

Texarkana MPO Freight Mobility Plan (FMP)

Transportation Policy Board
January 21, 2020



Purpose of the FMP and Project Objectives

What is the purpose of the FMP?

- Identify freight transportation system deficiencies and needs
- Develop transportation investment scenarios and freight-related projects to address identified needs
- Improve the multimodal freight transportation system within the Texarkana MPO region to promote the safe and efficient movement of freight
- Support TX and AR statewide freight mobility plans

Coordination between FMP and MTP

- The Metropolitan Transportation Plan (MTP) is a blueprint for how the MPO will invest in its multimodal transportation system
- How are we incorporating freight-specific projects into the MTP?
 - Adding “early action” projects to the MTP project list
 - Indicating which MTP projects are expected to have a positive impact on freight
 - Ensuring project scoring criteria consider freight issues

Stakeholder Engagement

- **Federal Highway Administration – Texas Division**
- **Texas Department of Transportation**
- **Arkansas Department of Transportation**
- **Ark-Tex Council of Governments**
- **City of Texarkana, TX**
- **City of Texarkana, AR**
- **Cass County, TX**
- **Texarkana Aluminum, Inc.**
- **Texarkana, TX Fire Department – OEM**
- **Texarkana Chamber of Commerce**
- **Workforce Solutions Northeast Texas**
- **TexAmericas Center**
- **AR-TX REDI**
- **Bowie County, TX**
- **City of Nash, TX**
- **MOEMS Construction**



SWOT Analysis

Summary of Feedback – Major Findings

- Strengths
 - Trained and educated workforce
 - Location and connectivity to major metropolitan areas
 - Interstate system and railroads
 - Positive and supportive political environment



SWOT Analysis

Summary of Feedback – Major Findings

- Weaknesses
 - Lack of land availability and affordable housing
 - Small workforce
 - Insufficient capacity or poor design for roadways carrying local truck traffic
 - Lack of truck parking or pull-off areas
 - Poor wayfinding and lack of information communication systems

SWOT Analysis

Summary of Feedback – Major Findings

- Opportunities
 - Public-private partnership for workforce training and for providing truck parking/amenities
 - Growing e-commerce and warehouse/distribution industries
 - Expansion of airport and railyards
 - Available commercial land in active development

SWOT Analysis

Summary of Feedback – Major Findings

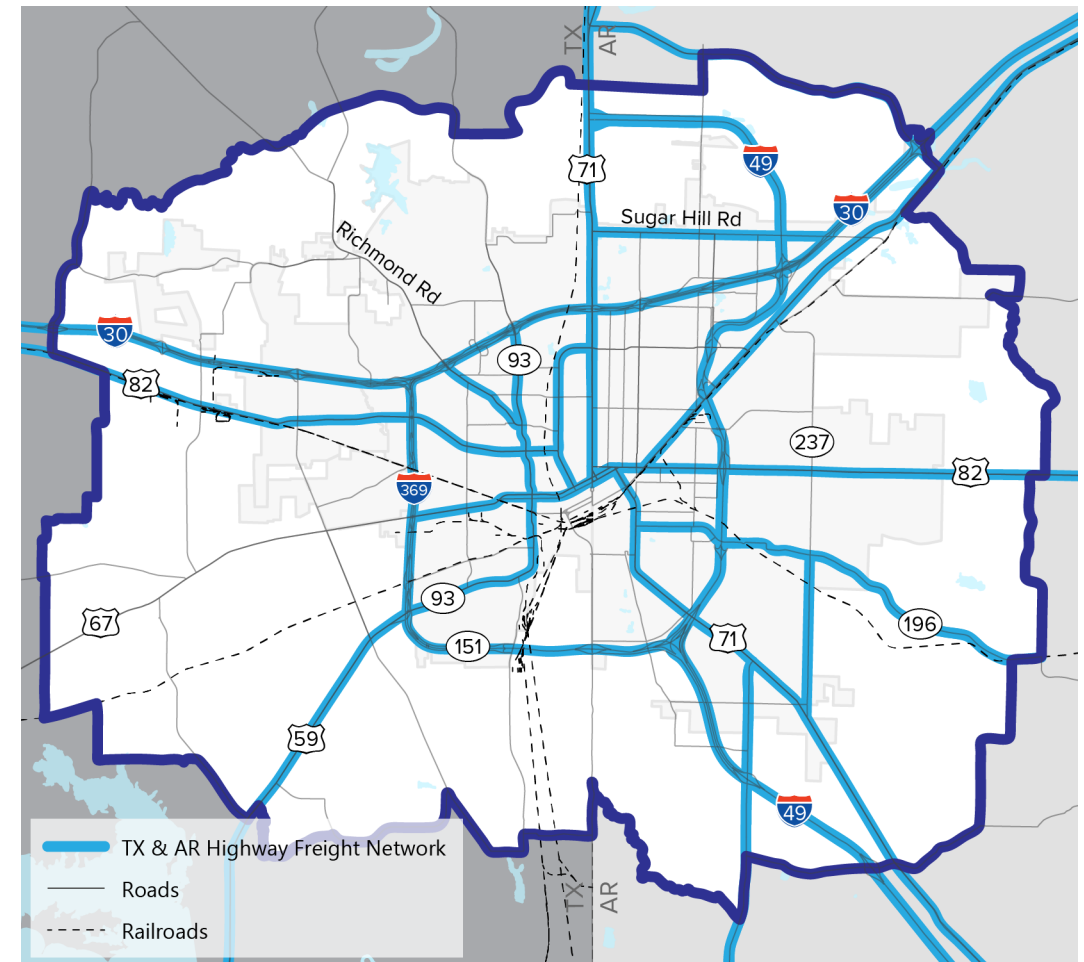
- Threats
 - Industry shift from traditional manufacturing and retail business
 - Economic competition from surrounding urban areas
 - Increased traffic and congestion
 - Few alternative routing options for major facilities
 - Lack of safety rest areas for explosives transport



