



# TRAFFIC SIGNAL PROGRAM FUNDING PROCESS

DECEMBER 8, 2025

# OVERVIEW OF REGIONAL TRAFFIC SIGNAL PROGRAM

Traffic Signal Equipment + Traffic Signal Performance = Identify Need

1. Signal Retiming
2. Signal Equipment
3. Signal Software
4. Roadway Capacity Improvement



# PROPOSED TRAFFIC SIGNAL PROGRAM FUNDING REQUIREMENTS

To be eligible, agencies must:

1. Develop and maintain a Traffic Signal Maintenance Standard Operating Procedures and Replacement Strategy (all 22 elements).  
City Develop or NCTCOG Support
2. Monitor traffic signal performance through INRIX platform.
3. Participate in regional data sharing efforts consistent with Traffic Management Data Dictionary (TMDD) standards for Center-to-Center communication.
4. Participate in NCTCOG Traffic Signal Committee and Peer-to-Peer subject matter experts.



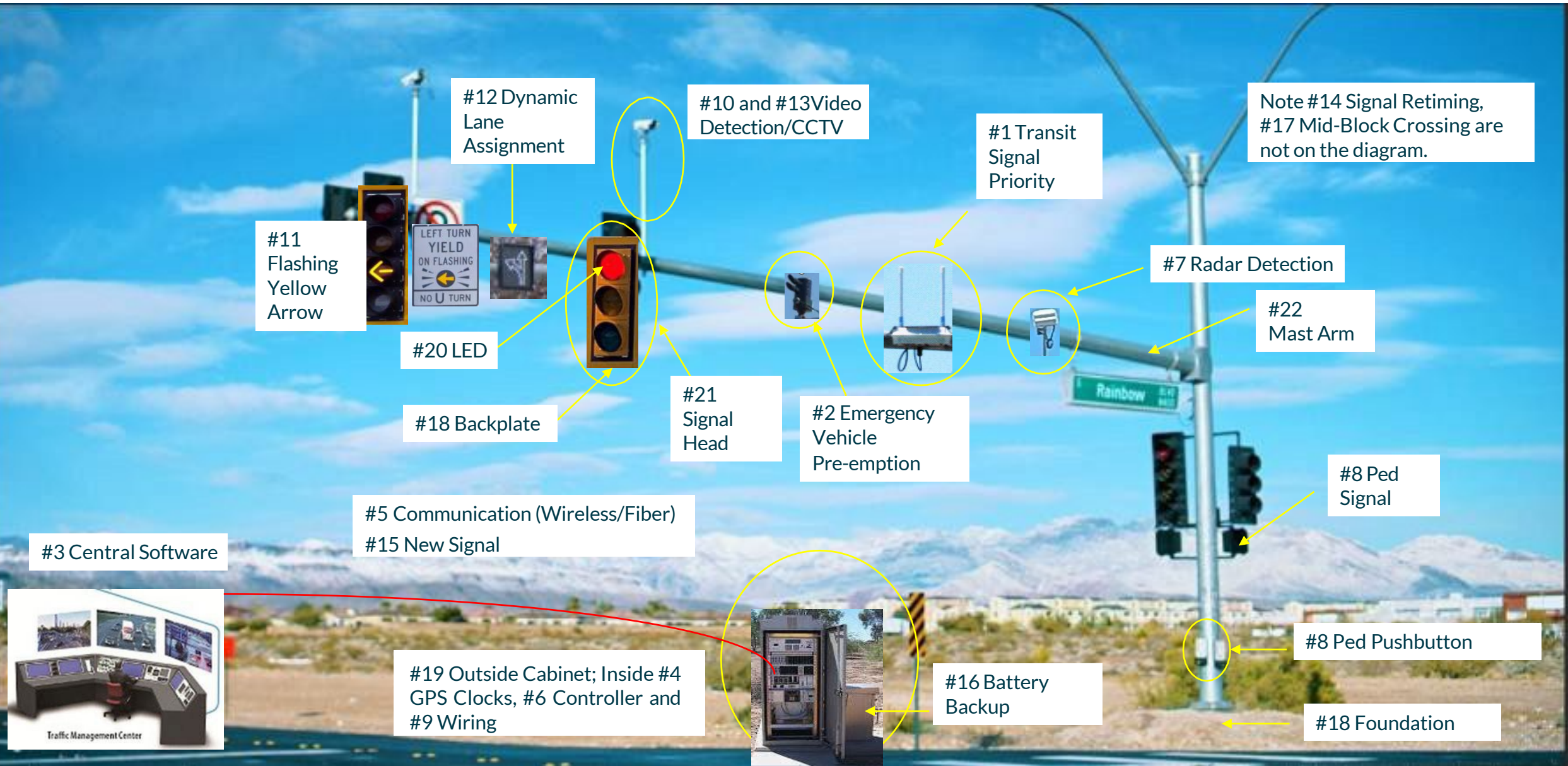
# EVALUATION PROCESS FOR SIGNAL FUNDING REQUESTS

