AUTOMATED REAL-TIME PLANNING AND CONTROL TECHNOLOGY

5000   3300   1600
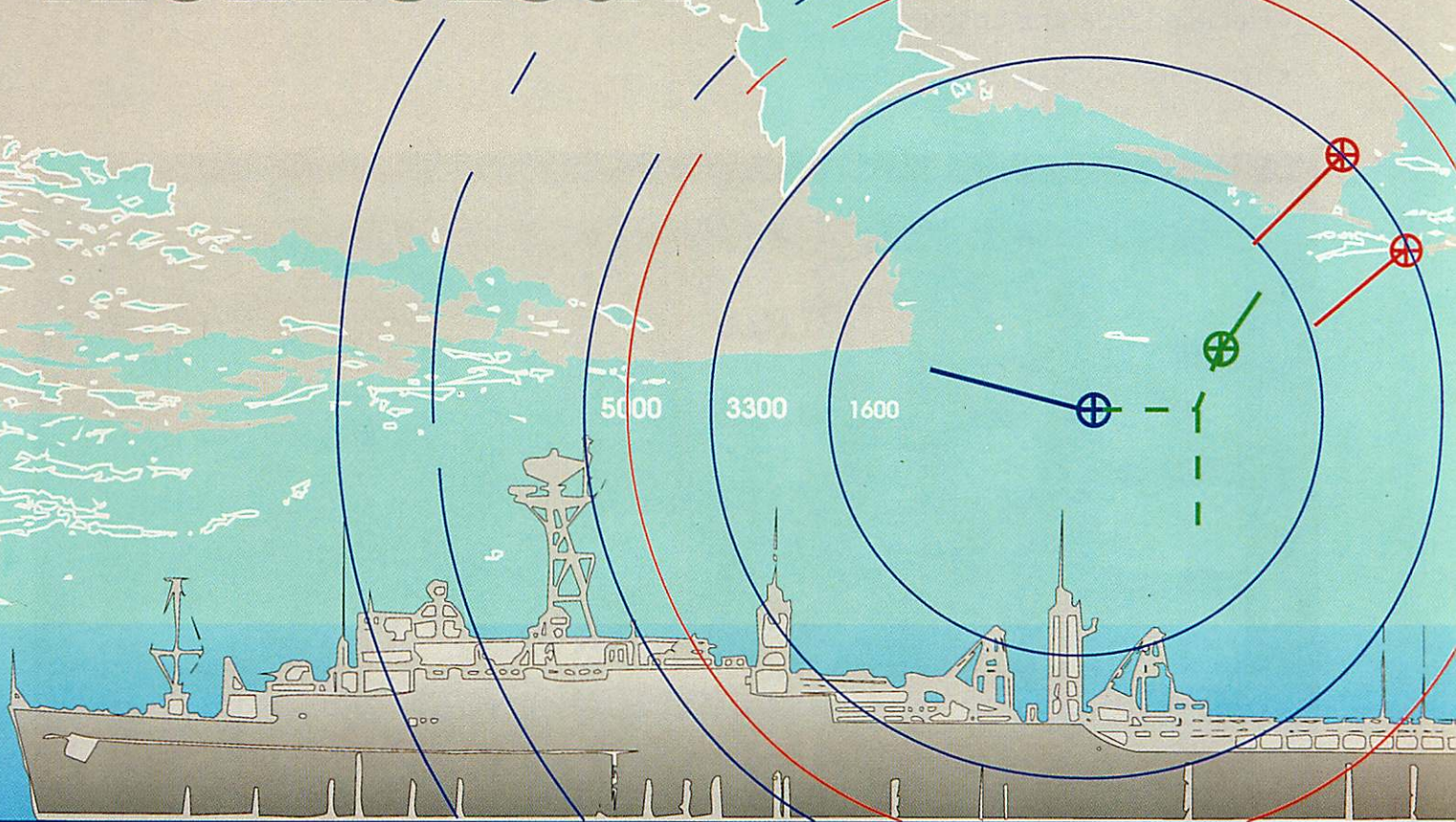
| THREAT ▸ | MULTI-SENSOR DETECTION | DATA FUSION | SITUATION ASSESSMENT | TACTICAL PLANNING AND SCHEDULING | TACTICAL ACTION ORDERS | EXECUTION AND MONITORING |

PLATFORM

CURRENT AUTOMATED PLANNING PROGRAMS

SEAPACS - Submarine Engagement Automated Planning and Control System
Multi-Purpose Planning Technology

SPONSOR
- Advanced Research Projects Agency

OBJECTIVE
- Development of Tactical Planning Decision Aid Technology

PAYOFF
- Reduced Response/Reaction Times
- Assured Tactical Control
- Reduced Operator Loading
- Increased Combat Effectiveness

