Remote Piloting of ROVs for Over-the-Horizon Operations
What is Dynamic Positioning

- MBI Sonar
- DVL
- Depth
- Heading
- Absolute Reference

UI

DP Computer

Reference Systems

ROV Control

Joystick

Propulsion System
Dynamic Positioning Features

See charts and sonar data

ROV in centre of Screen

Drop waypoints in Screen or pre-survey

Choose your altitude/depth
Local Control Loop

MBI Sonar
DVL
Depth
Heading
Absolute Reference

DP UI
Joystick
DP Computer
ROV Control
Reference Systems
Propulsion System

Vessel
USV
Remote Control Loop

- MBI Sonar
- DVL
- Depth
- Heading
- Absolute Reference

DP UI → DP Computer → Reference Systems → ROV Control → Propulsion System

Joystick

Vessel

USV
Future ROV Operations

• USV - ROV Operations
  – Significant advantages in many scenarios

• UI artefacts may still be an issue

• Technology applicable to shore-based pilots
Any Questions?