Transportation System Analysis

Freight Assets

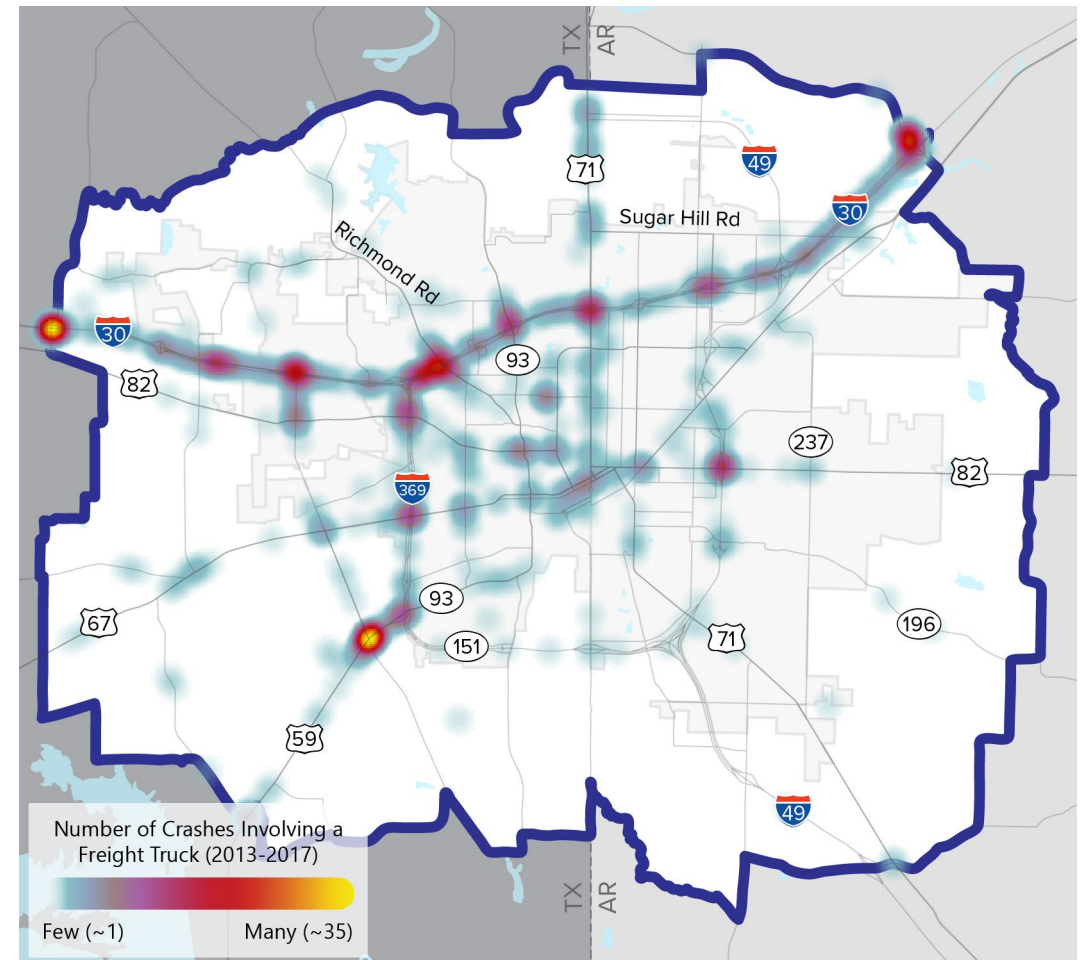
- Major freight infrastructure includes 3 interstates, 2 Class I railroads, and a short line railroad
- Roadway freight network includes US, TX, and AR networks and important access facilities



