



# Waco MPO Technical Advisory Committee Meeting

Thursday, September 7, 2023 2:00 PM

# Roll Call of TAC Members

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- Introduction and Welcome for new members of TAC
- MPO staff will verify the attendance of each Technical Advisory Committee member present

# WELCOME

# Access Meeting Materials on Your Device

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- Agenda, packet, and other materials available online

1. Scan QR code or visit link below
2. Select today's meeting on calendar
3. Scroll to bottom of pop-up window
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5. Scroll to "Related Information"



<https://www.waco-texas.com/Departments/Metropolitan-Planning-Organization/Meetings>





# Agenda

Election of Officers

RAISE Grant

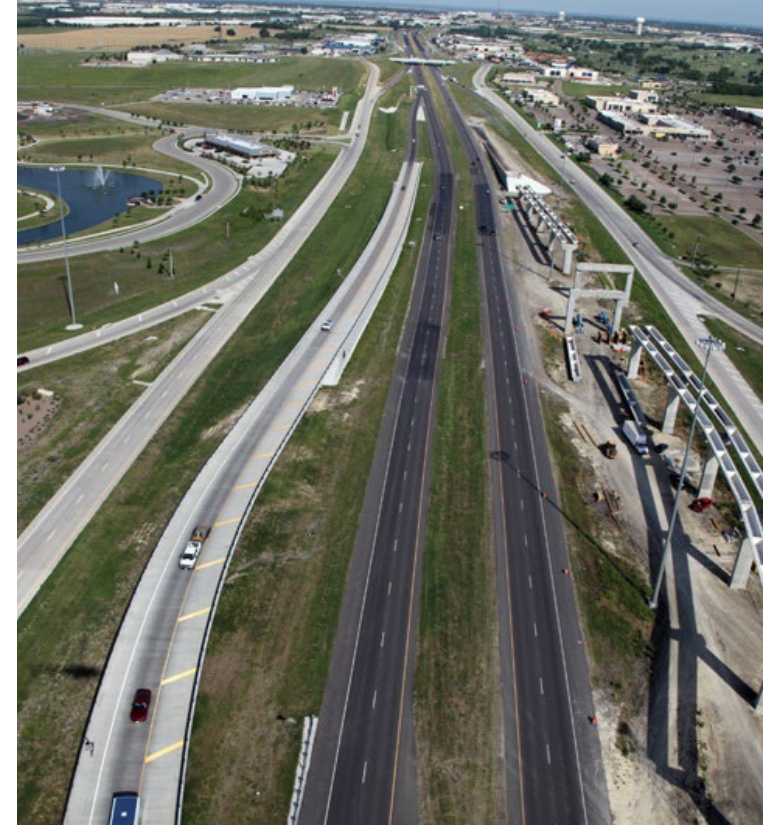
CRP Funding

Proposed Amendments

TxDOT Updates

Work Group Updates, Monthly  
Report & Announcements





# Election of Officers

Initial Term of Office: September 2023 through September 2024



# Election of Officers

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- Chair and Vice Chair
  - Elected by simple majority of current eligible voting members
  - Must be a current eligible voting member
- Initial Term of Office
  - September 7, 2023 to September 30, 2025 (24 months)
- TAC officers serve two-year terms (beginning October 2023)
- Chair shall call and preside at TAC meetings and appoint committees
  - MPO staff support



# Election of Officers

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- Technical Advisory Committee Chair
  - Nomination
  - Election
- Technical Advisory Committee Vice-Chair
  - Nomination
  - Election





