Memphis MPO
METROPOLITAN PLANNING ORGANIZATION

Memphis Urban Area Metropolitan Planning Organization (MPO)

Regional Freight Plan

American Railway Development Association (ARDA) Annual Meeting
Memphis TN

June 2017

About Memphis MPO

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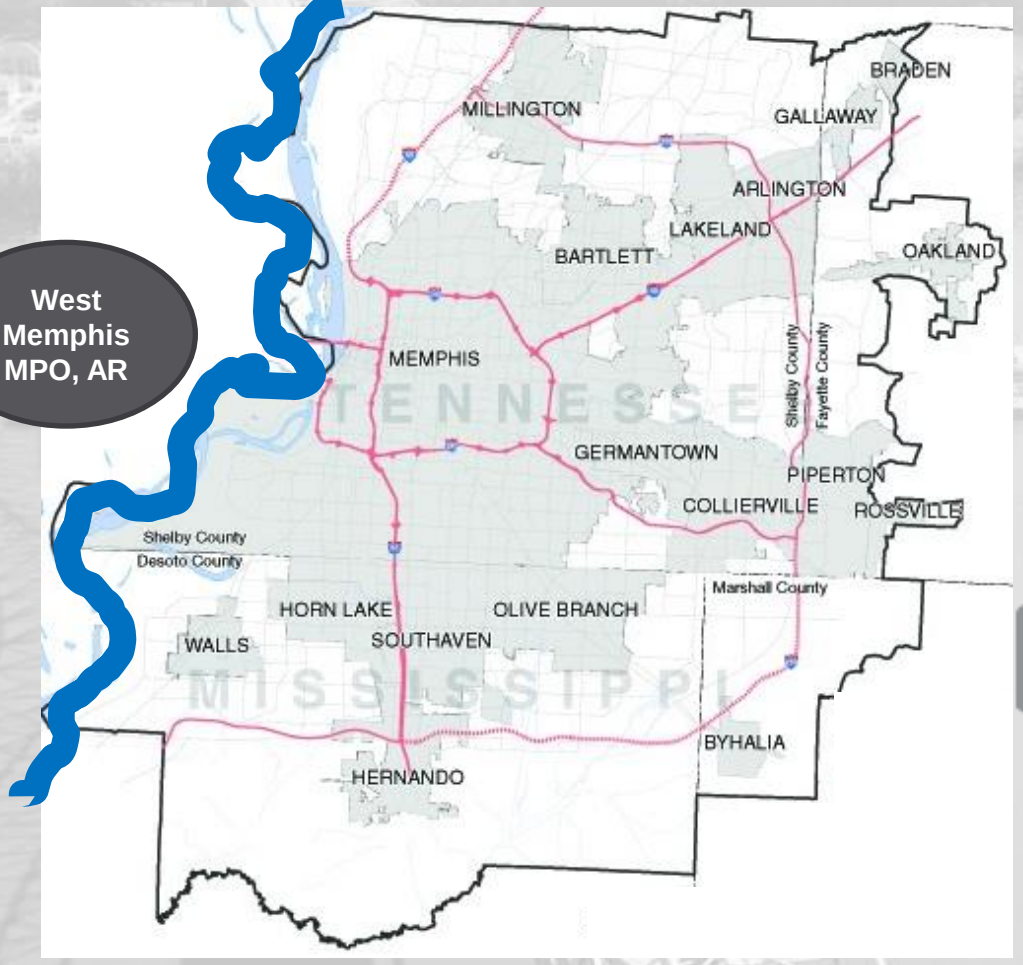
Bi-State MPO- *Tennessee & Mississippi*

Tri-State MPO-
Coordination with West Memphis MPO

West Memphis MPO, AR

1 in 4
employed in **transportation and related sector**



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

Freight Overview

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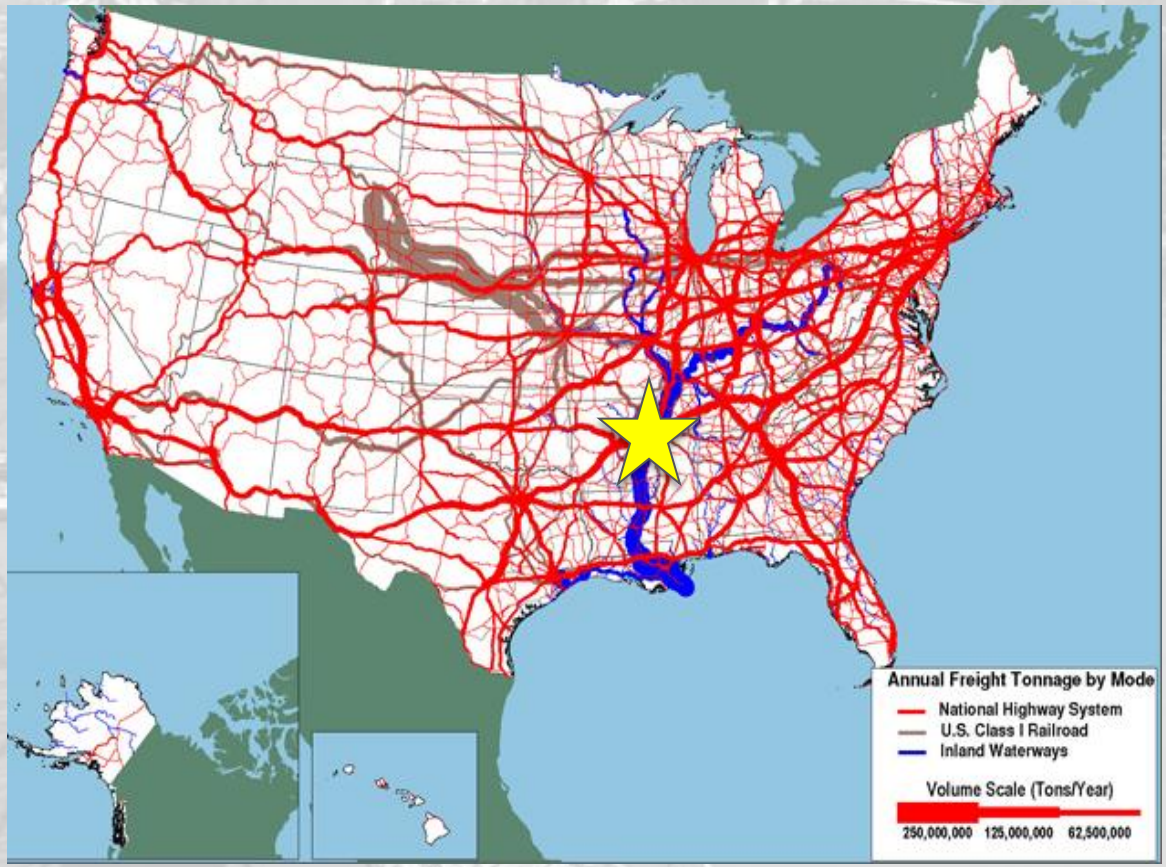
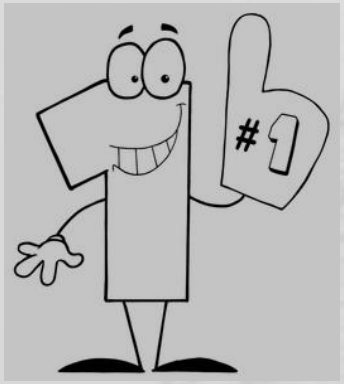
4 R's

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).

