

Since 1950, the Texas Transportation Institute has sought solutions to the problems and challenges facing all modes of transportation — surface, air, pipeline, water and rail.

A member of The Texas A&M University System, the Institute annually works with over 200 sponsors at all levels of government and the private sector. TTI is the largest participant in the Texas Department of Transportation research program.

Recognized as one of the finest higher education-affiliated transportation research agencies in the nation, TTI has made research breakthroughs across all facets of modern transportation. Virtually every mile of roadway in Texas has benefitted from TTI research.

With headquarters on the Texas A&M University campus in College Station, TTI maintains a full-service safety proving grounds facility and erosion control laboratory in Bryan, and has offices in Arlington, Austin, Dallas, El Paso, Galveston, Houston and San Antonio. In 2010, TTI opened offices in Doha, Qatar, and Mexico City. At any one time, TTI has research projects in about 30 U.S. states and 20 foreign countries.

The Institute is well positioned to offer objective and credible guidance on a wide range of transportation topics and issues.

Statewide Research Network

★ Headquarters

College Station

■ Urban Offices

Arlington Galveston
Austin Houston
Dallas San Antonio
El Paso

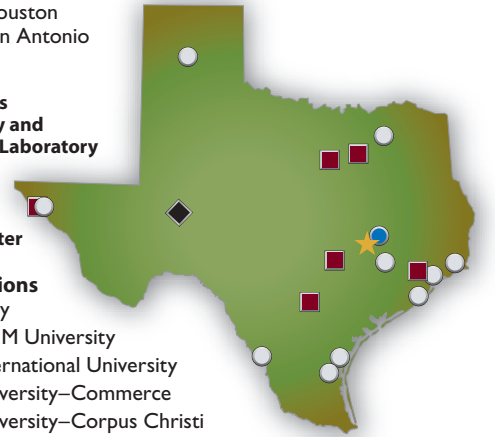
● Proving Grounds Research Facility and Erosion Control Laboratory

Bryan

◆ Pecos Research and Testing Center

○ Regional Divisions

Lamar University
Prairie View A&M University
Texas A&M International University
Texas A&M University—Commerce
Texas A&M University—Corpus Christi
Texas A&M University—Galveston
Texas A&M University—Kingsville
Texas Southern University
The University of Texas at El Paso
West Texas A&M University



TTI research has a proven impact, resulting in lives, time and money saved.

The Texas Department of Transportation has conservatively estimated that the benefit-cost ratio of its research is in excess of 5:1. TTI has saved the state of Texas and the United States billions of dollars through strategies and products developed through its research program. Below are just a few examples.

- IMPROVING ROADSIDE SAFETY.** Major advancements have occurred in the design of roadside safety devices such as guard rails, crash cushions and sign supports, as well as anti-ram barriers in the area of homeland security. More than 540,000 TTI-patented highway safety devices are in use in the United States and throughout the world. In the U.S. alone, it is estimated these devices have saved more than 10,000 lives.
- ADVANCING MOBILITY.** Justification, planning, design and operating guidelines for extensive high-occupancy vehicle (HOV) lane systems implemented in Houston and Dallas have led to significant increases in transit usage and carpooling, a reduction in congestion and a benefit-cost ratio of more than 6:1.
- PROVIDING REAL-TIME TRAFFIC DATA.** Innovative travel time web information systems serving the Houston and Dallas/Fort Worth areas average more than 7.5 million page views per day. Motorists in those urban areas can easily view information on traffic incidents, lane closures and travel speeds or see roadside camera images and messages posted on electronic signs.
- MEASURING URBAN CONGESTION.** TTI prepares the definitive national study documenting congestion costs and trends in 85 urban areas. The study, which is reported on by hundreds of media outlets across the country, provides invaluable input into policy and transportation decisions at the state and national levels.
- ENHANCING THE ENVIRONMENT.** TTI's vehicle emission modeling techniques are used across the state and at the Federal Highway Administration. In the second phase of a \$3 million Environmental Protection Agency (EPA) grant, TTI researchers are using this technology to focus on reducing emissions from idling trucks, which account for an estimated 13 million gallons of wasted diesel fuel and 2,000 tons of nitrogen oxides emissions every day.
- EDUCATING TEEN DRIVERS.** The Teens in the Driver Seat® peer-to-peer safety outreach program has been implemented in more than 400 Texas high schools. Participant surveys indicate a 30 percent decrease in teen cell phone usage and text messaging while driving and a 14 percent increase in teen seat belt usage.

