

Traffic Management and Signalization

Council Work Session

May 13, 2024

Today's Presentation

- Council Retreat Review
- Traffic Signalization Changes
- Traffic Management Center (TMC) Assessment
- Additional Updates
- Questions/Discussion

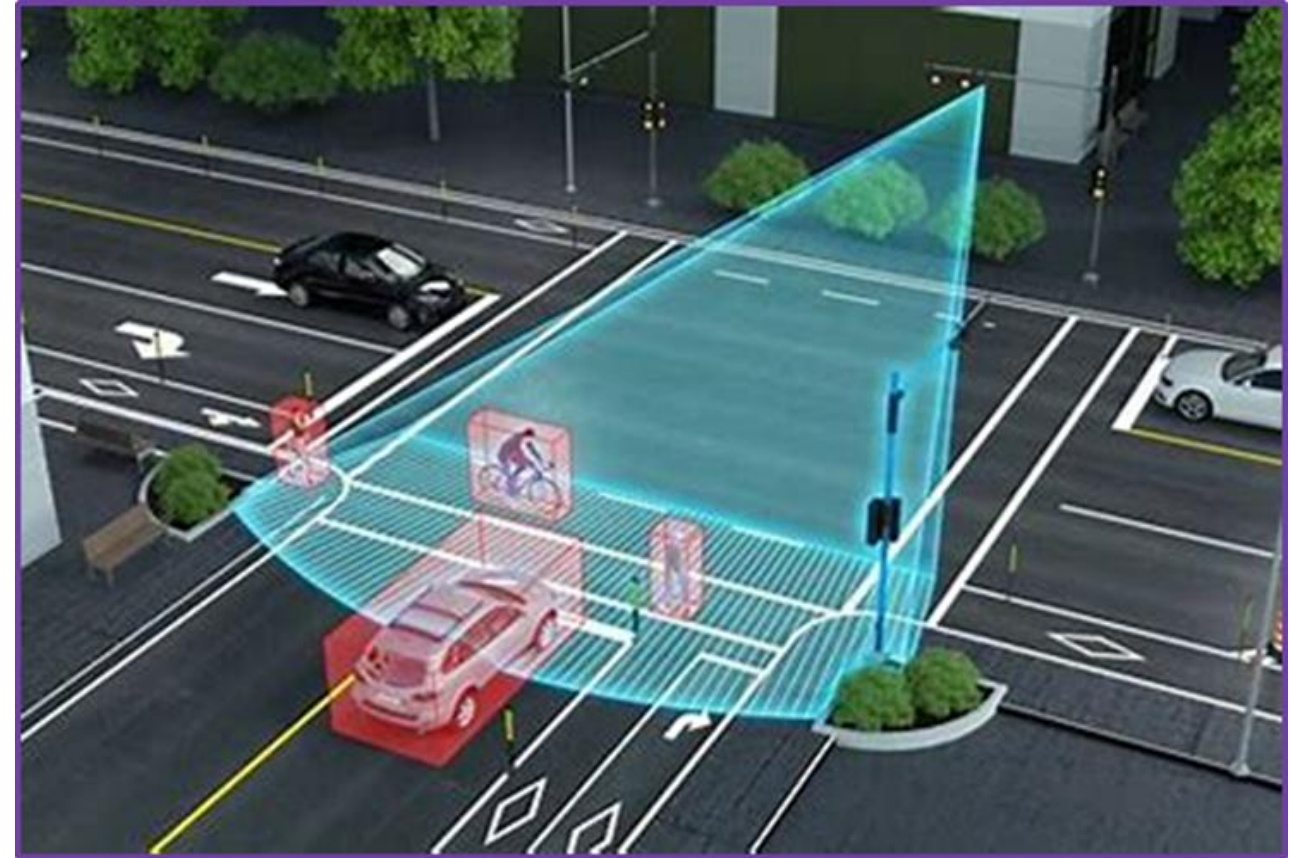


Council Retreat Review



TOPICS COVERED

- Traffic and Signal Management
- Technology Overview
- Current State
- Key Considerations
- Next Steps



After the Retreat



STEPS TAKEN



- Traffic Signal Timing Pilots
- TMC Health Assessment
- Implemented City Preemption Guideline
- Connect fiber to all traffic signals
- Improve Public Stuff App

Traffic Signalization Changes

STATUS UPDATE

- Two-phase pilot program to evaluate traffic signal timing
- Phase 1
 - February 5 to April 7, 2024
 - Coordination: 7 days per week / 6:00am - 8:30pm
- Phase 2
 - April 8 to April 19, 2024
 - Coordination: 7 days per week / ONLY 6:00am – 9:00am and 3:00pm – 7:00pm
- Evaluate the length of each coordinated corridor

Corridors included:

- Litchfield Road
- Bullard Avenue
- Estrella Parkway/Pebble Creek Parkway
- Van Buren Street
- McDowell Road
- Indian School Road

TMC Assessment



COMPREHENSIVE HIGH-LEVEL REPORT

- TMC Conditions
- Human Resource Compliance
- Dispatch Functions
- Safety Awareness
- TMC Training
- Emergency Operations
- Traffic Incident Management
- Asset and Maintenance Management Functions

- Documentation
- Staff Assessment
- Signal / Arterial Operations
- Performance Metrics
- Audits and Quality Control
- Staffing Protocols
- Advanced Traffic Management System (ATMS) Details

TMC Assessment



THREE KEY TAKEAWAYS

- **TMC Operations**
- **Update Intelligent Transportation System (ITS) Plan**
- **Performance Metrics**



TMC Assessment

TRAFFIC MANAGEMENT CENTER OPERATIONS

Emergency Operations and Traffic Incident Management Planning

- Major Events, Special Events, Adverse Weather, Emergencies
- Create Formal Traffic Management Plans (TMP)

TMC Operations

- Staffing/Scheduling

Regionalization

- Improve Interagency Coordination

TMC Assessment



UPDATE ITS PLAN



- **Strategic plan to serve as a roadmap for:**
 - **Investment decisions**
 - Staffing and Resources
 - **Operational Efficiencies**
 - **Technology Enhancements**
- **Last Updated in 2008**

TMC Assessment



PERFORMANCE METRICS

- Verify functionality
- Accountability
- City currently utilizes:
 - Delay
 - Red Light Running
 - Arrivals on Green
 - Volume
 - Travel Time
- Consider alternative metrics



Additional Updates



- **Technology Enhancements**
 - Radar Detection Congressional Funding
 - “E-daptive Software Module”
 - Pilot Program Opportunity
- **CIP Projects FY25-29**
 - 15 Roadway Projects
 - 5 Signal Projects
 - 5 ITS Projects



Additional Updates



- Supplemental Requests for Enhanced Maintenance
- Continue to Monitor and Audit Preemption Usage



Traffic Management and Signalization

Questions and Discussion