



# Transportation Research Center

**UF** UNIVERSITY of  
**FLORIDA**  
Civil & Coastal Engineering



The University of Florida Transportation Research Center (TRC) was established by the former Florida Board of Regents in 1972 to provide a central point through which transportation research could be performed and reported. TRC researchers have been leaders in the transportation field through active participation in various national and international organizations such as the American Society of Civil Engineers, the Transportation Research Board, and the Institute of Transportation Engineers. They have also performed sponsored research exceeding \$25 million in the past five years. Housed in the Department of Civil & Coastal Engineering, the TRC works with a number of academic units throughout the college and the university, including industrial and systems engineering, urban and regional planning and occupational therapy.

The TRC was selected to receive a Tier 1 University Transportation Center Grant for 2007-2009, from the Research and Innovative Technology Administration of the U.S. Department of Transportation (US DOT). The theme of the center is *Multimodal Solutions for Congestion Mitigation*. The TRC will receive up to \$1 million per year in 2007, 2008, and 2009, and matching funds from non-federal sources at least equal to the U.S. DOT grant amount.



## Areas of Research at the TRC

Research is conducted in the following areas:

- Traffic Flow Theory, Highway Capacity and Level of Service Analysis
- Traffic Signal Control
- Traffic Simulation
- Travel Behavior and Demand Modeling
- Congestion and Toll Pricing
- Transportation Networks and Multimodal Transportation
- Transportation Policy
- Urban and Regional Planning
- Tools for Multimodal Analysis
- Sea Port, Airport Railroad Planning, Scheduling, Operations and Optimization
- Supply Chains
- Geographic Information Systems
- Older Driver Considerations
- Safety, including Bicycle and Pedestrian Aspects
- Transportation Software Development

Research expertise also extends to a number of other centers and programs:

- *McTrans* develops and distributes software packages to transportation engineers and planners worldwide, and supports the software in a wide variety of applications.
- The Supply-Chain and Logistics Engineering Center is housed in the industrial and systems engineering department and is an interdisciplinary center involving faculty from several departments.

- The University of Florida's Department of Urban and Regional Planning performs research in Geographic Information Systems, transportation and land use planning, and bicycle and pedestrian safety and education.
- The National Older Driver Research and Training Center was established in 2000 to help older persons maintain their safe driving ability as long as possible, and to develop satisfactory alternatives for those who can no longer drive.
- The Florida Transportation Technology Transfer Center engages in technology transfer in transportation through a variety of courses, seminars, presentations and services.



## Laboratories

The TRC has several laboratory and research facilities that assist with its educational and research programs. In addition to excellent computing facilities, the TRC maintains a Traffic Signal Control Laboratory with several AUTOSCOPE™ video detection systems, traffic signal controllers, and Controller Interface Device units. The TRC also has a vehicle equipped with multiple video cameras and video recording equipment for capturing multiple fields of view from within the vehicle. The NORDTC, maintains a high-fidelity driving simulator interfaced with a compact automobile. The Geoplan Center in URP maintains the Florida Geographic Library and the Efficient Transportation Decision Making for the Florida DOT.

## The Transportation Academic Program

The TRC research activities provide direct support to the academic programs. Research projects provide unique opportunities for students to collaborate with faculty, transportation professionals, and students from various disciplines, and to develop their professional skills. Additional information on the transportation academic program at the University of Florida is provided at <http://transportation.ce.ufl.edu/>.



## Contact Information

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