

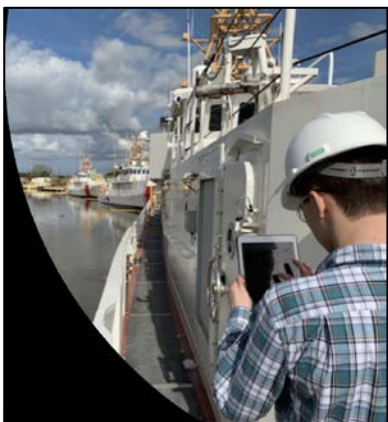


# Advanced Knowledge Provisioning Using AI & AR for Ship Repair Eliminating Rework and Recurring Mistakes

**Team:** Pacific Shipyards International | Conrad Shipyard, LLC | Fincantieri Marine Systems NA | Auros Knowledge Systems, LLC | D'Angelo Technologies, LLC | Hepinstall Consulting Group, LLC

## Ship Repair relies heavily on SME's, tribal knowledge, and informal communications

*Provision precise knowledge to the right people at the right time.* Point-of-Use information delivered to the ship repair planner, estimator, quality specialist, project manager, and craftsmen resulting in significant reduction in delays and increased ship repair throughput.

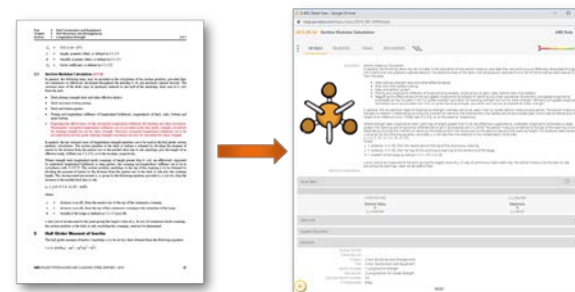


## AI capture and automated provisioning of critical Ship Repair knowledge using AR for the Workforce

Integrate specifications and requirements in a Knowledge Operating System to ensure critical knowledge is applied accurately and consistently.

## AR Integration

Augmented reality is leveraged for scanning and localization of supplementary content within ship compartments and assistance with navigation to different areas of the ship. There are additional utilities for remote work assistance, as well as receiving data from off-site databases for access through a built-in file viewer or insertion directly into the AR space.



Source Document

Knowledge Packet

## Projected Benefits

- Increase Quality and Consistency throughout Repair Process
- Improved Risk Avoidance
- Capture Experiential Knowledge
- Avoidance of Recurring Issues
- Ensure Work Package Traceability

**Join us for an End-of Phase I Virtual Review**  
**February 1, 2021**  
**12:30-2:30 (EST)**  
**Agenda**

- 1230 Welcome/Overview
- 1250 Knowledge Provisioning Technology
- 1310 Simplifying Ship Repair Using AI/AR
- 1340 Demonstrations – AI-AR
- 1410 Q & A

**Restricted to U.S. Citizens Only**

**90% Reduction in the Level of Effort Required to Facilitate Work Package Compliance**

