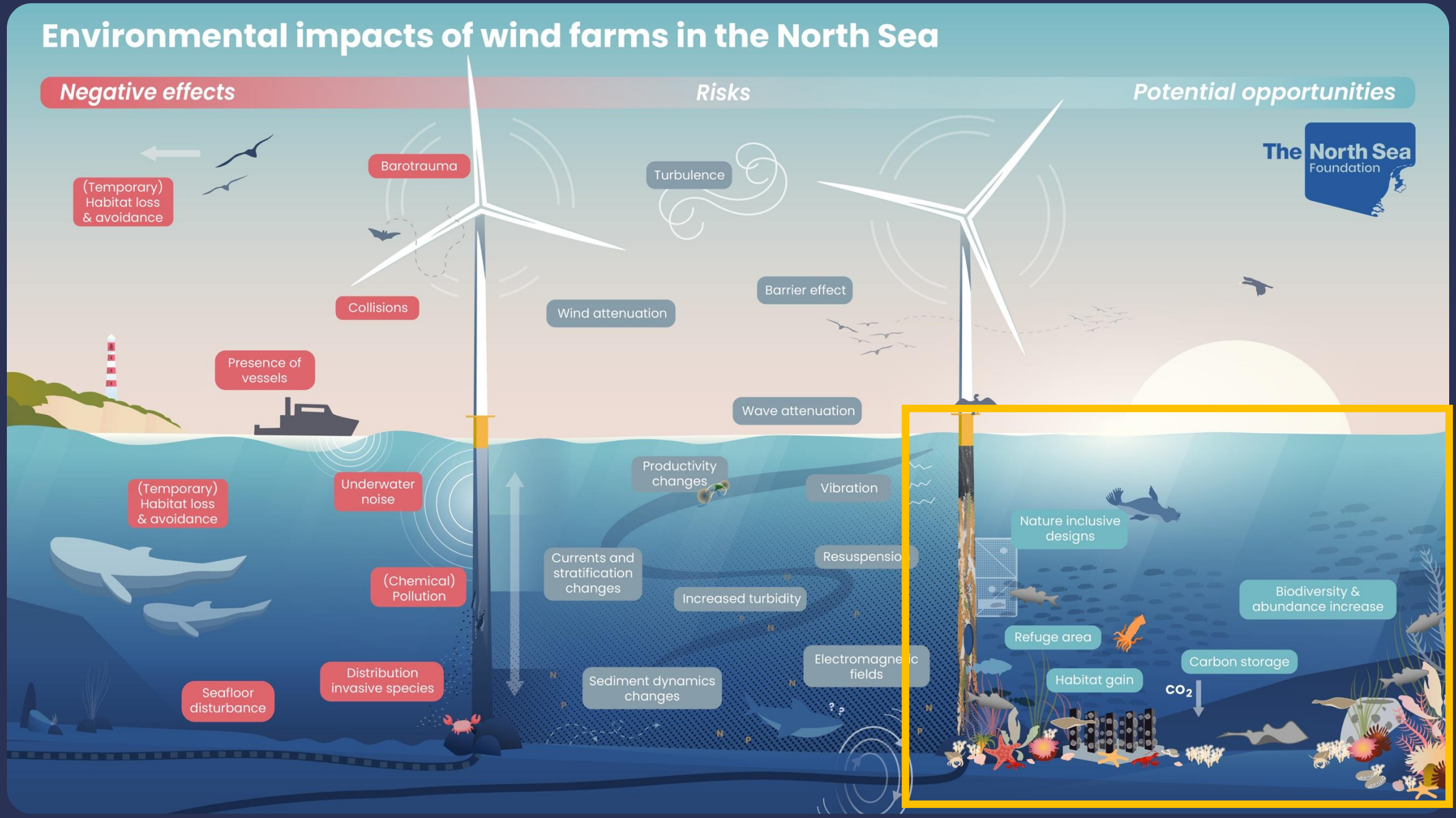
Why restoration is needed

- Ostend Declaration 2023: 300 GW in the North Sea by 2050
- Hamburg Declaration 2026: Scaling up between 2031–2040: ±15 GW per year



