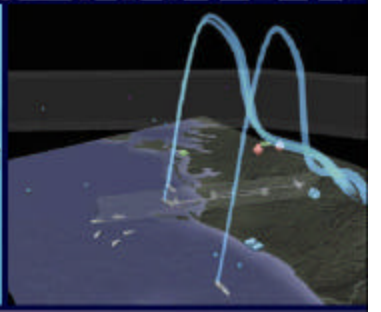
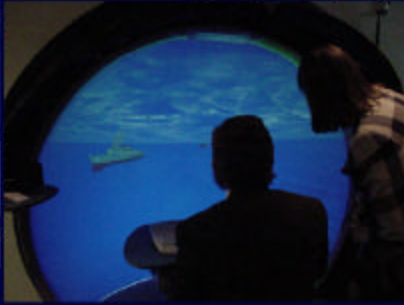


HUMAN



SYSTEMS



PERFORMANCE



ASSESSMENT



CAPABILITY

Reducing Total Ownership Costs of Naval systems by embedding the Human Performance Systems Model

The Chief of Naval Operations (CNO) recognizes the human, the Sea Warrior, as “a premier element of all operational systems.” Naval Air Systems Command (NAVAIR), Naval Sea Systems Command (NAVSEA), Naval Supply Systems Command (NAVSUP), Space and Naval Warfare Systems Command (SPAWAR), Navy Personnel Development Command (NPDC), Human Performance Center (HPC), and Fleet Forces Command (FFC) are leading the effort in developing the Navy’s premier capability for human systems performance analysis and assessment. The Human Systems Performance (HSP) Assessment Capability team will enhance fleet readiness and operational effectiveness at the lowest total ownership costs by providing the personnel, expertise, equipment, connectivity, tools, models, environments, and alliances necessary to develop human performance solutions as well as to measure, analyze, and certify warfighter-system performance across all phases of the lifecycle.

The concept of the HSP Assessment Capability team is a synergistic approach to connect existing Navy infrastructure elements to create a distributed human performance assessment capability. The genesis of this effort will be the integration of human performance assessment capabilities across the warfare command domains, leading to the collection and validation of a defined group of human performance metrics and the certification of component and system-level human performance. The universal application of these efforts will reduce total ownership costs associated with any program, ensuring the warfighter has the right system for the right effort the first time.

Warfighter and Programmatic Benefits

By leveraging existing resources and creating economies of scale, vice funding program specific human performance assessment capabilities, a set of common processes with a common infrastructure yields consistent, validated information throughout the Navy, providing systems that meet the needs and expectations of the Fleet the first time. The benefits of these efforts include:

- **Lower Total Ownership Costs**
 - *Optimized Manpower / Improved Training*
 - *Quality of Life and Work / Retention*
 - *Reduced Probability of Error/ Friendly Fire*
- **Reduced Acquisition Risks**
 - *Ensure we are tackling the right problems*
 - *Reduce re-work - cost and schedule*
 - *Incorporate lessons learned from others*
 - *Validate Manpower Targets*
 - *Optimize Technology Implementation*
- **Concept Demonstration, Experimentation, Validation**
 - *Targeted Fleet Requirements*
 - *Synergistic Model for Design Team*
 - *Changes and Risks Addressed Early*
 - *Objective Assessments Navy Wide*
 - *Increased S&T Transitions*
- **Interoperability**
 - *Distributed Decision making*
 - *Validation of Tactics, Techniques, & Procedures*
- **Best Practices**
 - *Consistency, Efficiency, Effectiveness*
 - *Processes, Measures, Certification Criteria*

Objectives

- *Human performance analysis in requirements generation and AOA*
- *Total system design analysis (including KSA's, workload, and human error)*
- *Usability engineering*
- *Human performance testing, evaluation and certification*
- *Common HP standards, processes, metrics and tools*
- *Common repository for human performance data, metrics and analysis*
- *SEA Warrior product integration*
- *Total system interoperability testing*