INTERSTATE 55 INTERSTATE TENNESSEE 40

69 ***May be***

5th Largest Inland Port

Freight Overview

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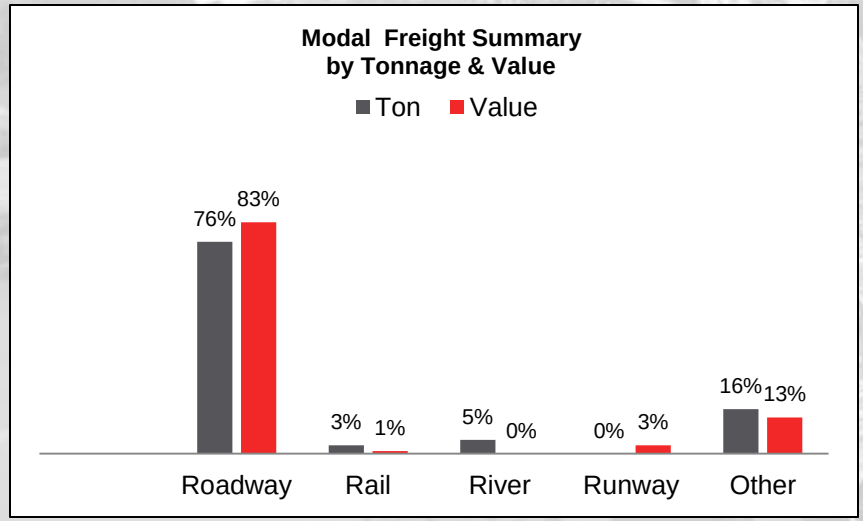
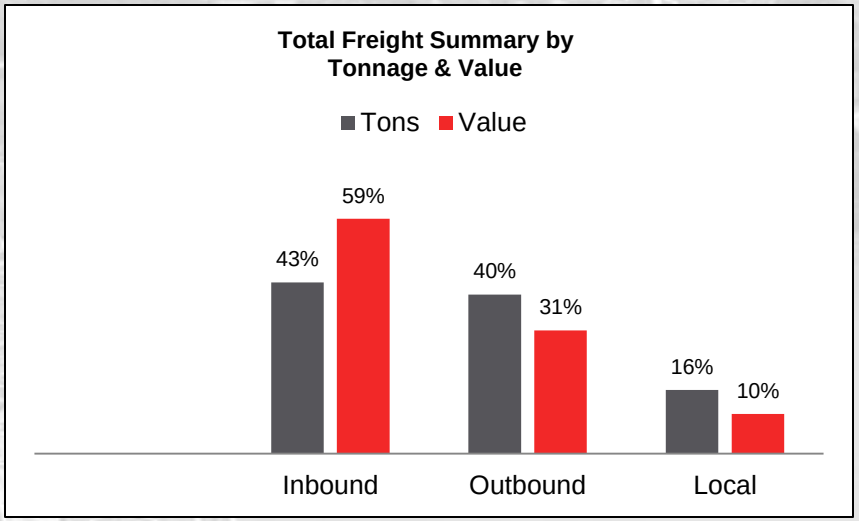
Freight Movement in the Greater Memphis Area





Top Commodities for All Modes (Inbound-Outbound)					
Commodity	**Tons**	**Percent of Total**	**Commodity**	**Value**	**Percent of Total**
Coal	29,849,289	34.10%	Electronics	$44,075,068,300	18.20%
Other foodstuffs	7,064,627	8.10%	Pharmaceuticals	$37,544,630,100	15.50%
Gasoline	4,748,710	5.40%	Precision instruments	$21,870,198,700	9.00%
Cereal grains	4,629,293	5.30%	Machinery	$16,317,364,800	6.70%
Nonmetal min. prods.	4,401,679	5.00%	Motorized vehicles	$14,409,903,000	6.00%
Gravel	4,399,506	5.00%	Transport equip.	$11,699,049,500	4.80%
Basic chemicals	3,640,552	4.20%	Mixed freight	$10,279,547,200	4.20%
Other ag prods.	2,579,590	2.90%	Plastics/rubber	$10,195,714,100	4.20%
Base metals	2,407,117	2.70%	Misc. mfg. prods.	$7,898,673,000	3.30%
Fuel oils	2,191,818	2.50%	Textiles/leather	$7,882,355,500	3.30%
Total Top 10	**65,912,182**	**75.20%**	**Total Top 10**	**$182,172,504,200**	**75.30%**
Total All Other Goods	**21,710,196**	**24.80%**	**Total All Other Goods**	**$59,862,518,600**	**24.70%**

Source: 2015 FAF

Freight Advisory Com.

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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

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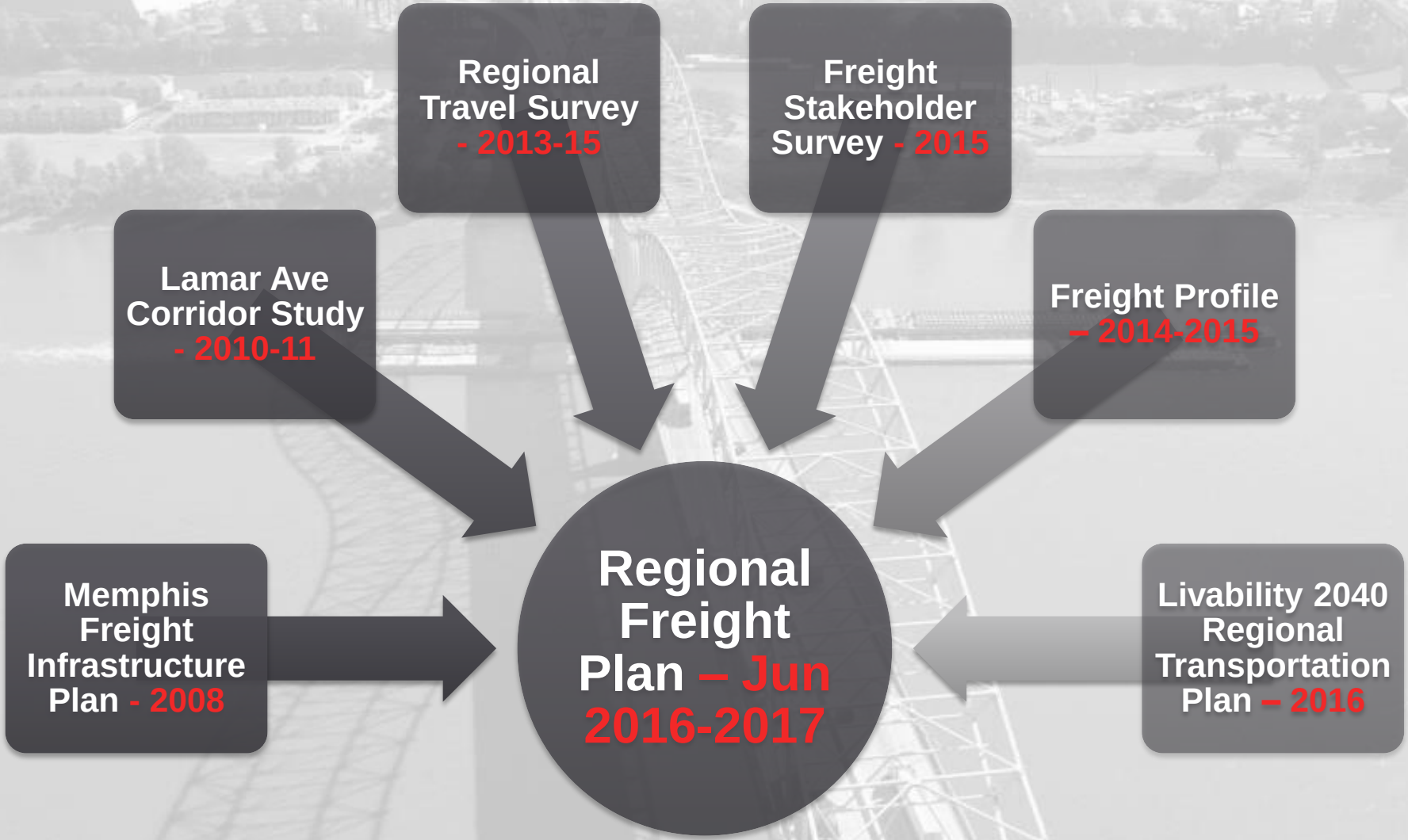