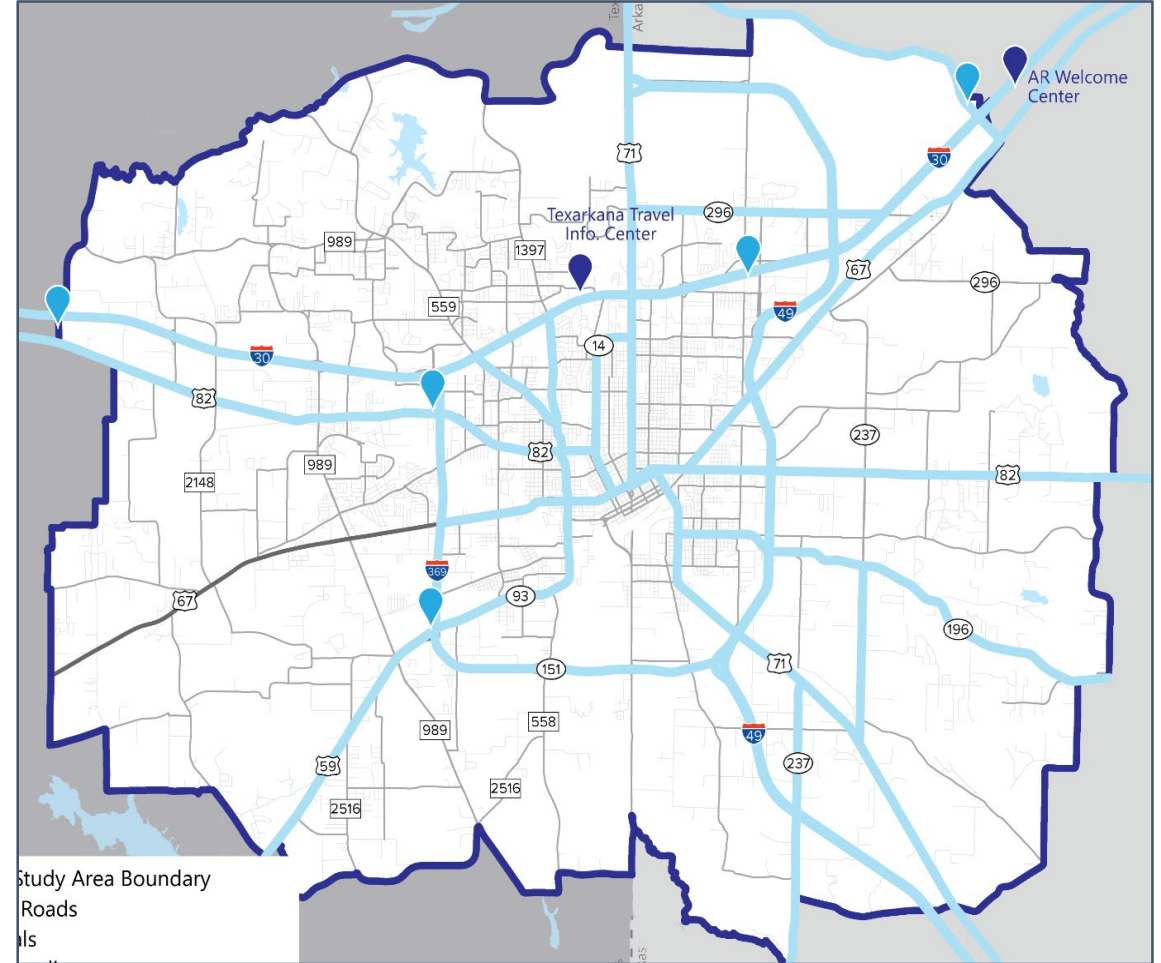
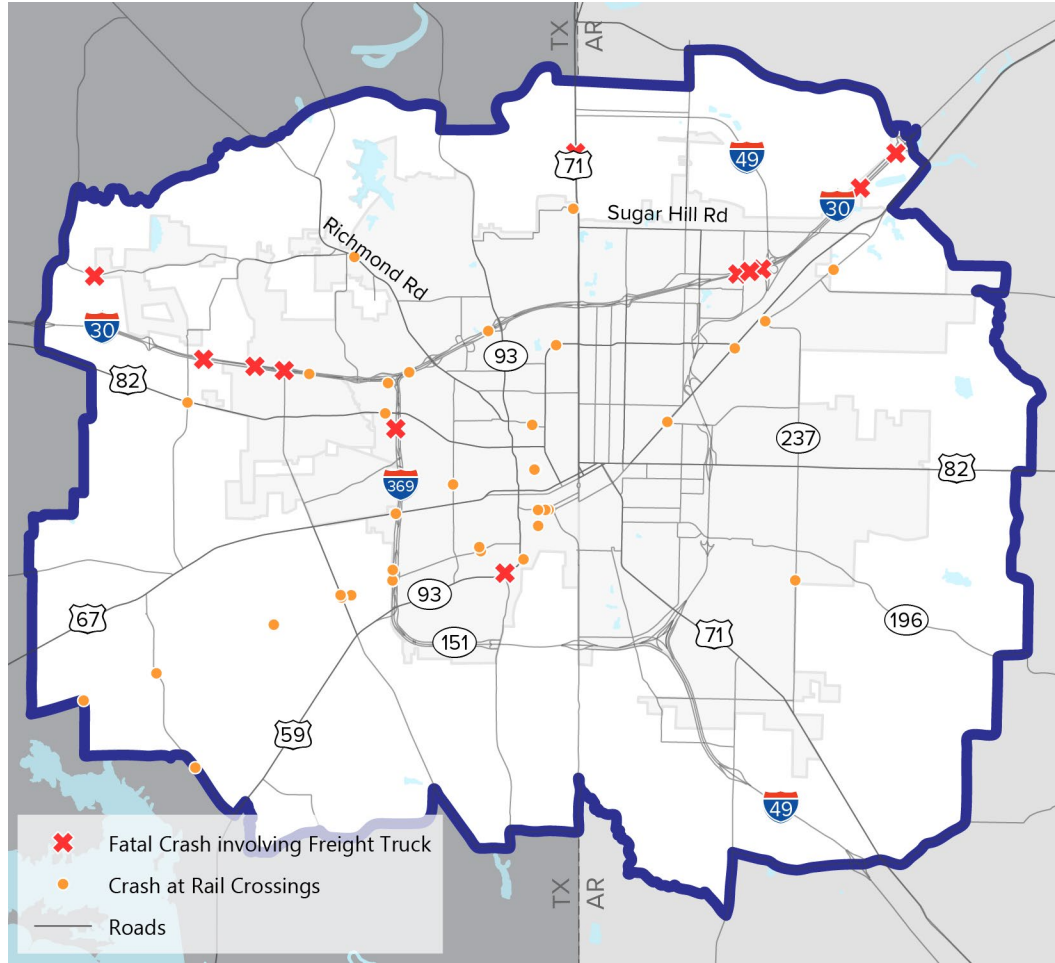
Transportation System Analysis

Safety

- Freight truck crashes
- Fatal crashes involving trucks
- Crashes involving rail
- Truck parking and safety rest areas



