

# NAVY Transition Assistance Program

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N08-183 - Modus Operandi, Inc.

Wave SOS: Wave for Systems of Systems

## NEED & CUSTOMER REQUIREMENT

**Need:** The difficulty in correlating data from multiple disparate sensors to produce accurate situational awareness is common to many military agencies.

**Value to the Warfighter:** Situational awareness supporting multiple mission types and to keep ground and air commanders informed of enemy activities and of current and potential threats.

**Operational Gap:** Most fielded sensor systems are legacy systems that were never designed to function in a net-centric environment or to facilitate fusion of information from multiple sensor systems. There are also massive amounts of information trapped in documents, reports, email messages, and application messages.

**Customer Specifications:** It is imperative that automated capabilities to identify relevant information based on mission parameters be combined with information fusion capabilities to assist control personnel and commanders in quickly and accurately identifying all information that is germane to the current mission.

**Technology Description:** Modus Operandi has developed Wave Exploitation Framework (Wave-EF), which uses natural language processing and machine learning techniques to automate the discovery of mission specific intelligence from unstructured text with significant improvement over traditional technologies. Data that has been identified as being relevant to an analyst mission is automatically tagged and semantically enriched, enabling quick retrieval, correlation, and fusion with other structured and unstructured data. The result is more rapid access of actionable intelligence to commanders. This technology can be applied to develop new applications, or enhance and refresh existing applications in order to improve performance and extend the life of legacy technologies.

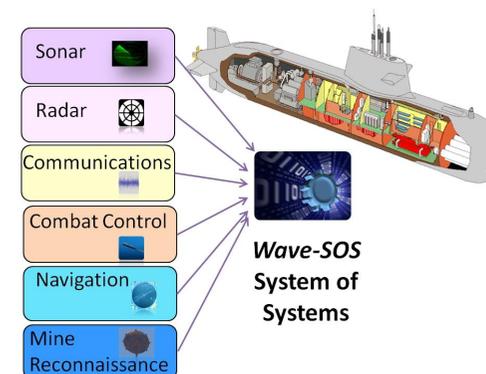
## SPONSORSHIP of original SBIR/STTR Topic

**SYSCOM:** NAVSEA

**Transition Target:** BYG-10

**Original Sponsoring Program:**  
PEO Sub

**TPOC Phone Number:**  
(202) 781-4981



## TECHNOLOGY DEVELOPMENT MILESTONES (SBIR/STTR)

Milestone	TRL	Risk	Measure of Success	TRL Date
Initial prototype developed	2	Low	Technology concept demonstrated	3/31/09
Prototype enhanced with geospatial visualization	3	Low	Advanced prototype concept demonstrated and reviewed.	9/20/09
Initial fusion prototype application installed in CACC Alternative Study and Experimentation (CASEX) Lab	4	Moderate	Successful integration in lab for feedback	TBD
Fusion engine implemented	4	Moderate	Deployment validated in CASEX Lab	6/1/2011
Full decision support and fusion engine implemented	5	Moderate	Deployment validated in CASEX Lab	12/1/11

**Open contract:** N00024-10-C-4116 ending 12/29/2011

## TECHNOLOGY TRANSITION OPPORTUNITIES (PHASE III)

**Other Potential Applications:** CANES, DCGS, TacMobile, BAMS, and other C4ISR applications.

**Business Model:** To provide professional services to prime contractors to customize and/or configure the technology to specific programs of record (Services Model). We also plan on working with some prime contractors to apply customized versions of the technology embedded with their solutions for resale to government and/or commercial customers (OEM Model).

**Objective:** To identify primes and acquisition programs for professional integration services to apply the Wave SOS technology.