Regional Freight Plan cont.

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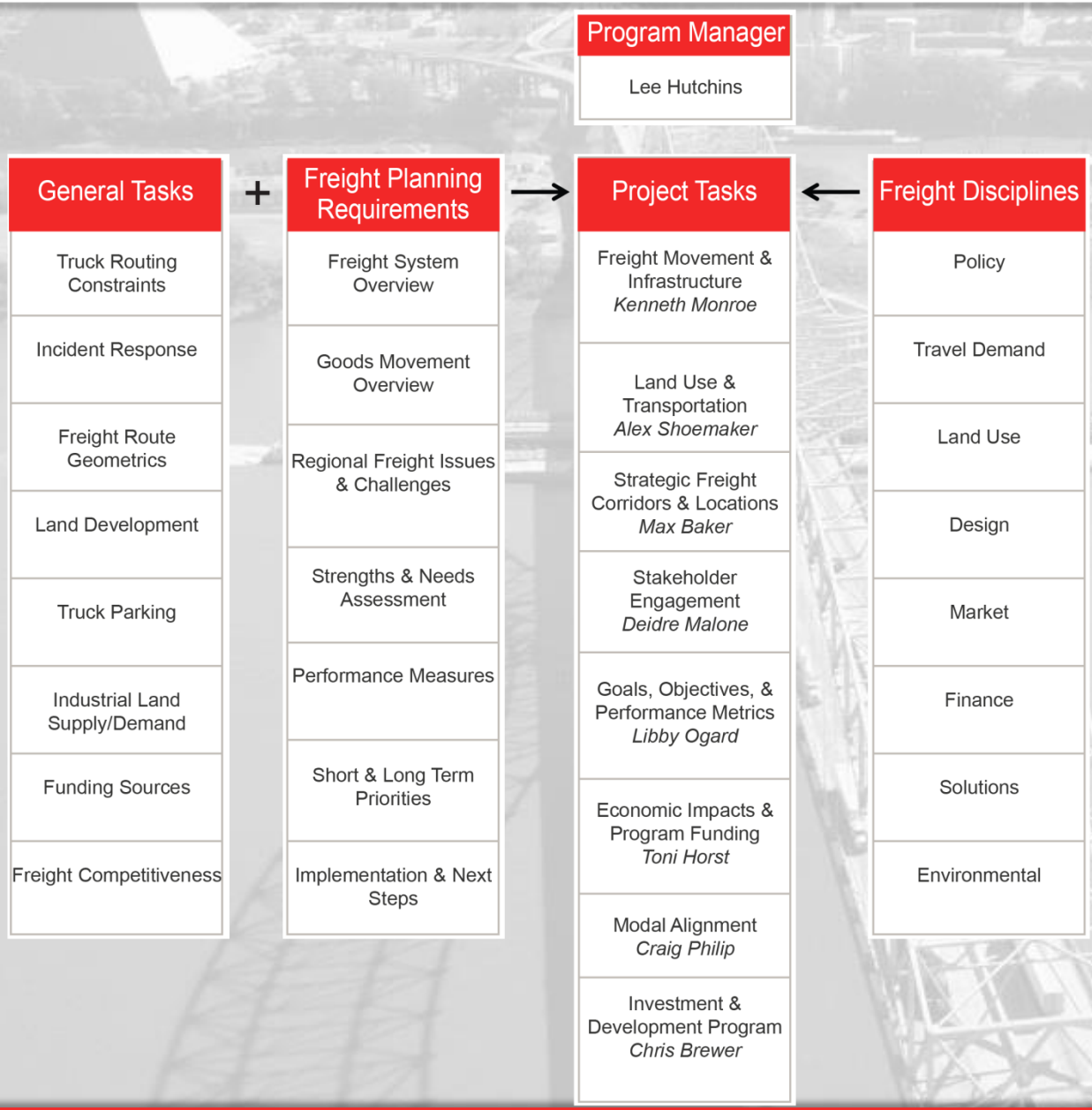

Work Plan

- 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 November 2017

Regional Freight Plan cont.

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Stakeholder Outreach Meetings

- **MPO Committee Meetings** – Freight Advisory, Planning & Land Use Advisory, Engineering & Technical Committee and Transportation Policy Board – **11 meetings**
- **Public & Private Sector Meetings** – Greater Memphis Chamber of Commerce, Desoto County Chamber of Commerce, Economic Development Growth Engine (EDGE), Memphis Port Authority, Airport Authority, BNSF, NS, Trucking Industry, FedEx, West Memphis MPO, TDOT, MDOT, Developer/Real Estate – **12 meetings**
- **MPO Jurisdiction Meetings** – City of Memphis & Shelby County, Tennessee Suburban Municipalities, Fayette County (TN), Desoto & Marshall Counties in Mississippi – **5 meetings**

Key Questions

- ❑ Transportation and infrastructure projects with a freight component
- ❑ Land use and development projects and plans that have a significant freight component
- ❑ Issues and challenges related to freight

Regional Freight Plan cont.

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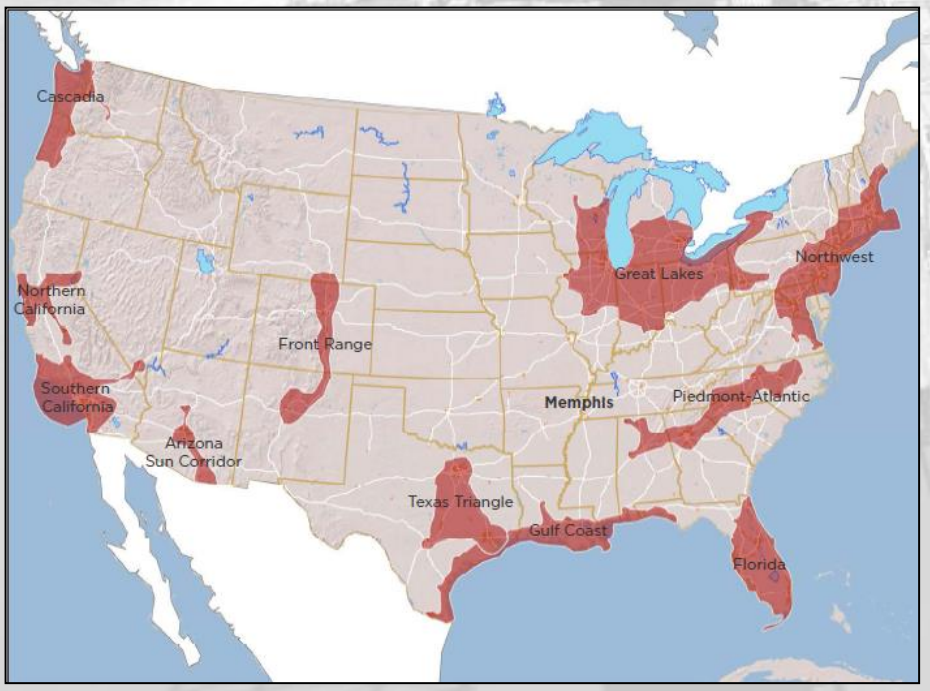
- Regional Connections across North America
- Peer Regions and Cities:
  - Regional economic features
  - Transportation network connections
  - Potential for regional connections
- **Peer Cities:** El Paso, Oklahoma City, Tulsa, Kansas City, St. Louis, Minneapolis, Louisville, Cincinnati and Nashville



Regional Freight Plan cont.

