

# Title: Harvesting Data from Advanced Technologies

**SPR No:** 723

**Project Description:** This research initiative presents a two-year research and education plan whose primary goal is to design and develop state-of-the-art data mining and fusion techniques and modeling tools that provide reliable and real-time transportation network management including traffic congestion prediction, incident identification and bridge structural health monitoring. This suite will be achieved by designing and using advanced data gathering, processing and mining tools to estimate the current and future transportation system performance. The resulting modeling tools will be enabled by emerging technologies suitable for implementation by transportation agencies in northern communities. A secondary goal is to quantify the effect of travel behavior changes and consequent planning and modeling challenges in the use of advanced technologies. Research findings will be disseminated to multidisciplinary academic outlets, transportation agencies, and emergency management and planning organizations.

**Start date:** 2011

**End date:** 2013

**Status:**  Active  Inactive  Completed

**Total Dollars:** \$101,507

**Index Terms:**  Administration  Bridges  Construction  Environment  
 Geotechnical  Maintenance  Materials  Pavements  Safety  Traffic  Transit

## Sponsor Organization

**Name:** Vermont Agency of Transportation

**Address:** Materials & Research Section

1 National Life Drive

Montpelier, VT 05633-5001

## Website:

<http://www.aot.state.vt.us/MatRes/default.htm>

**Phone:** (802) 828-2561

## Performing Organization

**Name:** University of Vermont

**Address:** Transportation Research Center,  
University of Vermont

Farrell Hall - 210 Colchester Ave.

Burlington, Vermont 05405

Website: <http://www.uvm.edu/~transctr/>

## Website:

<http://www.aot.state.vt.us/matres/RandDHome.htm>

**Phone:** (802) 656-1312

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**Subjects:** Real-Time Transportation Network  
Management, Data-Mining and Fusion Technologies

## Project Manager

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## Principal Investigator(s)

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