Research Centers

TTI is home to 11 state and national centers, which illustrate the breadth and significance of the Institute's research program. The research products generated by these centers enhance the economy and improve our quality of life.



Association of American Railroads Affiliated Laboratory — Privately funded by the railroad industry.

International Center for Aggregates Research — Privately funded by the aggregates industry.

Southwest Region University Transportation Center — One of 10 competitively awarded regional transportation centers and a partnership with the University of Texas at Austin and Texas Southern University.



Center for Transportation Safety — Established by the Texas Legislature in 2001 to be a focal point for transportation safety-related research and activities.



Center of Excellence in Transportation Computational Mechanics — Designated by the Federal Highway Administration to advance computer simulation and analysis of roadside safety improvements.

Center for Ports and Waterways — Established by the Texas Legislature in 1995 and designated as a National Maritime Enhancement Institute by the U.S. Maritime Administration to improve maritime transportation.

Strategic Transportation Solutions Center — Established by the Texas Legislature in 2009 to develop future-oriented analyses for state and local officials.

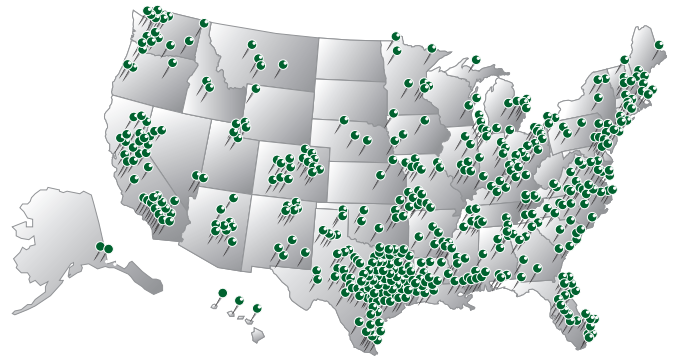
Transportation Economics Center — Created in 2009 by the USDOT Office of the Assistant Secretary for Transportation Policy.

University Transportation Center for Mobility — Federally designated as part of the U.S. Department of Transportation's University Transportation Centers program.

Center for International Intelligent Transportation Research — With headquarters in El Paso, the center, established by the Texas Legislature in 2005, focuses on traffic management, border mobility and air quality to enhance the efficient, safe and secure movement of people and goods across the U.S. borders.

National Pipeline Safety and Operations Research Center — An academic partnership with New Mexico State University, established to coordinate research activities that promote the safe and efficient transportation of petroleum and chemical commodities through the United States' extensive pipeline network.

• Cities in which Texas A&M University graduates and/or former TTI employees are practicing transportation professionals



Workforce Development

The close academic ties with Texas A&M University have enabled TTI to support and enhance the undergraduate and graduate educational experience by not only facilitating student participation in ongoing transportation research, but also preparing students for transportation careers.

TTI employs approximately 650 people, including more than 200 students. About 50 Texas A&M faculty regularly work on TTI research projects. Many of TTI's researchers are recognized national and international leaders in their fields. TTI has trained more than 4,000 transportation professionals, 2,800 of whom are in Texas.

2011 Budget

TTI's fiscal year 2011 budget is \$52.6 million. Historically, TTI has been successful in leveraging state funds to obtain federal funding. The Institute earns more than 80 percent of its budget each year through research contracts, and is the largest university contractor with both the U.S. Department of Transportation and the National Academy of Sciences.

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TTI'S MISSION

To solve transportation problems through research, to transfer technology and to develop diverse human resources to meet the transportation challenges of tomorrow.