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2015 Total Freight Flow, All Modes

In Dollars

In Tons

Source: FAF Data

Regional Freight Plan cont.

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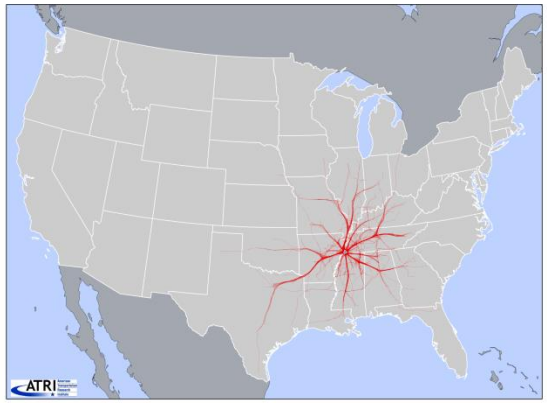
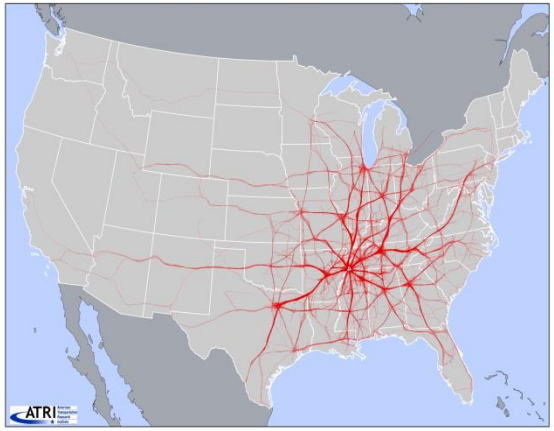
Transportation Network Connections

- Truck trips over seven days - Trip length and connections

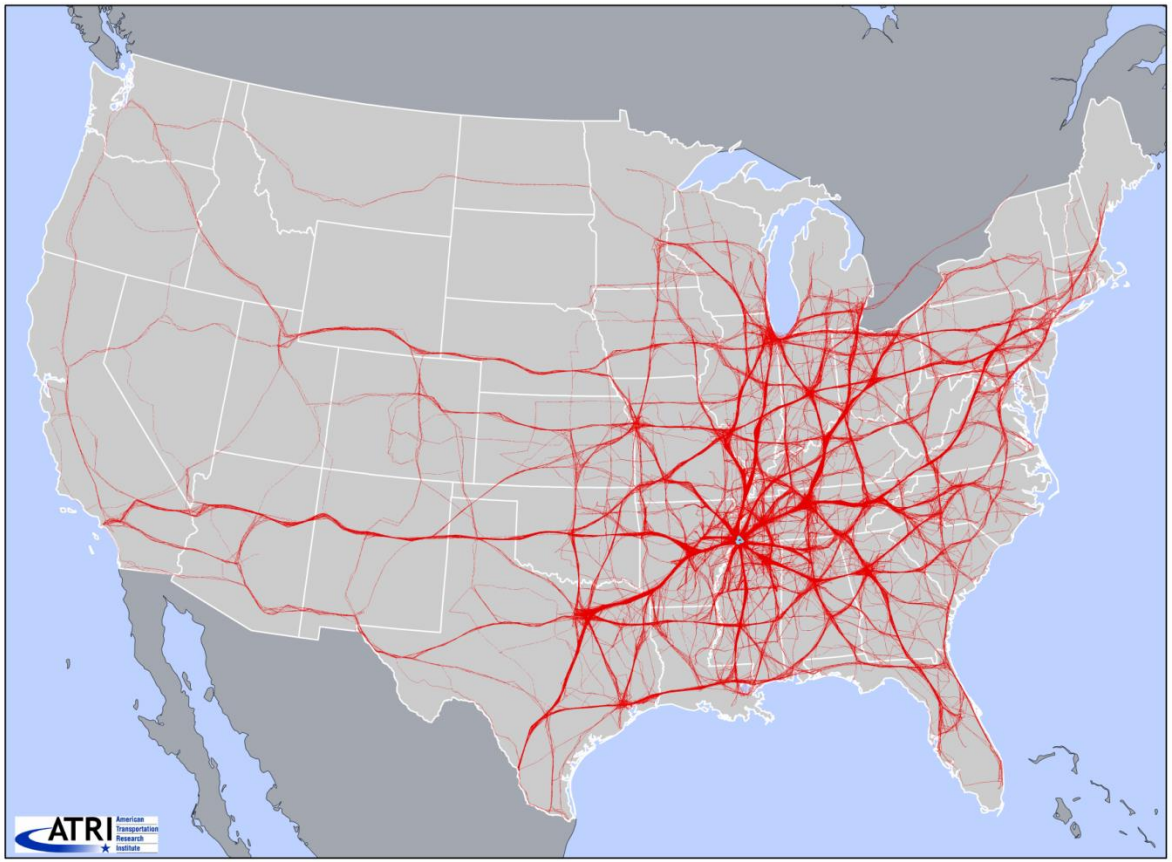
- **24-hours**



- **Three days**



- **Sevan Days**



Regional Freight Plan cont.

