

Fleet Robotics FleetBOT™

PROBLEM STATEMENT

Shipyards lack real-time visibility into hull condition until vessels arrive for maintenance, leading to surprise findings, extended dry-dock schedules, and reactive maintenance cycles. Skilled labor is diverted to routine hull cleaning, reducing capacity for critical repairs. This visibility gap extends maintenance timelines and strains Navy readiness.

BENEFITS

- **Accelerated Triage:** Identify hull integrity issues, biofouling, and coating anomalies
- **Real-Time Visibility:** Condition data before and during maintenance events informs targeted repair prioritization
- **Labor Efficiency:** Autonomous hull cleaning and inspection frees skilled personnel for high-value repairs
- **Schedule Confidence:** Reduced surprise findings keep vessels on maintenance schedules
- **Fleet Readiness:** Predictive intelligence supports continuous operational availability

TECHNOLOGY SOLUTION

Fleet Robotics' FleetBOT™ system deploys rapidly in drydock and wet dock environments to autonomously inspect and maintain ship hulls. The robot collects over one million geo-stamped data points per mission, powered by AI-driven analytics that detect structural, coating, and biofouling anomalies. Real-time condition reports feed directly into shipyard maintenance planning and Navy asset management systems, transforming hull maintenance from reactive to predictive operations.

GRAPHIC