1. Review Equipment Inventory Assessment
  - Review age, condition, and availability of key components (e.g., controllers, detection, cabinets).
2. Review Signal Performance Measures
  - Use of INRIX Signal Analytics to evaluate delay, arrivals on green, split failures, coordination issues.
3. Identify / Prioritize Improvements
  - Identify upgrades aligned with improvement categories and available funding.





# TRAFFIC SIGNAL COMPONENTS



# STEP 1. REVIEW EQUIPMENT INVENTORY ASSESSMENT (BEGAN 2022; UPDATED 2024)

Projects are evaluated based on the type of improvement and corridor characteristics.

**Improvement Category:** Central Software, Coordination Equipment, Operations and Physical Equipment.

**Corridor Characteristics:** Located on transit, freight, or special event corridors or documented safety concerns or crash history.



# STEP 2. REVIEW SIGNAL PERFORMANCE MEASURES (BEGAN 2024)

## Evaluate Average Control Delay/Vehicle

24 hour  
AM peak  
PM peak  
Weekend

- A ≤ 10 seconds
- B > 10 - 20 seconds
- C > 20 - 35 seconds
- D > 35 - 55 seconds
- E > 55 - 80 seconds
- F > 80 seconds



# STEP 3: CATEGORIZING IMPROVEMENTS

| #  | Types of Improvements                                     | Cost Sharing<br>(Federal / Match) |
|----|---|-----------------------------------|
| 1  | Transit Signal Priority / Transit Signal 2.0              | 80/20                             |
| 2  | Emergency Vehicle Pre-Emption                             | 80/20                             |
| 3  | Central Software  | 80/20                             |
| 4  | GPS Clocks  | 80/20                             |
| 5  | Communication (Fiber or Wireless)                         | 80/20                             |
| 6  | Controllers   | 80/20                             |
| 7  | Vehicle Detection (No Loops)                              | 80/20                             |
| 8  | Bike / Ped Equipment / Low and High-End Volume<br>Warrant | 80/20                             |
| 9  | Wiring  | 80/20                             |
| 10 | Freight Signal Optimization                               | 80/20                             |
| 11 | Flashing Yellow Arrows                                    | 80/20                             |





# STEP 3: CATEGORIZING IMPROVEMENTS (CONT.)

|    | Types of Improvements                               | Cost Sharing<br>(Federal / Match) |
|----|---|-----------------------------------|
| 12 | Dynamic / Reversible Lane Assignments               | 80/20                             |
| 13 | CCTV / Camera for Operations (Non-Scheduled Events) | 80/20                             |
| 14 | Signal Retiming / Safety / High Volumes             | 80/20                             |
| 15 | New Signals (Warrants 4,5,6,7,and 9)                | 80/20                             |
| 16 | Battery Back-Up                                     | 80/20                             |
| 17 | Mid-Block Crossing                                  | 0/100                             |
| 18 | Backplate   | 0/100                             |
| 19 | Cabinets / Foundations                              | 0/100                             |
| 20 | LEDs  | 0/100                             |
| 21 | Signal Head Replacement                             | 0/100                             |
| 22 | Span Wire to Mast Arm / Poles                       | 0/100                             |



# SCHEDULE

| Action                               | Meeting | Date               |
|--------------------------------------|---------|--------------------|
| Information – Traffic Signal Program | STTC    | June 27, 2025      |
| Information – Traffic Signal Program | RTC     | September 11, 2025 |
|                                      |         |                    |
| Action – Traffic Signal Program      | STTC    | October 24, 2025   |
| Action – Traffic Signal Program      | RTC     | November 13, 2025  |
|                                      |         |                    |
|                                      |         |                    |



# CONTACT US



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