# RAISE Grant

Rebuilding American Infrastructure with Sustainability and Equity



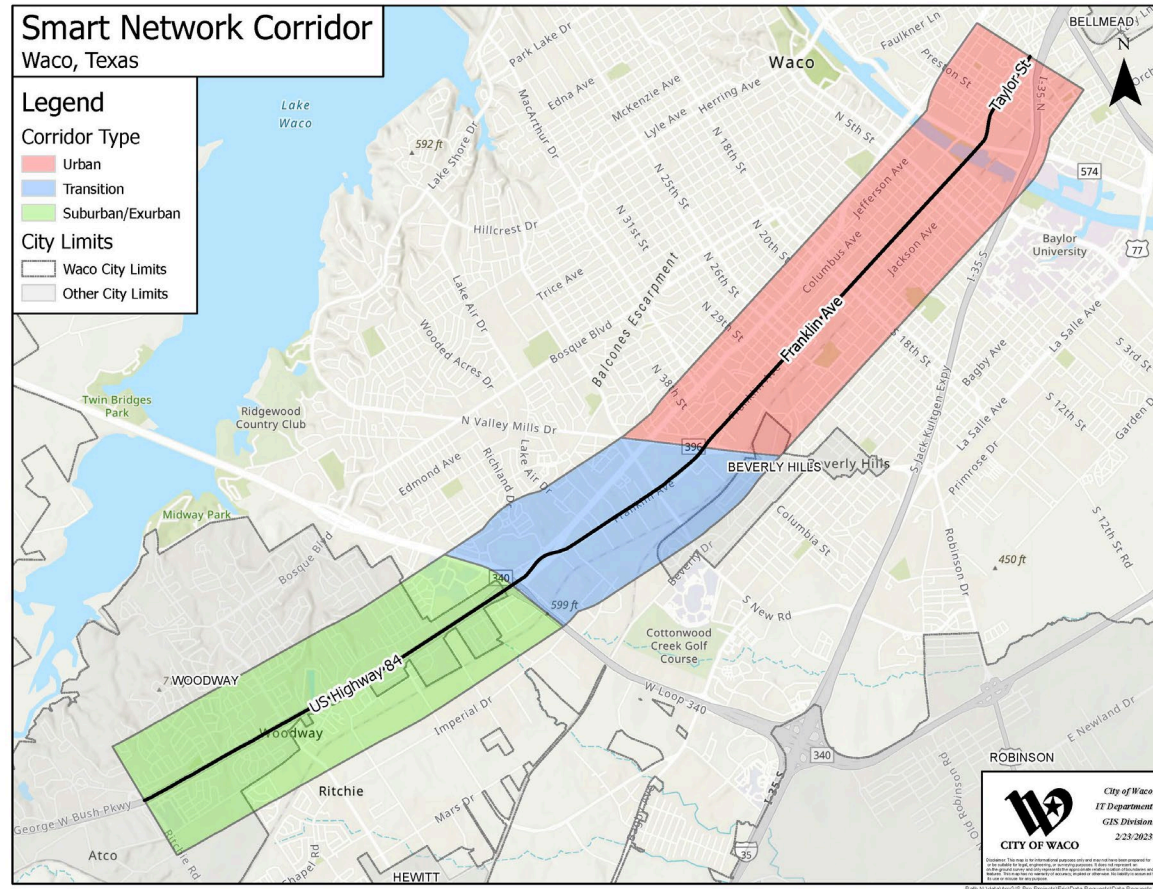


# RAISE Grant Acceptance

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- Rebuilding American Infrastructure with Sustainability and Equity (RAISE) grant established by the BIL
  - \$1.5 billion in appropriated funds available in FY 2023
  - Focused on safety, environmental sustainability, quality of life, mobility and community connectivity, economic competitiveness, equity, and innovation
- Waco MPO submitted grant proposal - *February 2023*
  - Smart Corridor Plan
  - Consideration of appropriate interventions along 9-mile corridor
- Awarded \$4.8 million grant for smart corridor planning– *June 2023*

# RAISE Grant Acceptance



- Urban
- Suburban
- Transition



# RAISE Grant Acceptance

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- Plan, design, and engineer a comprehensive mobility space utilizing smart network
  - Maximize access/opportunities for interaction
  - Promote equitable and just outcomes
  - Scalable in physical and technological scope
  - Ensure system-wide gains in climate benefits, disaster preparedness and resiliency
- Investigate and design decentralized decision-making processes for a mobility space that integrates disparate systems of:
    - Transportation networks (freight and private)
    - Public spaces
    - Buildings
    - Emergency operations
    - Commerce

# RAISE Grant Acceptance

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- Next Steps:

- Execute grant
- Issue RFP
- Work with selected consultant
- Finalize plan





# Today's Action Item

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- **Options**

- Recommend Policy Board to accept the RAISE grant and to authorize MPO Director to execute all related grant agreements
- Modify Recommendation to Policy Board





# Carbon Reduction Program (CRP)

## Project Funding Recommendations



# Carbon Reduction Program



## Waco MPO's 2023 Carbon Reduction Program Call for Proposals

- Proposal Evaluation Committee Recommendations to TAC
- Award **\$1,356,000** federal funds for 5 proposals submitted by local project sponsors
  - \$434,785 total local match
  - \$1,790,811 total estimated costs
- Award up to **\$1,058,160** federal funds to advance sections of 3 projects from the MPO Active Transportation Plan (ATP)\*
  - Design & engineering underway



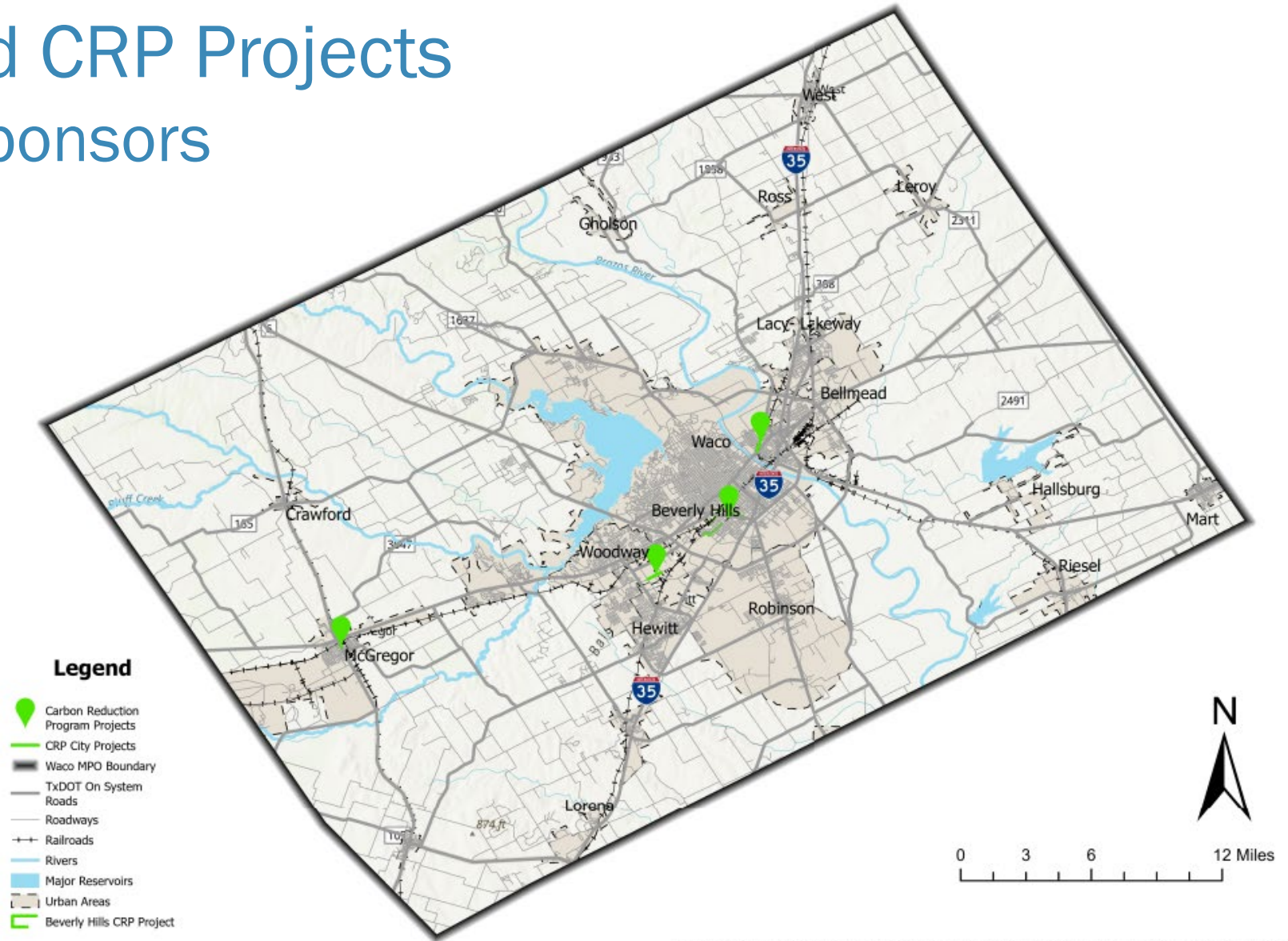
\*Note: Flexible strategy to address ~\$2.2M estimated available funding



