



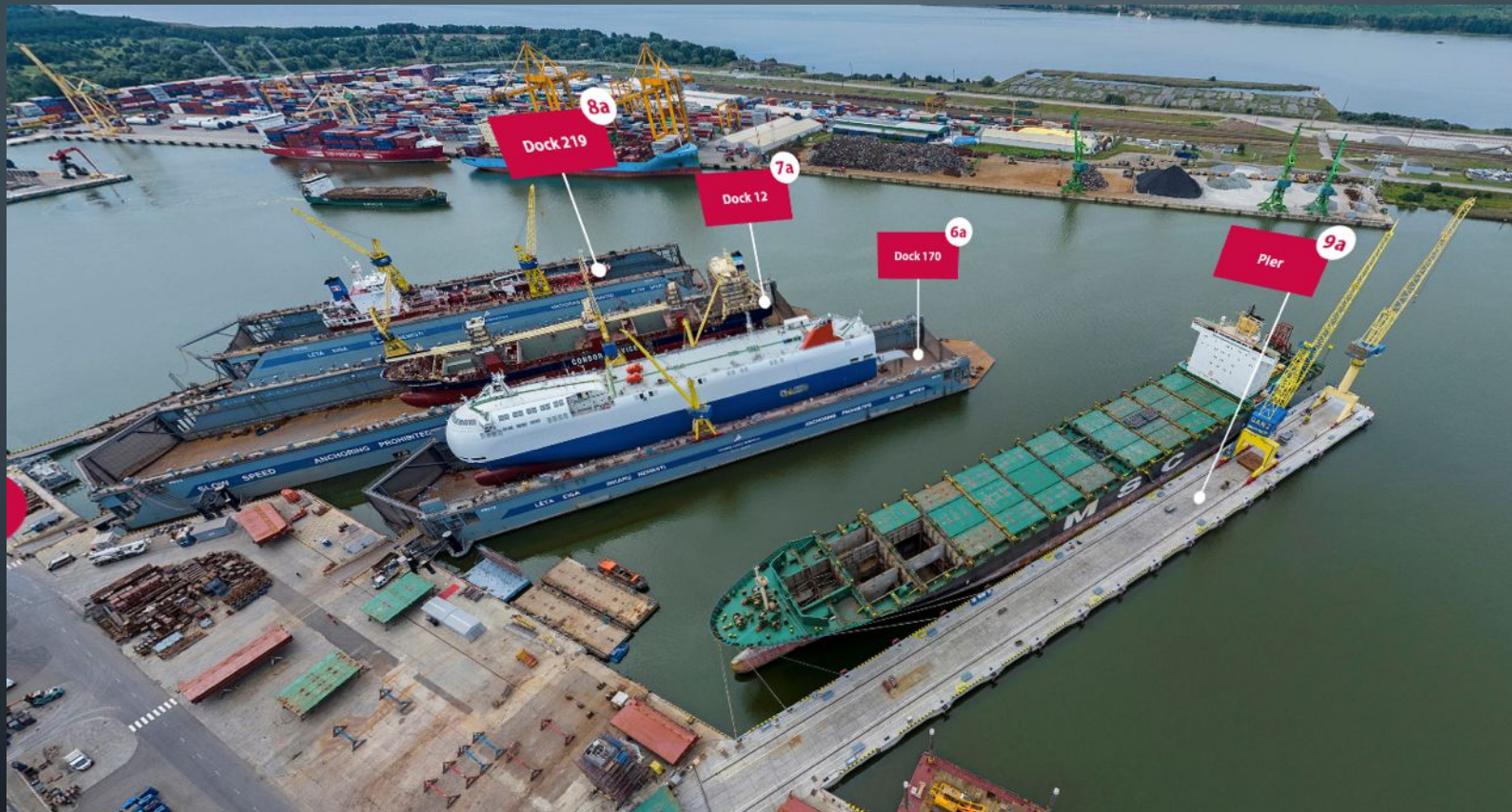
R/V *Marcus G. Langseth*



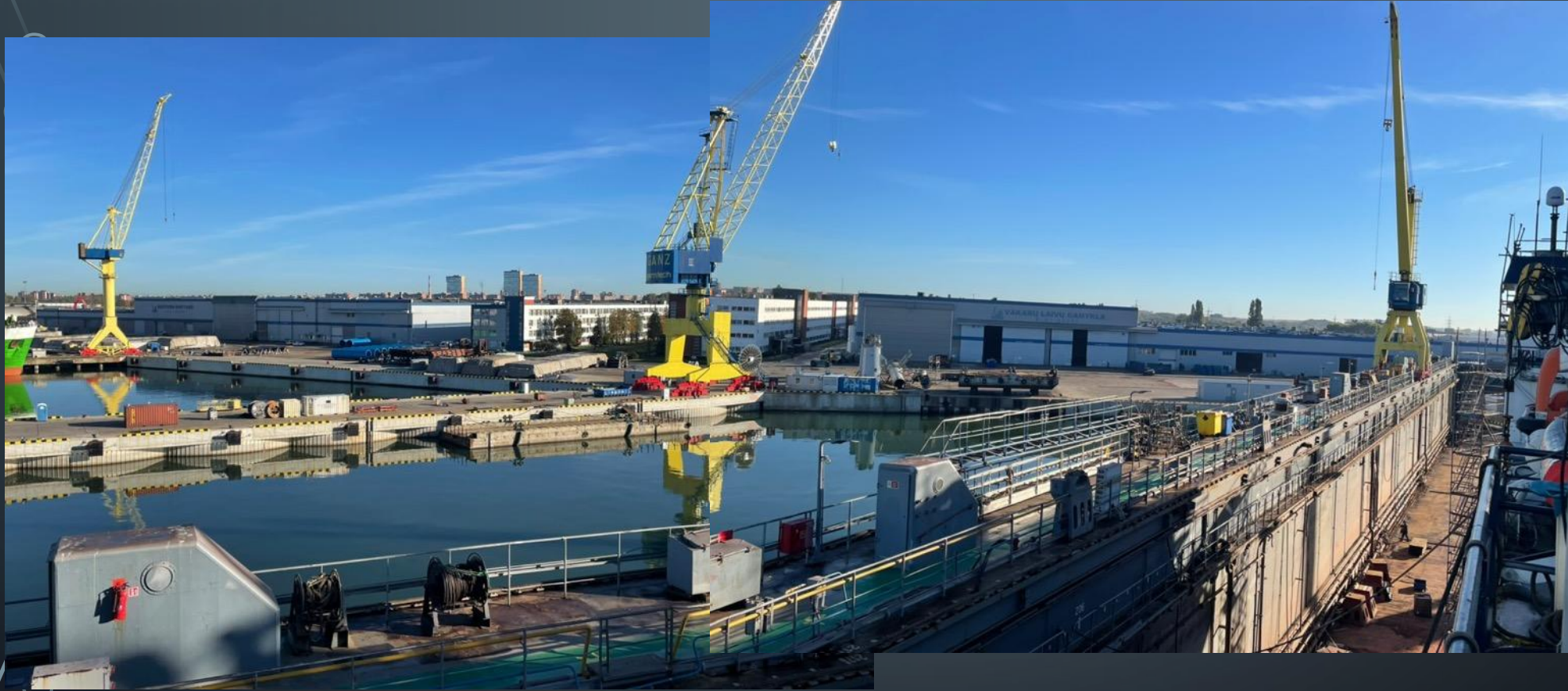
UNOLS Annual Meeting – November 20, 2024  
L-DEO Office of Marine Operations

