

INNOVATIVE PROGRAMS IN TRANSPORTATION SECURITY AND EMERGENCY MANAGEMENT



A Federal fee-for-service organization, the Volpe National Transportation Systems Center (Volpe Center), part of the U.S. Department of Transportation's (DOT), Research and Innovative Technology Administration (RITA), is an internationally recognized center of transportation and logistics expertise. The Volpe Center is supporting a variety of Federal, state and local organizations to develop and implement innovative solutions to transportation security and emergency management challenges.

Risk Management and Preparedness

The Volpe Center is helping to identify and anticipate vulnerabilities in transportation and logistics systems and operations. The introduction of e-enabled vehicles and net-centric operations may introduce new potential cyber vulnerabilities and risks in transportation.

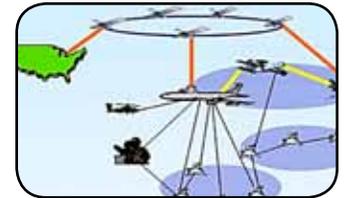
Cyber Security Across Modes

The Volpe Center is supporting the Department of Homeland Security (DHS) National Cyber Security Division to improve the security of control systems in all modes of transportation and formulate a roadmap for future transportation control system security efforts.

Cyber Security on Next Generation Aircraft

In support of the FAA and DoD, the Volpe Center is facilitating collaboration among public and private organizations in the U.S. and Europe to anticipate these

potential vulnerabilities on the airborne and air traffic system networks of the future.



Evaluation and Deployment of Security Technologies

The Volpe Center is providing independent, objective evaluations of innovative security technologies, and is helping determine how to maximize the impact of these advanced systems in the real world transportation environment.

Transit Security Technologies

For DHS, the Volpe Center has performed field tests of bus communications and control technologies designed to stop a bus remotely if it has been stolen or hijacked and conducted field operational tests to determine how blast resistant cameras will perform in the transit environment. The Volpe Center is also helping the DHS and public transit operators to define requirements for improved explosives detection capabilities.

Transit Security Strategic Planning and Systems Architecture Development

In support of a large regional public transit agency, the Volpe Center is developing a system-wide security strategic plan and security systems architecture. These



efforts will enable the transit authority to plan for investments in security that improve safety and increase operational efficiencies.

Counterterrorism Technologies

The Volpe Center is supporting the interagency Technical Support Working Group (TSWG) to guide the development of improved high-throughput personal screening systems and to assess vehicle security barriers.



Response, Recovery and Resilience

The Volpe Center is working to develop a more resilient global transportation system by working with organizations in the U.S. and abroad to improve their ability to respond and recover from manmade or natural disruptions.

Multimodal Situational Awareness

In support of the DoD and DOT, the Volpe Center developed and operates the Maritime Safety and Security Information System (MSSIS). The MSSIS initiative won the Innovations in American Government Award in recognition of the rapid, low cost deployment of “game-changing” capabilities. MSSIS provides over 65 nations with real-time visibility of the operations of over 20,000 vessels. This improved global situational awareness is resulting in collaborative maritime decision making benefiting security, safety, environmental protection and economic competitiveness. Following the earthquakes in Haiti,



real-time information on the locations of ships was provided, accelerating the distribution of supplies.

In support of the United Kingdom Ministry of Defense, the Volpe Center has leveraged this maritime situational awareness capability with other movement and logistics information to improve asset visibility and logistics management. The Volpe Center has also integrated aircraft position information into the MSSIS framework, making it a truly multimodal capability.

Emergency Transportation Coordination

The Volpe Center provides leadership to U.S. DOT and FEMA’s regional emergency transportation program. The Volpe Center supports training and preparedness activities, as well as coordination of transportation operations in national emergencies.

Transportation System Recovery

The Volpe Center is supporting U.S. DOT to develop a National Transportation Recovery Strategy. The Volpe Center has contributed to major recovery efforts and participated in international exchanges on disaster response and recovery.

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