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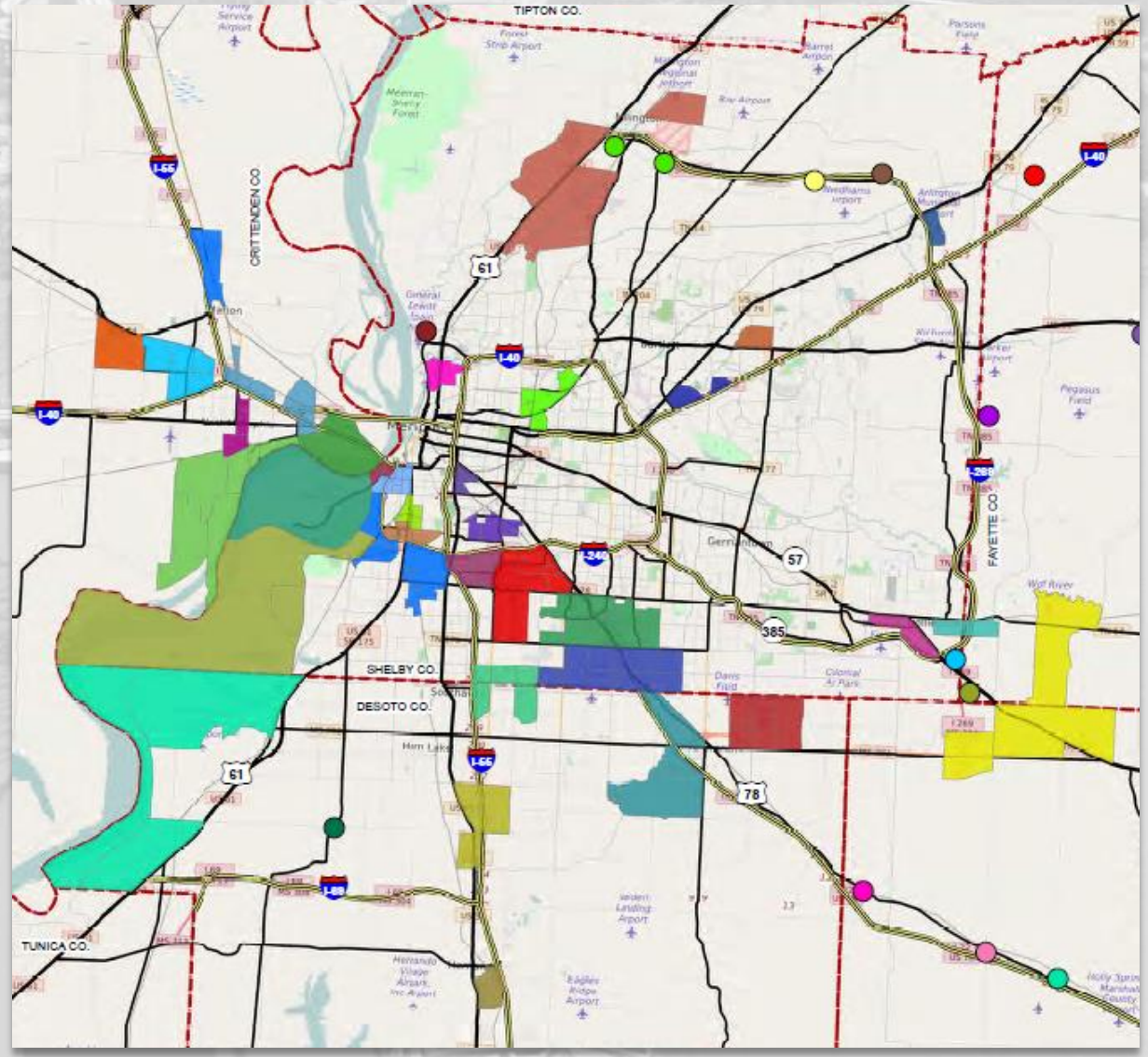
- Industrial Zones across the Tri-State Area – 30+
- Based on Traffic Analysis Zones
- Attempt to identify a unifying theme for the zone



Regional Freight Plan cont.

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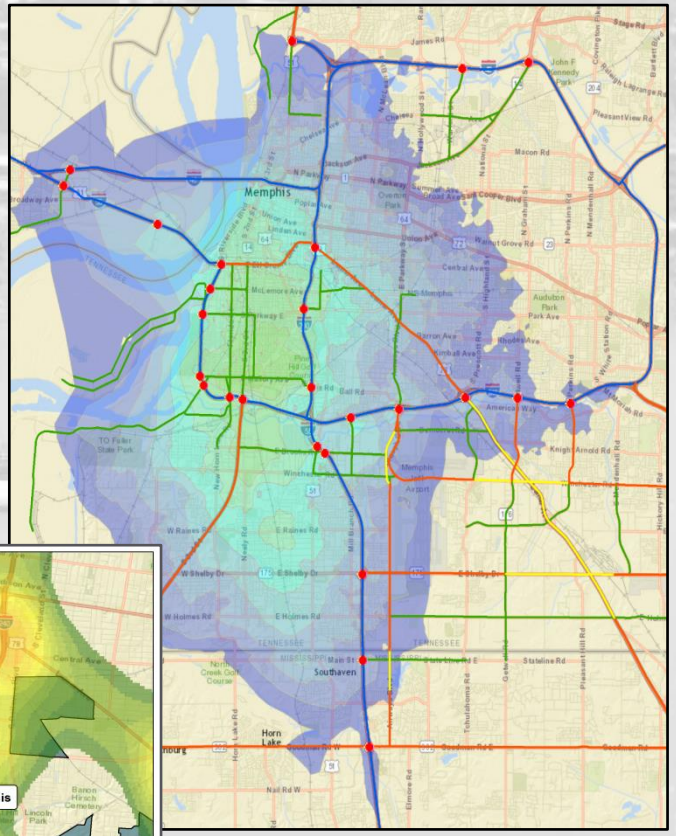
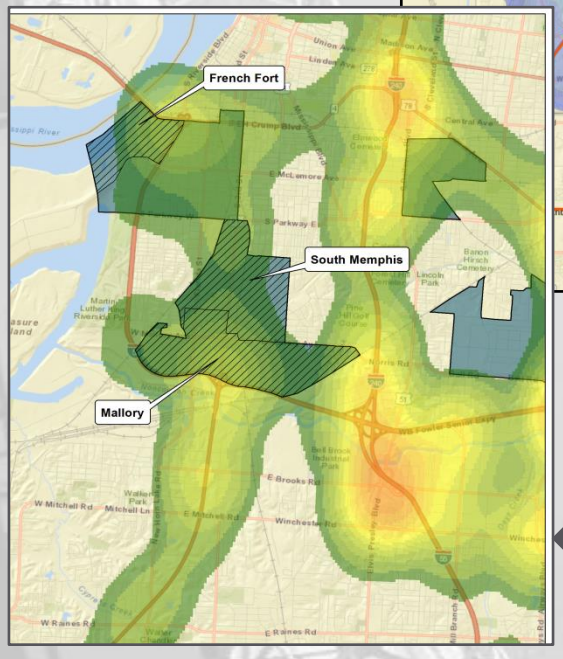
Industrial Use Factors – Site Characterization

