Webinar Session General Rules

• During the Q&A session at the end of the presentation, please type in your comments or **questions using the Q+A feature** (and we will read your comments/questions aloud)
• Or, use “**raise your hand**” feature if you would like to speak!
• Si tiene preguntas **en español**, envíe un correo electrónico a lzuyeva@vhb.com
Today

- Review draft Comprehensive Transportation Plan
- Review MTP Amendment posted for public comment
- Review Congestion Management Process
Making Connections 2045 Plan Timeline

**Vision, goals, objectives, selection methodology; existing conditions report**
- Steering Committee meetings March-May
- MetroQuest Public Survey-May
- May 5-20 public meetings

**Model Runs, Evaluate Solutions, Project Selection**
- Middle of June-early results
- Public Input Meetings Round 2: July 23

**Draft MTP**
- Plan public review and feedback August 17-September 16, 2020
- Virtual public meeting sessions Aug. 27-Sept. 3
- Adoption September 17

**CTP and CMP Plans development, MTP Amendment**
- Public Review Oct 19-Nov 18
- Small updates to MTP including Ch 3 and Ch 6 Financial Plan
- CTP Maps and projects
- Congestion Management Process
What is a Comprehensive Transportation Plan?

- State requirement in North Carolina
- NC Board of Transportation adopts the CTP maps (Item T)
- Looking approximately 30 years out, more of a vision plan than a financial plan
- Includes highway, public transit, rail, bicycle and pedestrian recommendations
- One of source plans when considering projects for funding in the TIP/STIP
Planning Region

- Forsyth Co
- Portions of Davidson, Davie, Stokes Counties
CTP Highway Project Selection

- Congestion: future V/C
- Economic development (employment growth 2017-2045)
- Accessibility and mobility (population growth 2017-2045)
- Safety
- Taking into account existing plans
- Preference for incremental improvements/modernization
- Public and stakeholder input
- Support for Intelligent Transportation Systems (ITS)
- Considering geographic equity across the region
CTP Highway Recommendations

- Includes STIP projects
- MTP projects
- Additional roadway modernization, widening, intersection projects
CTP Highway Project Recommendations

- Online map at bit.ly/WS2045MTP
- Turn on “CTP Roadway” in layers
CTP Highway Project Recommendations

- Online map at bit.ly/WS2045MTP
- Turn on "CTP Roadway" in layers

WSUAMPO
Comprehensive Transportation Plan

Proposed Improvements

- Congestion / Mobility (e.g., 4-lane lanes)
- Access Management / Operations (e.g., add median)
- Modernization (e.g., widen lanes, add turn lanes)
- Other (e.g., safety, economic development)
- Interchange
- Bridge / Overpass
- Intersection

Other Features

- Studied Roads

WSUAMPO-Salem Urban Area

MPO

Sheet 2 of 5
Base map date: March 18, 2018

Legal Disclaimer:
These concepts will need additional analysis to meet state and federal environmental regulations, to determine final locations and designs, and to be funded for implementation. Local zoning or subdivision ordinances may require the dedication of right-of-way based on the concepts shown on the Comprehensive Transportation Plan and local collector street plans, based on N.C.G.S. § 136-90.2 and § 136-68.80.

DRAFT WORKING MAP
Plan Date: October 12, 2020
Rdwy-178 Lambeth Farm Ln Extension

S Main St and Cherry St Modernization Projects
Rdwy 429 Bridge over Yadkin River
CTP Transit Project Selection

- Taking into account existing plans
- Analysis of existing ridership characteristics
- Coordination with transit agencies
- Public and stakeholder input
CTP Bicycle and Pedestrian Project Selection

- a review of previously-completed plans
- reviewing existing facilities and gaps
- bicycle and pedestrian crash data
- proximity to recognized activity centers, transit routes and medical and university campus locations
Comprehensive Transportation Plan
Bicycle and Pedestrian Features

WSUAMPO

Bicycle

- Proposal
- Existing
- Proposed

Bicycle and Pedestrian

- Proposal
- Existing
- Proposed

Multitask Path

- Proposal
- Existing
- Proposed

Bicycle and Pedestrian Bridge

- Proposal
- Existing
- Proposed

Bicycle and Pedestrian Underpass

- Proposal
- Existing
- Proposed

Other Features

- Studied Roads
- Winston-Salem Urban Area MPO

Legal Disclaimer:
These concepts will need additional analysis to meet state and federal environmental regulations, to determine final locations and designs, and to be funded for implementation. Local zoning or subdivision ordinances may require the dedication of right of way based on the concepts shown on the Comprehensive Transportation Plan and local selection street maps, based on N.C.G.S. § 136-60.2 and § 136-60.11.

DRAFT WORKING MAP
Plan Date: October 13, 2020

Sheet 4 of 5
Base map date: March 19, 2019
Amendment to MTP 2045

- Chapter 3 Transportation Planning Factors
- Chapter 6 Financial Plan
Chapter 3  Transportation Planning Factors

- Support the economic vitality of the metropolitan area
- Increase the safety of the transportation system for motorized and non-motorized users
- Increase the security of the transportation system for motorized and non-motorized users
- Increase the accessibility and mobility of people and for freight
- Protect and enhance the environment, promote energy conservation, and improve the quality of life
- Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight
- Promote efficient system management and operations
- Emphasize the preservation of the existing transportation system
- Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation
- Enhance travel and tourism
Updates and Changes to Chapter 6 - Financial Plan

Project recommendations lists have not changed

Modifications and additions to the MTP 2045 Financial Plan Chapter include:

