

# MAKING DATA SPEAK FOR ALL STAKEHOLDERS:

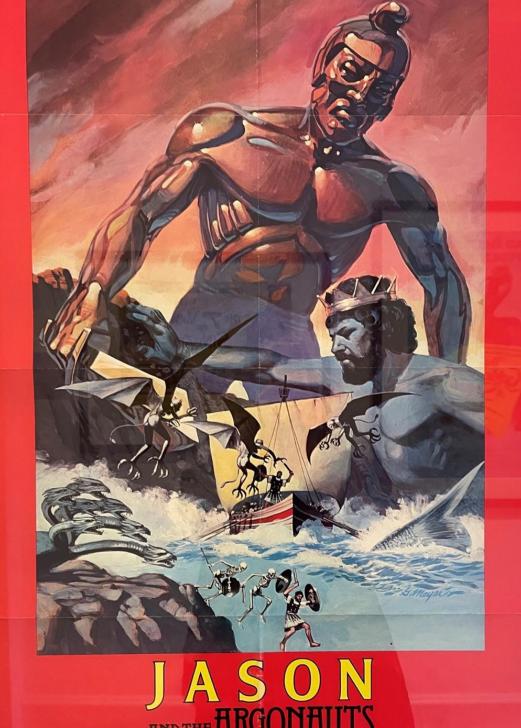
THE "COLLECT ONCE, USE OFTEN" ETHOS IN PERMITTING

1540-1645

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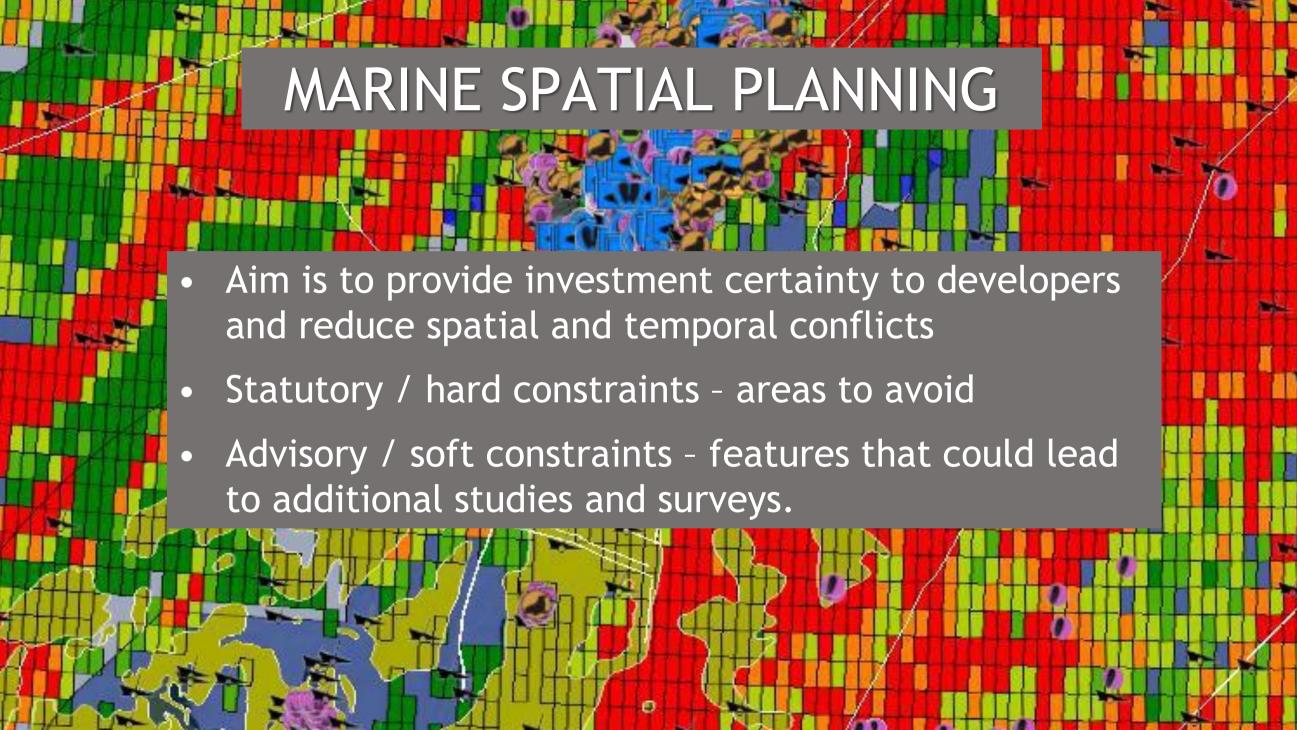
## PERMITTING - THE CHALLENGES

- After finance, permitting is the biggest schedule risk
- Crucial that permit submissions are complete
- Marine Route Survey (MRS) design is key to success



REUNITE. RETHINK. RENEW.