- **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

Travel Time





Safety

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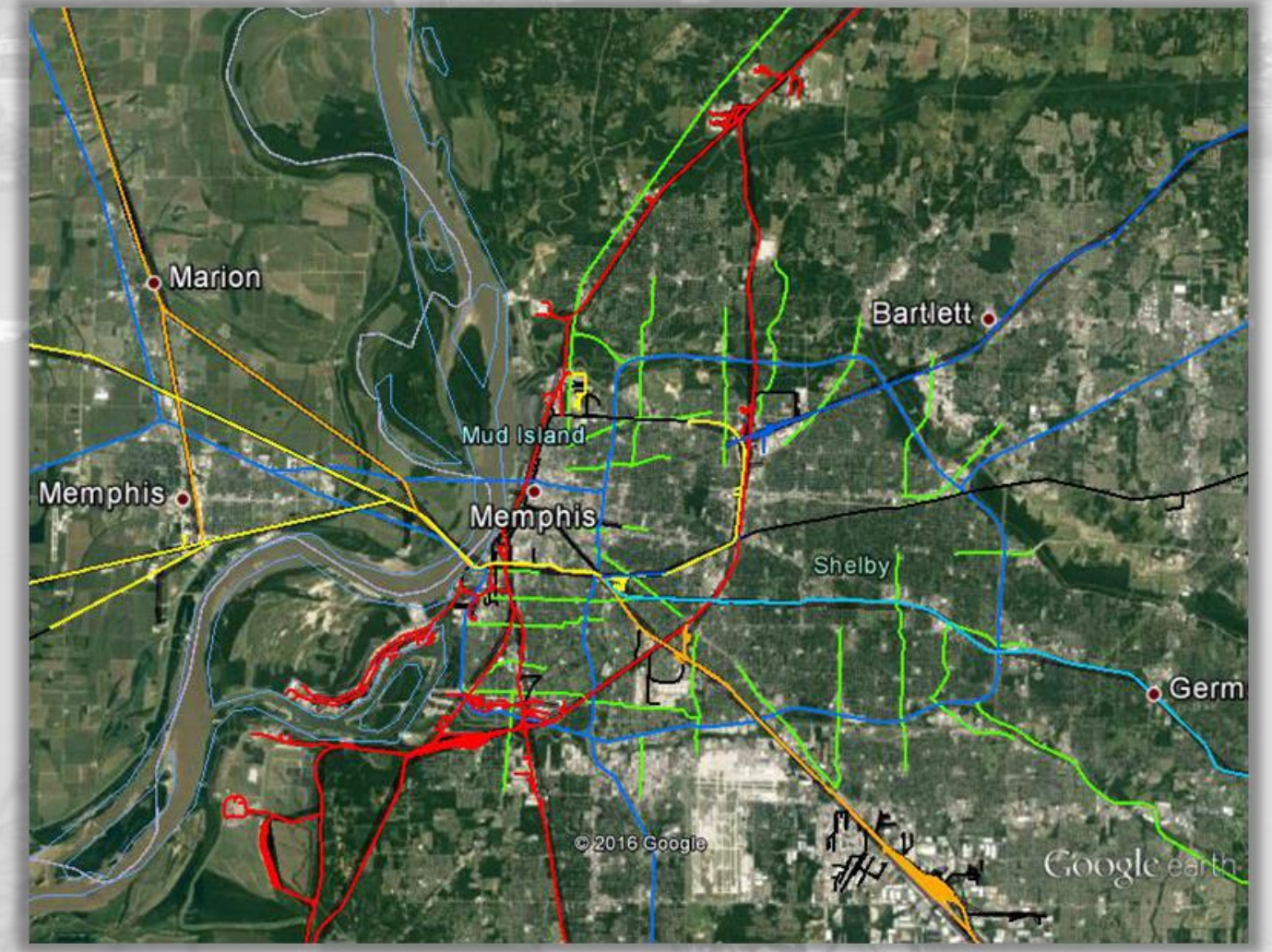
Transportation Network Connections

- Railroad networks



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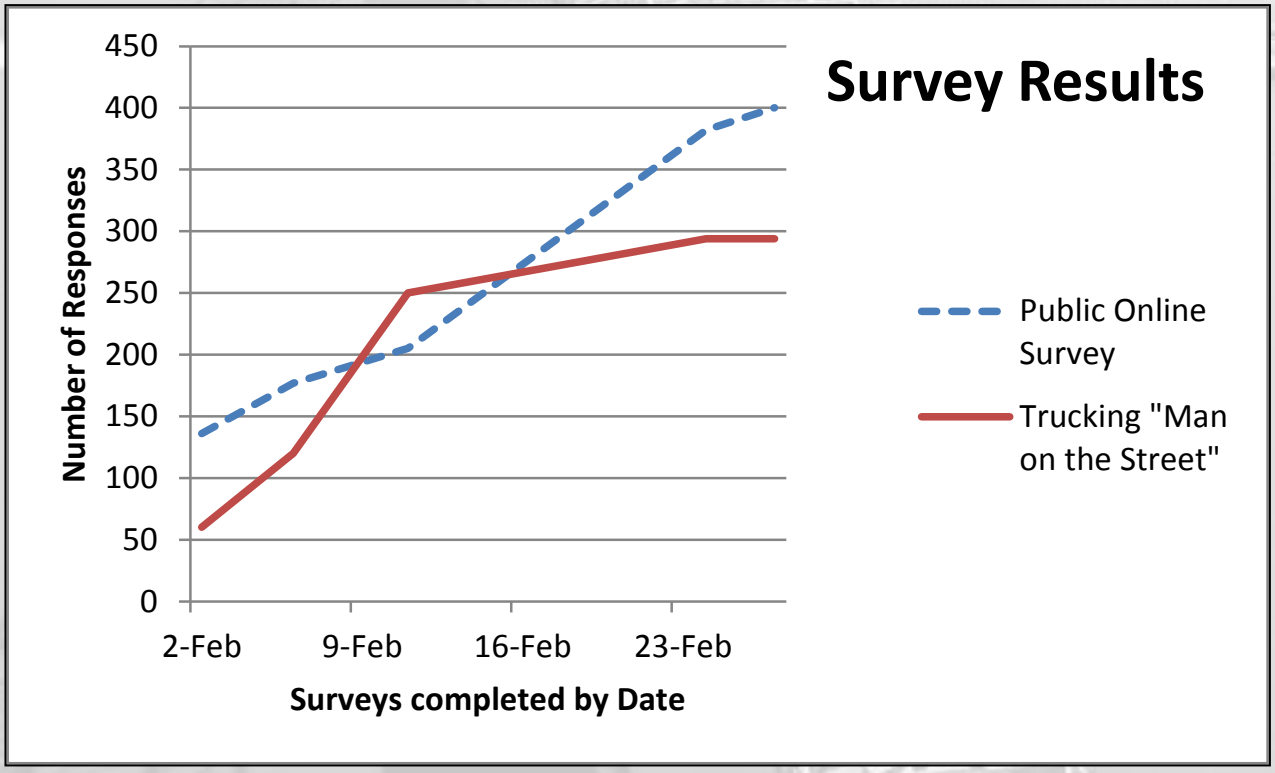
Freight Survey

- Released End of January 2017

- Truckers survey - “Man on the Street” - **294 responses**
- Public Online Survey – **400 responses**



