

A CULTURE OF
**INNOVATION AND
TEAMWORK**



WHO WE ARE

The Texas A&M Transportation Institute (TTI) is an agency of the State of Texas and member of The Texas A&M University System. For 70 years, TTI has addressed complex transportation challenges and opportunities with innovation, objectivity and unmatched technical expertise. Our staff delivers excellence, value and thought leadership to ensure our research sponsors achieve their goals.



Our Vision

TTI leads in the creation of knowledge that transforms transportation for the benefit of society.

Our Mission

TTI delivers practical, innovative and sustainable solutions to improve the movement of people, data and goods through research, education and technology transfer.



Respect

We achieve excellence through fostering collective strength, encouraging shared understanding, accepting differences, and promoting diversity in people and ideas.



Innovation

We apply creative, forward thinking to develop transformative, practical transportation solutions that save lives, time and resources.

OUR CORE VALUES

TTI's core values represent the six principles by which we perform our work, interact with our sponsors and each other, and live our lives.



Excellence

We exceed expectations to provide our sponsors and society the highest-quality research and services by pursuing innovative solutions and developing transportation industry leaders.



Collaboration

We leverage diverse expertise within TTI and from strategic industry partners to capitalize on interdisciplinary, technology-enabled, and entrepreneurial methods and to achieve results that reinforce our values.



Service

We dedicate our work to the greater public good to improve the transportation system for society's benefit.



Integrity

We build and maintain trust with each other and our stakeholders by adhering to our fiduciary responsibility and ethical touchstones of objectivity, fairness, transparency and honesty.



OUR CORE CAPABILITIES

Most of the work that we do every day falls into these 12 focus areas.



Mobility. Our mobility experts recommend innovative, cost-effective approaches to help people and goods move more freely throughout the United States and internationally.

Safety. TTI saves thousands of lives through its preeminent roadside and in-vehicle safety, traffic operations, roadway safety and distracted driving programs – resulting in safer drivers on safer roadways.

Infrastructure. TTI teams develop transformative infrastructure solutions to build and rehabilitate the nation's pavements, bridges and structures and improve their resiliency.

Planning and Operations. Our experts in planning and operations support multimodal state and local transportation agencies by maximizing roadway and transit system performance, travel modeling and forecasting, public engagement strategies and more.

Economics. TTI regularly evaluates the economic impacts of the transportation system, explores financing options, and conducts robust cost-benefit analyses for local, state and national decision makers.

Freight. Freight experts at TTI advise sponsors on efficiency, infrastructure, new technologies and operational strategies to improve the freight transportation network – the lifeblood of our economy.

Policy. TTI's strategic policy research program brings together professionals from multiple disciplines to provide research-based solutions to address transportation public-policy issues.

Security. TTI designs, analyzes, tests and evaluates anti-ram safety barriers, gates and bollards for perimeter security locations to protect against terrorist attacks and storefront crashes.

Human Interaction. Human factors and behavioral teams at TTI examine user-to-vehicle and user-to-roadway interactions and study roadway user attitudes and actions to optimize safety.

Environment. Researchers at TTI study transportation air quality, energy and electrification impacts, sustainability, sediment and erosion control, and the intersection between transportation and public health.

Connected Transportation. TTI researchers are advancing innovative applications for automated and connected transportation to achieve a future when human error is removed from our roadways and mobility is enhanced.

Workforce Development. TTI trains the next generation of transportation professionals in its research laboratories with hands-on and in-field projects, and transfers technology to the transportation industry through hands-on and virtual workshops and conferences.

OUR EXPERTISE

We are a diverse, interconnected group of 700 professionals, students and support staff from 38 different countries. TTI staff are recognized state, national and international leaders known for their credibility, technical expertise and reputation for objectivity. TTI also plays a key role in educating the next generation of transportation professionals, training students both in the laboratory and in the classroom.