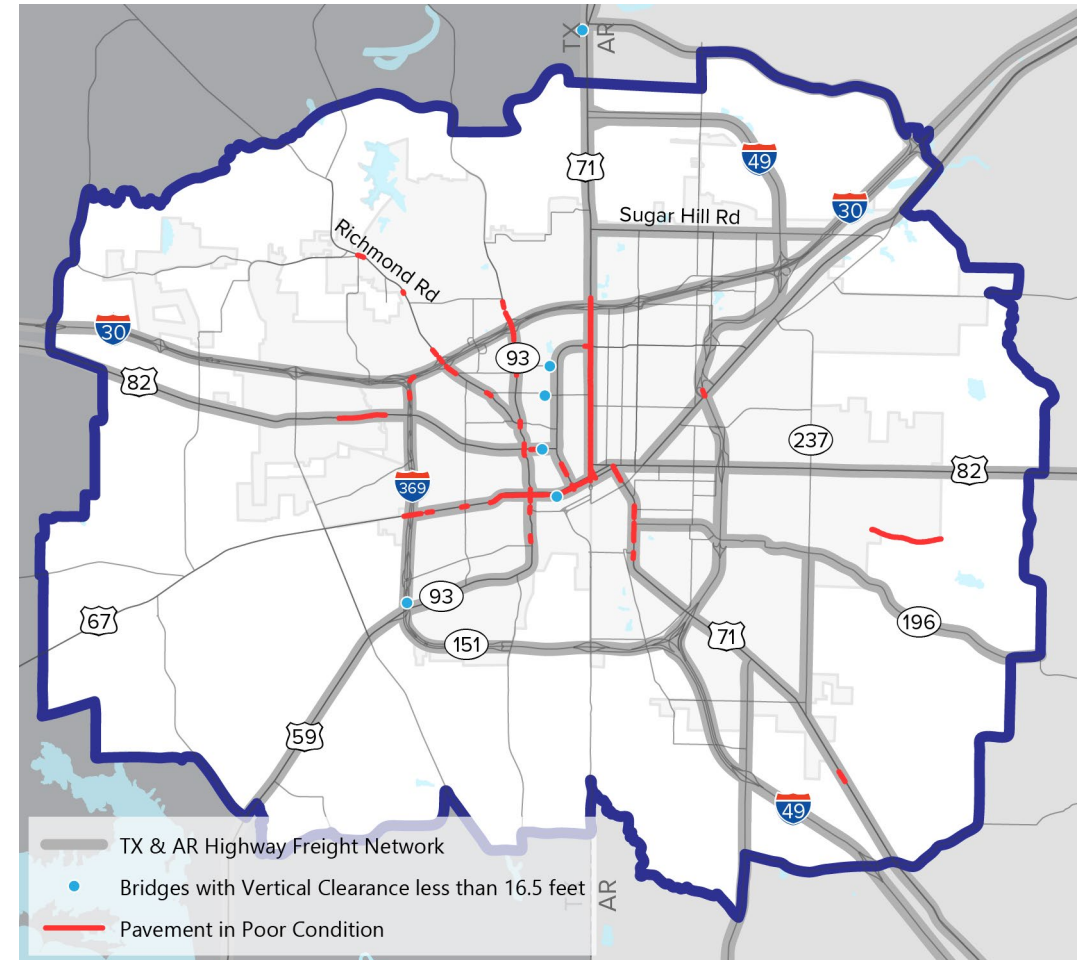
Transportation System Analysis



Transportation System Analysis

Infrastructure Condition

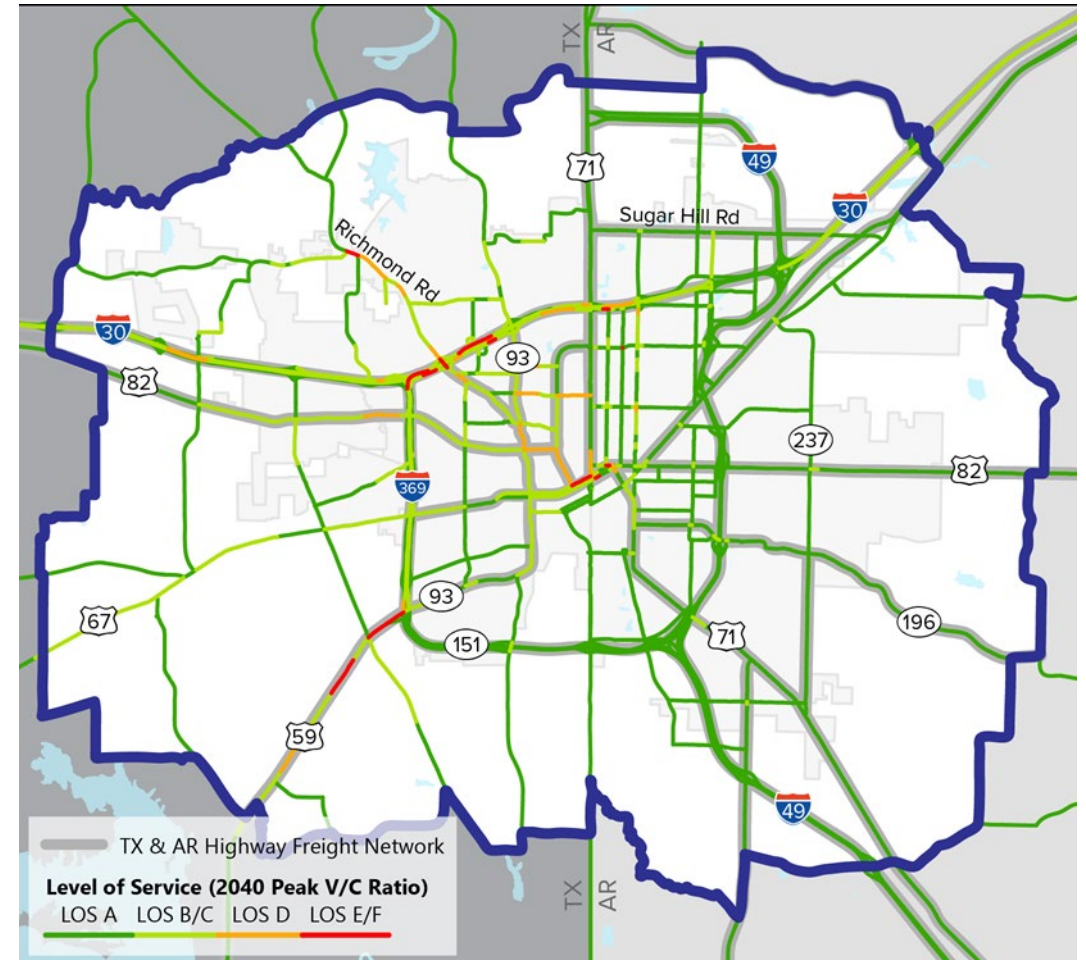
- Pavement
 - 13% of state designated freight network in poor condition (TX-15%)
- Bridge Condition
 - 83% in good condition (TX-82%)
- Bridge Height
 - 2 bridges on freight network 14.5 feet or less



Transportation System Analysis

Mobility and Reliability

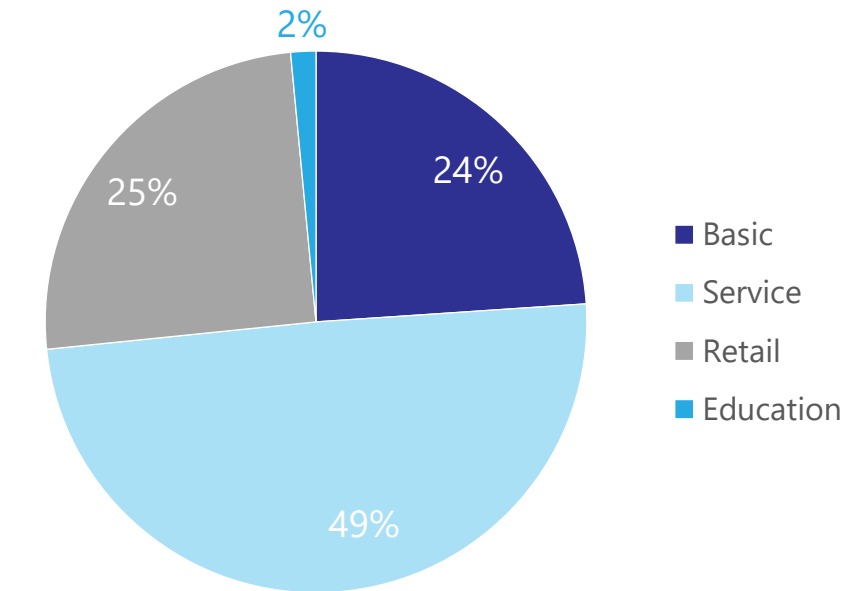
- Level of Service (LOS)
 - Entire freight network acceptable daily LOS
- Truck Travel Time Reliability Index
 - Texarkana MPO (2018) – 1.14
 - Texas Target (2018) – 1.54



