TRIPLE WIN: PIPELINE AND CABLE DECOMMISSIONING FOR SOCIETY MASTS/SUT DECOMMISSIONING WORKSHOP

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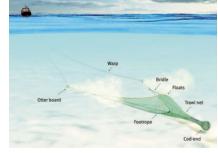
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UKCS SCALE AND CONTEXT

















PIPELINES

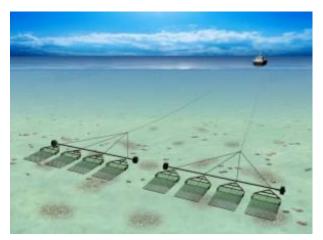
- UKCS ~ 30,000 km of pipeline
- Diameter: 2 to 44 inches
- Length: <0.1 km to >400 km
- Carbon steel, concrete coating, steel alloy, polymer, anti corrosion coating
- Installation methods:
 - Trenched
 - Trenched and buried
 - Surface laid
 - Surface laid and rock dumped

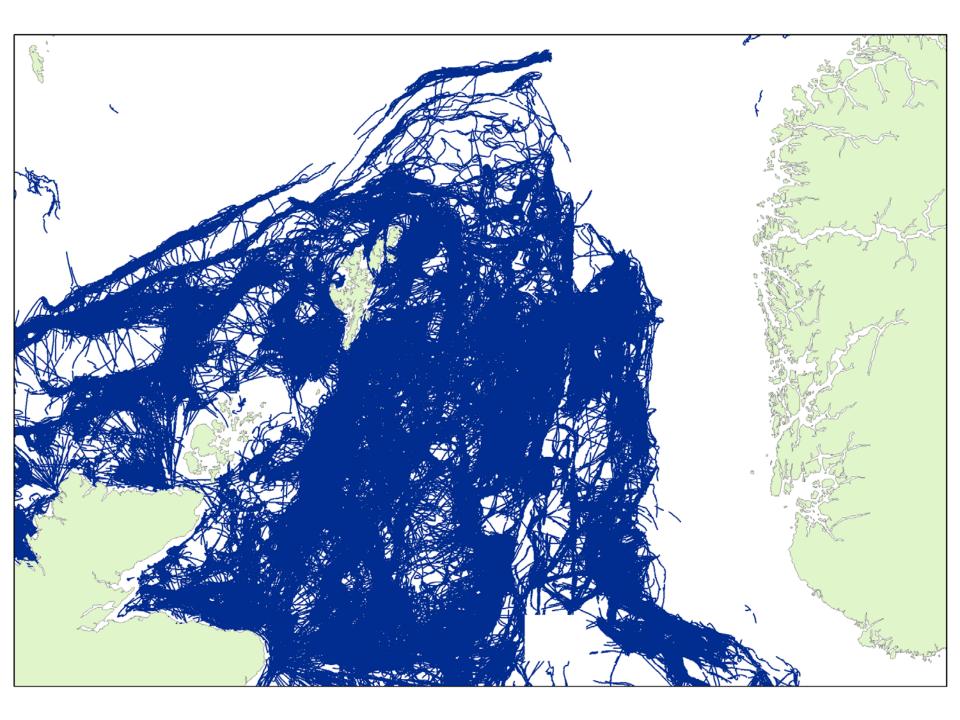


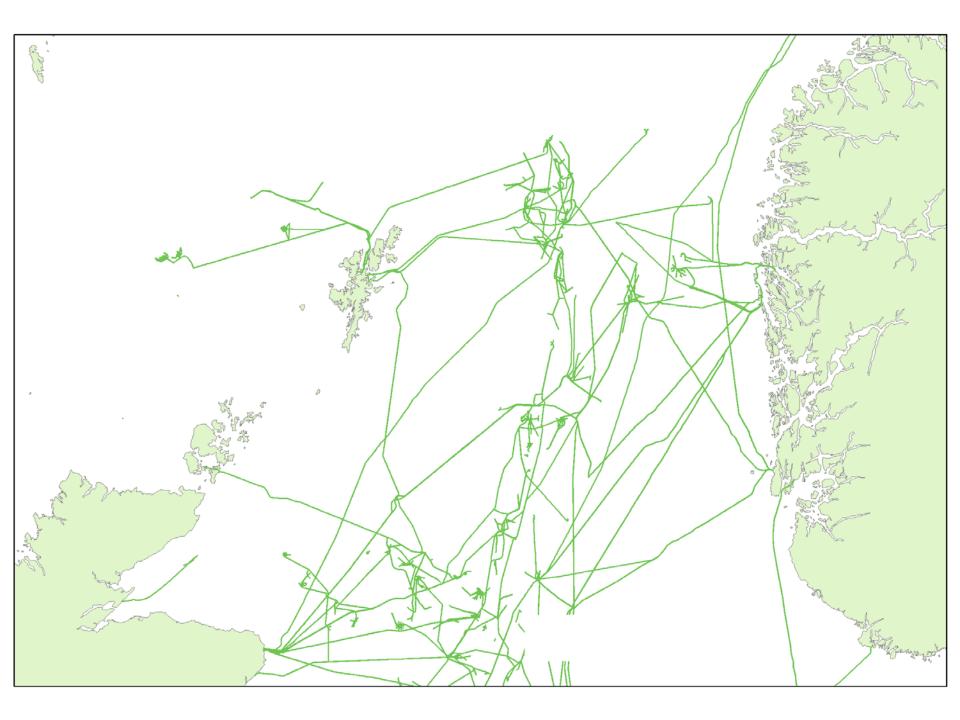
COMMERCIAL FISHING

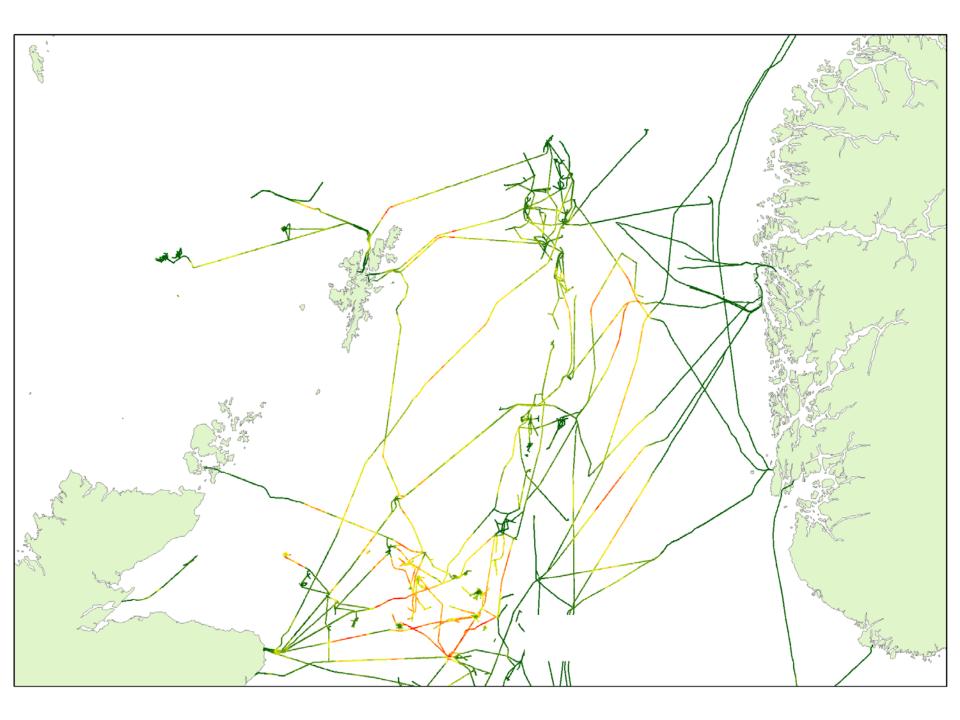
- 2015 ~ 1.9 million km of UK demersal trawl tracks
- Gear type:
 - Demersal
 - Nephrops
 - Dredge
- Fishers interact with pipelines:
 - Deliberate targeting for trawling:
 - Reef effect
 - Safe trawling
 - Coincidental trawling





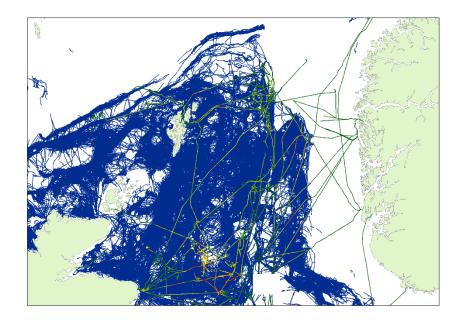






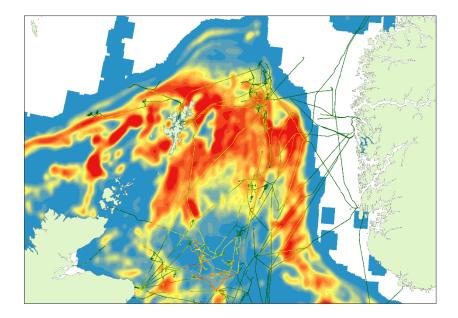
CHALLENGES

- Understand the scale of the interaction between fishing and pipelines
 - How have pipelines been installed
 - Insight into the significance of the problem
 - Industry collaboration
- Understanding the consequences of changes to the location of fishing grounds



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WHERE WE ARE TODAY

- The decommissioning of a legacy
 - Existing oil and gas pipelines
 - Large scale pipeline infrastructure
 - Case-by-case approach
 - Stepwise planning
- Expectation
 - Trenched and buried will remain insitu
 - Surface laid pipelines will have to be removed where possible
 - Appropriate mitigation for pipelines that remain in-situ
- Consequences
 - Permanent legacy of surface infrastructure
 - Interaction with commercial fishing and the environment
 - High decommissioning costs



TRIPLE WIN APPROACH?

- The future of decommissioning
 - Renewables, telecommunication, power supplies, new oil and gas and carbon capture etc
 - Scale of pipeline infrastructure
 - Benefits from new data, technological advances, lessons learned, data management, standardisation of approaches
 - Regional assessment
 - Planning over the project life-cycle
- Expectation
 - All pipelines/cables to be installed by trenching and burial where possible
 - Surface laid pipelines/cables will have to be removed where possible
 - Appropriate mitigation for pipelines left in-situ
- Consequences
 - Reduced scale of long term legacy from surface infrastructure
 - Reduced short/long term interaction with commercial fishing and the environment
 - Reduced decommissioning costs
- Political climate and policy needs 20 to 30 years from now.





Thank you for listening

Questions