## Recommended CRP Projects

### Local Sponsors

- *McGregor – pedestrian activated crossing & crosswalk installation (SH 317 intersections)*
- *Waco – street tree installation (Mars Dr)*
- *Waco – street tree installation (MKT Trail)*
- *Beverly Hills – radar traffic trailer purchase*
- *Waco Transit – electric vans & software purchase (for microtransit)*



Esri, NASA, NGA, USGS, Baylor University, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS

# Recommended Projects

## Active Transportation Plan

- Waco – sidewalk reconstruction on S 4<sup>th</sup> St between Webster & Jackson Avenues
  - Downtown Plan priority
- Waco – sidewalk addition on Ritchie Rd between Park Meadows subdivision & W Warren St
  - Endorsed by Waco Police
- Waco – Add/improve sidewalks on Clay Ave between S 3<sup>rd</sup> & S 8<sup>th</sup> Streets
  - Downtown Plan priority
  - Tree installation



# Today's Action Item

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- **Public Comments**

- None received

- **Options**

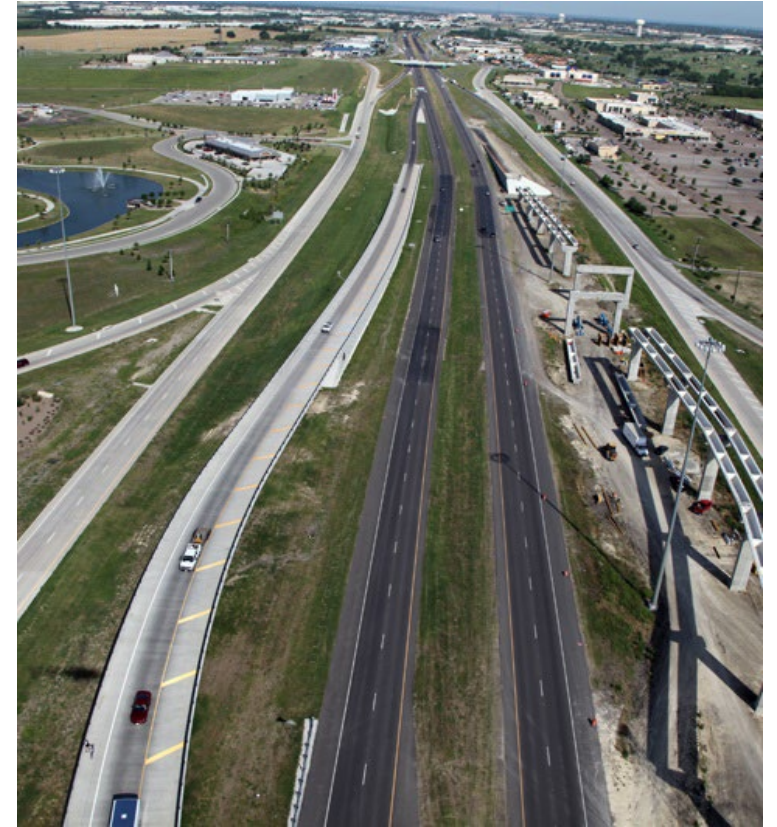
- Recommend Policy Board to approve Carbon Reduction Program (CRP) funding recommendations generated from a 2023 Call for Proposals
- Modify Recommendation to Policy Board

