



Volpe, The National Transportation Systems Center

Transportation Logistics and Security

Our Center for Transportation Logistics and Security specializes in physical and cyber security issues, emergency management, logistics management, and transportation situational awareness systems.

We promote an all-hazards, systems approach, designed to improve physical and cybersecurity while enhancing transportation safety, emergency management, and operational efficiency.

Our expertise enables rapid development of technologies that increase the capacity of systems, while improving security and safety.

The results of our work

- Improve the in-transit visibility of marine vessels, aircraft, and logistics supply chains
- Reduce physical and cybersecurity vulnerabilities in the transportation system
- Improve emergency response, resilience, and recovery

What We Do

Security and Emergency Management

Volpe's Security and Emergency Management Division identifies vulnerabilities, risks, and opportunities to improve the security and resilience of transportation systems, critical infrastructures, and government facilities.

Our team tests, evaluates, and implements innovative solutions using a systems approach, which can include policy, procedures, training, and technologies integrated to improve the safety and security of all transportation modes. By conducting training, exercises, seminars, and conferences with key stakeholders, we promote awareness of a wide spectrum of physical security, control systems cybersecurity, IT cybersecurity, and operational management strategies and technologies.



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Our team examines approaches to and conducts emergency response and recovery operations, improving public safety during critical times of need.

Situational Awareness and Logistics

Volpe's Situational Awareness and Logistics Division researches, develops, implements, and analyzes advanced systems to protect, enhance, and ensure resilience of the global supply chain.

Our team develops logistic and situational awareness information systems, such as the Maritime Safety and Security Information System (MSSIS), an unclassified global data sharing network based on AIS technology for improving global maritime safety, security, commerce, and environmental stewardship.

Our Capabilities

- Cyber and control system security assessment, evaluation, and implementation of mitigation measures
- Emergency management strategy, program development, training, and operational support
- Evaluation and deployment of innovative security and ITS technologies
- Rapid development, prototyping, and deployment of systems for improving maritime and multimodal situation awareness
- Strategic planning and systems architecture development for security and emergency management
- Evaluation and improvement of transportation and logistics management processes

Our Sponsors

- Columbia River Pilots Association
- Department of Homeland Security
- Federal Aviation Administration

- Federal Emergency Management Agency
- Federal Highway Administration
- Federal Railroad Administration
- Federal Transit Administration
- Maritime Administration
- National Academy of Sciences
- National Highway Traffic Safety Administration
- National Oceanic and Atmospheric Administration
- Office of the Secretary of Transportation
- Orange County Transportation Authority
- Saint Lawrence Seaway Development Corporation
- UK Ministry of Defence
- U.S. Army
- U.S. Capitol Police
- U.S. Navy
- Washington Metro Area Transit Authority

Contact Us

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