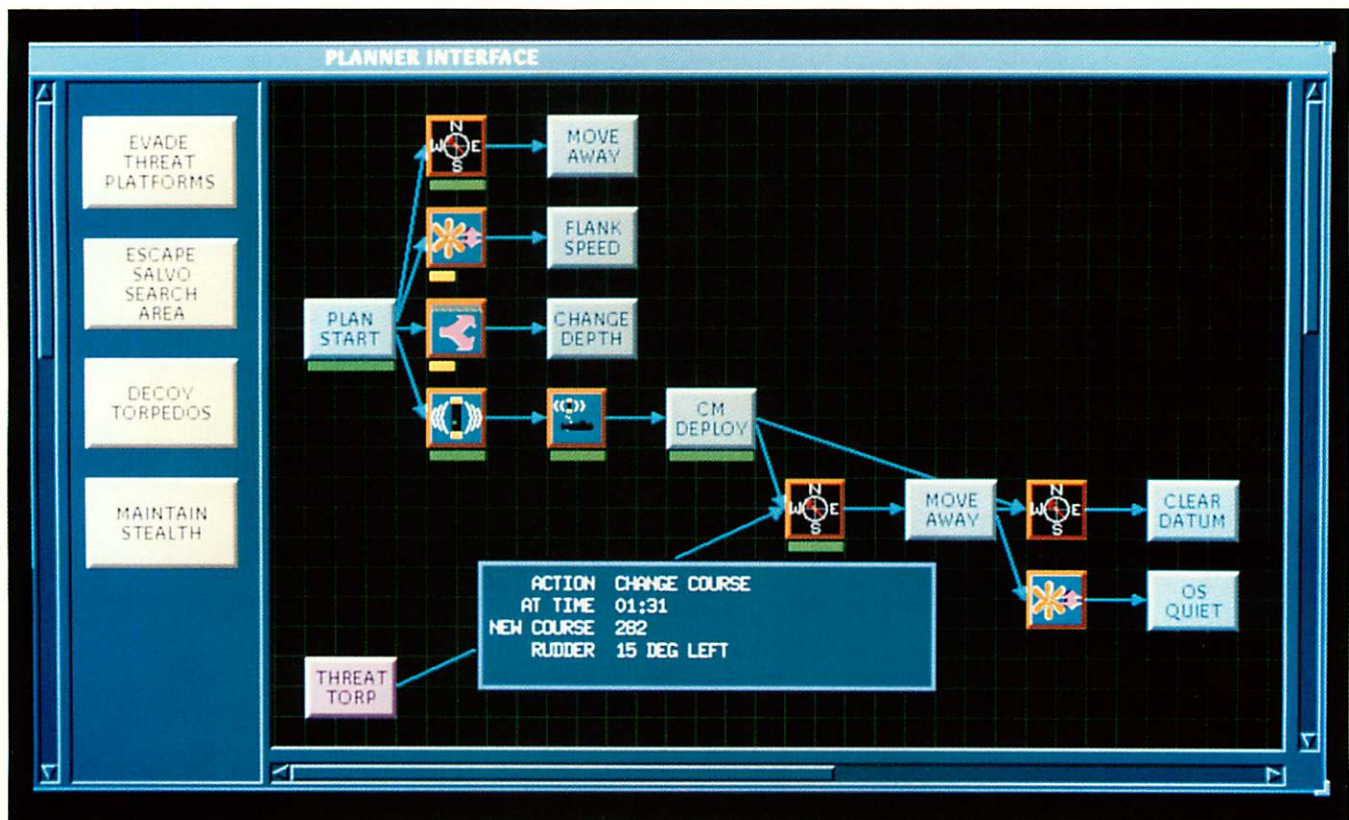## SEAPACS APPLICATIONS

SPONSOR
NAVSEA and Naval Underwater Warfare Center, Newport
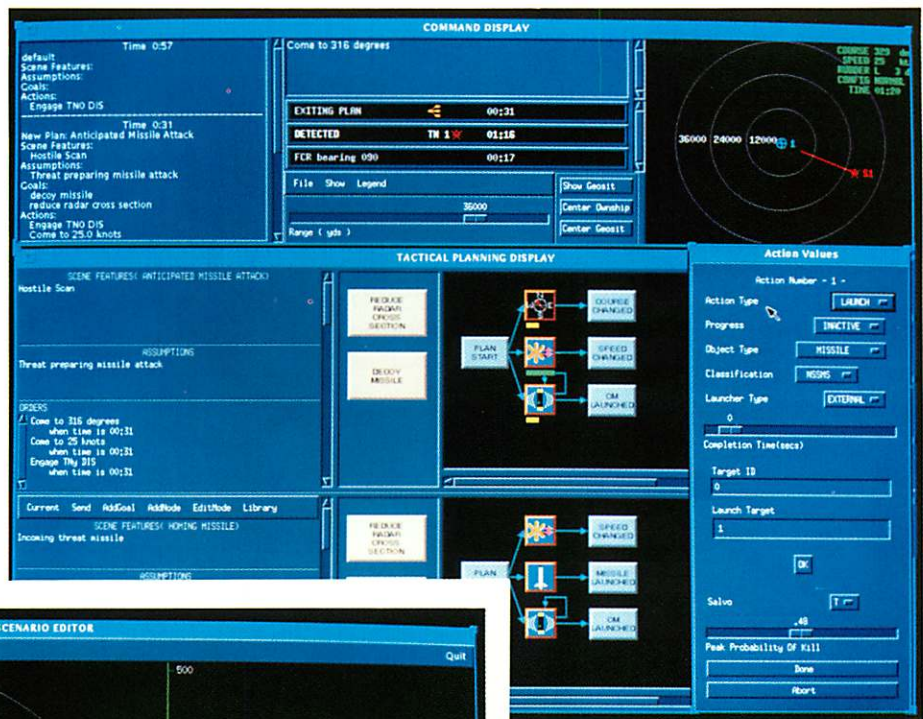
OBJECTIVES
- On-Board Training Control
- Embedded Tactical Decision Aid