Economic Growth and Initiatives

Current Economy and Freight Industry

- Service industry is largest sector in Texarkana region
- 59% of employment in freight-dependent industry, related to:
 - Retail
 - Transportation and warehousing
 - Agriculture and forestry
 - Manufacturing – fabricated metal and transportation equipment



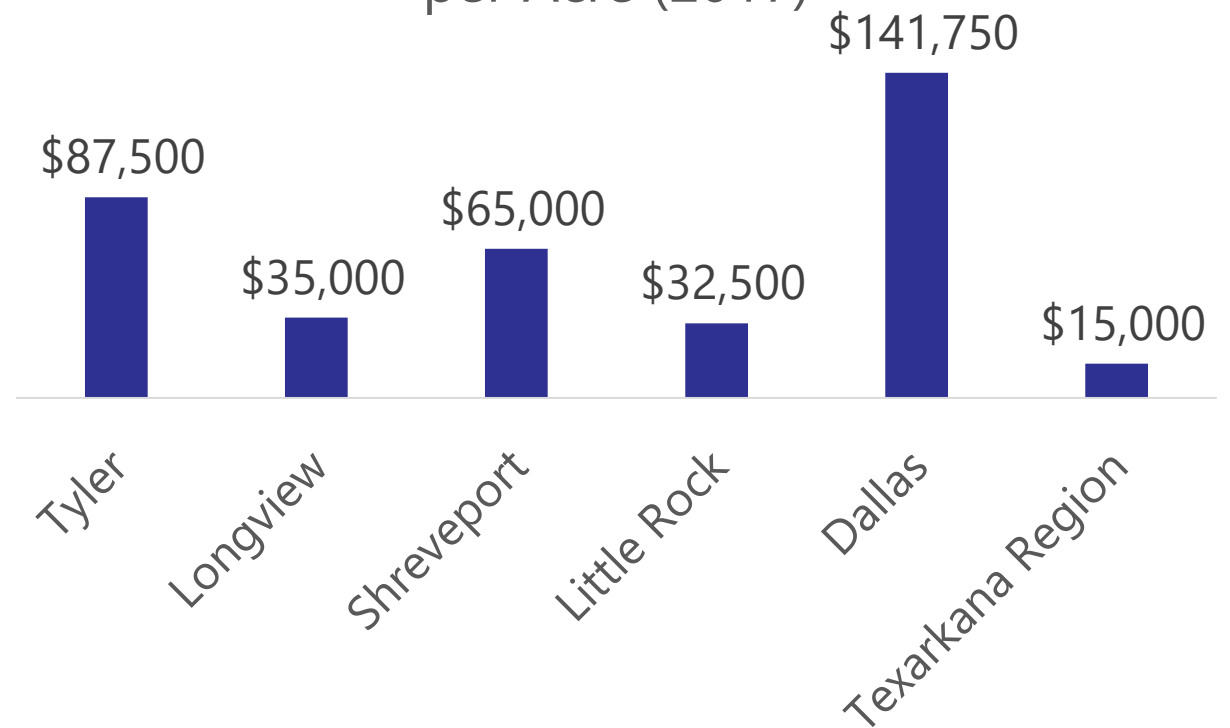
**Total Employment
(Bowie & Miller County) – 57,945**

Economic Growth and Initiatives

Opportunity

- Available industrial sites in Nash, TexAmericas Center, and near airport
- “Shovel-Ready” industrial land prices are competitive
- Good labor availability for unskilled/semi-skilled workers

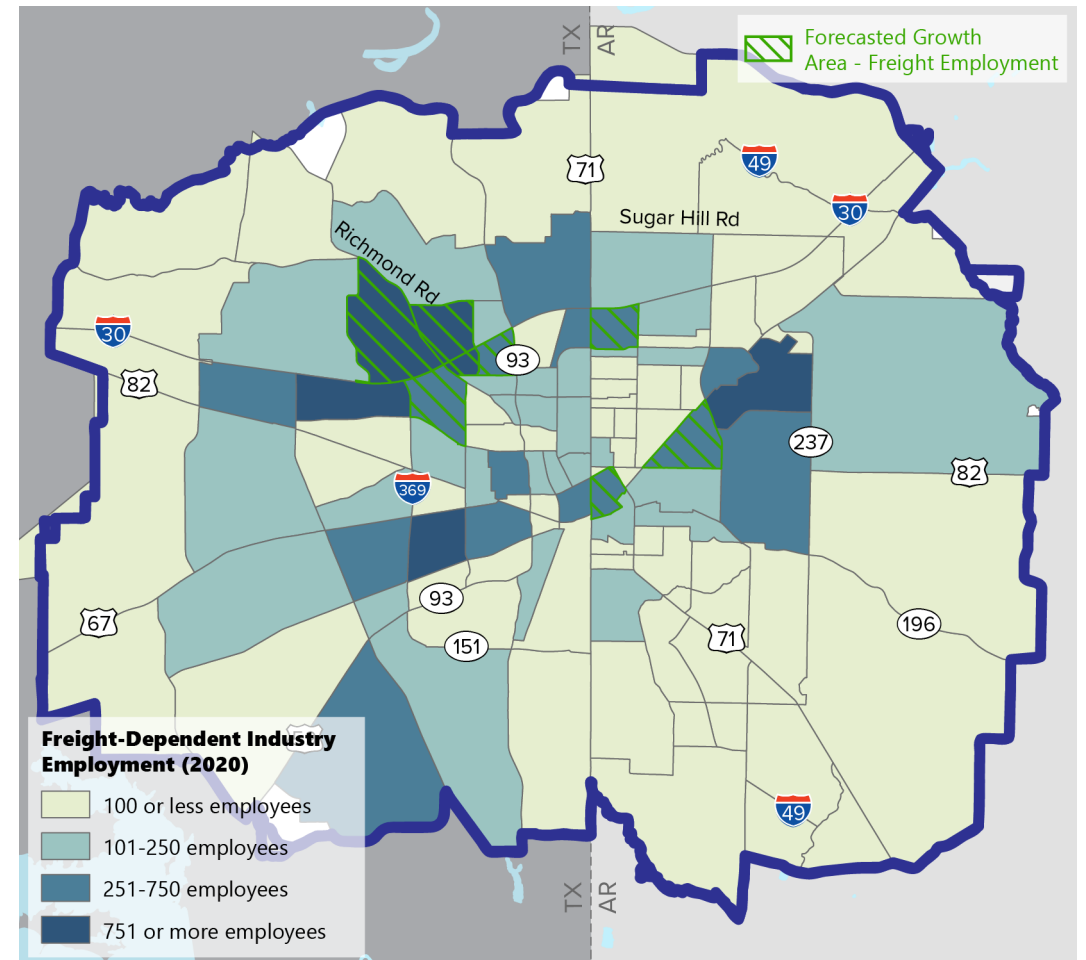
Shovel-Ready Industrial Land Prices per Acre (2017)