The Rich North Sea

Environmental impacts of wind farms in the North Sea

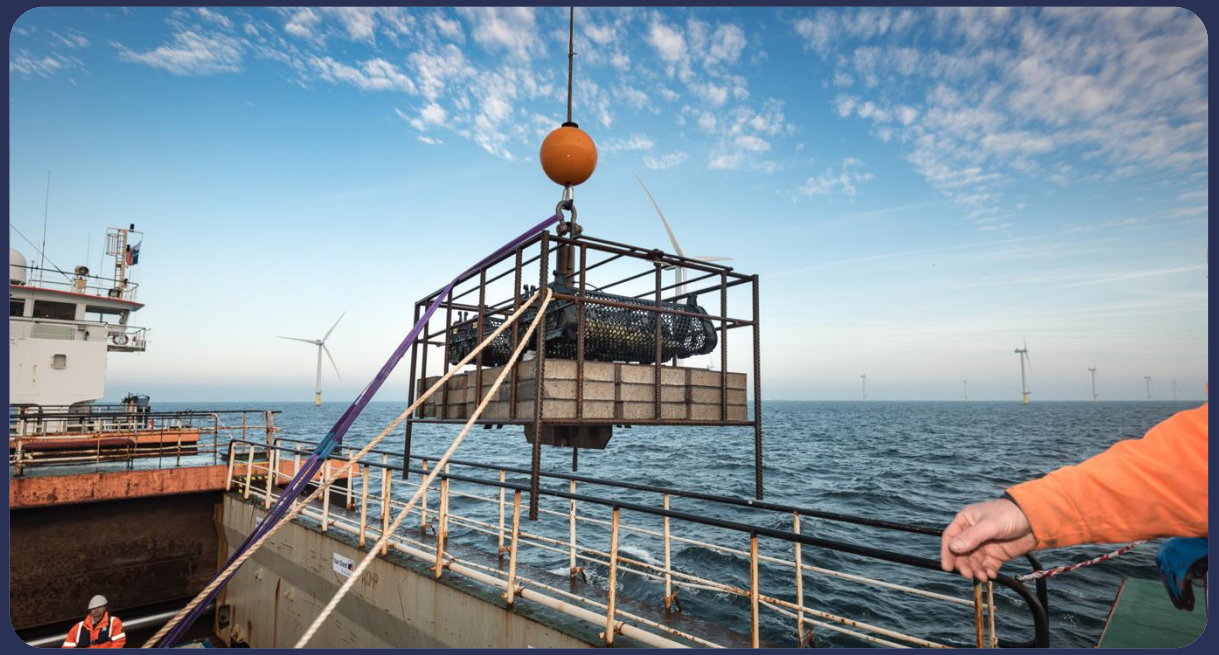


Five years of learning by doing

- Learning-by-doing: insight in possibilities & practical experience
- Start early: integrate ecology at concept and design stage
- Co-design by engineers, ecologists, developers, contractors
- From add-ons to integrated, replicable design solutions



The Rich North Sea




9
25
19





Remote Setting: getting restoration-ready at scale

RESO-Project:

