

## NTC@Maryland Funded Projects, Round 2 (2014-2015)

Project ID	Universities	PI/Co-PI	Category	Funded Project Titles
NTC2015-MU-R-01	ASU, MSU	Aaron Golub, Alex Karner, Celeste Chavis	Applied Research	Understanding Regional Disparities in Public Transit Performance Using Realtime Transit Data
NTC2015-MU-R-02	ASU, UMD	Pitu Mirchandani, Xuesong Zhou, Lei Zhang	Basic Research	Developing a Multi-resolution Traffic Simulation Platform for Integrated Active Traffic Operations Evaluation in Metropolitan Areas
NTC2015-MU-R-03	ASU, UNO	Shane Underwood, Bethany Stich	Advanced Research	Evaluation of Infrastructure Impacts from Movements near Seaports
NTC2015-MU-R-04	NCSU, ASU	Christopher Frey, Nagui M. Rouphail, Xuesong Zhou	Applied Research	Development and Demonstration of Advanced Methods for Quantifying Freight Truck Activity, Energy Use, and Emissions
NTC2015-MU-R-05	NCSU, ASU	Behzad Aghdashi, Xuesong Zhou	Advanced /Applied Research	Data Fusion Aided Freeway Analysis for HCM
NTC2015-MU-R-06	NCSU, ODU	Bastian Schroeder, Mecit Cetin	Advanced /Applied Research	Guidance for Field and Sensor-Based Measurement of HCM and Simulation Performance Measures
NTC2015-MU-R-07	NCSU, LSU	Billy M. Williams, Brian Wolshon	Basic Research	Identification of Potentially Hazardous Roadway Network Locations Using Microscopic Observational Vehicle Data and Macroscopically Modeled Reaction Time

NTC2015-MU-R-08	NCSU, UMD	George List, Asad Khattak, Lei Zhang	Advanced Research	Safety and Travel Time Reliability: Analyzing Large-Scale Truck Involved Crashes
NTC2015-MU-R-09	ODU, UMD	Mecit Cetin, Andrew Collins, Mike Robinson, Lei Zhang	Basic Research	Open Toll Lanes in a Connected Vehicle Environment: Development of New Pricing Strategies for a Highly Dynamic and Distributed System – Phase II
NTC2015-MU-R-10	UMD, NCSU, MSU	Paul Schonfeld, George List, Hyeonshic Shin	Applied Research	Improving the Reliability of Freight Transportation
NTC2015-SU-R-01	ASU	Mikhail V. Chester	Basic Research	The Saturation, Economic, and Energy Effects of Maturing Urban Roadway Networks
NTC2015-SU-R-02	ASU	Yingyan Lou	Basic Research	Distributed Traffic Monitoring and Prediction with Vehicle-to- Vehicle Communications
NTC2015-SU-R-03	ASU	Michael Mamlouk	Applied Research	Effect of Traffic Roundabout on Safety in Arizona
NTC2015-SU-R-04	ASU	Mounir EL ASMAR	Applied Research	Analysis of Funding Streams for Public Private Partnerships in the U.S. Transportation Sector
NTC2015-SU-R-05	LSU	Melissa R. Beck	Applied Research	Minimizing Driver Errors: Detecting Unexpected Targets In Familiar Environments
NTC2015-SU-R-06	UMD	Ali Haghani	Advanced Research	Advanced Volatility Models for Improving Travel Time Prediction
NTC2015-SU-R-07	UMD	Elise Miller- Hooks	Advanced /Applied Research	A System-of-Systems Approach to Creating Resilient Transportation Systems given Interdependencies with Other Critical Lifelines

NTC2015-SU-R-08	UMD	Gang-Len Chang	Applied Research	intelliRoute: A Prototype Mobile System for Non-recurrent Congestion Mitigation Driven by Crowd-sourced Data
NTC2015-SU-R-09	UMD	Cinzia Cirillo	Advanced /Applied Research	Understanding Changes in Travel Behavior due to Managed Lanes
NTC2015-SU-R-10	UNO	Bethany Stich	Applied Research	Incorporating Freight and Trade in the Comprehensive Plan: A Megaregion Case Study
NTC2015-SU-R-11	UMD	Ahmet Aydilek	Research	Hydraulic and Environmental Behavior of Roadway Millings in Highway Shoulder Applications
NTC2015-SU-R-12	UMD	Qingbin Cui	Research	Efficient and Effective Implementation of Alternative Project Delivery
NTC2015-SU-R-13	UMD	Paul Schonfeld, Miller-Hooks	Research	Safe Accommodation of Bicyclists on High Speed Roadways in Maryland
NTC2015-SU-E-01	UNO	Bethany Stich and Carol Short	Education	Master of Science in Transportation Degree Program Development
NTC2015-SU-E-02	UMD	Mark Franz	Education	NTC@Maryland Undergraduate Summer Research Program
NTC2015-SU-E-03	UMD	Ali Haghani	Education	On-line Master of Engineering Program in Transportation Systems Engineering and Planning
NTC2015-SU-T2-01	UMD	Mark Franz	T2	Enhancing the Impact of the Freight Academy via Academic Collaboration
NTC2015-SU-T2-02	UMD	Qingbin Cui	T2	PPP Workshop
NTC2015-SU-T2-03	UMD	Cinzia Cirillo	T2	Autos, People and Policies (APPs): Addressing the Issues of the New Millennium
NTC2015-SU-T2-04	ASU	Xuesong Zhou	T2	Rail and High Speed Rail Symposium