

**PROGRAM SECTOR No. 1 – AGILE PORT and TERMINAL SYSTEMS**

The Agile Port and Terminal Systems area is directed at projects and demonstrations that assess ongoing commercial and military cargo movement requirements, development of cost beneficial alternatives, and demonstration of advanced equipment and software systems capabilities.

**TITLE:** *Hazardous Materials Detection Technology Assessment and Demonstration*

**SUBCONTRACTOR:** *Concurrent Technologies Corporation (CTC)*

- Demonstration of a proof of concept solution to enhance the detection of hazardous materials in the port environment.

**TITLE:** *Port of Entry and Exit Inspection Process and Technology Infrastructure, Phase III*

**SUBCONTRACTOR:** *Center for International Trade & Transportation (CITT)  
California State University, Long Beach*

- Demonstrate the feasibility of developing a single system for the Federal seaport inspection process.

**TITLE:** *Increasing the Efficiency of Empty Container Interchange*

**SUBCONTRACTOR:** *College of Engineering  
California State University, Long Beach*

- Study the problem of empty container interchange, which is a significant problem for ports and surrounding areas in terms of traffic congestion and container storage, and to recommend methods for minimizing this problem.

**TITLE:** *Container Seal Technologies and Processes, Phase I*

**SUBCONTRACTOR:** *Cargo Handling Cooperative Program (CHCP)*

- Establish test facilities, obtain seal and reading equipment from manufacturers, and perform the testing that is necessary to support end-to-end security activities and ultimate system implementation.

**PROGRAM SECTOR No. 2 – HIGH-SPEED SEALIFT**

The High-Speed Sealift area is directed at projects and demonstrations associated with high-speed hull forms to enhance existing ocean and coastal transportation systems.

**TITLE:** *Computational Fluid Dynamic (CFD) Design Tool Development and Validation*

**SUBCONTRACTOR:** *College of Engineering  
California State University, Long Beach*

- Develop and validate design tools that can be applied to dual use (commercial and military applications) fast ships.

**TITLE:** *Blended Wing Body Design and Construction*

**SUBCONTRACTOR:** *Pacific Marine and Supply, Ltd.*

- Develop the Blended Wing Body (BWB) for use in fast ship technologies for commercial and military applications. The BWB is an underwater lifting body that can be attached to existing hull designs to provide a significant increase in deadweight capacity.

**TITLE:** *Liberty Class Initial Ship Design*

**SUBCONTRACTOR:** *Science Applications International Corporation (SAIC)*

- Develop the primary design of the “Liberty Class” trimaran ship and to develop the documentation needed by the American Bureau of Shipping to assess the technical reliability of the design.

**TITLE:** *Development of an Advanced Waterjet Propulsor Concept for High-Speed Sealift Applications, Phase II*

**SUBCONTRACTOR:** *Band, Lavis & Associates, Inc.*

- Develop detailed hydrodynamic designs of an advanced integrated waterjet propulsion system for a selected high-speed ship hullform.

**PROGRAM SECTOR No. 2 – HIGH-SPEED SEALIFT (cont.)**

**TITLE:** *On Demand Hydrogen Generating System: Phase II – System Demonstration*

**SUBCONTRACTOR:** *Seaworthy Systems, Inc.*

- Demonstrate a concept design for marine hydrogen on demand system when applied to a shipboard or shore side maritime power system.

**TITLE:** *Operational, Economic and Financial Evaluation of a Logistics Solution Based on the High-Speed Ship/Agile Port Concept*

**SUBCONTRACTOR:** *Manalytics International*

- Evaluate the market for a transportation and logistics system based on high-speed ships and agile ports in the Pacific Basin.

**PROGRAM SECTOR No. 3 – RAPID DEPLOYMENT**

The Rapid Deployment area is directed at projects and demonstrations that establish logistic and supply chain management systems in conjunction with intermodal military and commercial cargo movements.

**TITLE:** *Optimization of Military and Commercial Goods Movement Through Southern California Using Information Technology, Phase II*

**SUBCONTRACTOR:** *Center for International Trade & Transportation (CITT)  
California State University, Long Beach*

- Further develop and refine the Regional Supply Chain Simulation model so that different elements of the regional goods movement supply can be simulated and analyzed including strategies for optimizing both military and commercial cargo movement.

**PROGRAM SECTOR No. 4 – COMMAND AND CONTROL**

The Command and Control area is directed at projects that reduce military deployment times while minimizing the degradation of commercial shipping and projects that develop systems that support direct real time communication between military logisticians and the commercial shipping industry.

**TITLE:** *Transportation Internet Portal Development Phase II – Feasibility Demonstration*

**SUBCONTRACTOR:** *Logistics Management Institute (LMI)*

- Perform a concept demonstration of a tool called the Transportation Internet Portal (TIP). TIP is a concept for an Internet connection allowing collaboration between military and commercial shipping logistics organizations that are members of the Joint Planning Advisory Group (JPAG). The JPAG provides a planning forum to analyze, identify and develop processes used to meet DoD contingency sealift/intermodal service requirements. U.S. flag carriers that are signatories to the Voluntary Intermodal Sealift Agreement (VISA) are members of JPAG.

**TITLE:** *Command and Control Decision Community, Part 1*

**SUBCONTRACTOR:** *MAYA Viz, Ltd.*

- Modify an existing model for collaborative transportation planning.

**TITLE:** *Command and Control Decision Community, Part 2*

**SUBCONTRACTOR:** *MAYA Viz, Ltd.*

- Modify an existing model for collaborative transportation planning to include additional collaborators and to develop a plan for the upgraded software to become an operational system.