- **Public Hearing / Policy Board Action**

- Thursday, September 21, 2023





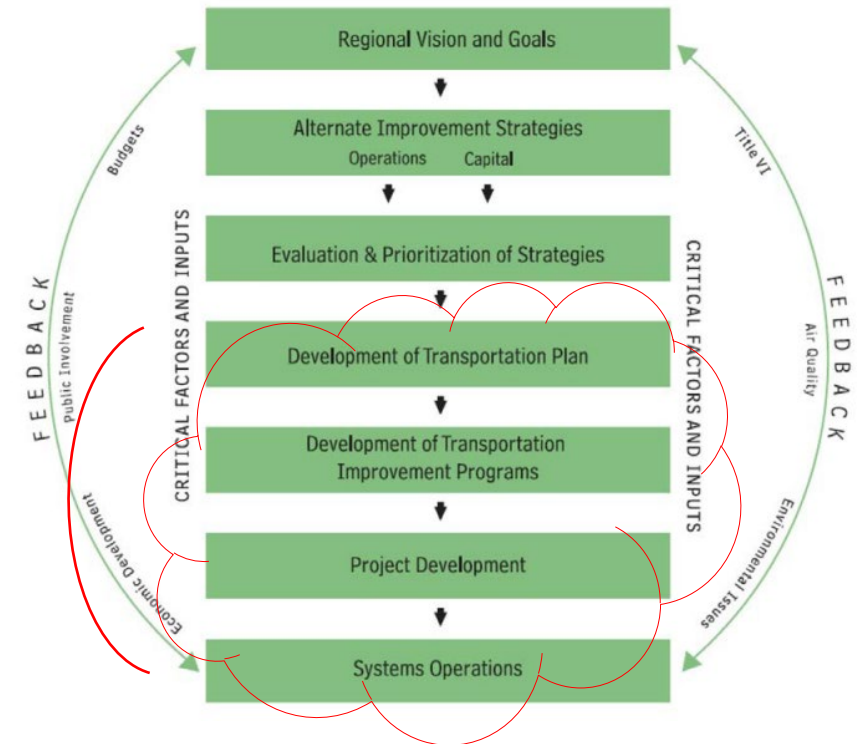


# Metropolitan Transportation Plan

Proposed Amendment to 2045 MTP

# Purpose and Need for MTP Amendment

- Proposed Amendment 4
  - Reflect Texas Transportation Commission priority
    - Construction of IH-35 4C
  - Reflect new funding
    - Carbon Reduction Program (CRP)
    - FTA Low/No Emission Vehicle Program
  - Reflect refinements to planned projects
    - TxDOT requested revisions identified during the engineering design phase of projects

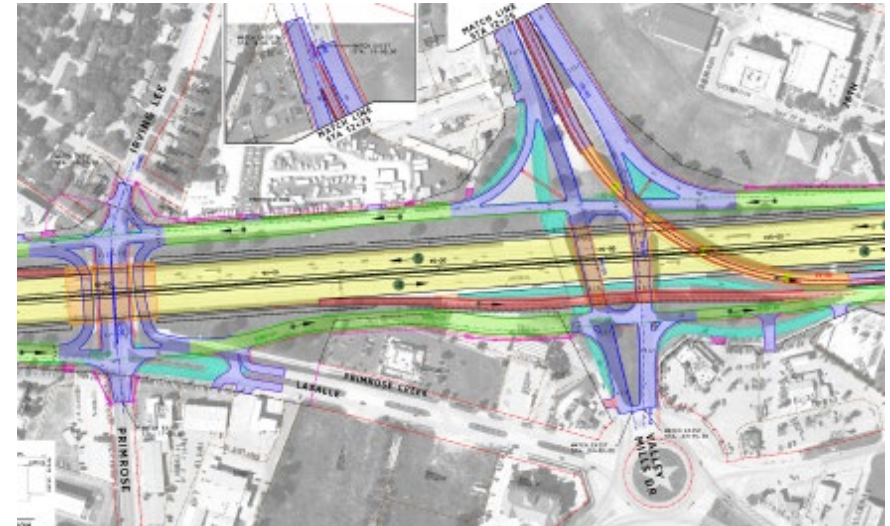




# Proposed MTP Amendment IH-35 C Construction

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- Texas Transportation Commission Priority
  - Construction of IH-35 4C
    - Identified in TxDOT's 2023 Unified Transportation Program (UTP)
    - Adopted by TTC August 16, 2023
  - TxDOT's Financial Management Division estimates revenue will be available to TxDOT to begin construction in 2024



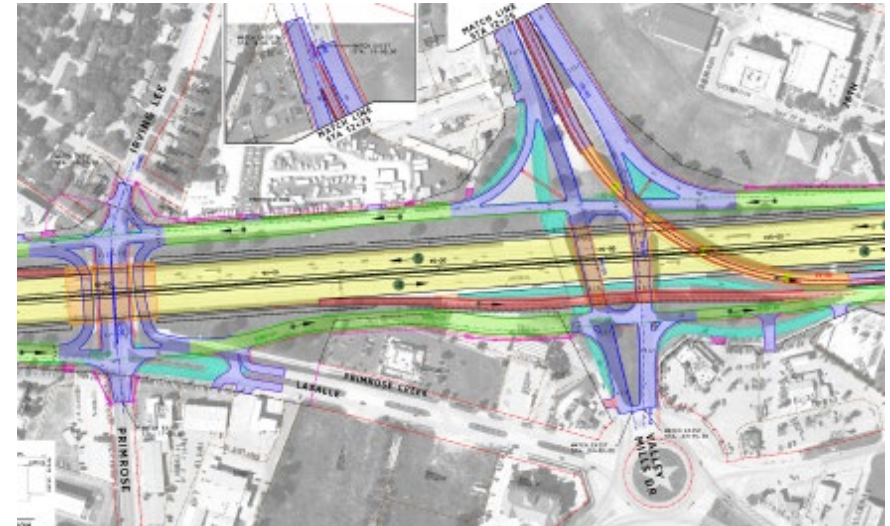


# Proposed MTP Amendment

## IH-35 C Construction

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- Reflect Waco MPO Commitment
  - Reprioritize IH-35 4C from long term priority to highest short-term priority
    - *Action: Revise short-term and long-term priorities in Strategy 5 (Address Demand for Future Mobility) to reflect new prioritization*
    - *Action: Align estimated project implementation costs with those identified in 2023 UTP*
      - *Revise scope of work, estimated cost*
      - Increase in project cost from \$250M to \$275M
      - Adds ~\$275M in short term priorities and removes \$250M in long term priorities



# Proposed MTP Amendment Carbon Reduction Strategies

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- Waco MPO Carbon Reduction Program (CRP)
  - Waco MPO 2023 Call for Proposals
    - Awards \$2.1 million in federal CRP funds to entities within the Waco MPO planning area to implement projects intended to reduce carbon emissions
    - *Action: Revise short-term priorities in Strategy 4 (Improve Regional Livability) to add \$2.1M of FY 2024 CRP funds allocated to Waco MPO and \$699,326 of required non-federal local match to fund project implementation*
    - Adds ~\$2.8M in short term priorities



