



An innovative approach to confined space inspections

CAN Group

OVERVIEW

CAN's client, a major operator within the energy sector, required a detailed inspection of **confined marine spaces** on an FPSO to support ABS class survey requirements. Conventional methods presented many challenges, including safety risks with confined space entry, scaffolding or rope access requirements to achieve close-up coverage, and limited visibility along with complex internal geometry.

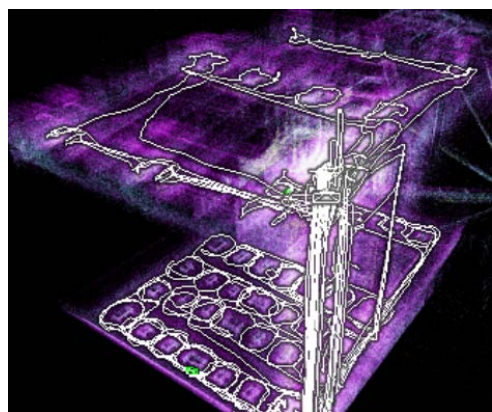


The CAN-Do Solution

CAN proposed an alternative approach of deploying its Robotic Solutions and expertise to assess several regions within the ABS classified vessel. The smart solution would help obtain ABS-acceptable close-up inspection data while reducing personnel exposure, offshore logistics, and asset downtime.

Deployment Strategy

- > Two-person inspection team
- > Elios 3 Technology with collision-tolerant protective cage
- > 4K Visual Camera
- > LiDAR sensor for 3D mapping & dimensional verification
- > UTM capability for localized structural thickness verification
- > High-intensity onboard lighting for low-light environments



The Outcome

A safer, more efficient and data-rich inspection

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| ★ ABS close-up inspection objectives achieved using high-resolution imagery | ★ Areas of coating breakdown and localized corrosion identified for follow-up |
| ★ LiDAR-generated 3D models supported spatial context and defect localization | ★ Inspection completed without personnel entry into confined FPSO spaces |