Meeting Agenda

- Timeline
- Guiding Principles
- Public Engagement Summary
- Existing Conditions Review
  - Transportation Safety
  - Maintenance
  - Congestion
  - Freight
  - Transit
  - Bicyclists and Pedestrians
Timeline

Livability 2050 Regional Transportation Plan

Oct. 2017 – Plan Kick-Off

Feb. 2018 – Round One Public Meetings

General Input

Fall 2018 – Round Two Public Meetings

Draft Findings

Summer 2019 – Round Three Public Meetings

Draft Plan

We are here!

Memphis MPO METROPOLITAN PLANNING ORGANIZATION
Guiding Principles

**Connections & Choices**
Promote an efficient, interconnected, and accessible transportation network that provides various options for the movement of people.

**Economic Vitality**
Promote economic development through targeted transportation investments to enhance travel and tourism and ensure the region remains a leader in global logistics and freight movement.

**Safety & Security**
Increase the safety and security of the transportation system for all users.

**Sustainable Growth**
Connect land use and transportation decision-making that protects the environment and conserves energy.

**System Preservation**
Emphasize the preservation and performance of the existing transportation system through maintenance, rehabilitation, and system management and operations.

Memphis MPO
METROPOLITAN PLANNING ORGANIZATION
Public Engagement Summary
Public Workshops
Public Workshops

- 7 Meetings: 75 Attendees

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>Time</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bartlett City Council Chambers</td>
<td>Monday, February 5, 2018</td>
<td>11:30 AM-1:00 PM</td>
<td>6400 Stage Road, Bartlett, TN 38134</td>
</tr>
<tr>
<td>MATA Airways Transit Center</td>
<td>Monday, February 5, 2018</td>
<td>5:30 PM-7:00 PM</td>
<td>3033 Airways Boulevard, Memphis, TN 38131</td>
</tr>
<tr>
<td>DeSoto County Board of Supervisors</td>
<td>Tuesday, February 6, 2018</td>
<td>10:00 AM-11:30 AM</td>
<td>365 Loshier Street, 3rd Fl. Board Rm., Hernando, MS 38632</td>
</tr>
<tr>
<td>Orange Mound Community Center</td>
<td>Tuesday, February 6, 2018</td>
<td>11:30 AM-1:00 PM</td>
<td>2572 Park Avenue, Memphis, TN 38114</td>
</tr>
<tr>
<td>Oakland City Hall</td>
<td>Tuesday, February 6, 2018</td>
<td>5:00 PM-6:30 PM</td>
<td>170 Doss Circle, Oakland, TN 38060</td>
</tr>
<tr>
<td>Collierville Chamber Board Room</td>
<td>Tuesday, February 6, 2018</td>
<td>5:30 PM-7:00 PM</td>
<td>500 Poplar View Parkway, Collierville, TN 38017</td>
</tr>
<tr>
<td>Byhalia City Hall</td>
<td>Wednesday, February 7, 2018</td>
<td>1:30 PM-2:30 PM</td>
<td>161 Mississippi 309, Byhalia, MS 38611</td>
</tr>
</tbody>
</table>
Which of the 3 do you value the most?

A. Reliable travel times
B. Safe roadways
C. Reliable public transportation
D. Short travel distances
E. Better conditions for biking and walking
F. Well-maintained infrastructure
Which 2 community assets would benefit most from additional transportation resources?

A. Schools and universities
B. Parks and open space
C. Employment centers
D. City and town centers
E. Freight hubs
F. Shopping and retail
G. Medical facilities
Which is most important to you:

A. Investing in bicycle-specific facilities
B. Investing in pedestrian-specific facilities
C. Improving public transportation reliability
D. More opportunities for rideshare

![Bar chart showing percentages]

- Investing in bicycle-specific facilities: 11%
- Investing in pedestrian-specific facilities: 27%
- Improving public transportation reliability: 61%
- More opportunities for rideshare: 2%
Which transportation mode would benefit most from safety improvements?

A. Driving
B. Biking
C. Walking
D. Taking the bus or trolley
E. Freight (truck, rail, etc.)
Which emerging issue do you think will have the greatest impact on the Greater Memphis region by 2050?