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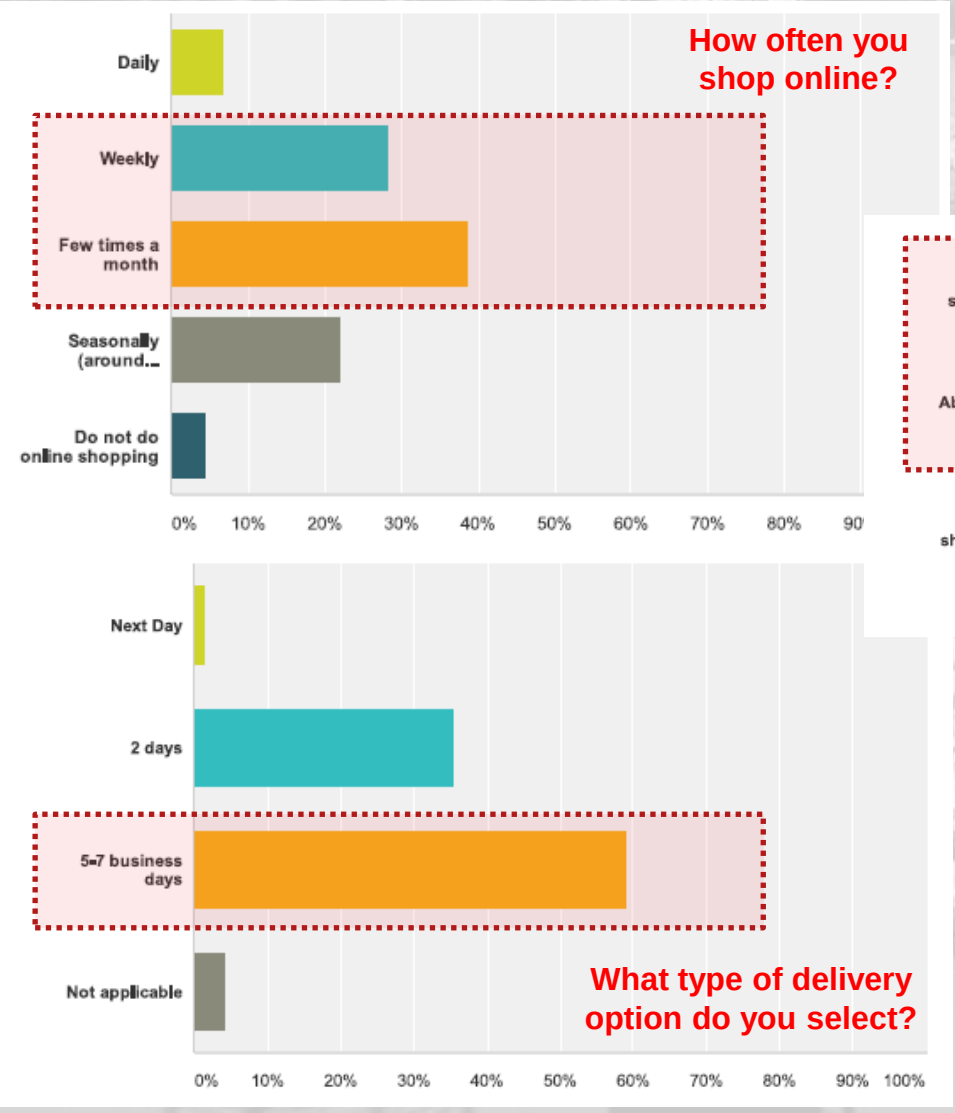
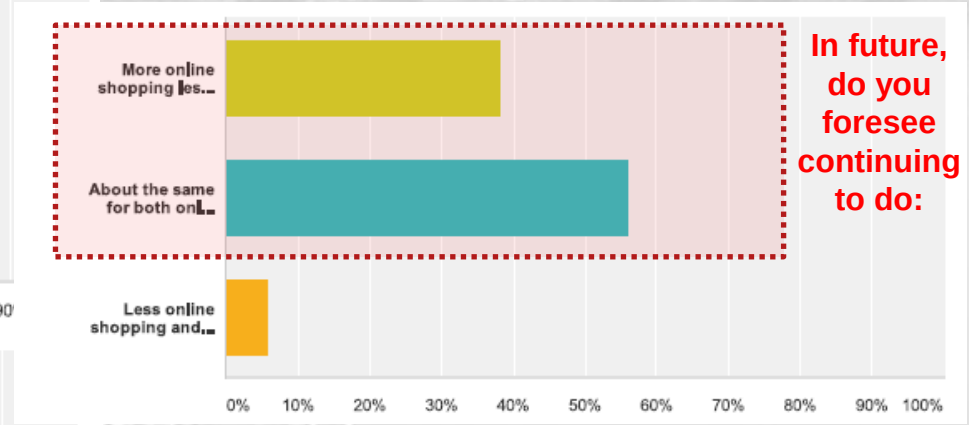
Public Survey Questions and Responses





91.5 % responded that freight is important for the local/ regional economy

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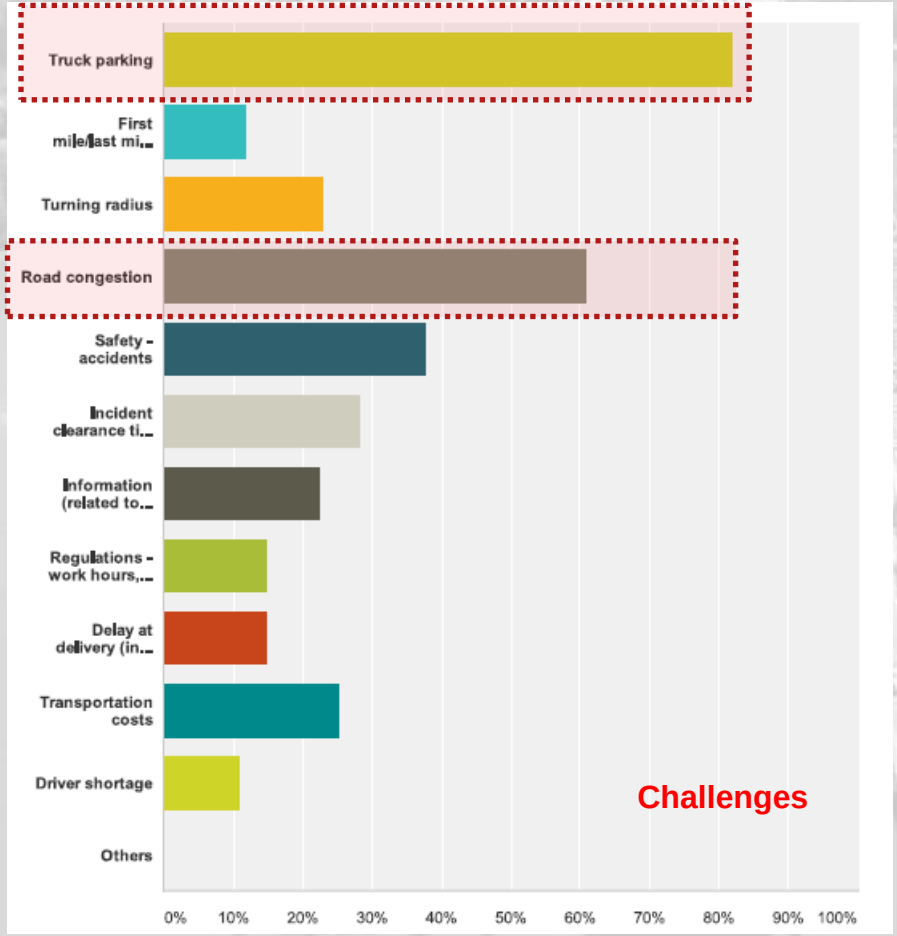
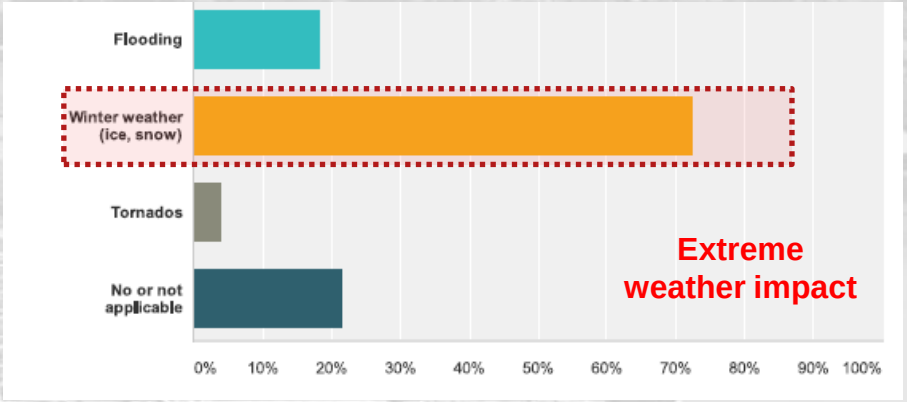
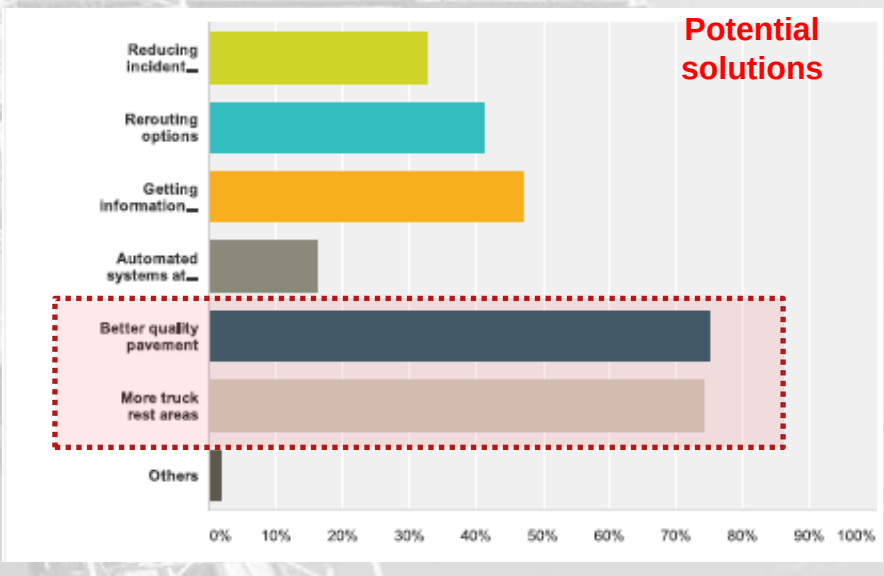
Truckers Survey Questions and Responses