Economic Growth and Initiatives

Forecast

- Highest forecasted freight employment growth areas near airport and retail center along Richmond Rd.
- Expect growth in Nash related to aluminum manufacturing

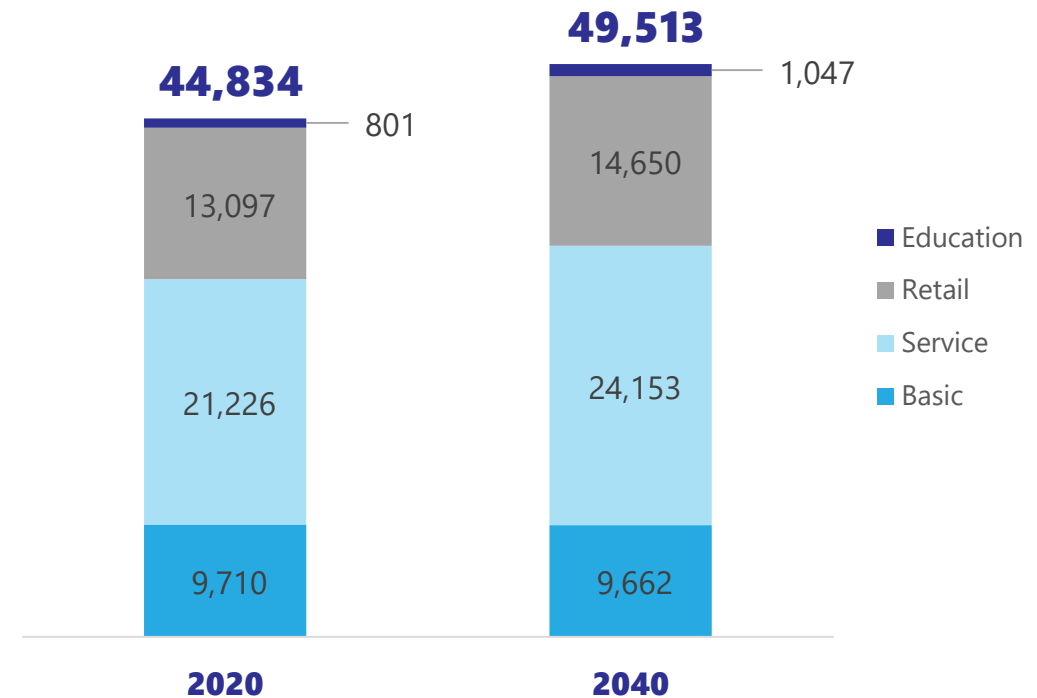


Economic Growth and Initiatives

Forecast

- Employment growth rate (2020-2040) in MPO
 - Total: 0.5%
 - Freight-dependent industry: 0.3%
- Using annual employment growth rate of 1.5% would increase employment to about 60,000