- Title and descriptions from “Fiscally Constrained” to “Financial Plan”
- Expanded discussion on:
  - Inflation
  - Revenue estimation process
  - Cost estimation process
- Inclusion of additional State Street Aid (Powell Bill) in maintenance allocations
- Comprehensive Financial Plan tables
Updates and Changes to Chapter 6 - Financial Plan

Inclusion of Comprehensive Financial Plan Tables

• Financial Plan Project Costs and Revenues (adjusted for inflation)
  • Organized by Horizon Year
  • Amounts reflect Year of Expenditure (YOE)
  • Cost by category (i.e. roadways, ped/bike, aviation, etc.)
  • Revenue categories (i.e. state and federal, maintenance, local)
## Updates and Changes to Chapter 6 - Financial Plan

Compilation of Plan Recommendations in Appendix C

- Includes all projects, estimated costs, and anticipated funding sources

### 2045 PROJECTS CONT...

<table>
<thead>
<tr>
<th>MTP_ID</th>
<th>Facility</th>
<th>STIP ID</th>
<th>Project Description</th>
<th>Estimated Cost (Millions USD)</th>
<th>Estimated Completion Date or Horizon Year</th>
<th>Adjusted Estimated Cost in YOE (millions USD)</th>
<th>Statewide Mobility</th>
<th>Combined Regional &amp; Division</th>
<th>Discretionary</th>
<th>Maintenance</th>
<th>HST Safety</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS-Rdwy-409</td>
<td>Yadkin Valley Rd</td>
<td>N/A</td>
<td>Roadway Modernization</td>
<td>$29.207</td>
<td>2045</td>
<td>$43.903</td>
<td>--</td>
<td>$43.903</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
</tr>
<tr>
<td>WS-Rdwy-411</td>
<td>US-158</td>
<td>N/A</td>
<td>Widen to Multilanes</td>
<td>$46.261</td>
<td>2045</td>
<td>$69.537</td>
<td>--</td>
<td>$69.537</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
</tr>
<tr>
<td>WS-Rdwy-414</td>
<td>London Lane</td>
<td>N/A</td>
<td>Widen to Multilanes</td>
<td>$6.554</td>
<td>2045</td>
<td>$9.851</td>
<td>--</td>
<td>$9.851</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
</tr>
<tr>
<td>WS-Rdwy-423</td>
<td>I-40 on Ramp</td>
<td>N/A</td>
<td>Interchange Improvements</td>
<td>$21.528</td>
<td>2045</td>
<td>$32.360</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
</tr>
<tr>
<td>WS-Rdwy-427</td>
<td>I-40</td>
<td>N/A</td>
<td>Interchange Improvements</td>
<td>$21.528</td>
<td>2045</td>
<td>$32.360</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
</tr>
<tr>
<td>WS-Rdwy-430</td>
<td>Germanton Rd/US 52</td>
<td>N/A</td>
<td>Interchange Improvements</td>
<td>$21.528</td>
<td>2045</td>
<td>$32.360</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
</tr>
<tr>
<td>WS-Rdwy-OPS-45</td>
<td>N/A</td>
<td>N/A</td>
<td>Operations and Safety Improvements</td>
<td>$52.980</td>
<td>2045</td>
<td>$79.638</td>
<td>$-</td>
<td>$79.638</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
</tr>
</tbody>
</table>
Congestion Management Process Updates

• What is the Process?
• Status of the Region
• Strategies for Managing Congestion
Federally required update to the region’s Congestion Management Process (CMP)

- A **congestion management process (CMP)** is a systematic and regionally-accepted approach for managing congestion that provides accurate, up-to-date information on transportation system performance and assesses alternative strategies for congestion management that meet state and local needs

- Background on congestion
- Congested Corridors
- Strategies for Relieving Congestion
- Delay per commuter has been increasing (pre-COVID)
- Congestion greatest during PM Peak
- Economic and environmental impacts from delay
- MTP 2045 Plan endorses ITS, TDM, and other congestion reduction measures
Status of Region

Traffic/Roadway Concerns

- Intersection Interchange
- Noise Pollution
- Other please explain below
- Accessibility
- Congestion or Traffic
- Maintenance and Repairs
Congested Corridors - Base Year

- Corridors with issues during PM Peak
- 2017 Model Results
- 2018 HERE (probe) data
Congested Corridors – Future Year

• Corridors with issues during PM Peak
• 2045 Model Results
• ITS Projects
• Intersection and interchange improvements
### Transportation Demand Management
- Vanpool
- Carpool
- PARTnership

### Public Transit
- Upgrade facilities
- Route service improvements

### Bike & Pedestrian
- Complete Streets
- Standalone Projects

### Parking Management
- Pricing
- Off-street and wayfinding
- Loading zones & Complete Streets

### Roadway Modernization
- Access management
- Modernization
- Intersections: Operational and Innovative
Next Steps

Your Role (Public)

• Take time today or in the upcoming weeks to explore the documents online [http://www.wsmtpupdate.com/](http://www.wsmtpupdate.com/) and interactive map ([bit.ly/WS2045MTP](bit.ly/WS2045MTP))
• Share comments and feedback with the Project Team
• Public comment period through November 18 and public hearing during the TAC Meeting on November 19 at 4:15 PM

Our Role (Project Team)

• Address and integrate public comments
• Modify project details as needed
• Final MTP, CTP, CMP reports

Byron Brown
WSUAMPO Transportation
Principal Planner
byronb@cityofws.org

Lyuba Zuyeva
VHB Study Team Lead
lzuyeva@vhb.com