

# Multi-vessel Surveys

*Polarcus Geophysical Toolbox : Simultaneous acquisition*

## Purpose

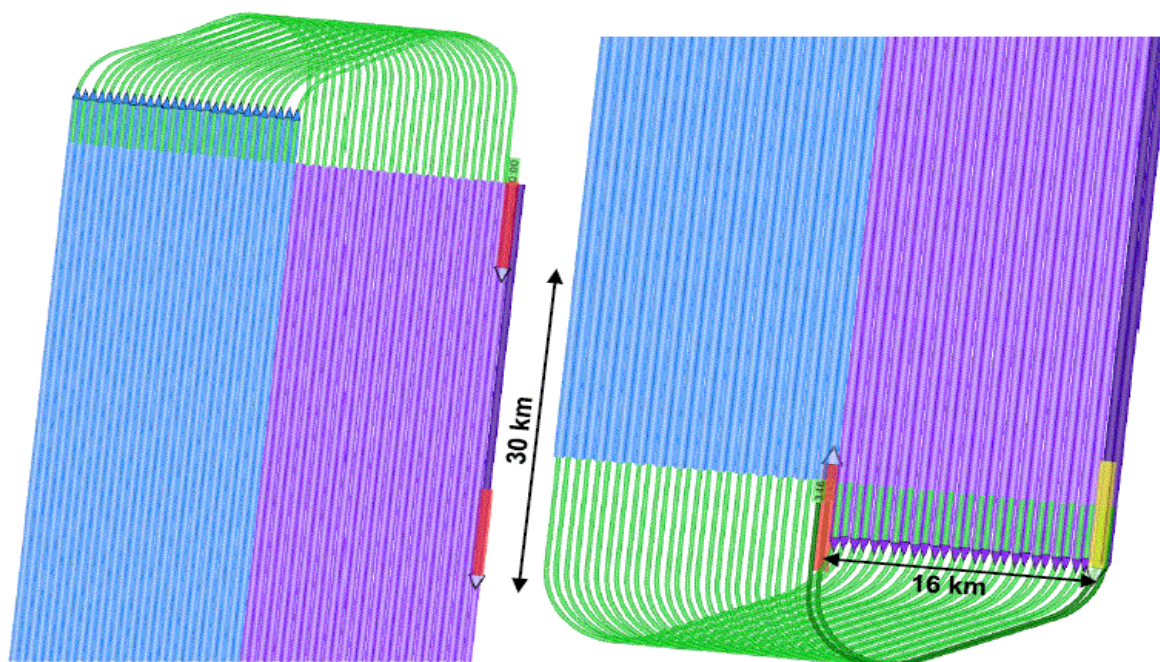
To allow multi-vessel seismic operations without the negative impact of seismic interference. New processing techniques can effectively remove seismic interference contamination, meaning surveys can be acquired with more than one seismic vessel operating simultaneously. Each vessel tows an identical configuration and the vessels acquire data in a coordinated manner, maintaining predetermined distances apart so that the seismic interference can be removed at the processing stage.

## Benefits

- Reduction in survey time and increased production rate, particularly beneficial in remote and/or environmentally sensitive areas where there is a small window of opportunity to complete the project
- Large surveys are acquired faster resulting in less cost to the client even with additional vessels

## Field Example

The example below illustrates a tandem shooting scenario, with two vessels acquiring data on the same pre-plot, steering along adjacent lines. The race tracks of individual vessels are interleaved and designed to maximize separation between vessels, as well as to control the direction of the seismic interference, preferably from ahead and astern. Inline and crossline separations are calculated based on each project's specific geophysical and operational requirements.



Not to scale

## Impact on EHSQ

Polarcus' geophysical initiatives contribute to our Green Agenda by minimizing the time our vessels must spend on location to acquire high quality surveys in a safe and efficient manner. This optimization of survey time reduces the global environmental footprint of our operations and minimizes the exposure of our crews in the remote regions of the world where our vessels are designed to operate.