



SNAPSHOT

The Company

M2 is at the forefront of conceptual development and exploration of technologies and techniques to provide non-lethal capabilities to military and law enforcement agencies seeking to shape and preserve our nation's security.

The Technology

The Vehicle Stopping Foam was developed in response to a standing requirement for a non-lethal means to render a vehicle inoperative. When the foam is ingested into an automobile's air induction system, it simultaneously quenches combustion and blocks pores in the vehicle's air filter rendering the vehicle inoperable until the air filter is replaced.

The Opportunity

Vehicle Stopping Foam will provide perimeter security capabilities to U.S. Federal Homeland Security and private-sector security. The U.S. Federal Homeland Security market is estimated to grow from \$25 billion in 2010 to \$31 billion by 2014. Private sector security currently offers \$7.7 billion in annual revenue opportunities with an anticipated compound annual growth rate of 9.1% by 2014.

The Goal

Developmental partners for design and prototype of foam dispensing mechanisms and \$500,000-\$750,000 in funding. Will consider licensing the technology.

M2 TECHNOLOGIES

M2 Technologies, Inc. (M2) is a woman-owned small business specializing in providing fiscally responsible, environmentally friendly, and novel technologies that enhance U.S. National Security.

Working in partnership with the Urban Operations Laboratory (UOL) located at Kansas State University, M2 and inventor Larry Glasgow, Ph.D. developed a Vehicle Stopping Foam that provides a non-lethal, stand-off system for stopping a vehicle's engine. When ingested into an automobile's air induction system, the protein-stabilized carbon dioxide (CO₂) foam simultaneously quenches combustion and blocks pores in the vehicle's air filter.

Replacing the air filter and cleaning the induction system restores engine functionality. The prototype foam has no significant environmental implications and is equally effective against gas and diesel engines. The Vehicle Stopping Foam provides one portion of a materiel solution. M2 envisions that the foam, if employed with an adequate dispenser, can provide a complete system solution.

The dispensing system could be pre-emplaced or operated from a trailer mount capable of being engaged "on-the-fly". Ultimately, the goal is development of a dispensing system (e.g. brush truck) that disseminates sufficient foam to eliminate the need for pre-emplacement and traffic control measures. The Vehicle Stopping Foam system could operate as a stand-alone device or as part of a layered defense in conjunction with other pre-emplaced devices or barriers. Example applications include: security checkpoints, border patrol, high-priority infrastructure and public venue perimeter control, and military and law-enforcement field operations.

When asked about their participation in WBT Innovation Marketplace, Amanda Prill, Assistant Program Manager for M2 Technologies said, "I attended WBT last year and found that much of the research and technologies were in support of our top government agencies, some of which are our primary audiences."

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