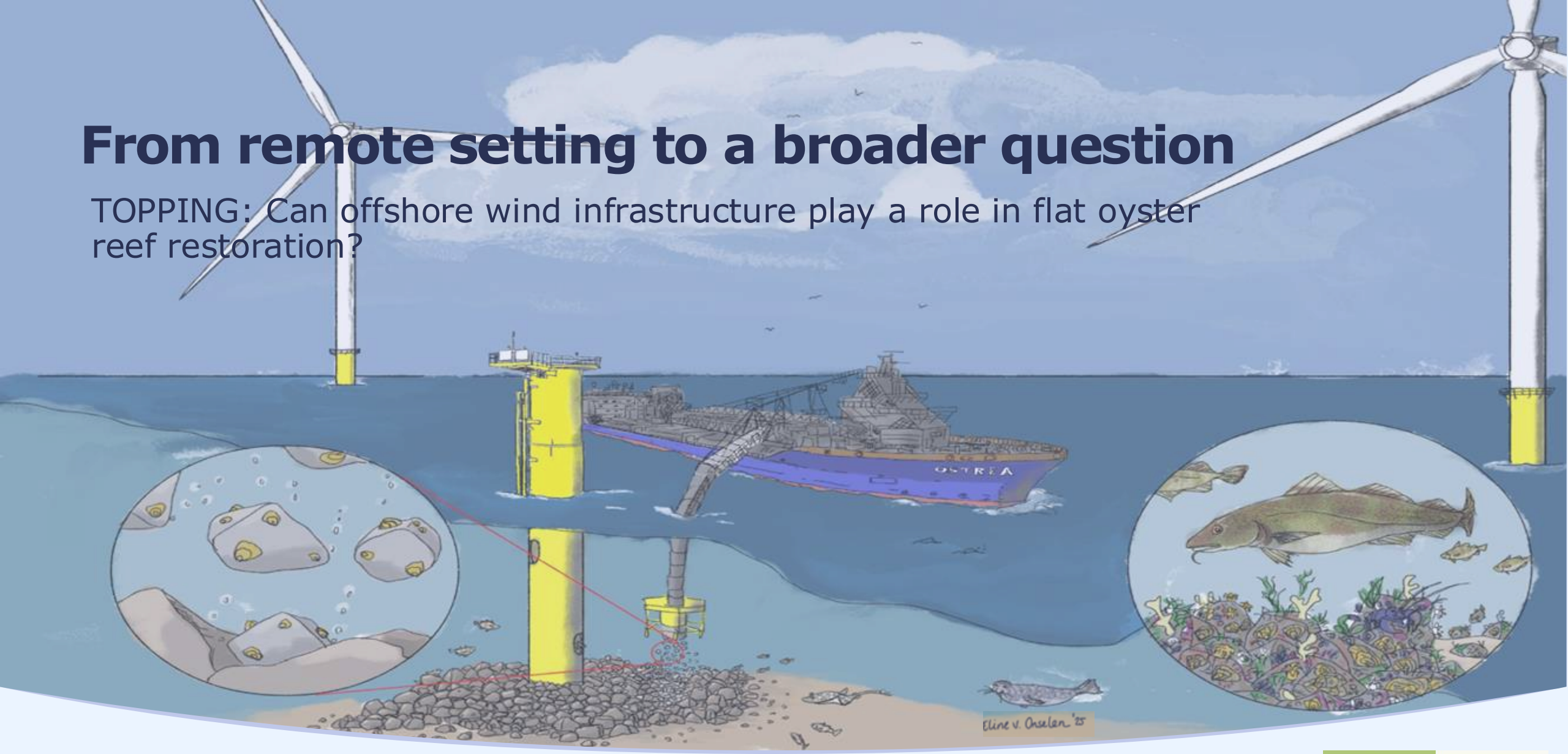
ARK Rewilding Nederland
Port of Rotterdam
stichting Zeeschelp
De Rijke Noordzee
Van Oord Marine ingenuity
TenneT
Waarden Burg Ecology
Wageningen University & Research



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From remote setting to a broader question

TOPPING: Can offshore wind infrastructure play a role in flat oyster reef restoration?



