



# Navy SBIR/STTR Success



## Combat Systems of the Future

The Advanced Contact Management System (ACMS) has evolved into a viable new paradigm that will ultimately make the Naval submarine fleet safer and more effective while reducing personnel staffing and operational cost.

Topic Number: N05-149

SBIR Investment:  
**\$1,098,001**

Phase III Revenue:  
**\$3,122,334**

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## About the Technology:

Key decisions such as maneuvering a ship or shooting a weapon are made based on an understanding of the tactical picture. The Advanced Contact Management System (ACMS) is a revolutionary approach to developing the tactical picture; delivering key information used for command decision making, post mission reporting, safe maneuvering of the platform and effective employment of weapon payloads. ACMS eliminates the complex detection, tracking and man machine interactive localization and replaces it with a simpler process that develops the tactical picture through automatic processing of raw sonar beam data.

## Naval Benefit

ACMS will improve the level of command decision making, reduce the software and hardware complexity of the combat system in terms of number of subsystems, displays and computer processes, networks and data sharing processes. The result is a system allowing for a more simplified hardware and software architecture, a simplified and more user friendly Command and Control Center layout with reduced manning and training requirements – all resulting in lower total ownership cost. The application of this technological approach will also reduce the time and costs associated with upgrades to the combat system elements and the Command and Control Center.

## Transition

MIKEL successfully developed an ACMS prototype and demonstrated an improved target motion analysis solution generation capability with both simulated and at-sea recorded data. MIKEL was awarded a Phase III contract to extend and adapt the ACMS technology to all submarine sensors including the towed arrays. MIKEL has successfully adapted and improved the ACMS technology to support processing of towed array sonar energy data.



# MIKEL, Inc.

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