Lamont-Doherty Earth Observatory  
COLUMBIA UNIVERSITY | EARTH INSTITUTE

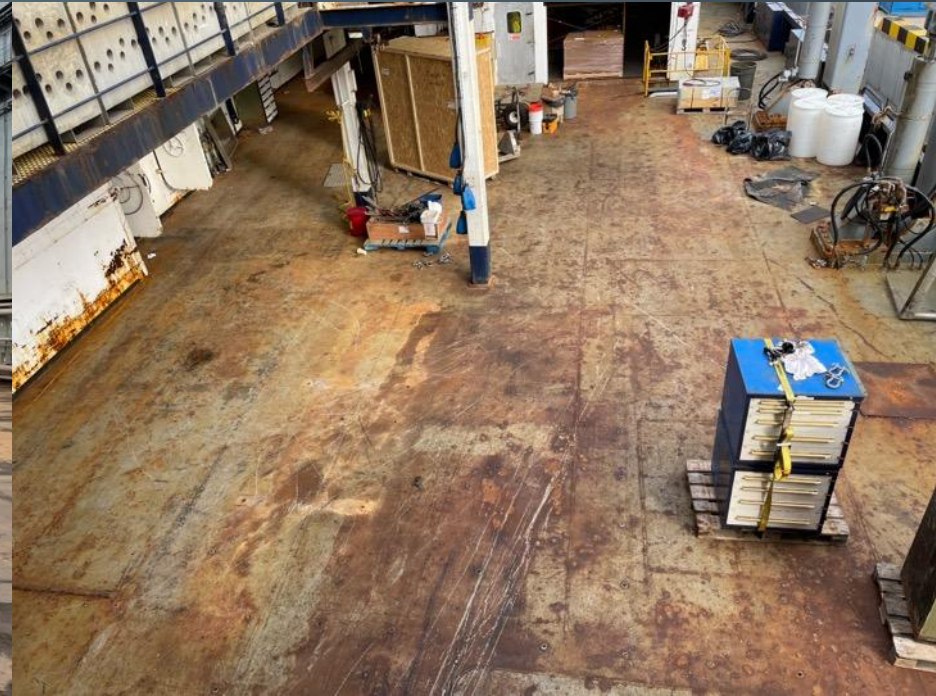
# Langseth Shipyard in Klaipeda, Lithuania Western Shipyard –BLRT Group