A. Climate change (air/water quality)
B. Connected Autonomous Vehicles
C. Shared ride services (UBER, LYFT)
D. Funding availability
E. Other

![Bar chart showing the percentage of responses for each issue.]

- Climate change (air/water quality): 13%
- Connected Autonomous Vehicles: 18%
- Shared ride services (UBER, LYFT): 7%
- Funding availability: 60%
- Other: 2%
Online Survey

- 337 Online Surveys
- 735 Map Markers
- 3,738 Unique Data Points
- 30 Paper Surveys
- Bike
  - Connect Greenline to Fairgrounds
  - Buffered bike lanes on Poplar Ave.

- Freight
  - Highway 78

- Pedestrian
  - Safer crossings
  - Better pedestrian access around schools

- Roadway
  - Additional N/S route connections
  - Better coordinated signals

- Safety
  - Enforcement of speed limits
  - Poplar Avenue at several intersections & for non-vehicular traffic

- Transit
  - Higher frequency bus routes
  - Passenger rail
Guiding Principles

- Safety & Security: 1.73
- Connections & Choices: 1.9
- System Preservation: 2.12
- Sustainable Growth: 2.15
- Economic Vitality: 2.17

Guiding Principles:
- Total Times Ranked
- Average Ranking

Memphis MPO
METROPOLITAN PLANNING ORGANIZATION
LIVABILITY connecting people & places 2050
Existing Conditions

- Transportation Safety
- Maintenance
- Congestion
- Freight
- Transit
- Bikes and Pedestrians
# Safety Performance Measure Targets

- Approved by Transportation Policy Board on November 16, 2017

<table>
<thead>
<tr>
<th>Safety Performance Measures</th>
<th>5-Year Rolling Averages</th>
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<tbody>
<tr>
<td></td>
<td>Tennessee (TDOT)</td>
</tr>
<tr>
<td>Number of Fatalities</td>
<td>995.6</td>
</tr>
<tr>
<td>Fatality Rate</td>
<td>1.358</td>
</tr>
<tr>
<td>Number of Serious Injuries</td>
<td>7319.4</td>
</tr>
<tr>
<td>Serious Injury Rate</td>
<td>9.976</td>
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<tr>
<td>Number of Non-motorized Fatalities and Serious Injuries</td>
<td>434.6</td>
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Transportation Safety

- Railroad Grade Crossings
- Bicyclists and Pedestrians
- Motor Vehicle Crashes
## Railroad Grade Crossing Crashes

### Public At-Grade Crashes

<table>
<thead>
<tr>
<th>Location</th>
<th>Total Crashes</th>
<th>Injury Crashes</th>
<th>Fatal Crashes</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Number</td>
<td>Total Injured</td>
</tr>
<tr>
<td>DeSoto</td>
<td>6</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Marshall</td>
<td>16</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>State of Mississippi</td>
<td>405</td>
<td>161</td>
<td>326</td>
</tr>
<tr>
<td>Shelby</td>
<td>103</td>
<td>26</td>
<td>33</td>
</tr>
<tr>
<td>Fayette</td>
<td>3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>State of Tennessee</td>
<td>476</td>
<td>125</td>
<td>155</td>
</tr>
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</table>
Rail Crossing Crash Locations (2008-2017)

Legend
Rail Crossing Crashes
Year 2008-2017
- Fatal Crashes
- Injury Crashes

Road Network
- Interstates/Freeways
- US Routes
- State Routes
- County Roads
- Main Roads
- Other Roads
- Railroads
- States
- Counties
- Waterbodies
Bicyclists and Pedestrian Crashes

Crashes per year (2014-2017)

- 2017: 98 Bicyclist, 377 Pedestrian
- 2016: 84 Bicyclist, 328 Pedestrian
- 2015: 98 Bicyclist, 400 Pedestrian
- 2014: 109 Bicyclist, 378 Pedestrian