# Proposed MTP Amendment

## Green House Gas Emissions Reduction Strategy

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- Transit Low or No Emission Grant Award (2023)
  - Competitive federal funds for acquiring zero- and/or low- emission transit vehicles
  - Waco Transit received grant to purchase 4 battery-electric vehicles & chargers
  - *Action: Revise short-term priorities in Strategy 6 (Provide Equal Access and Benefits) to add \$3.1 million of federal 5339(c) funds awarded to Waco Transit and \$546,000 of required non-federal local match for this purchase*
  - Adds ~\$3.7M in short term priorities





# Proposed MTP Amendment

## Project Planning & Design

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- Align revised scopes of work, project limits and project costs with those identified within the engineering design phase per TxDOT Waco District
  - *Action: Revise short-term priorities in Strategy 2 (Improve Safety and Security)*
    - US 84 (Hewitt Dr to SH 6)
    - US 84 (Spur 298 to Lake Air Dr)
  - *Action: Revise short-term priorities in Strategy 5 (Address Demand for Future Mobility)*
    - Spur 298 (Franklin at New Rd)
    - SH 31 (at FM 2311/Heritage Pkwy)



# Proposed MTP Amendment

## Project Planning & Design

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- Revisions to Strategy 2 (Improve Safety and Security)
  - US 84 (Woodway)
    - FM 1695 (Hewitt Dr) to Spur 298
      - *Revise extent, scope of work, estimated cost*
      - Increase in project cost from \$72M to \$179M
      - Adds ~\$107M in short term priorities
  - US 84 (Franklin Ave) – new ramp project
    - Spur 298 to Lake Air Dr
      - *Add all project details including extent, scope of work, estimated costs*
      - \$8M estimated cost
      - Adds \$8M in short term priorities



# Proposed MTP Amendment

## Project Planning & Design

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- Revisions to Strategy 2 (Improve Safety and Security)
  - SH 31 (at FM2311/Heritage Pkwy)
    - *Revise extent, scope of work, estimated cost*
    - Increase in overall project cost from \$10M to \$12.2M
    - Adds \$2M in short term priorities





# Proposed MTP Amendment

## Project Planning & Design

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- Revisions to Strategy 5 (Address Demand for Future Mobility)
  - Spur 298 (Franklin Ave)
    - US 84 to SL 396 (Valley Mills Dr)
      - *Revise extent, scope of work, estimated cost*
      - Increase in overall project cost from \$38M to \$40M
      - Adds \$2M in short term priorities



# Proposed MTP Amendment Financial Analysis

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- Total Cost of Amendment
  - \$46.2M
    - Amendment increases short term priorities by \$296.2M
    - Amendment decreases long term priorities by \$250M
- Total Cost of Long Range Plan Recommendations after Amendment
  - \$2,237.3M
    - Previous MTP Cost = \$2,191.1M (increase of \$46.2M)



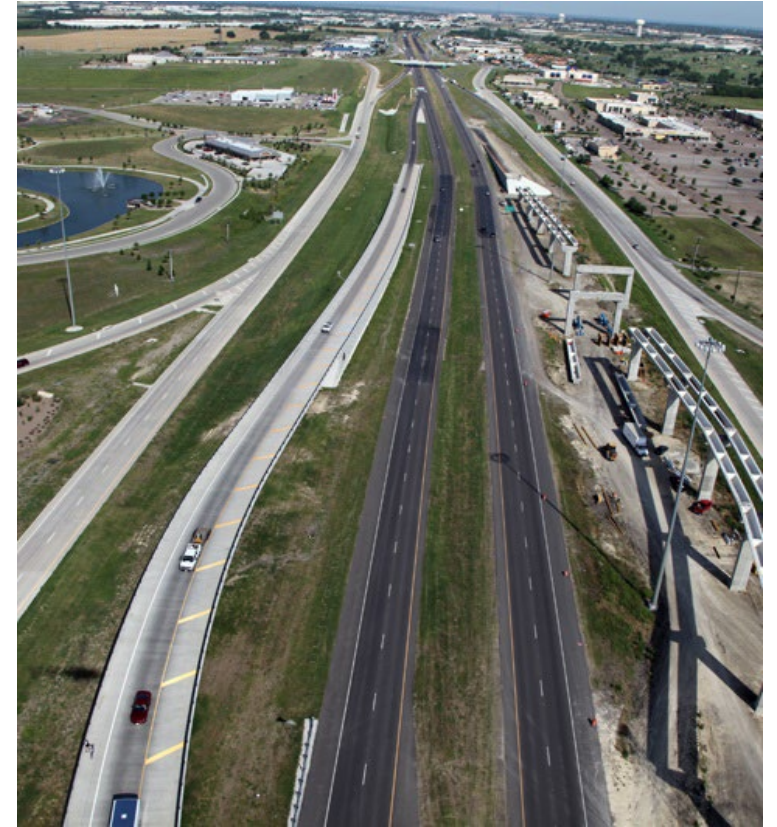
# Today's Action Item

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- **Public Comments**
  - None received
- **Options**
  - Recommend Policy Board to adopt Amendment 4 to the 2045 Metropolitan Transportation Plan (MTP)
  - Modify Recommendation to Policy Board
- **Public Hearing / Policy Board Action**
  - Thursday, September 21, 2023







