

Research Involvement

North Central Texas Council of
Governments



Why is this Important?

Strategic Planning

Explore new Ideas

Innovative Planning

Different approach to solve issues

Limited Resources

Funding, staff, etc.

Address Changing Landscape

National Ambient Air Quality Standards, Safety

Knowledge Based

Autonomous Vehicles

Research Involvement - National

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Transportation Research Board (TRB)

Air Quality Committee – Member

**Analysis: Regional and Project-Level Air Quality Innovations
Subcommittee – Chair**

Asset Management Committee – Member

Plan Works – Member

Roadmap for Transportation and Public Health – Member

Value of Transportation Infrastructure Task Force – Member

Standing Committee on Congestion Pricing – Member

Standing Committee on Managed Lanes – Member

Standing Committee on Military Transportation – Friend

Standing Committee on Transportation Planning Applications – Friend

National Cooperative Highway Research Program (NCHRP)

**Project Panel on Case Studies for the Successful Completion of the National
Environmental Policy Act (NEPA) Process for Multimodal Transportation
Projects – Member**

Research Involvement - State

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Texas Department of Transportation (TxDOT)

Planning and Environmental Functional Area Committee (FAC)
– Member

State Bicycle Advisory Committee – Member

Texas Air Quality Research Program (AQRP)

Advisory Council – Member

Texas State Transportation Innovation Council (STIC) – Member

Transportation Programming and Investment Decision-Making
Committee – Communications Coordinator

Sample of Current Research Project Involvement

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TxDOT Project 0-6945

Ramp Metering Impact Study with Potential Regional Deployment Within the Dallas-Fort Worth Ozone Nonattainment Area

TxDOT Project 0-6927

Evaluation of Bicycle and Pedestrian Monitoring Equipment to Establish Collection Database and Methodologies for Estimating Non-Motorized Transportation

TxDOT Project 0-6636

Study conducted to find ability of photocatalytic NO_x/HRVOC/O₃ removal in transportation applications by applying coatings to existing concrete highway structures. Results found cost of applying coatings in the field to reduce air pollution is too large for the insubstantial NO_x reduction.

NCHRP Project 03-121

Incorporating Freight, Transit and Incident Response Stakeholders into Integrated Corridor Management (ICM): Process and Strategies for Implementation

University Partnership Program

Purpose: Support next generation of graduates and extend staff resources

University of Texas at Arlington

Driver Sensitivity to Dynamic Pricing of Managed Lanes in the North Central Texas Region

Public Health Performance Measures and Their Role in the Regional Metropolitan Transportation Planning Process

University of Texas at Austin

Travel Modeling in an Era of Connected and Automated Transportation Systems: An Investigation in the DFW Area

Long-Range Planning Implications of Managed Lane Facilities

Texas Southern University

Planning for Express Buses Operating in a Modern Network of Managed Lanes

Community Rail Viability (Social Parameters as a Component of the Transit Network Analysis)

Travel Behavior Associated with Application of New Technology

Managed Lanes

Autonomous Vehicles

Automated Vehicles/Connected Vehicles

Benefits of Separating Freight Traffic

Separate Lanes within Existing Corridors

Truck Lane Restrictions

Underground/Elevated Freight Shuttles

University Partnership Program

Identify mobility gaps for low-income, elderly adults

Research Interests

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High-Emitting Vehicles

Measurement of Exhaust from Vehicles Equipped with On-board Diagnostic Equipment

Heavy-Duty Diesel Trucks

Inter and Intra-regional Truck Inventory

Truck Idling Inventory (Non-truck Stop Locations)

Thank You

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