

Enabling Contributions

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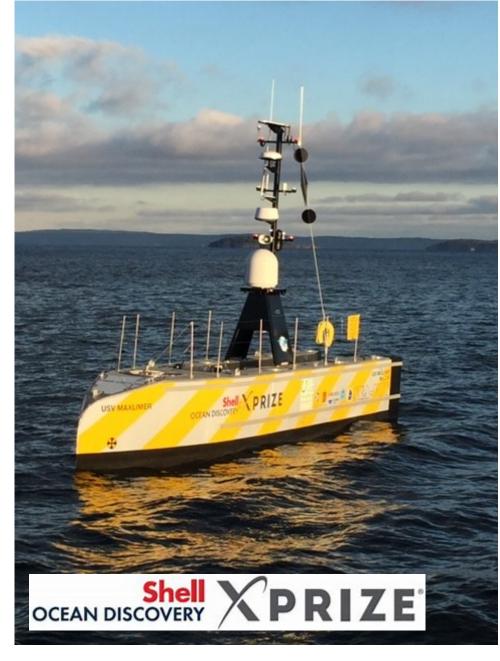
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Agenda

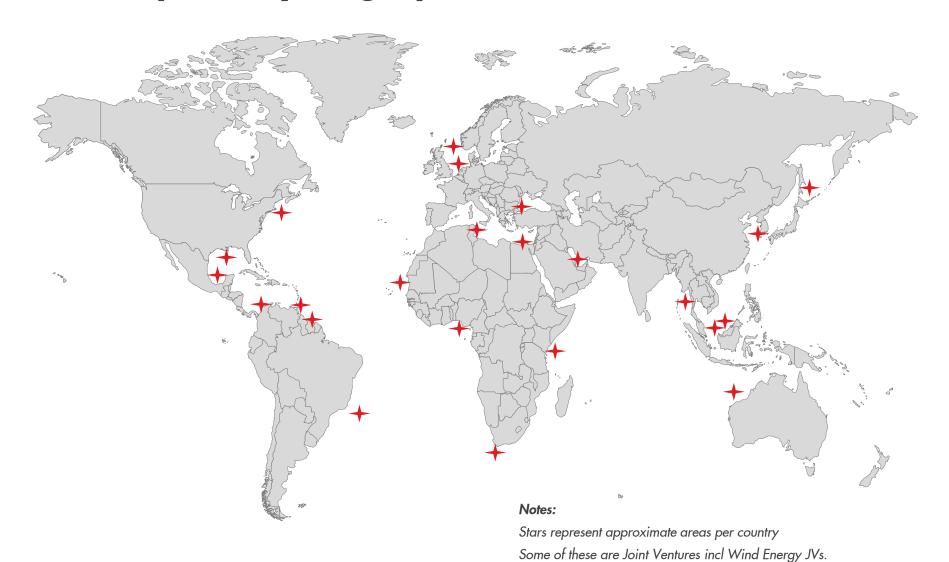
- Introduction the purpose and opportunity of presenting to IHO
- Where Shell operates.
- What hydrographic data does Shell acquire
- Opportunities, Challenges & Recommendations to enable Shell to contribute to Seabed 2030.

Shell Ocean Discovery XPRIZE

- The Shell Ocean Discovery XPRIZE brought global attention to the deployment of robotics to develop capabilities to acquire high resolution seafloor bathymetry at un-precedented amounts.
- Technology developed in the competition is being replicated for the purpose of acquiring bathymetry with a minimal footprint and cost.



Where Shell acquires hydrographic data



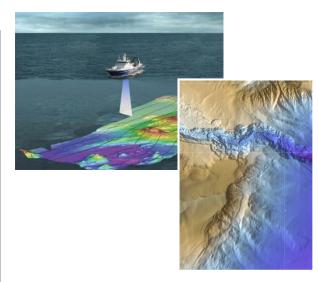
What hydrographic data does Shell acquire?

Seismic Data



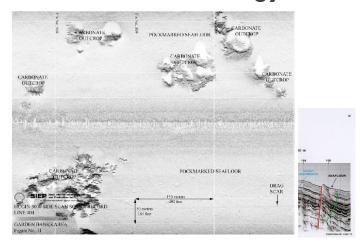
- Large area coverage (2D & 3D)
- First return data from seabed
- Hull acquired single beam echo sounder

Bathymetric Data



- Exploration and reconnaissance surveys
- Site surveys small area
- Potential for transit lines between locations/countries
- Swathe bathymetry

Seabed Characteristics & Shallow Geology



- Site and pipeline route surveys -small area
- Side scan sonar for seabed surface characteristics
- Shallow geology with sub-bottom profilers and/or 2D high resolution surveys
- Soil and environmental samples.

Opportunities, Challenges & Recommendation

Opportunities to contribute to Seabed 2030:

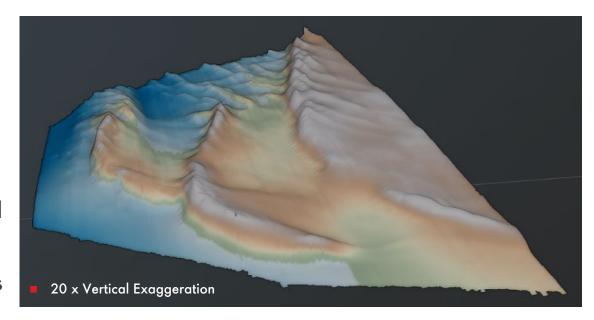
- Shell is acquiring data within country identified jurisdictional boundaries.
- Acquisition of MBES during vessel transits where Shell pays mobilization.

Challenges to contributing to Seabed 2030:

- Shell acquires the data but we do not have permission to share/donate without explicit prior country permission.
- Complex process to seek permission.

Recommendations to enable contributions to Seabed 2030:

- Improve collaboration between country Hydrographic Offices and the Natural Resource Regulator.
- Simplify and reduce permitting requirements for transits through country Exclusive Economic Zones (EEZ).



Observed wrecks charted in a survey