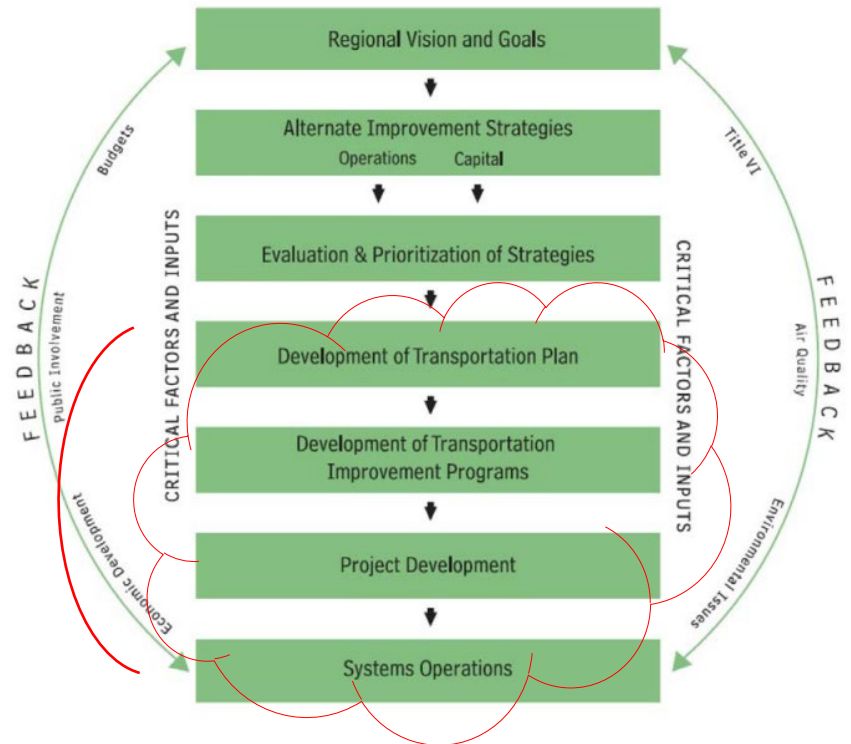
# Transportation Improvement Program

Proposed Amendment to 2023 – 2026 TIP



# Purpose and Need for TIP Amendment

- Proposed Amendment 1
  - Consistency with 2045 MTP
  - Program funding identified for federal highway, public transportation, and pedestrian projects within the Waco region
    - IH-35 4C construction
    - SH 31 & Spur 298 construction
    - Transit vehicle purchase - FTA 5339(c) grant funds
    - Carbon reduction strategies (Appendix F revisions)
    - Design revisions to highway projects
  - FAST Act Requirements
    - Update performance targets (Appendix G revisions)





# Proposed TIP Amendment

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- Statewide Priority Allocation
  - Texas Transportation Commission Priority:
    - Construction of IH-35 4C
- *Action: Program identified funds for IH-35 4C into FY 2023-2026 TIP as requested by TxDOT Waco District*
  - Revisions highlighted in Section 1.2 of Amendment 1 and Highway Financial Summary





# Proposed TIP Amendment

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- Program federal & state funds awarded through supplementary programs
  - *Action: Program funds awarded to Waco Transit through the Low or No Emission Program (competitive grant)*
    - Revisions highlighted in Section 1.3, transit project descriptions, and transit financial summary of Amendment 1
  - *Action: Program funds awarded to local entities by Waco MPO through the Carbon Reduction Program (formula grant)*
    - CRP awarded projects are “grouped” to provide an efficient method of programming and letting projects and to decrease the necessity for TIP/STIP revisions
    - Revisions highlighted in Section 1.4 and Appendix F of Amendment 1



# Proposed TIP Amendment

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- Program Project Adjustments
  - Necessitated by design and engineering process
  - Requested by TxDOT Waco District
  - Regional projects currently programmed for engineering, right-of-way acquisition and/or construction phases
    - Revisions highlighted in Section 1.2 and highway financial summary of Amendment 1
  - Regional projects currently undergoing environmental assessment
    - Revisions highlighted in Appendix D of Amendment 1



# Proposed TIP Amendment

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- *Action: Program adjustments to project limits, scope of work and/or project costs for projects included in engineering phase and/or right-of-way acquisition and in Appendix D*
  - US 84 (Hewitt Dr to Spur 298) – engineering & row phases
  - US 84 (Spur 298 to Lake Air Dr) – engineering phase





# Proposed TIP Amendment

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- Performance Targets

- The progress of implemented mobility strategies are measured against performance targets to assess strengths and weaknesses
- Periodically, targets may be adjusted to improve performance and expected impact

- *Action: Update Appendix G to reflect revised performance targets and how new programming will assist in achieving targets*

- Includes revisions to targets supported by the Waco MPO Policy Board over the past year
- Accordance with FAST Act requirements
- Revisions highlighted in Section 1.5 and Appendix G of Amendment 1



# Public Comments

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- **Public Comment - Butler**

- Address unfinished projects before IH-35 4C construction to address congestion:
  - N Loop 340 from IH-35 to US 84 in Bellmead
  - N Loop 340 from US 84 to SH 6
  - US 77 from Orchard Ln to IH-35
- Project design and schedule
  - Franklin / New Rd (safety)
  - 5<sup>th</sup> Street through downtown Waco

# Today's Action Item

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- Options

- Recommend Policy Board to adopt Amendment 1 to 2023-2026 Transportation Improvement Program (TIP)
- Modify Recommendation to Policy Board

- Public Hearing / Policy Board Action

- Thursday, September 21, 2023





# Unified Planning Work Program

Proposed Amendment to FY 2022 – 2023 Work Plan & Budget



# What is the Unified Planning Work Program?

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- UPWP serves as the MPO's work plan and operating budget
  - Currently operating under FY 2022-2023 UPWP
- Identifies how federal highway and transit planning funds are intended to be used
  - Estimates amount of federal planning funds available
- Identifies each task MPO intends to accomplish and total funds to be used

