



Navy SBIR/STTR Success



CoVE – Collaborative Visualization Environment

The Performance Dashboard is an integral feature of CoVe and is reconfigurable to show instructors the real-time team performance measures as the exercise unfolds, as well as provide dynamic feedback for distributed trainees.

Topic Number: N07-089

SBIR Investment:
\$836,382

Phase III Revenue:
\$2,261,922

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About the Technology:

In distributed environments where increased collaborative decision-making is crucial, tools are needed to enable the measurement of team processes, performance, workload, and situation awareness, in order to identify potential human bottlenecks and collaboration gaps. There is a need to specify, capture, compute and visualize measures of collaboration in a real-time, naturalistic and meaningful manner. CoVE (the Collaborative Visualization Environment) is a configurable team-in-the-loop simulation that allows operators to perform operational tasks across a diverse set of domains and a real-time measurement system that accurately assesses their performance.

Naval Benefit

This technology provides researchers the ability to conduct applied collaboration research and experimentation. CoVE supports training exercises by tracking and assessing trainee behavior and allows for the revision of distributed teams' protocols and procedures, as well as enhanced decision-making in all mission-critical domains. CoVE provides utility to a large spectrum of users, from the intelligence community to commanding officers in all branches of the military. It also benefits the acquisition community by enabling direct testing and evaluation of new technology and its impact on distributed teams. The system supports distributed tactical communication by providing real-time, operational feedback in the real world.

Transition

Aptima was recently awarded a \$6M Phase III contract from the Air Force Research Laboratory (AFRL) for Human Universal Measurement and Assessment Network (HUMAN) Technology, Demonstration, and Validation Program. This is an innovative program that leverages three unique Phase II contracts, including the CoVE system, to provide a comprehensive capability to demonstrate and validate technologies developed to enhance human performance based on neuroergonomic concepts and theories. Aptima has secured contracts with both the Navy and the Air Force, resulting in Phase III revenues of \$11 million.



Aptima, Inc.

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