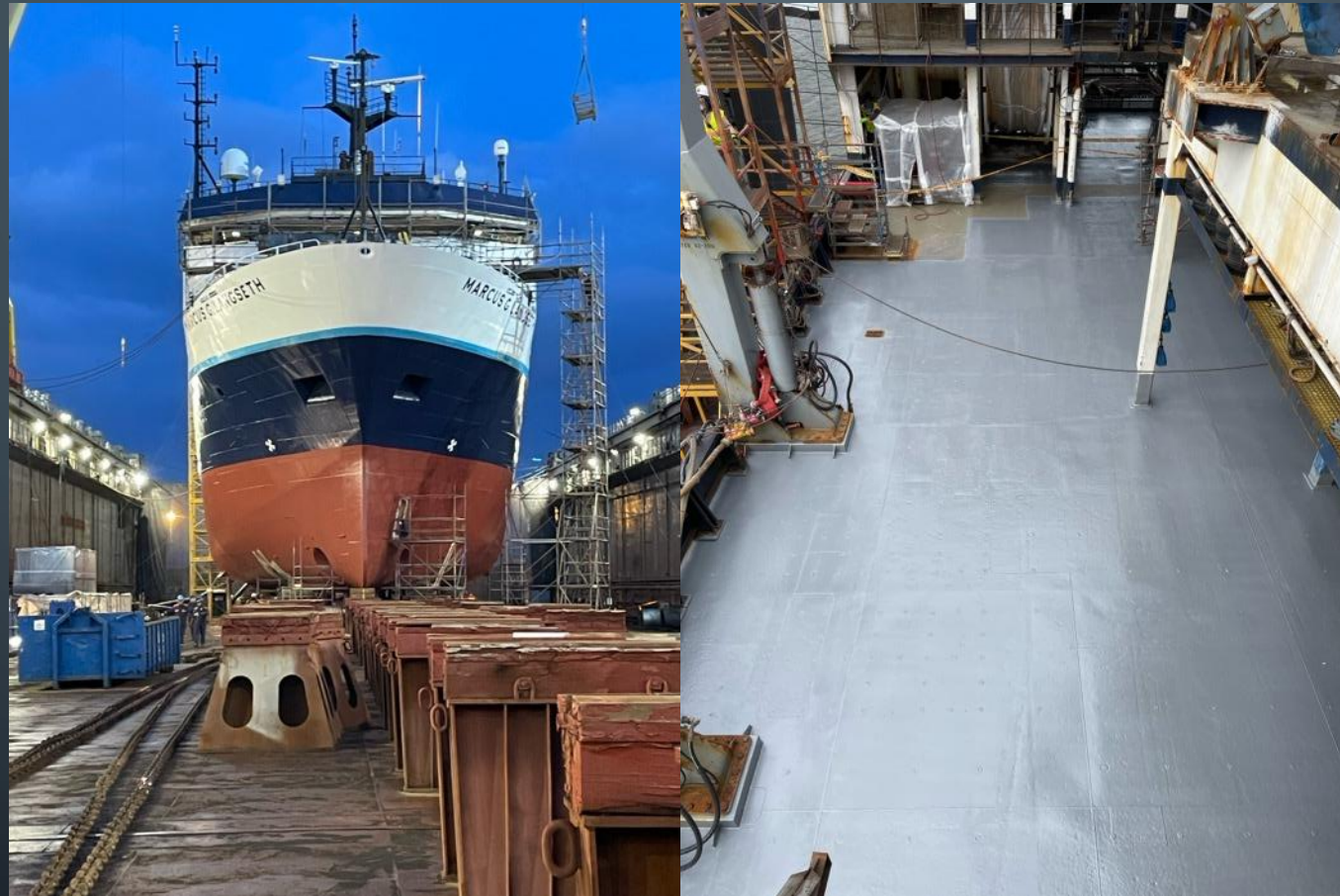
# Western Shipyard Facilities



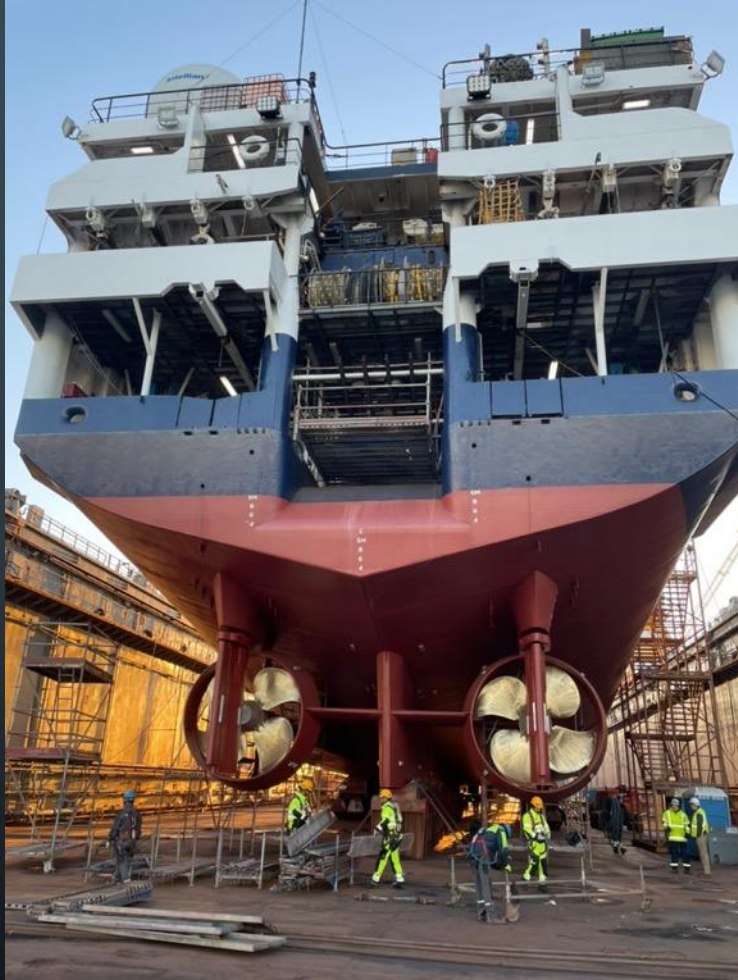
# BEFORE



# AFTER



## Aft Ballast Tanks –Steelwork, Sandblasting and Painting



## Rudder Overhauls



14 Bathroom Floors/Surrounds



10 New ER –Exhaust/Supply Fans



# Abundant Steelwork





## OTHER CRITICAL WORK

- 1) Upgrades to Engine, Alarm and Bow Thruster Controls
- 2) Piping Everywhere
- 3) Overhaul of Gun Rails and Gun Shop
- 4) Overhaul of Supply Plenum -Bridge Deck to ER
- 5) HVAC Units in Rooms and Bridge
- 6) New Doors and Floors



# LANGSETH REPLACEMENT -PART 2

## WHAT'S NEXT ?

- 1) New or Refit ?
- 2) Ship Brokers – What's Available in Used Market
- 3) Glosten Conceptual Models of Both New and Refit
- 4) Meetings with CU and LDEO Admin on Planning and Fundraising
- 5) Advising FIC, MSROC , UNOLS and NSF

The background is a dark blue gradient. In the four corners, there are decorative white line-art patterns resembling circuit boards or neural networks. These patterns consist of thin lines that branch out and terminate in small circles, creating a sense of connectivity and technology.

# LANGSETH REPLACEMENT – PART 3

## BUSINESS MODEL FOR OPERATIONS

# 2024 SCHEDULE – 290+ DAYS

2024 Langseth Draft-Rev.6, Dec 2023		
		<i>Calendar Dates</i>
	<b>PROJECT</b>	
	NOAA Norfolk- Maintenance	1-14 Jan
	Mob NOAA A13.5S Norfolk	15-Jan