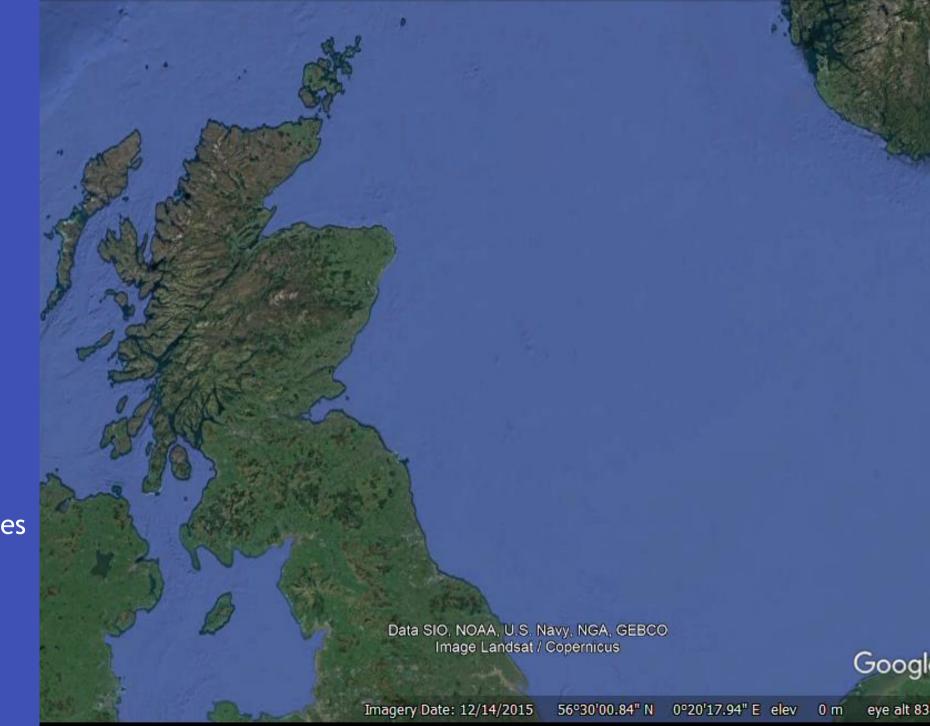
### **Hard Constraints:**

- -Offshore renewables
- -O&G Pipelines and cables
- -Aquaculture
- -Coastal archaeology
- -Designated nature conservation areas seabed features
- -Shipwrecks
- -Recreation & tourism
- -Aggregates industry



### **Soft constraints:**

- -Sandbanks
- -Boulder fields
- -Rock seabed
- -Commercial fishing mobile
- -Commercial fishing static
- -Seabed habitats
- -Shore species & habitats
- -Birds
- -Otters, seals, sea lions, turtles
- -Whales & dolphins
- -Major shipping routes
- -Wastewater discharges



### FILLING DATA GAPS

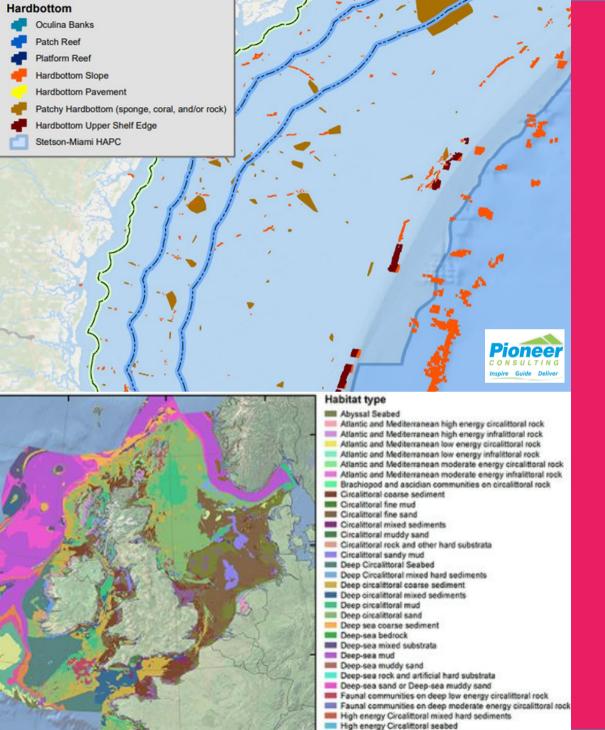
- MRS provides bathymetric profile within a prescribed corridor
- Benthic characterization
- Burial Assessment Study (BAS)
- Sediment Dispersal
- Archaeology / UXO Survey Information

Everything can be scoped into the MRS to save time and cost!