# Proposed UPWP Amendment

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- Amend Task 5 – Special Studies
  - Add subtask 5.2 to carry out a Low/Zero Emission Propulsion Study, Infrastructure Assessment, and Transition Plan
  - Requested by Waco Transit System
  - 1-year additional cost (FY 2023): \$86,348
    - \$64,761 federal funds
    - \$21,587 local funds



# Today's Action Item

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- Options

- None Received

- Options

- Recommend Policy Board to adopt Amendment 3 to the FY 2022 – 2023 Unified Planning Work Program (UPWP)
  - Modify Recommendation to Policy Board

- Public Hearing / Policy Board Action

- Thursday, September 21, 2023





# TxDOT Waco Area Project Updates

Building the Texas Transportation System



September 7, 2023





- **Waco DR ADA Project**

**ROADWAY:** US 84

**COST:** \$9,930,693.78

**LIMITS:** Centerpoint Dr to FM 933

**SCOPE:** Install sidewalk and upgrade signals

**TIMELINE:** Est. Completion Fall 2023

-All signals active. Currently awaiting final TDLR inspection, punchlist, and final completion.



- **Spring Valley Widening**

**ROADWAY:** FM 2113

**COST:** \$15,387,558.27

**LIMITS:** From Sun Valley to Hewitt Dr

**SCOPE:** Adding Turn Lane, Shoulders, and Drainage

**TIMELINE:** Anticipate Fall 2024 Completion

- Continuing permanent pavement construction on east side of roadway between Sun Valley and Old Temple.
- Continuing permanent drainage construction between Old Temple and Hewitt Dr.
- Anticipate opening east half of new roadway late this fall.



- **SH 6 at Baylor Camp**

**ROADWAY:** SH 6

**COST:** \$723,086.00

**LIMITS:** SH 6 at Baylor Camp Rd

**SCOPE:** Adding Turn Lane

**TIMELINE:** Fall 2023 Completion

- Completed widening of drainage structure and started shoulder widening.
- Will begin paving after Labor Day.



- **SH 6 Mall to Mall**

**ROADWAY:** SH 6

**COST:** \$54,894,543.25

**LIMITS:** Bagby Ave to US 84

**SCOPE:** Widen freeway, construct frontage road bridges, and reconfigure ramps

**TIMELINE:** Est. Completion Early 2024

- All 4 new frontage road bridges open to traffic
- Anticipate moving mainlan traffic to new bridges closest to US 84 after Labor Day.
- Continuing construction of new mainlane pavement and bridges between Bagby and Imperial Dr.



# Bagby Turnarounds





# Bagby to Beverly





# Exchange Parkway













# Oxygen/Depot Bridges











- **IH 35 Resurfacing**

**ROADWAY:** IH 35

**COST:** \$6,126,287.10

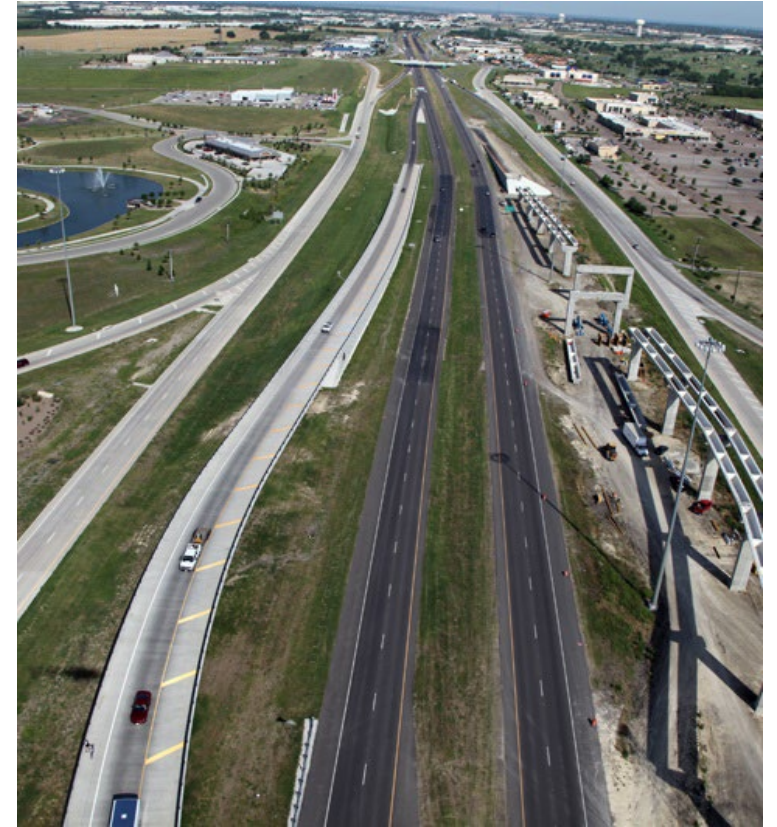
**LIMITS:** N. Loop 340 to BU 77

**SCOPE:** Mill and Inlay

**TIMELINE:** Est. Completion End of 2023

- Milling existing surface in northbound direction. Expect to begin paving after Labor Day.
- Will begin milling southbound when northbound paving starts.
- Paving expected to be complete by end of October.





