



**TRIANGLE WEST**  
Transportation Planning Organization

# **2055 Metropolitan Transportation Plan – Alternatives & Scenarios**

# Plan Development Process

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## Vision & Goals:

- Review existing plan
- Update goals, objectives, and performance measures

**Feb. – June '24**

## Analysis & Evaluation:

- Examine existing conditions
- Forecast future problems
- Develop & analyze alternative scenarios

**June '24 – April '25**

## Preferred Option:

- Develop preferred option
- Analyze fiscal feasibility
- Confirm preferred option

**April – August '25**

## Final Plan:

- Finalize fiscal constraint
- Air quality conformity documentation
- Adoption

**Sep. – Dec '25**

# Recap:

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Jan.  
**28<sup>th</sup>**

DCHC MPO's Board Meeting

General Update Included:

- Project schedule
- Analysis of Communities with Environmental Justice Concerns
- Review and refining CommunityViz
- Request for bicycle and pedestrian data

Jan.  
**29<sup>th</sup>**

CAMPO & Triangle West Joint Board Meeting

Overview of the Alternative Analysis

- Review of the Pre-MTP “Learning Scenarios”
- Introduction of recommended Alternatives to Study in Destination 2055 including: Deficiency & Needs, Plans & Trends, Shared Leadership, and All Together

Feb.  
**11<sup>th</sup>**

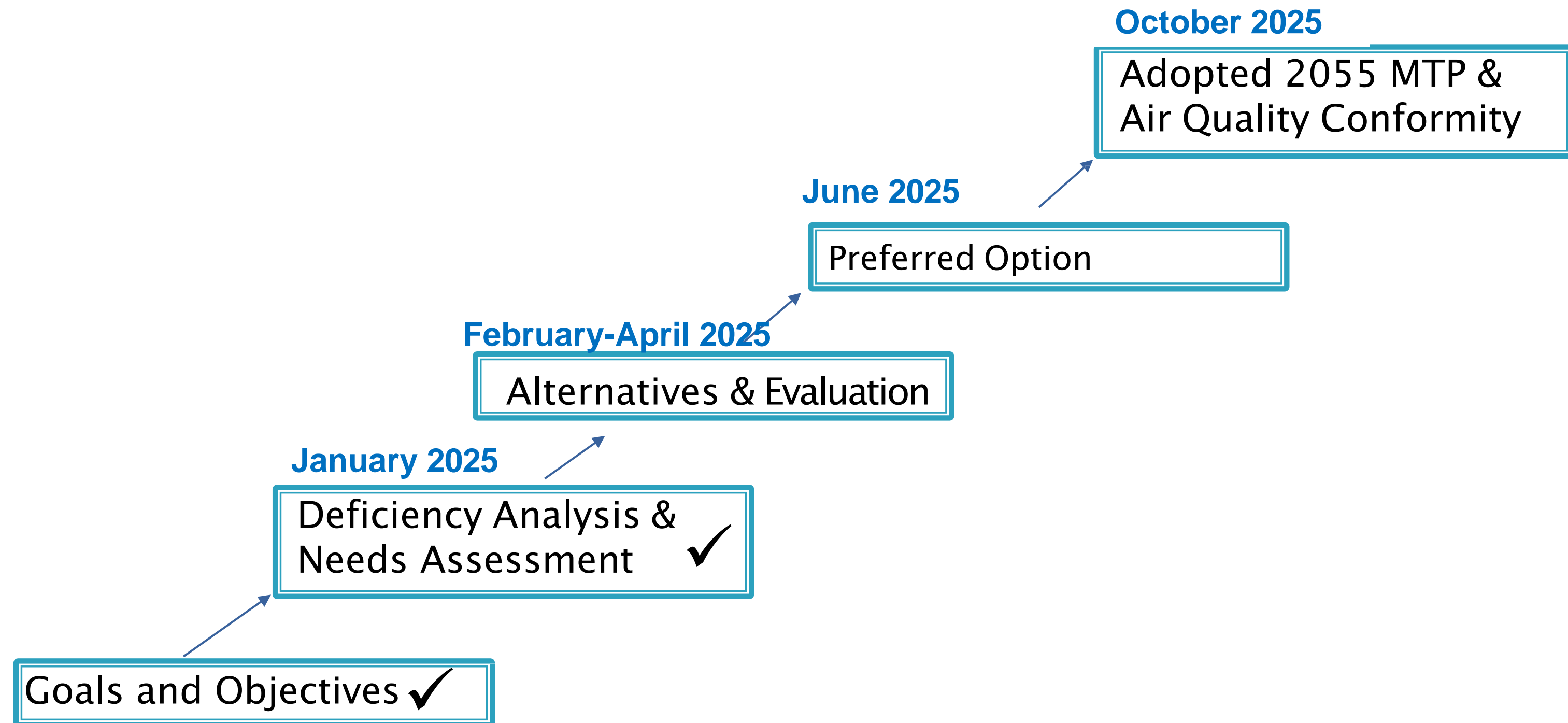
Triangle West Technical Committee Meeting