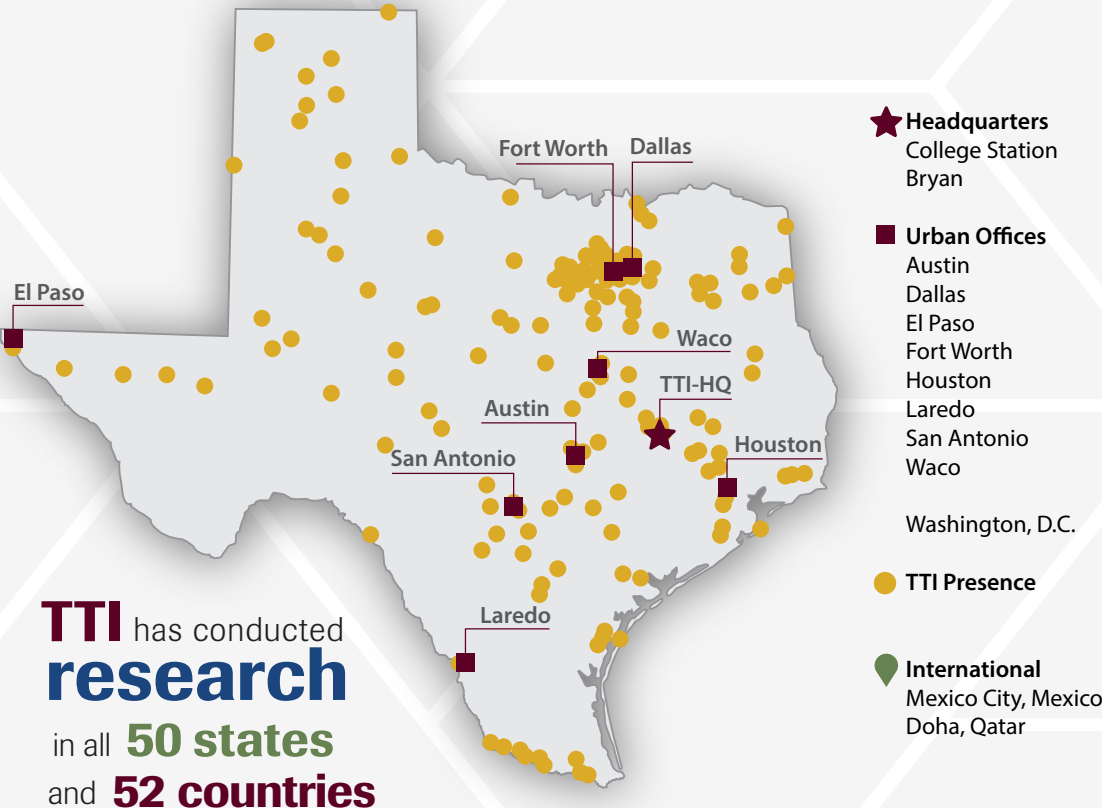
With expertise in engineering, planning, economics, policy, public engagement, landscape architecture, environmental sciences, data sciences, social sciences and more, TTI professionals are thought leaders in their fields. They produce practical, implementable products and strategies, and ensure that our sponsors have the research-based results they need to make informed decisions.



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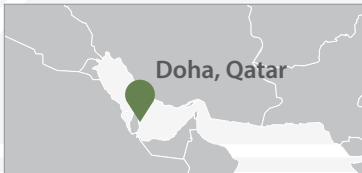
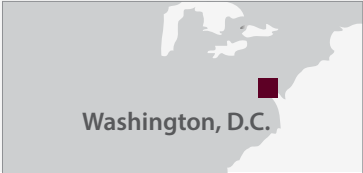
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OUR PRESENCE



TTI is home to 12 state and national research centers with expertise in safety, the environment, trade and disruptive technologies — just to name a few topics.

We have a significant presence in seven urban areas across Texas, as well as in Washington, D.C.; Mexico City, Mexico; and Doha, Qatar. At any one time, we have research projects underway in about 30 states, and our experts have conducted research in all 50 states. We've also worked internationally in more than 50 foreign countries to improve transportation systems and promote a vibrant global economy.



OUR RESEARCH AND TESTING FACILITIES



Visibility Research Laboratory

This lab supports research evaluating transportation-related visibility products and is equipped with photometric equipment to evaluate roadway signs and markings for traveling at night or in inclement weather.