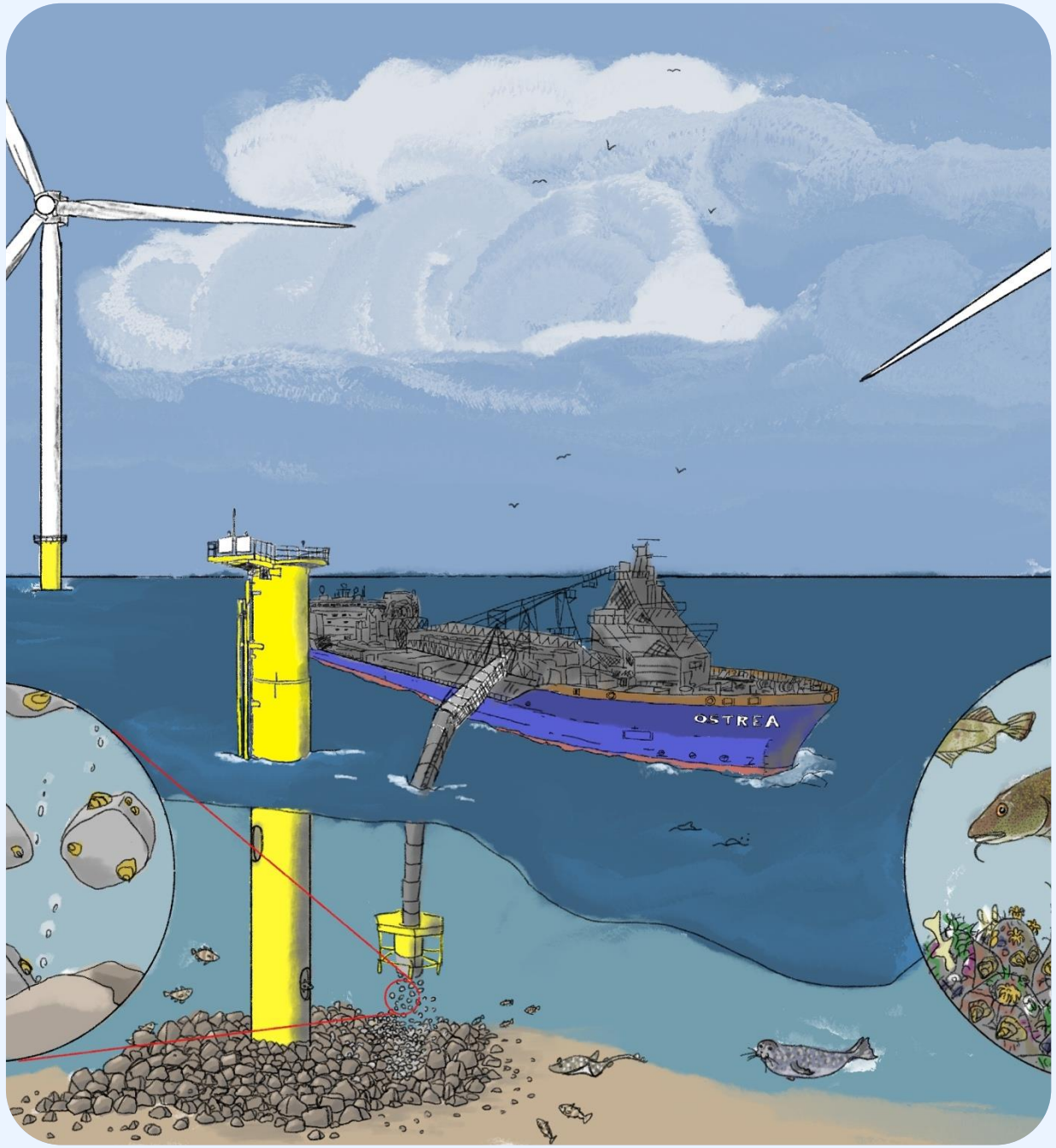
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The Nature Conservancy

NORA Native Oyster Restoration Alliance

Large scale flat oyster reef restoration – supported by offshore wind infrastructure

- Undisturbed seabed & Reef base through scour protection
- Strengthen connectivity
- Not all infrastructure is suitable, but well-connected sites can support restoration at scale.



The Rich North Sea

Timeline



2 – 3 years

-> 2035

TOPPING

- Consolidate lessons learned through collaboration with stakeholders
- Develop practical guidance for large-scale application

SCALE-UP

- Scale up standardized efforts over multiple offshore infrastructure locations.


Thank you!
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