

North Central Texas Council of Government
Regional Traffic Signal Program

Regional Transportation Council Actions:

- December 12, 2024 – Approval of Strategic Selection of Traffic Signal Equipment Upgrades
- November 13, 2025 – Approval of Traffic Signal Program Funding Process
- March 12, 2026 – Approval of Traffic Signal Funding Program

Agency Eligibility Requirements

- Located within the 10-county non-attainment area.
- Public agency (city, county, or TxDOT).
- Maintain a Traffic Signal Maintenance Standard Operating Procedure and Replacement Strategy.
- Actively use the INRIX Signal Analytics performance platform.
- Agree to share traffic signal and detector data in TMDD 3.03(d) format.

RTC 1 – Coordination Equipment

Project selection is based on the following components:

Step 1. Regional Minimum Equipment Standard

The region established a minimum standard for each coordination equipment listed below.

- Controllers
- Cabinets
- Detection
- Communication
- GPS clocks (coordination)
- Flashing Yellow Arrow (FYA)
- LED signal indications

Step 2. Regional Equipment Inventory

NCTCOG conducted an equipment inventory to identify equipment that does not meet the minimum standard for the equipment outlined above. Going forward, this will be conducted on an annual basis. The inventory is utilized for project selection and updated as regional equipment standards evolve.

Step 3. Additional Prioritization (if funding is constrained)

RTC has allocated funding for coordination equipment that does not meet the minimum standard outlined above. If funding is insufficient to address all identified needs, projects are further prioritized using the following criteria:

- Located on Regional Traffic Signal Priority Arterials (Principal, minor, collector roads with 8 or more signals).
- Average Control Delay per Vehicle (24-hour) Based on INRIX Signal Analytics performance platform. The higher-delay locations are prioritized to maximize operational benefits and ensure investments align with areas of greatest need.

RTC 2 – Bike/Ped Spot Improvements

Selection Criteria – To Be Determined

RTC 3 – Roadway Safety Plan Implementation

Selection Criteria – To Be Determined

RTC 4 – Traffic Signal Retiming

Project selection is based on the following components:

Step 1. Corridors must meet the following criteria.

- Located on Regional Traffic Signal Priority Arterials (Principal, minor, collector roads with 8 or more signals).
- Meets regional equipment minimum standard or programmed to be upgraded through RTC 1.

Step 2. Corridors are ranked based on INRIX Signal Analytics performance platform using the following metrics.

Metric 1. Travel Time Reliability (Measures consistency of travel time)

Metric 2. Delay Per Mile (Normalized congestion measure and accounts for signal spacing)

Step 3. Coordination / review recommendation with partner agencies.

- Agency agrees to participate in the program.
- Review / adjust corridor limits.
- Ensure no ongoing construction or planned construction on the corridor.
- Corridor is not over capacity. If overcapacity recommend to the roadway team for further studies.

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RTC 5 – Non-Scheduled Events

Selection Criteria – To Be Determined

RTC 6 and RTC 7 – Regional Central Systems and Transit

Selection Criteria – To Be Determined