Smart Intersection

TTI's Smart Intersection tests connected vehicle applications, as well as traffic signal control and connected infrastructure interoperability.

Environmental and Emissions Research Facility

This drive-in environmental chamber can replicate temperatures between -5°F and over 131°F to test vehicle emissions levels, equipment tolerance to extreme temperatures, and other temperature- and humidity-related applications across a variety of industries.

Center for Infrastructure Renewal (CIR)

This multidisciplinary research center houses state-of-the-art laboratories aimed at making infrastructure smarter, more resilient and longer lasting. TTI and the Texas A&M Engineering Experiment Station co-manage the facility, with TTI's experts leading or significantly involved in several labs.

Asphalt Innovation Laboratory

Focuses on sustainable improvements in roadway and airfield technology and includes an asphalt binder and chemistry laboratory, material processing and fabrication facilities, and an asphalt mixture testing laboratory.

Concrete Innovation Laboratory

Researches and tests concrete materials, develops sustainable construction materials, discovers alternatives to cement, tests concrete durability, and explores options for recycling and reusing waste.

Proving Grounds Research Facility

TTI's Proving Grounds is our hub for a variety of roadside safety and physical security, structures, and traffic engineering research and testing.

Driving Simulation Laboratory

The simulator enables researchers to study driver-related transportation safety issues and illustrates how distracted drivers respond to traffic conditions, roadway signage, pedestrians, bicyclists, vehicle automation and dashboard icons.

Instrumented Bridge

This innovative bridge design uses a spread precast concrete slab beam system that can be tested under static and dynamic truck loads.

Sediment and Erosion Control Laboratory

This lab provides performance evaluation for roadside environmental management and is used for research on storm water quality improvement, as well as vegetation establishment and management.

Connected Infrastructure Laboratory

Develops and tests next-generation sensors and data applications for the connected and automated vehicle environment.

Structural and Materials Testing Laboratory

Performs full-scale testing, as well as component and materials testing, to evaluate bridge support components, railroad rail fatigue, and scaffolding and shoring.

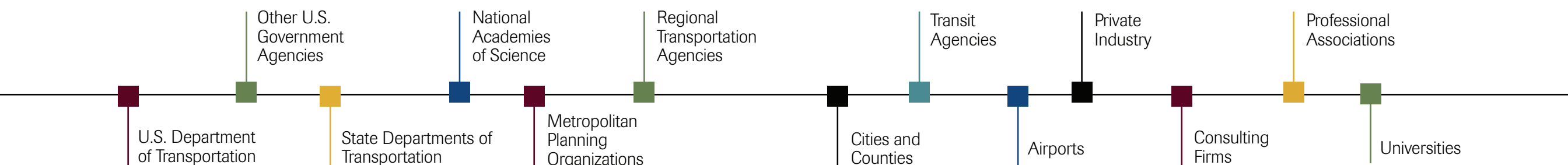
Soils and Unbound Materials Innovation Laboratory

Seeks innovative solutions to improve pavement resiliency, investigates soils and soil stabilization techniques, and tests sustainable rehabilitation techniques.



OUR RESEARCH SPONSORS

TTI has a vast network of more than 200 public and private research sponsors with more than \$67 million in research expenditures annually.





WHERE WE'RE
GOING

We're living in an unprecedented time when mobility is being transformed through technology and data-driven decisions. We witnessed significant impacts to our traditional transportation systems during the COVID-19 pandemic and are building on what we learned. New perspectives and realities are driving everything we do. Autonomous vehicles are being tested on our roadways, and roadway connectivity is being realized. With our global economy interconnected through transportation, the impact of transportation on public health has reached a new dimension. Both renewable energy and electrification will help fuel transportation systems of the future.

We're studying the influences of these new realities on public policy, our economy, our work and leisure activities, and our overall quality of life. With sponsor relationships spanning decades, our experts have the insight and knowledge to serve you and your organization.

Wherever you're headed, we can help you get there.



RESOURCES

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