

# RAAMS

**Rapid Adaptive Asset Management System**



Creating tomorrow's products from today's innovations.



*Orbital Research Inc.*



# Naval Materials Handling for the 21st Century

## RAPID IDENTIFICATION TECHNOLOGY



## AUTOMATION



## ASSET VISIBILITY



## OPTIMIZATION



- Human Factors
- Asset Information
- Material Compatability
- Ship Stability

RAAMS leverages emerging rapid identification technologies and advances in automation to optimize materials handling processes and increase total system resource visibility. The location and progress of assets are provided to RAAMS via various methods including rapid identification technologies such as bar coding, RFID tagging, and Contact Memory Buttons. Ship status monitoring and integration with storeroom management

systems allows RAAMS to intelligently plan cargo routes and delivery schedules based on storage/usage requirements and operational condition. Sailors interacting with the graphical RAAMS decision support system are presented with current information including alternate delivery paths, locations of obstructions and bottlenecks, and changes to delivery directives.



### Orbital Research's Rapid Adaptive Asset Management System

RAAMS provides a framework for total system resource visibility and a means for optimizing the interface of manned and automated systems.

#### Key Features of RAAMS

- Designed to interface with existing and future materials handling equipment
- Integration with rapid identification technologies such as RFID or Contact Memory Buttons
- Graphical cognitive decision support system for sailors and automated material handlers
- Real-time adaptation to changing operational conditions

#### Anticipated Benefits of Implementing RAAMS

- Enhanced Naval warfighting capabilities
- Reduced total life cycle cost for Naval vessels
- Reduced crew size and operation time
- Improved performance of existing materials handling systems
- Enhanced supply forecasting through better asset tracking
- Provide needed asset management to realize the Navy-Marine Corps vision of maximizing force projection through Sea Basing