MGL24-01	Transit -Norfolk ->Cape Verde, 3250nm	16-29
	Mob NOAA A13.5S Cape Verde	30-31 Jan
MGL24-02	NOAA A13.5S	1 Feb- 23Mar
	Demob Noaa A13.5S	24-25Mar
	Maintenance - Cape Town	26-28Mar
	Mob Beal Quicche	29-30 Mar
MGL24-03	Beal Quicche	31Mar- 5 Apr
	Demob Beal Quicche	6-7 Apr
MGL24-04	Transit - CapeTown to Walvis Bay, 725nm	8-10 Apr
	Mob Mason N20 Walvis Bay	11-12Apr
MGL24-05	Mason N20	13Apr-2 May
	DeMob Mason N20 Walvis Bay	3-4 May
	Maintenance - Walvis Bay	5-May
MGL24-06	Transit - Walvis Bay to WHOI ,6130nm	6 May - 31 May
	Maintenance -WHOI	1June-3 June
	Mob Haley Multicore WHOI	4 June -6 June
MGL24-07	Haley Multicore	7 June- 25 July
	Demob Haley Multicore Reykjavik	26-28 July
	Mob Jones Impulse Reykjavik	29-30 July
MGL24-08	Jones Impulse 2d/OBS	31 July- 6 Sept
	DeMob Jones Impulse Reykjavik	7-8 Sept.
	Maintenance -Reykjavik	9-10 Sept.
MGL24-09	Transit -Shipyard (TBD)	11-17 Sept
	Shipyard Drydock - LOCATION TBD	18 Sept.- 9 Nov
MGL24-10	Transit -Shipyard (TBD) - Cape Verde	10 -16 Nov
	Mob Warren Chain2D/OBS - Cape Verde	17 Nov- 19 Nov
MGL24-11	Warren Chain2D/OBS - Cape Verde	20Nov - 19Dec
	DeMob Warren Chain2D/OBS - Cape Verde	20Dec - 21Dec
	Maintenance -Cape Verde	22-31 Dec

# LANGSETH – FUTURE OPERATIONS

- 1) Extended to at least late 2026
- 2) NSF Ship Inspection –February 2025
- 3) Shipyard Late 2026 to Extend Further
- 4)MSROC has Regional Plan thru 2028