



NATIONAL CENTER FOR TRANSPORTATION SYSTEMS PRODUCTIVITY AND MANAGEMENT

ABOUT NCTSPM

NCTSPM is a Tier 1 University Transportation Center (UTC) that conducts transportation related research in the areas of safety, state-of-good-repair, and economic competitiveness. NCTSPM is a collaboration between:

- Georgia Institute of Technology
- Florida International University
- University of Alabama-Birmingham
- University of Central Florida

PARTNERS

- State Departments of Transportation: Georgia, Alabama, Florida
- Florida Turnpike Enterprise
- Orlando Orange County Expressway Authority
- Atlanta Regional Commission
- Georgia Transportation Institute

HIGHLIGHTED ACTIVITIES

Education and Outreach

- K-12 STEM Programs
 - Project CREATE and “Camp Connect” for underrepresented students (UCF)
 - Georgia Tech Summer 2013 (GT)
 - Sustainable Smart Cities Youth Champions (UAB)
- Summer Enrichment Program for University Students (UAB)
- Transportation Boot Camp (GT)
- University-level summer courses (FIU, UAB)
- Transportation Student Summer Internship Program
- Distracted Driving Community Workshop (UAB)

Symposia and Conferences

- CATSS-NCTSP Symposium on Traffic Safety and Simulation (UCF)
- TransportationCamp South (GT)
- Smart Cities Symposium
- Georgia Department of Transportation/Georgia Transportation Institute Research Symposium (GT)
- UTC Conference for Southern Region
- Seminar and guest speakers at each university
- International collaboration



U.S. Department of Transportation
Research and Innovative Technology
Administration

HIGHLIGHTED RESEARCH PROJECTS

NCTSPM has provided funding for more than 40 research projects. A snapshot of research topics includes:

- Mobile Technology Usage among the Transit-Riding Populace
- Full-Scale Wall of Wind Testing of Variable Message Signs (VMS)
- Impact and Feasibility Study of Solutions for Doubling Heavy Vehicles
- Development of a Prototype Evidence-Based Database and Planning Tool: Applying Performance Management Principles in Asset Management Program Development
- Development of Risk Management Strategies for State DOTs to Effectively Deal with Volatile Prices of Transportation Construction Materials
- Freight Movement and Economic Competitiveness from the Megaregion Perspective
- Next-Generation Wireless Bridge Weigh-in-Motion (WIM) System Incorporated with Nondestructive Evaluation (NDE) Capability for Transportation Infrastructure Safety
- Innovative Modular High Performance Lightweight Decks for Accelerated Bridge Construction
- Consumer Response to Road Pricing: Macro and Micro Modeling Tools for Socioeconomic Evaluation and Pricing of Managed Lanes
- Evaluation of the Cost Effectiveness of Illumination as a Safety Treatment at Rural Intersections
- Assessment of High Early Strength Limestone Blended Cement for Next Generation Transportation Structures
- Next Generation Crack Sealing Planning Tool for Pavement Preservation
- Bridge Rail Design Procedures

STUDENT INVOLVEMENT

Students are involved in a range of NCTSPM activities:

- Research and research projects
- Scholarships/fellowships
- Internships at state DOTs, transit agencies, and other public transportation agencies
- Travel support to research conferences
- Delivering K-12 programs



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