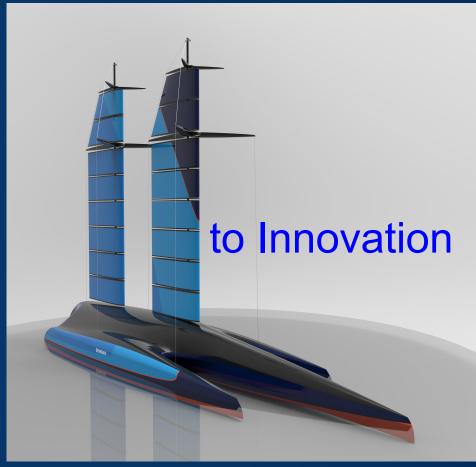
Sail Cargo Network

Sustainable Supply Chains via Wind Propulsion











What is DUAL Ports?



- €5.2m project,
- 50% co-funded by EU & European Regional Development Fund
- Interreg North Sea Region Programme 2014 2020
- Eco-innovation priority.
- 10th of November 2015 till 30th of June 2019.

Objectives:

- Reduce the environmental footprint of regional entrepreneurial ports,
- Improve the sustainability of port operational and administration resources,
- Promote responsible growth and support eco-innovation oriented development.

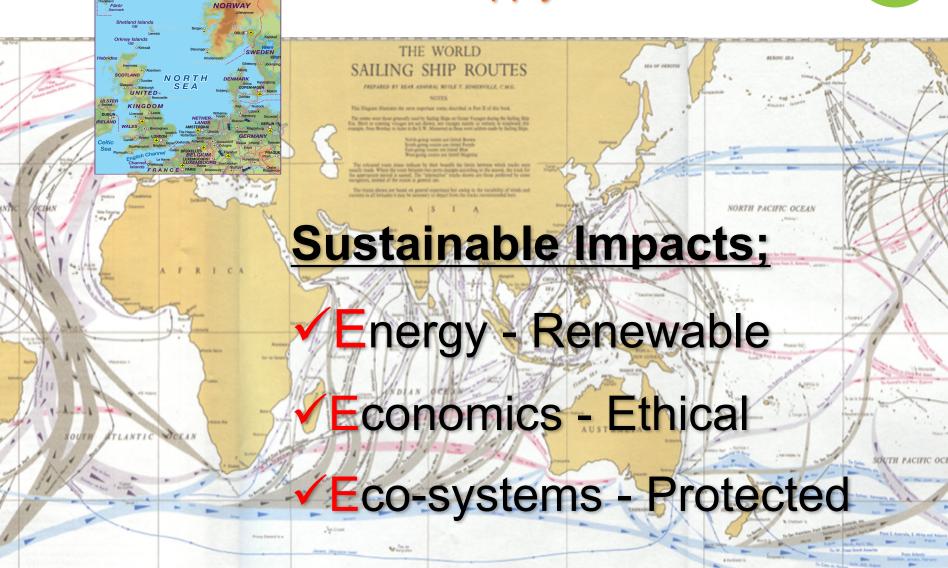
DUAL Ports

Decarbonising port business today



Linking the North Sea Region to an ethical maritime supply network











- Reduce CO2 & Costs
- Establish Sail Cargo Hub Ports
- > Recreate short sea shipping routes
- Support local business



Local Benefits



Reduction of land based transport emissions;

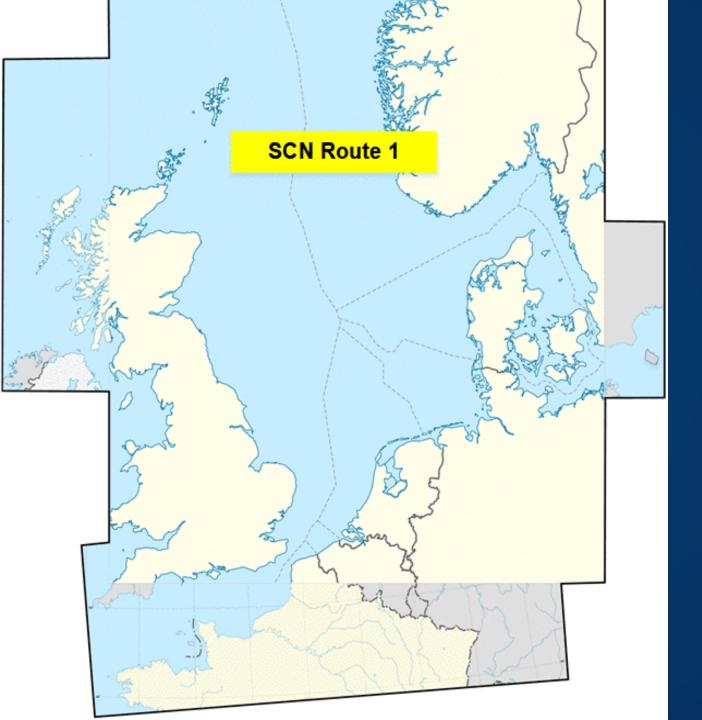
- Farm gate to dinner plate
- Hinterland transport; canals, trains...
- Blue growth/economic development -
- Ship repairs, chandlery
- Crew training facilities
- Tourism, Ethical market/shops
- Heritage, Nautical Museums