PAYOFF
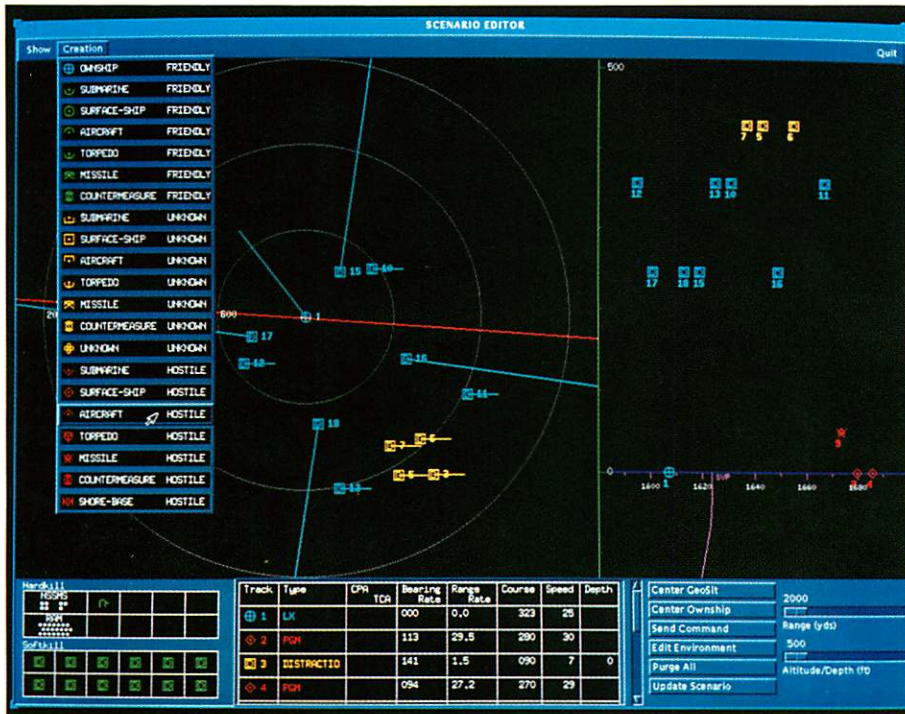- Increased Realism
- Increased Readiness
- Reduced Training Costs

SEAPACS Planner Interface Display

Scenario Editor Display

ASDCS Command Display

ASDCS - Advanced Ship Defense Combat System
Surface Multi-Warfare Planning and Control

SPONSOR
- Naval Surface Warfare Center, Dahlgren
- Office of Naval Research

FEATURES
- Sensor, Weapon, and Countermeasure Optimization
- Surveillance Planning
- Proactive and Reactive Defense Recommendations

BENEFITS
- Enhanced Survivability
- Improved Asset Utilization
- Integration of Operations and Comprehensive Defensive Planning

PLANNING AND CONTROL TECHNOLOGY

INTEGRATED SYSTEMS APPROACH
- Knowledge Engineering Tools
- Advanced Planning Engine
- User-friendly Graphical Interfaces
- Modular, Portable, Open Architecture

PLANNING TECHNOLOGY FEATURES
- Generic Hybrid Planning Technology
- High-Level Knowledge Representation Language
- External Knowledge Bases
- Interfaces for External Systems
- Automatic Scene Evaluation and Planning Activation
- Continuous Plan Monitoring and Execution Control
- Multimode Operation - Automatic/Interactive
- Interactive Queries and Explanations

USES

Training
- On-board ship
- On-shore
- Against Intelligent Adversaries
- With Expert Decision Aids

Combat Decision Support
- Real-Time Tactical Advice
- Automatic Order Generation and Execution
- AUV/UUV Command and Control

Analysis and Development
- Force Level System
- New Combat Systems Concepts
- System Requirements and Specification
- Tactics and Doctrine
- Decision Aids
- Algorithms and Models

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