



NCTCOG Pre-Proposal Conference

Roadway And Transit Models Development Tests For The Dallas-Fort Worth Region

February 16, 2026



Agenda

Introductions/Agenda Overview

Project Background

Overview of the Scope of Work

RFP Consultant Selection Criteria/Schedule

Questions and Answers

Project Background

Existing travel demand model uses static assignment, limitation

- Adjacent links not affect each other
- No queue spillover
- $V/C > 1$

Solution

- Dynamic traffic assignment
- Goal:
 - Improve network modeling capabilities
 - Outperform regional travel model TAFT



Project Background

Dynamic traffic assignment on large-scale network is challenging

- No successful production model at the MPO level
- May require major changes in algorithm and software capabilities
- Impossible to evaluate different platforms by written response to RFP, due to complexity
- Test real model using real data



Project Background

- Investigate advanced roadway and transit models
- We will evaluate the software package on model capability and our needs
- The effort will guide future long-term software acquisition decision and model development strategies



Project Background

Test approach for model/software investigations

- Provide a subarea network
- Provide traffic counts, travel time and vehicle trip tables
- To maximize chance of success, several responses would be selected to test different software platforms and algorithms to model subarea network
- Emphasis is on real-world implementation and demonstrable results, rather than theoretical descriptions



Scope of Work

- Study design 1 – Investigate Roadway Model on a Subregion Network
- Study design 2 – Update the Transit OD Table in Year 2025
- Study design 3 – Develop a Regional Transit Network Model for the DFW Region



Scope of Work

Study design 1 – Investigate Roadway Model on a Subregion Network

- Develop a DTA model for the subregion (around 10*20 square miles, 3k nodes, 5k links)
- Outperform current travel demand model on its performance measures
- Model resolution: meso or macro, or hybrid. No microsimulation



Scope of Work

Study design 2 – Update the Transit OD Table in Year 2025

- Provide 2023 transit onboard survey, 10% sample of total ridership, characterized by market segmentation and time of day.
- Expand transit onboard database based on 2025 transit counts. 2025 OD trip table could be extracted from the database
- NCTCOG will provide:
 - 2025 demographic data
 - GTFS files for 2025 and for the time of data collection
 - Transit survey report and existing database of records
 - 2025 transit counts



Scope of Work

Study design 3 – Develop a Regional Transit Network Model for the DFW Region

- Schedule based transit assignment model focus on the entire region.
- OD is extracted from Study Design 2 product if it is available.
- Develop a regional transit model using 2025 GTFS data for fixed routes.
- Outperform the current NCTCOG travel model.



Scope of Work

Study design 1:

- Several contractors may be selected
- Budget: COG estimates \$50k each contractor
- Schedule: 5 months after Notice-to-Proceed (NTP)

Study design 2:

- 1 contractor may be selected
- Budget: COG estimates up to \$100k
- Schedule: 3 months after NTP

Study design 3:

- Several contractors may be selected
- Budget: COG estimates \$50k each contractor
- Schedule: Initial 3 months. If NCTCOG updated trip table in middle, grant a 2- month extension



Scope of Work

- Proposers should provide budget proposal
- Budget for Study Design 1 and 3 will include 1-year software subscription if it can be provided. The use of software will be strictly restricted to the model evaluation purpose of this project.
- Proposers may submit proposals for individual task, or for multiple tasks.
- If applying for multiple tasks, a separate proposal needs to be submitted for each task.



Consultant Selection Criteria

Project Understanding	30%
Description of Methodology	30%
Project Manager/Staff/Firm Qualifications	25%
Project Cost	15%



RFP Schedule

RFP Published	February 6, 2026
Written Questions Due	February 13, 2026
Pre-Proposal Meeting	February 16, 2026
Response to All Questions	February 18, 2026
Proposals Due	March 6, 2026
Interviews (if needed)	Week of March 30, 2026
Contract Negotiations	April – Early May 2026
Executive Board (Contract Award)	May 28, 2026
Contract Execution (Anticipated)	July 2026



Submittal Requirements

Proposals must be received no later than 5:00 p.m., Central Time, on Friday, March 6, 2026, through the Bidnet Direct System.

Proposals received after that time will not be considered and will be returned to the proposer unopened. Proposals will only be accepted through the Bidnet Direct System. The Bidnet Direct submittal will count as the official submittal.



Questions?

Responses to questions will be posted on
February 18, 2026, at
<https://www.bidnetdirect.com/texas/nctcog>



Contact Us



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