

# Tactical Information Planning System

Status: Pending Implementation

## PROBLEM / OBJECTIVE

Front-line supervisors, who are responsible for the safety, quality, cost, and schedule performance of their crew, have more impact on production than any other member of Huntington Ingalls Industries – Ingalls Shipbuilding (Ingalls) management. Their most laborious task is planning, progressing, and projecting their crew’s work responsibilities through a two-week (short-term schedule) window for the DDG 51 platform. Typically, these activities are performed away from the production area and their crew. These critical, time-consuming tasks constrict the ability to manage people, issues, and quality. The supervisors are key to optimizing productivity, as they draw on their extensive experience for solutions to most of the problems that crews face on a daily basis.

This project’s primary focus was increasing the foremen’s availability to the crew. Foremen have experienced most problems an employee could face. They are familiar with equipment, Engineering, Planning, material processes and product deficiencies. Therefore, they represent the solution to most of the problems that their employees face.

## ACCOMPLISHMENTS / PAYOFF

### *Process Improvement:*

The *Tactical Information Planning System* (TIPS) project developed a digital process that will increase the efficiency of front-line supervisors. Ingalls is improving the work package decision-making process to enhance short-term resource planning activities. Ingalls anticipates an additional benefit of increased use and utility of mobility applications at the shop floor and deck plate levels. Mobile work capability is critical to future efficiency improvements in this area. The project team is consolidating critical information for the supervisor from the systems of record in scheduling, engineering change, material, shop status and capacity, job planning, certifications, and personnel availability. This consolidation is enabling efficiencies that allow the supervisors to manage the completion of jobs faster while reducing work stoppages and rework.



Ingalls Shipbuilding is looking to streamline its methodology for short-term tactical planning. Photo Courtesy of Ingalls Shipbuilding.

### *Implementation and Technology Transfer:*

The 18-month project assessed the present system and developed a high-level design for a new system that streamlines numerous administrative tasks necessary to achieve short-term scheduling and work assignment. The system screen designs concepts were proven and upgraded during the pilot effort. The pilot enhance the system practicality and measure process time improvement. An implementation plan for the system was developed and the implementation process started at project completion.

### *Expected Benefits and Warfighter Impact:*

Once implemented, Ingalls anticipates the TIPS tool / system will provide supervisors with vital work status in a more expedited fashion, resulting in labor savings that translate into a potential cost savings of \$652K per DDG 51 hull. The team expects the savings associated with this effort will have additional benefits for other platforms and have a five-year savings of over \$9.8M across the Ingalls-built U.S. Navy and U.S. Coast Guard platforms.

## TIME LINE / MILESTONES

Start Date:	February 2017
End Date:	January 2019

## FUNDING

Current Navy ManTech Investment:	\$561K
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## PARTICIPANTS

Navy ManTech  
Huntington Ingalls Industries, Inc.  
Naval Shipbuilding and Advanced Manufacturing Center