Deeper Dive Into Triangle West

Alternative Analysis:

- Deficiency & Needs
- Plans & Trends
- Shared Leadership
- All Together

# MILESTONES/SCHEDULE



# Alternatives and Analysis & Evaluation

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01

Staff, public and Board discuss different land use and transportation possibilities










02

Today's presentation focuses on assumptions and projects of Alternatives & Scenarios

03

*Preferred Option:* likely to be mixture of the assumptions and projects from Alternatives

# Alternative, Scenario & Framework

Destination 2055 Scenario Framework							
			Mobility Investment Foundation				
			Existing (& Committed)	Trend	Mobility Corridors	Complete Communities*	Comprehensive Transport Plan
   	Development Foundation	Existing Condition	Congestion Management				
		Community Plans	 Deficiency & Needs Scenario	 Plans & Trends Scenario	 Shared Leadership Scenario		
		Opportunity Places (Key Hubs & REINVEST				 All Together Scenario	
		Build-Out					

\* More focused investment on Complete and Safe Streets, Active Transport, and Transit

# Plan & Trend Scenario

## Assumption

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Majority of state and federal funding is allocated to roadway improvements due to STI constraints, while transit investments remain aligned with county plans plus a few service frequency and hour changes

## Development Foundation

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- Locally-adopted community/land use plans

# Plan & Trend Scenario – Mobility

## Investment Foundation

### Transit

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- ❖ Current InterCity Passenger Rail (Only Durham Station)
- ❖ BRT Line: Chapel Hill NS BRT Line
- ❖ Bus Lines:
  - \* Short-Range Plans (Funded Projects)
  - \* County Transit Plans (Funded Projects)
  - \* A few Service Frequency & Hour Changes

### Highway

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- ❖ 2050 MTP Highway Projects (with adjustments)
- ❖ Capacity Improvement:
  - 6-In US-70 East Freeway/Expressway
  - I-85 South 6-In Interstate
  - I-86 North 6-In Interstate
  - US 15-501 Expressway in Durham & modernization in Chapel Hill
  - I-885 HOV Lane from EEC to I-40
  - I-40 Management Lane from I-540 to 15-501
  - NC 54 modernization West of Carrboro
  - US 15-501 Bypass: 6-In or Adding HOV In
  - 4-In S Churton St
  - 4-In Fayetteville St
- ❖ New Road Projects:
  - Northern Durham Parkway
  - SW Durham Dr



# Shared Leadership Scenario

## Assumption

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Additional state funding and increased federal funding are assumed, with a relatively higher share of the overall funding allocated to bus transit and BRT

## Development Foundation

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- Locally-adopted community/land use plans

# Shared Leadership Scenario - Mobility Investment Foundation

## Transit

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- ❖ InterCity Passenger Rail (Durham & Hillsborough Stations)
- ❖ BRT Lines:
  - Chapel Hill North-South BRT Line
  - Durham-Orange BRT Line, (Chapel Hill Transit Center via 15-501, Duke, Durham station to the Village or NCCU/Durham Tech.
  - Durham Station-RTP BRT Line
- ❖ Bus Lines: Trend Scenario with adjustments

## Highway

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- ❖ 2050 MTP Highway Projects (with adjustments)
- ❖ 2024 Congestion Management Process (CMP) Projects
- ❖ Other Projects/Adjustments:
  - I-885 HOV Lane from EEC to I-40
  - US-70 East: Parallel collector roadway

# All Together Scenario

## Assumption

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A larger proportion of the overall state & federal funding is available for bus transit, BRT, rail transit, & bicycle & pedestrian facilities

## Development Foundation

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- Based on locally-adopted land use plans, increased development around Mobility Hubs, Anchor Institutions, TOD, & Affordable Housing

# All Together – Mobility Investment Foundation

## Transit

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- ❖ InterCity Rail (ICR)
- ❖ Regional Commuter Rail (RCR)
- ❖ All Four 2050 MTP BRT Lines with Adjustments
- ❖ Bus Lines: Shared Leadership Scenario with Adjustments

## Highway

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- ❖ 2050 MTP Highway Projects (with adjustments)
- ❖ 2024 Congestion Management Process (CMP) Projects
- ❖ Other Projects/Adjustments:
  - I-885 HOV Lane from EEC to I-40
  - US-70 East: Parallel collector roadway (to be determined)

# Scenario Summary & Comparison

	Deficiencies & Needs	Plans & Trends	Shared Leadership	All Together
Available Funding	\$	\$\$	\$\$\$	\$\$\$\$
Highway Investment		  	 	 
Bus Investment		 	 	  
BRT Investment			 	  
Rail Investment				
Bike & Ped Investment				 
Development Density				 

# Today's Action

\*Provided comments/suggestions

\*[Email:yanping.zhang@twtpo.org](mailto:yanping.zhang@twtpo.org)

\*Deadline: February 26, 2025



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**THANK YOU!**