# BENTHIC CHARACTERISATION

- Legislation serves to safeguard sensitive receptors
- Desk-based study should determine requirement for benthic survey
- Authorities generally will not provide feedback on survey design
- Saves time and money if MRS can do the benthic survey - <u>careful scope</u> coordination required





# Data SIO, NOAA, U.S. Navy, NGA, GEBCO

### CABLE PROTECTION

- Authorities want Burial Assessment Study pre- and post- installation
- BAS demand high quality geotechnical sampling, regular (every 2km) in-situ testing along entire route and skilled interpretation
- In reality, BAS unfortunately can be an afterthought or de-scoped during survey contract negotiations
- Done well, this can be a good example of the data re-use ethos







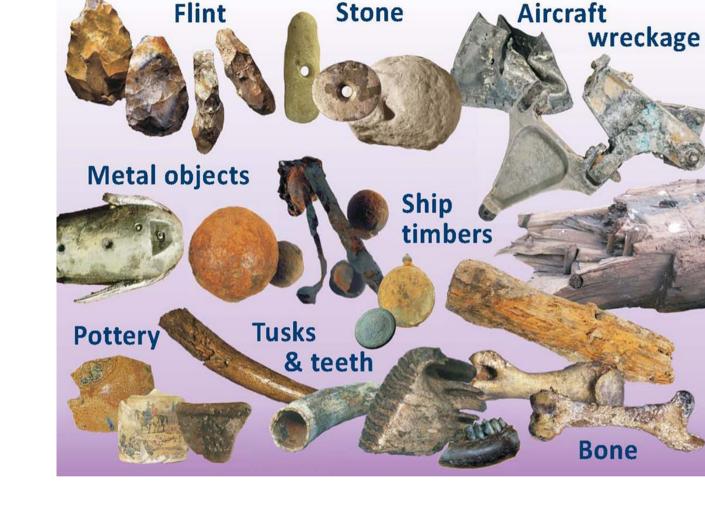
### SEDIMENT DISPERSAL

- Suspended sediments can smother habitats and species
- Contaminant dispersion is an issue especially near food resources
- Storage of sediments require space onboard (freezer)
- If sediments retained, could avoid more surveys and mitigations



### SURVEYING ARCHAEOLOGY

- Archaeology and UXO identification have similar equipment specifications and both require magnetometer array
- Archaeological authorities will provide survey specifications
- Prudent to have a specialist help coordinate this as they will have to provide a report on the MRS data









### MERGING MRS & PERMITTING - THE ISSUES

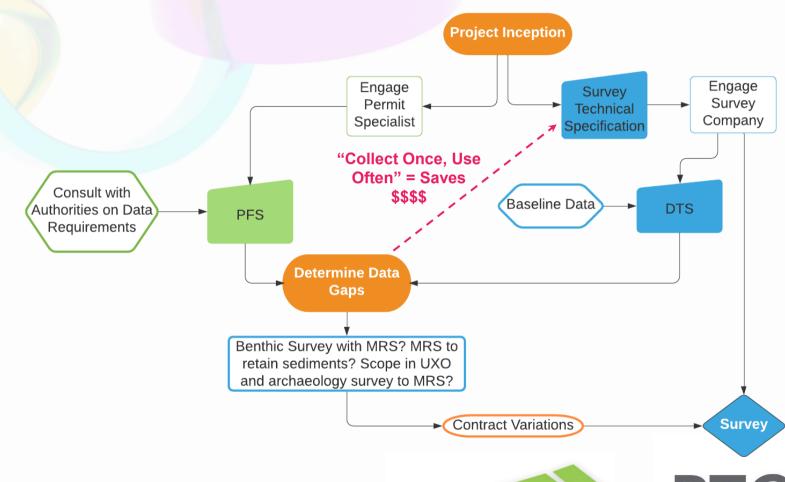
- MRS Technical Specifications usually engineering-specific NOT for permitting
- Integrating the permit requirements adds additional cost (not necessarily planned for)
- De-scoping during survey contract negotiations has the potential to compromise reliability of results and could even mean a requirement for future unplanned-for surveys.







### **CLOSING THE DATA GAP - KEY MESSAGES**











# THANK YOU FOR LISTENING!