Employment Growth by Type – Texarkana MPO



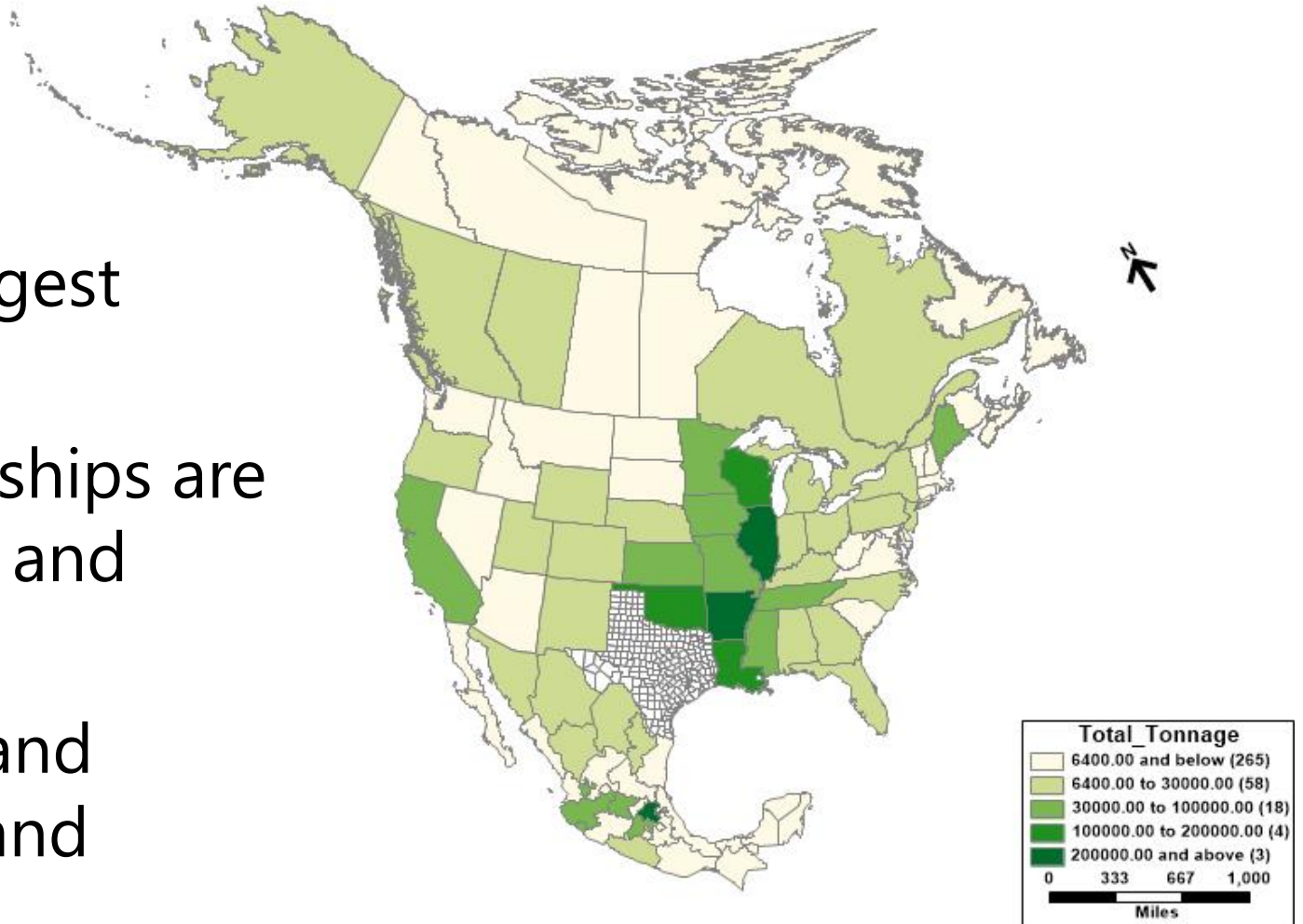
Commodity Flow Forecast

Cargo Shipments; 2020-2040; TX and AR Travel Demand Models

	2020 Cargo Tonnage	2040 Cargo Tonnage	% Change
Agriculture	146,335	184,294	26%
Oil and Gas / Other Mining	117,760	134,249	14%
Nonmetallic Minerals	1,775,730	3,064,920	73%
Food	296,767	282,132	-5%
Consumer Manufacturing	4,646	4,415	-5%
Non-Durable Manufacturing	26,273	23,604	-10%
Lumber	148,217	134,882	-9%
Durable manufacturing	121,846	110,833	-9%
Paper	309,927	277,927	-10%
Chemicals	495,396	444,168	-10%
Petroleum	37,720	30,176	-20%
Clay, concrete, glass	420,654	381,667	-9%
Primary Metal product	19,850	17,905	-10%
Secondary and Misc.	488,134	475,707	-3%
Total	4,409,255	5,566,879	26%

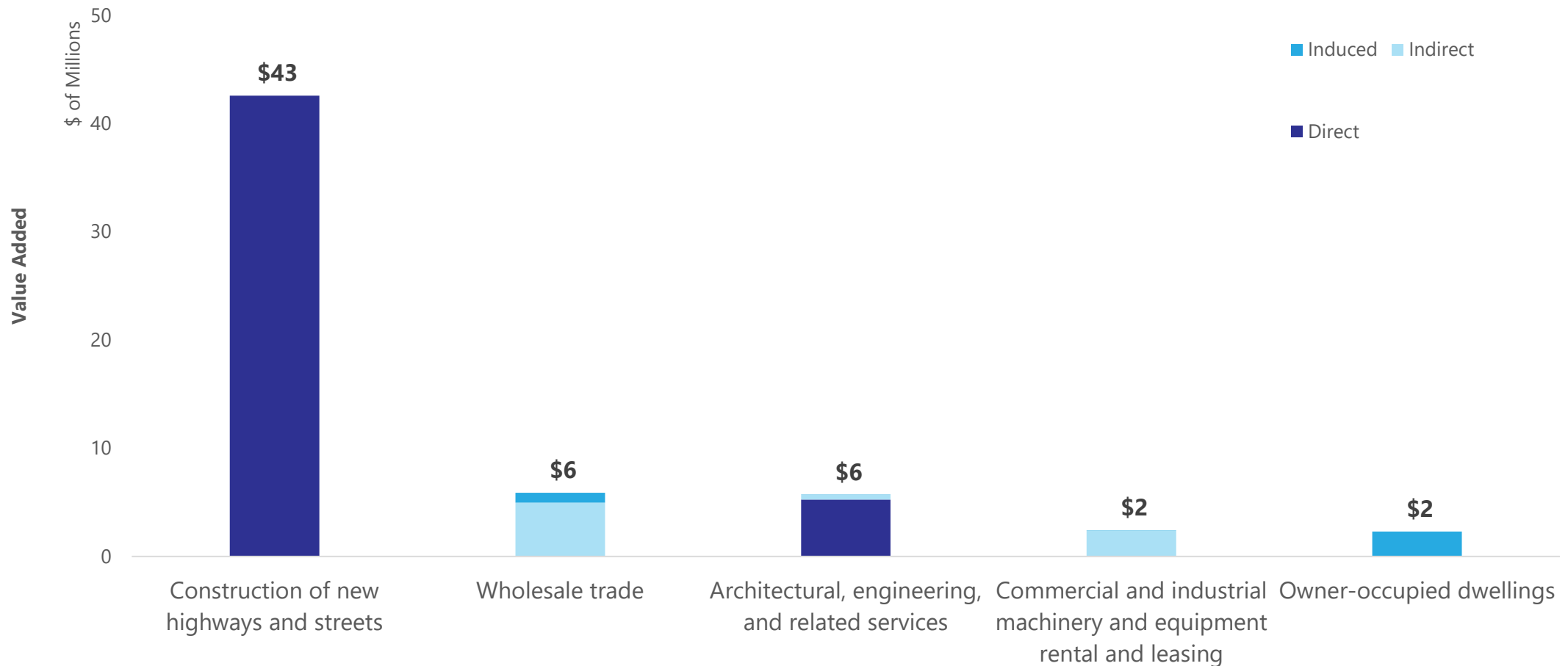
Trading Partners

- Texas is the region's largest trading partner
- Strongest trade relationships are with surrounding states and Midwest
- Trade with most states and several Mexican states and Canadian Provinces