Legend

Bicycle Crash Severity
- ● Non-Injury Crash
- ○ Injury Crash
- ● Fatal Crash

Road Network
- ■ Interstates/Freeways
- □ US Routes
- □ State Routes
- □ County Roads
- ■ Main Roads
- □ Other Roads
- ■ Railroads
- □ States
- □ Counties
- □ Waterbodies

- Type of Injury/Fatality

**Pedestrian**
- No Injury: 55%
- Suspected Serious Injuries: 17%
- Suspected Minor Injuries: 12%
- Possible Injuries: 11%
- No Injury: 7%
- Unknown: 9%
- Fatals: 1%

**Bicyclist**
- No Injury: 61%
- Suspected Serious Injuries: 16%
- Suspected Minor Injuries: 8%
- Possible Injuries: 2%
- Unknown: 1%
- Fatals: 1%

Memphis MPO
METROPOLITAN PLANNING ORGANIZATION

LIVABILITY
connecting people & places 2050

Legend

Crash Severity
- Fatal Crashes
- Injury Crashes

Road Network
- Interstates/Freeways
- US Routes
- State Routes
- County Roads
- Main Roads
- Other Roads
- Railroads

States
Counties
Waterbodies
# Congestion Performance Measure Targets (CMAQ)

- Approved by Transportation Policy Board on April 19, 2018

<table>
<thead>
<tr>
<th>Congestion Mitigation &amp; Air Quality Performance Measures</th>
<th>Memphis, TN-MS-AR Urbanized Area</th>
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</thead>
<tbody>
<tr>
<td>Percentage of Non-Single Occupancy Vehicle Travel</td>
<td>Baseline (2017)</td>
</tr>
<tr>
<td>Annual Hours of Peak-Hour Excessive Delay per Capita</td>
<td>16.6%</td>
</tr>
<tr>
<td></td>
<td>8.54</td>
</tr>
</tbody>
</table>
2017 Congestion and Level of Service

Legend

Year 2017 Level of Service
- LOS E
- LOS F

Road Network
- Interstates/Freeways
- US Routes
- State Routes
- County Roads
- Main Roads
- Other Roads
- Railroads

States
Counties
Waterbodies

Miles
0 2.5 5 10

LIVABILITY connecting people & places 2050
## Maintenance - Pavement

### Pavement Conditions in Tennessee Portion of Memphis MPO Area

<table>
<thead>
<tr>
<th>Category</th>
<th>Lane miles</th>
<th>Pavement condition</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Good</td>
</tr>
<tr>
<td>Interstates</td>
<td>457.1</td>
<td>73.1%</td>
</tr>
<tr>
<td>NHS state routes</td>
<td>1025.0</td>
<td>17.4%</td>
</tr>
<tr>
<td>NHS Local routes</td>
<td>425.0</td>
<td>5.2%</td>
</tr>
</tbody>
</table>
Memphis MPO Regional Freight Plan

- Adopted November 16, 2017
- Workforce and Community
- Freight Modes and Networks
  - Freight Bottlenecks
  - Operational and Geometric Deficiencies
- Freight Performance Measures
- Freight Plan Projects
Freight Bottlenecks
Operations and Geometric Deficiencies
Transit

Phase 3 - Draft Recommended Network

- Assumes the City will invest an additional $30 million a year in transit
  - 26 million for operations
  - 4 million for capital needs
- Increase jobs accessible in 1 hour by 39% (17,000 jobs)
- Increase job access for:
  - Low income residents: 49%
  - Minority residents: 45%
Bicycle and Pedestrian Facilities
Best Cities for Bikes

**CITIES**

- **MEMPHIS, TN**
  - Population: 655,857
  - Rating: 2.6

- **NASHVILLE, TN**
  - Population: 643,771
  - Rating: 1.5

- **KNOXVILLE, TN**
  - Population: 183,927
  - Rating: 1.8

Source: [https://cityratings.peopleforbikes.org/](https://cityratings.peopleforbikes.org/) 2018
Next Steps - Recommendations

- Bicycle
- Pedestrian
- Freight
- Transit
- Roadway
- System Preservation
Next Steps

- Call for Existing and Recommended Projects
- Funding Projection
- RTPAC Meeting #3