About Memphis MPO

- **Bi-State MPO - TN and MS**
  - **Planning area**: 2 full counties and 2 partial counties
- Coordination with West Memphis MPO, AR
- Transit - Covers 2 States - TN and AR
- Population approx. **1.1 million**
- Employment - **1 in 4** in transportation and warehouse sector
About Memphis MPO - Freight Overview

4 R’s

ROADS

INTERSTATE 55
INTERSTATE 40
INTERSTATE 78

RIVER

5th Largest Inland Port

RAIL

5 class 1’s railroads with over $400 million invested in last few years

RUNWAY

Busiest cargo airport in N. America
About Memphis MPO - Freight Advisory Comm.

- **2013** – Restructuring of the Committee
  - Conducted a FHWA Peer Exchange
    - Washington DC
    - Chicago
    - Atlanta
    - Cincinnati
  - Membership – **Tri-State**
    - Chair – Policy Board Member (elected official)
    - Vice-Chair – FAC Member (private sector)
Regional Freight Plan

Regional Travel Survey 2013-15
Freight Stakeholder Survey 2015
Lamar Ave (US-78) Corridor Study 2010-11
Memphis Freight Infrastructure Plan 2008
Freight Profile 2014-2015
Livability 2040 Regional Transportation Plan 2016

Regional Freight Plan
Jun 2016
Regional Freight Plan - Approach

- Leveraging Previous Studies/ Plans
- Urban and Rural alignment
- Land Use
- Regional Connections across US
  - Peer Cities: El Paso, Oklahoma City, Tulsa, Kansas City, St. Louis, Minneapolis, Louisville, Cincinnati and Nashville
- Management Strategies for through traffic
- Alignment with Arkansas
- Adoption - November 2017

<table>
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<tr>
<th>General Tasks</th>
<th>Freight Planning Requirements</th>
<th>Project Tasks</th>
<th>Freight Disciplines</th>
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<td>Freight System Overview</td>
<td>Freight Movement &amp; Infrastructure</td>
<td>Policy</td>
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<td>Incident Response</td>
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<td>Regional Freight Issues &amp; Challenges</td>
<td>Strategic Freight Corridors &amp; Locations</td>
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<td>Goals, Objectives, &amp; Performance Metrics</td>
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<td>Economic Impacts &amp; Program Funding</td>
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<td>Implementation &amp; Next Steps</td>
<td>Modal Alignment</td>
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<td>Freight Competitiveness</td>
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<td>Investment &amp; Development Program</td>
<td>Environmental</td>
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### Regional Freight Plan - National Level

<table>
<thead>
<tr>
<th>Commodity</th>
<th>% of Total (weight)</th>
<th>Commodity</th>
<th>% of Total (value)</th>
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</thead>
<tbody>
<tr>
<td>Coal-n.e.c.</td>
<td>34.1%</td>
<td>Electronics</td>
<td>18.2%</td>
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<tr>
<td>Other foodstuffs</td>
<td>8.1%</td>
<td>Pharmaceuticals</td>
<td>15.5%</td>
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<tr>
<td>Gasoline</td>
<td>5.4%</td>
<td>Precision instruments</td>
<td>9.0%</td>
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<tr>
<td>Cereal grains</td>
<td>5.3%</td>
<td>Machinery</td>
<td>6.7%</td>
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<tr>
<td>Nonmetal min. prods.</td>
<td>5.0%</td>
<td>Motorized vehicles</td>
<td>6.0%</td>
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<tr>
<td><strong>Total Top 10</strong></td>
<td><strong>75.2%</strong></td>
<td><strong>Total Top 10</strong></td>
<td><strong>75.3%</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mode</th>
<th>% of Tonnage</th>
<th>% of Value</th>
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<tbody>
<tr>
<td>Roadway</td>
<td>93%</td>
<td>66%</td>
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<tr>
<td>Rail</td>
<td>5%</td>
<td>1%</td>
</tr>
<tr>
<td>River</td>
<td>2%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Runway</td>
<td>&lt;1%</td>
<td>33%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
<td><strong>100%</strong></td>
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</tbody>
</table>
Regional Freight Plan - Regional Level

Total Truck trips Normalized per square mile

Freight Train Traffic

Inland waterways Commodity flow
Regional Freight Plan - Sub-Regional Level
Regional Freight Plan - Outreach

- 11 Question - Public Online Survey - **400 responses**

- **What type of delivery option do you select?**
  - Next Day: 1%
  - 2 days: 20%
  - 5-7 business days: 50%
  - Not applicable: 10%

- **How often you shop online?**
  - Daily: 5%
  - Weekly: 10%
  - Few times a month: 30%
  - Seasonally (around...): 20%
  - Do not do online shopping: 15%

- **In future, do you foresee continuing to do:**
  - More online shopping less...: 40%
  - About the same for both online and...: 50%
  - Less online shopping and...: 10%

- **91.5% responded that freight is important for the local/regional economy**
Regional Freight Plan - Outreach

- 8 Question - Truckers survey - “Man on the Street” - 294 responses

- Challenges
- Extreme weather impact
- Potential solutions
Regional Freight Plan - Issues

- **Freight Movement**
  - Address needs of critical freight corridors
    - Capacity
    - Non-recurring Congestion and Safety Incidents
    - Bridges
    - Rail Investment
  - Truck parking
  - Truck Routing
    - Through the Region
    - Between Local/Delivery Sites and Interstate/Freeway
  - Operational and Geometric Deficiencies

- **Workforce Issues**
  - Disconnect between employment needs and skills
  - Jobs access/mobility issues

- **Economic Development**
  - Attracting manufacturing is a challenge
  - Cooperation with Arkansas and Mississippi

- **Port/Airport**
Regional Freight Plan - Recommendations

• **Potential Program(s) of Work**
  - Coordination of freight movement on various network
  - Use of ITS solutions for traffic management and wayfinding system

• **Potential Policies**
  - Companies could make efforts to research and invest in travel demand management (TDM) strategies that provide mobility options both to and from the worksite
  - Leverage TDOT's and MDOT's efforts and initiatives for transportation demand management (TDM) to the freight sector, with continued participation by private sector
  - Develop Strategy for Addressing Funding of Big Ticket Road Infrastructure Projects
  - Address Provision of Additional Truck Parking
Questions and Answers
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