# Monthly Business

Work Group Updates, MPO Monthly Report, Announcements

# Work Group Updates

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- Citizen's Participation Work Group
- **Bike & Pedestrian Work Group**
- Connected and Automated Vehicles Work Group
- Mobility, Land Use, and Transportation Work Group

# MPO Monthly Report

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- **Policy Board Updates**

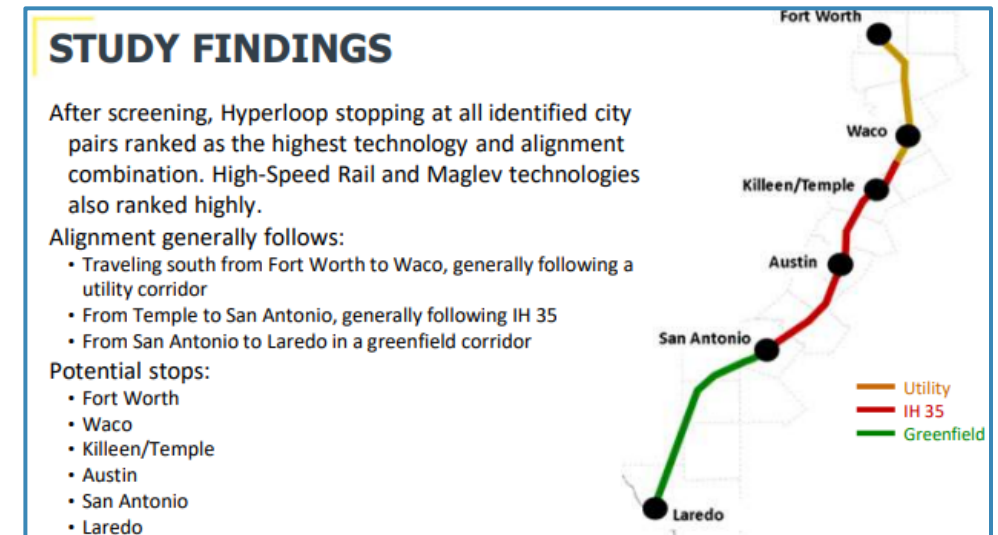
- Policy Board directed staff to solicit public comments regarding CRP funding recommendations
- Policy Board voted to approve 2022 Annual Project Listing (APL)
- Policy Board directed staff to convene a steering committee for 2050 MTP development

# MPO Monthly Report

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- **Hyper Loop**

- Fort Worth to Laredo high-Speed Transportation Study Results and Transpod Feasibility Study
- NCTCOG CERTT (Certification of Emerging and Reliable Technology) Program
  - U.S. certification still required for hyperloop technology prior to implementation
- NCTCOG and Transpod seeking MPO support





# MPO Monthly Report

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- **Public Listening Session & Regional Visioning Workshop**

- Listening Session & Lunch:
  - Monday October 9<sup>th</sup>, 12pm-2pm
- Regional Visioning Workshop & Lunch:
  - Thursday October 19<sup>th</sup>, 11am-1pm
  - Followed by Policy Board Meeting at 2pm
- South Waco Community Center
  - 2815 Speight Ave, Waco



# MPO Monthly Report

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- Data & GIS

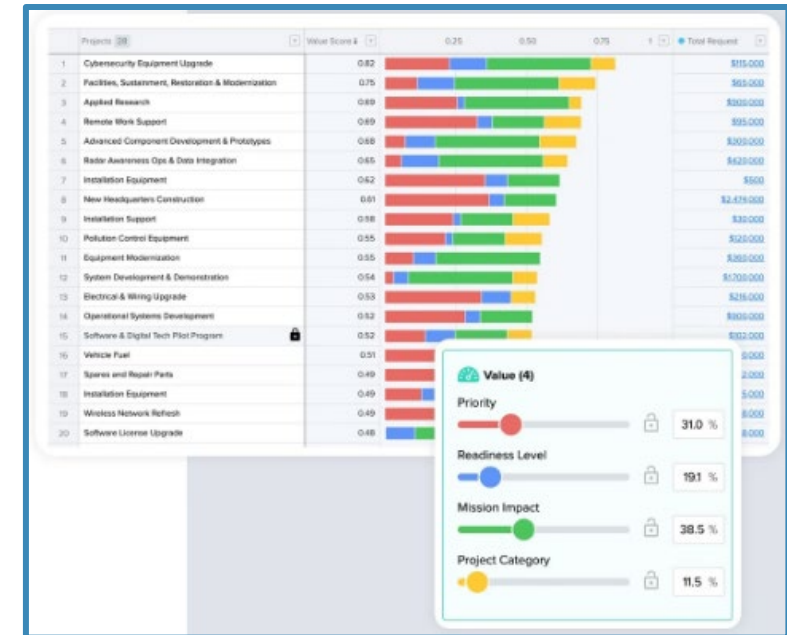
- Regional Geographic Information System (GIS) group
  - Professionals from different departments
    - Prosper Waco
    - Waco Chamber
    - City of Waco – Public Works, Economic Development, IT
    - Waco MPO
    - TxDOT



**Knowledge sharing**  
**Data integration**  
**Collaborative projects**  
**Professional development**

# MPO Monthly Report

- Decision Lens Testing
  - Integrated Planning Software
    - Prioritization framework
    - Scenario planning & optimization
  - License provided to MPO at no cost
  - Intend to utilize for MTP project selection



# MPO Monthly Report

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- Safe Streets and Roads for All (SS4A)
  - 2022 SS4A grant execution
    - Comprehensive Safety Action Plan RFP for consultant sent to City of Waco
  - 2023 SS4A grant submission
    - Proposal for demonstration grant funding submitted

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# MPO Monthly Report

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- SMART Grant Application
  - Due October 10
  - Working with TNL Group to craft proposal

The logo for SMART (Surface, Metropolitan, and Rural Transportation) features the word "SMART" in a bold, blue, sans-serif font. The letter "A" is stylized with a green and blue triangular shape integrated into it. A thick black horizontal line is positioned directly below the text.

# Announcements

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- Next TAC Meeting
  - Thursday, October 5, 2023
- Next Work Group Meetings
  - Connected and Automated Vehicle (CAV) – Wednesday, October 18, 2023
  - Bike & Pedestrian - Thursday, November 16, 2023
- Request for Agenda Items for Future Meetings





# Contact Us

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Departments/Metropolitan-Planning-  
Organization](https://www.waco-texas.com/Departments/Metropolitan-Planning-Organization)







# Waco MPO Technical Advisory Committee Meeting

Thursday, September 7, 2023 2:00 PM