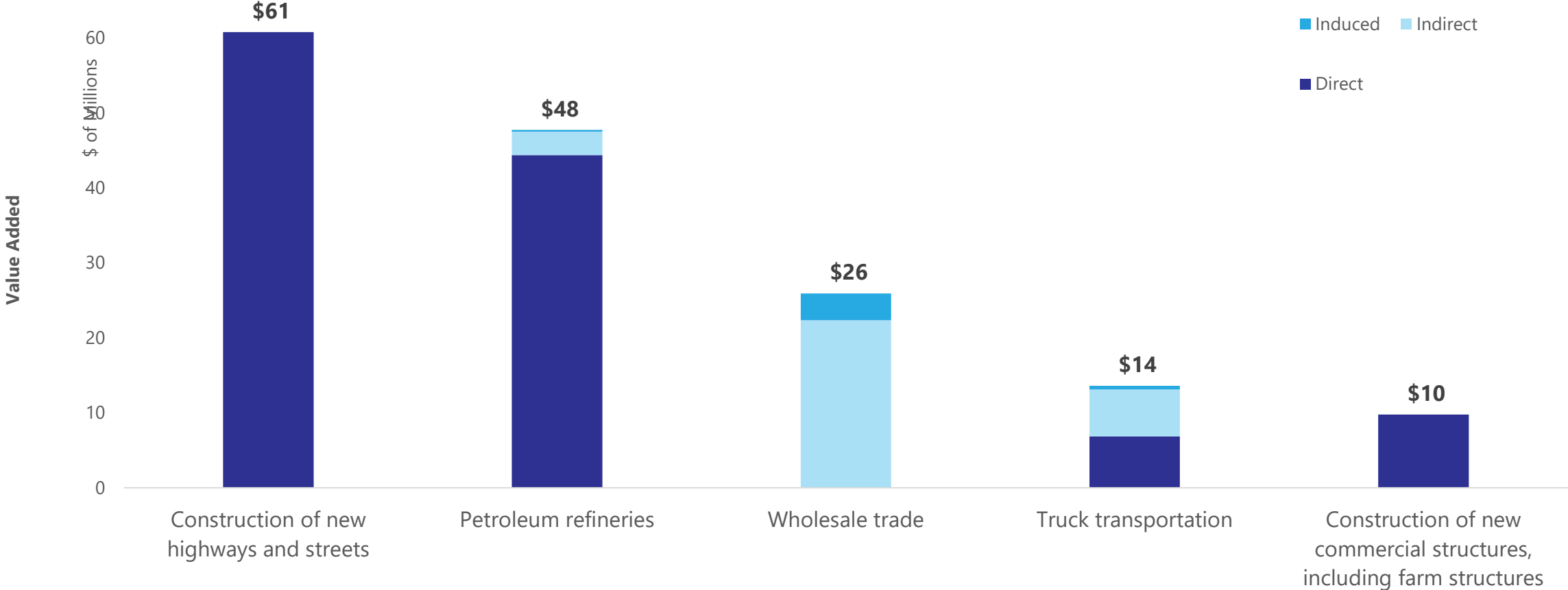
Freight System Performance Scenario

Top 5 Value Added Industry Sectors; Freight Transportation System Performance Investment Scenario; IMPLAN



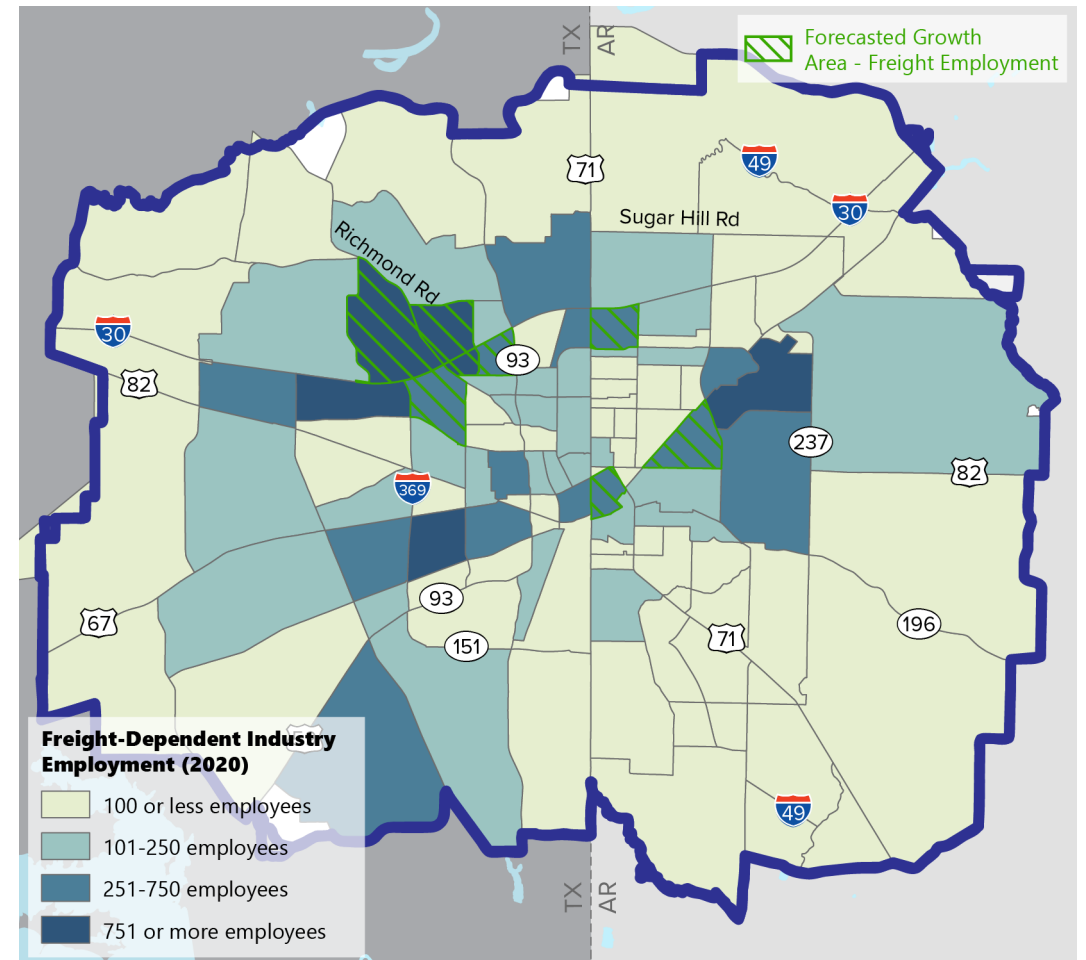
Strategic Economic Growth Investment Scenario

Top 5 Value Added Industry Sectors; Strategic Economic Growth Investment Scenario; IMPLAN



Proposed Action Plan

- Plan Adoption
- Freight Advisory Committee
- Coordination with Regional Planning Partners
- Promote Public Private Partnership
- Delivery of Funded Freight Projects
- Advance Action Plan Project List





Questions?



Thank You!

