

Restoring America's Maritime Dominance With Real-Time Location System (RTLs)

Over **80%** of Navy ships exceed budget and only **36%** of surface ship repairs finish on time. These persistent delays demand a modern, integrated response—delivered by C5MI's Live Warehouse®.

Live Warehouse®: Real-Time Visibility and Control

C5MI's Live Warehouse® platform unifies precision tracking technologies into a digital twin of the shipyard, providing real-time visibility of materials, tools, and personnel. This single source of truth eliminates delays and drives faster, more accurate operations throughout shipbuilding and sustainment.

- **Asset Traceability:** Tracks every material and tool from receipt to consumption with sub-meter accuracy for complete visibility and accountability.
- **Workflow Automation:** Replaces manual transactions with automated processes to reduce errors, speed throughput, and standardize operations.
- **Live Operational Dashboards:** Delivers real-time alerts and performance metrics to support proactive decisions, rapid response, and continuous improvement across teams.
- **Digital Quality Control:** Enables paperless documentation and compliance checkpoints to reduce rework, inspection delays, and audit risk throughout the process.
- **Search Time Reduction:** Minimizes time spent locating materials and tools, freeing up labor for higher-value tasks and reducing production slowdowns.



Automated Logistics for Shipyard Efficiency

C5MI's integration of KINEXON® OS and SAP® EWM transforms warehouse operations into a predictive, event-driven system. It aligns material flow with production needs, reduces waste, and supports continuous improvement with real-time performance data and intelligent automation.

- **Dynamic Task Sequencing:** Automates task order based on available resources and production flow to reduce bottlenecks and improve throughput across operations.
- **AI-Driven Forecasting:** Anticipates material needs and identifies constraints before they impact production schedules, enabling more intelligent planning and fewer delays.
- **Event-Based Logistics:** Uses real-time triggers to shift from push to pull material flow, enabling just-in-time delivery and reducing excess inventory.
- **Integrated Compliance Tracking:** Embeds quality checks, audit trails, and regulatory compliance into every step of the logistics process, ensuring traceability and accountability.
- **Cycle Time Optimization:** Continuously improves throughput by analyzing performance data and reallocating resources to reduce idle time and delays.



Strategic Alignment With the Maritime Action Plan



The April 2025 Executive Order on *Restoring America's Maritime Dominance* calls for urgent modernization of U.S. shipbuilding. C5MI's solution directly supports this mandate by addressing cost overruns, schedule delays, and supply chain inefficiencies. With a fully functional prototype and scalable deployment model, Live Warehouse® is ready to deliver immediate impact across Navy shipyards—empowering operations with the speed, precision, and accountability the mission demands.

Flip to the other side to see why this technology is essential to restoring America's maritime edge.

Why It Matters: Restoring America's Maritime Edge

C5MI's Live Warehouse® platform is more than a logistics tool—it's a strategic enabler for restoring American naval superiority. It addresses the Navy's most urgent operational challenges by delivering measurable improvements in cost, schedule, and readiness. As shipyards face mounting pressure to modernize, this solution provides the digital infrastructure needed to meet mission demands with speed and precision.



Operational Precision Through Real-Time Tracking

Real-time tracking eliminates delays caused by manual searches and lost inventory, while automated workflows and predictive planning reduce waste, enhance coordination, and increase efficiency. Digital documentation ensures quality checkpoints, thereby avoiding delays and compliance gaps that are common in outdated paper-based processes.



A Unified View of the Shipyard

The platform creates a unified digital twin of the shipyard, integrating real-time data from RTLS, SAP EWM, and production systems. This common operational picture enables faster decision-making, improves coordination, and ensures traceability across the entire supply chain and production lifecycle, supporting mission-critical visibility.



Built to Integrate, Ready to Scale

Live Warehouse® integrates directly with existing Navy logistics platforms, enabling real-time inventory control, predictive maintenance, and automated quality management. The system supports proactive parts ordering, intelligent scheduling, and compliance tracking aligned with Navy specifications and evolving mission needs.



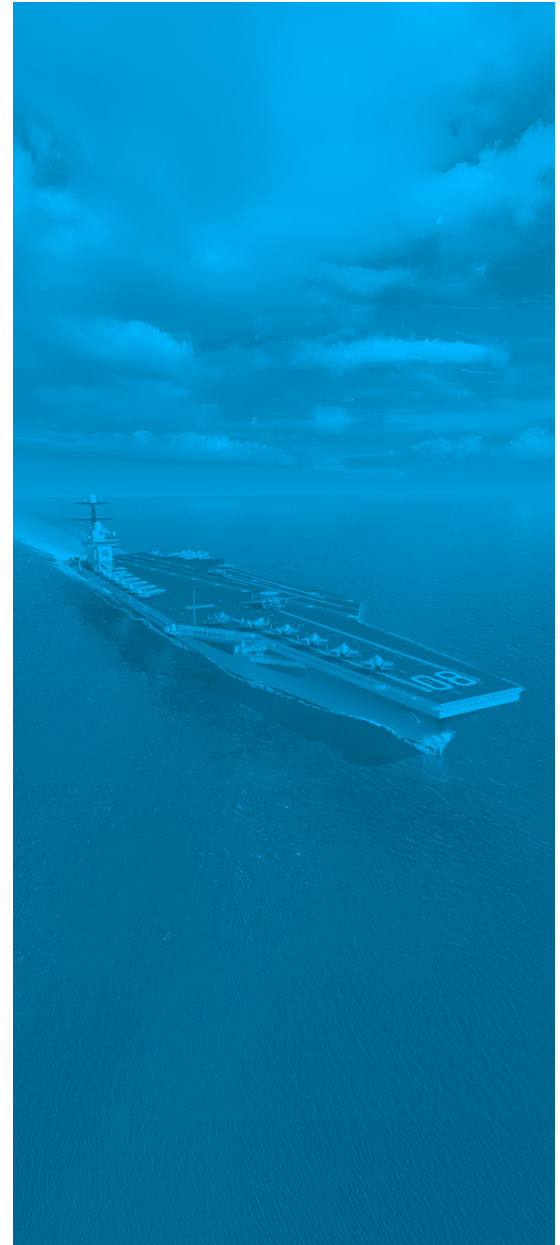
Adaptable Infrastructure for Modern Shipyards

Built for industrial resilience, the system is scalable across shipyards of all sizes and adaptable to both government and commercial operations. From pilot deployments to full-scale rollouts, the platform evolves in tandem with mission needs, supports modernization goals, and ensures a long-term return on investment and operational continuity.



Mission Impact That Scales

By reducing cost overruns, schedule delays, and maintenance backlogs, the solution delivers over \$5 billion in annual operational savings across the fleet. It adds more than 1,000 ship operational days per year—equivalent to 3–4 additional destroyers—significantly enhancing fleet readiness and strengthening national security.



A Call to Action

The Navy cannot afford to operate with outdated systems while global threats continue to evolve rapidly and unpredictably. C5MI's Live Warehouse® solution equips shipyards with the advanced tools needed to modernize logistics, increase throughput, and improve mission readiness at scale. [Contact C5MI](#) today to bring this transformative capability to your operations and lead the future of naval logistics and sustainment.