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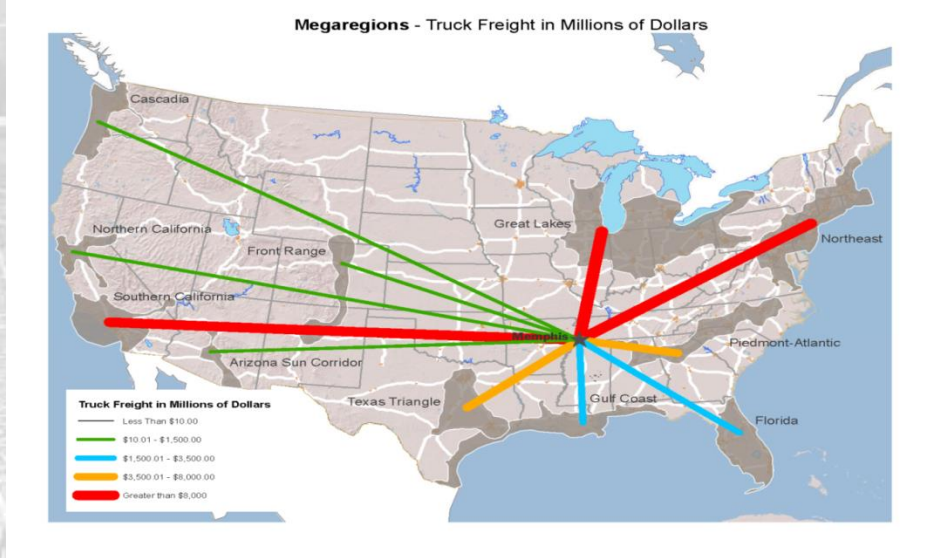

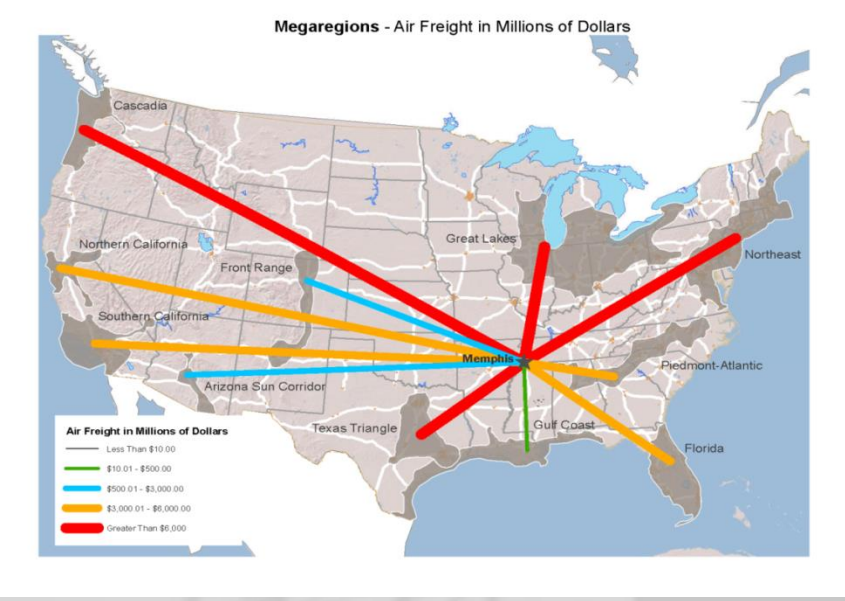

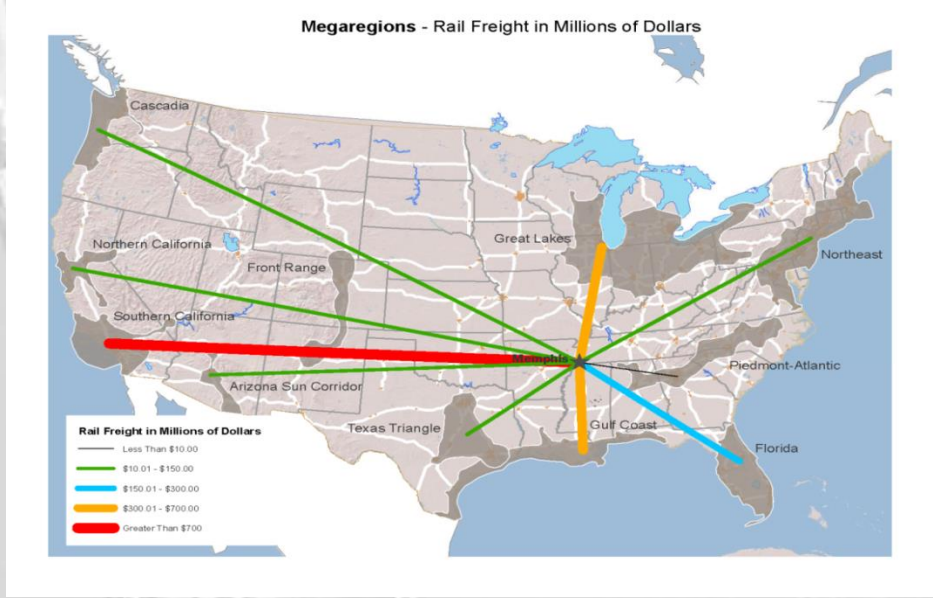

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Next Steps

- Collaborate on the Area, Zone and Region wide evaluations
- Public sector strategies
- Formulate Programs and Projects

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Contact Information

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