Memphis Urban Area
Metropolitan Planning Organization (MPO)

Regional Freight Plan
Alabama Transportation Planners Conference
Florence, AL

March 2017
About Memphis MPO

Tri-State MPO - Coordination with West Memphis MPO

Bi-State MPO - Tennessee & Mississippi

Population
1.1 million

Transit covers two States (TN and AR)
West Memphis is one of the highest ridership routes for MATA. System wide 10 million trips

1 in 4 employed in transportation and related sector
Freight Overview

4 R’s
Rail, Road, River, Runway

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

Busiest US cargo airport in North America, 2nd busiest in the world (was busiest airport in the world for 16 years in a row).

5th Largest Inland Port
Freight Advisory Committee
2013 - Major Change

- Conducted a FHWA peer exchange
  - Washington DC
  - Chicago
  - Atlanta
  - Cincinnati

- Restructured Freight Advisory Committee

Membership includes Tri-State Area

- Chair - Policy Board Member (elected official)
- Vice Chair - FAC Member (private sector)
Regional Freight Plan cont.

**Work Plan**

- Started June 2016
- Leveraging Previous Studies/Plans
- Urban and Rural alignment
- Land Use
- Management Strategies for trough traffic
- Alignment with Arkansas
- Performance metrics & tracking
- Timeline - Completion estimated August 2017
Regional Freight Plan cont.

- Regional Connections across North America
- Peer Regions and Cities:
  - Regional economic features
  - Transportation network connections
  - Potential for regional connections
- **Peer Cities**: El Paso, Oklahoma City, Tulsa, Kansas City, St. Louis, Minneapolis, Louisville, Cincinnati and Nashville
Regional Freight Plan cont.

2015 Total Freight Flow, All Modes

In Dollars

Source: FAF Data

In Tons
Regional Freight Plan cont.

Transportation Network Connections
- Truck trips over seven days - Trip length and connections

- 24-hours
- Sevan Days
- Three days
Regional Freight Plan cont.

- Industrial Zones across the Tri-State Area – 30+
- Based on Traffic Analysis Zones
- Attempt to identify a unifying theme for the zone
Industrial Use Factors – Site Characterization

- **Site Metrics:**
  - Location
  - Total Acreage
  - Number of Properties (by type)
    - Distribution
    - Manufacturing
    - Service
    - Truck Terminal
    - Warehouse
    - Other

- **Industry and Economic Sectors:**
  - Number of Employees
  - Income Range
  - Workforce Characteristics
Regional Freight Plan cont.

Transportation Network Connections

- Interstate & Arterial Network
Transportation Network Connections
• Railroad networks
Freight Survey

- Released End of January 2017
- Truckers survey - “Man on the Street” - 294 responses
- Public Online Survey – 400 responses

Survey Results

Surveys completed by Date

Number of Responses

Public Online Survey

Trucking "Man on the Street"
Public Survey Questions and Responses

- **How often you shop online?**
  - Daily: 0%
  - Weekly: 10%
  - Few times a month: 20%
  - Seasonally (around...): 30%
  - Do not do online shopping: 40%

- **What type of delivery option do you select?**
  - Next Day: 0%
  - 2 days: 10%
  - 5x/7 business days: 20%
  - Not applicable: 30%

- **In future, do you foresee continuing to do:**
  - More online shopping: 30%
  - About the same for both online and in store: 40%
  - Less online shopping: 20%
  - Not applicable: 10%

91.5% responded that freight is important for the local/regional economy.
Regional Freight Plan cont.

Truckers Survey Questions and Responses

Challenges

Extreme weather impact

Potential solutions

- Truck parking
- First mile last mile
- Turning radius
- Road congestion
- Safety - accidents
- Incident clearance time
- Information (related to)
- Regulations - work hours
- Delays at delivery (in...)
- Transportation costs
- Driver shortage
- Others

Flooding
Winter weather (ice, snow)
Tornadoes
No or not applicable

Reducing incident
Reshuffling options
Getting information
Automated systems
Better quality pavement
More truck rest areas
Others
Next Steps

- Build a corridor level assessment within and through the Region
- Collaborate on the Area, Zone and Region wide evaluations
- Regional characteristics from the industrial zone clusters
- Railway & roadway networks
- Inland Waterways & Transshipment
- Public sector strategies
- Regional characteristics from the industrial zone clusters
- Formulate Programs and Projects
Regional Freight Plan

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