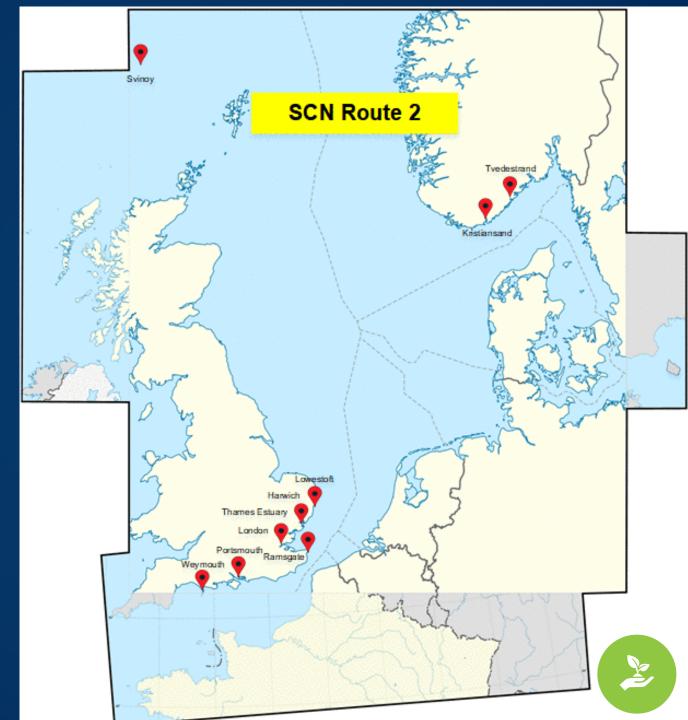


Baltic to Continent



North Sea - Channel









North Atlantic Route

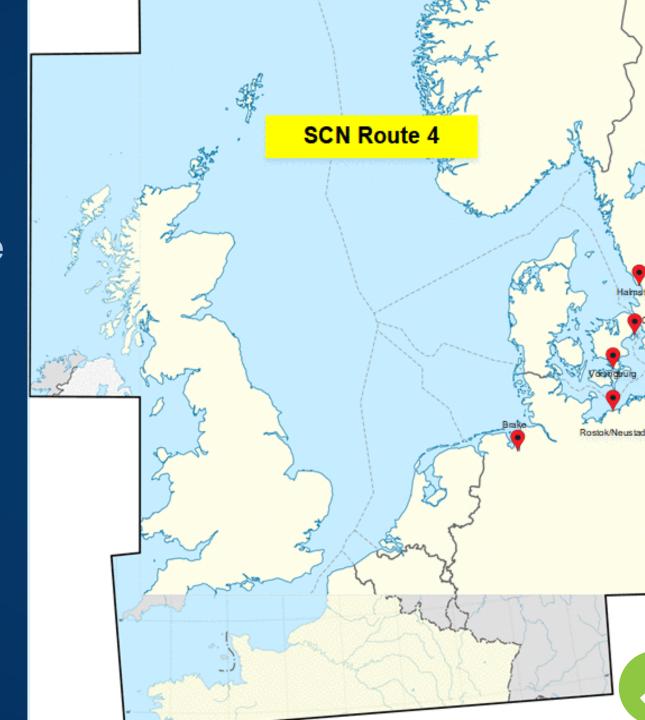
- ♦ Canada
- ♦ France
- ♦ Germany





Short Sea Triangle

- ♦ Baltic
- ♦ North Sea







Sail Cargo Routes Onward Transport

Railways
Canals boats...

Building a network of zero carbon partners





ITM Power Cutting a Bow Wave to a Clean Future

H2 = "Water stuff"





INTEGRATED HYDROGEN ENERGY SYSTEM

100% Renewable energy

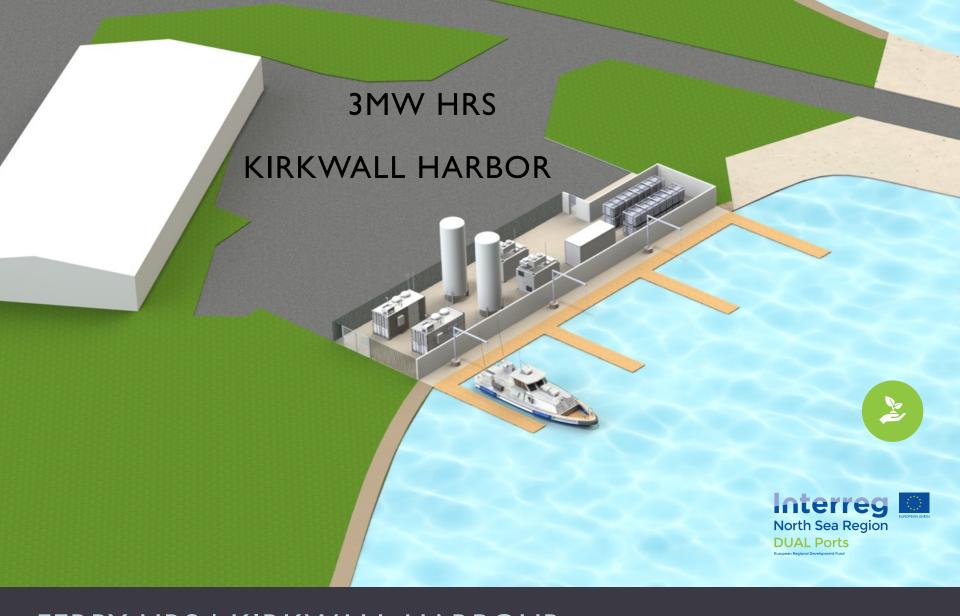
Energy from curtailed wind & tidal

- 1.5MW of electrolysis
- 5x tube trailers
- 75kW CHP fuel cell
- H2 Heating of 2x schools
- HRS
- 10x FC vans
- >2000kg of storage



BIG HIT
ORKNEY HYDROGEN PROJECTS





FERRY HRS | KIRKWALL HARBOUR HYDROGEN REFUELING FOR FERRIES





Sail Cargo Today How can Sail Cargo enhance your ports business case?



