



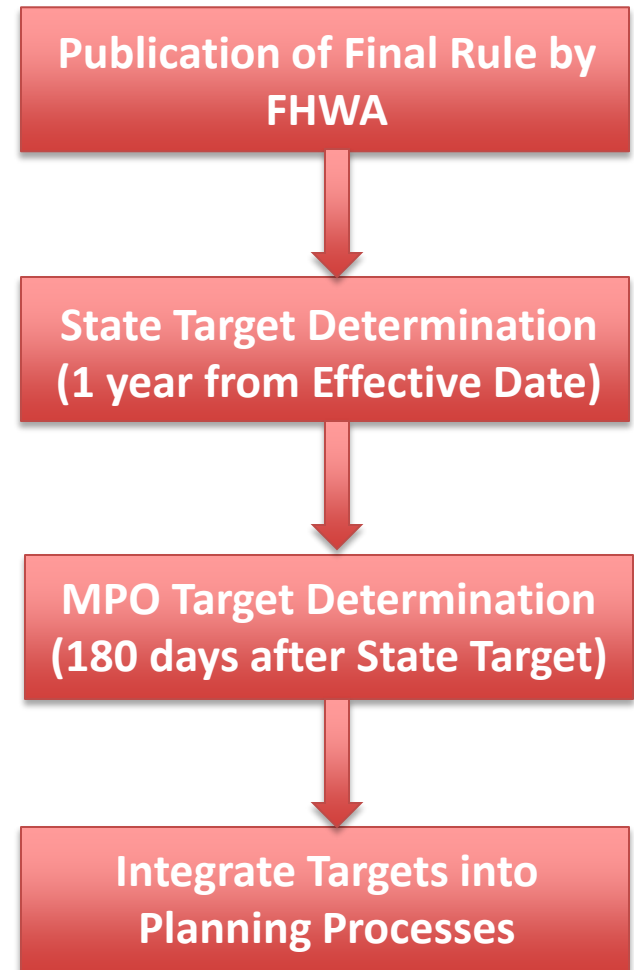
MIAMI VALLEY
Regional Planning Commission

Miami Valley Regional Freight Profile

April / May 2017

Purpose

- **Provide a Regional Snapshot of freight industry trends**
- **Develop existing freight transportation system inventory profile**
- **Analyze freight movement in the Region using new capacity, performance and usage data**
- **FAST Act & MAP-21 Provisions - Emphasis on Performance-Based Freight Planning**

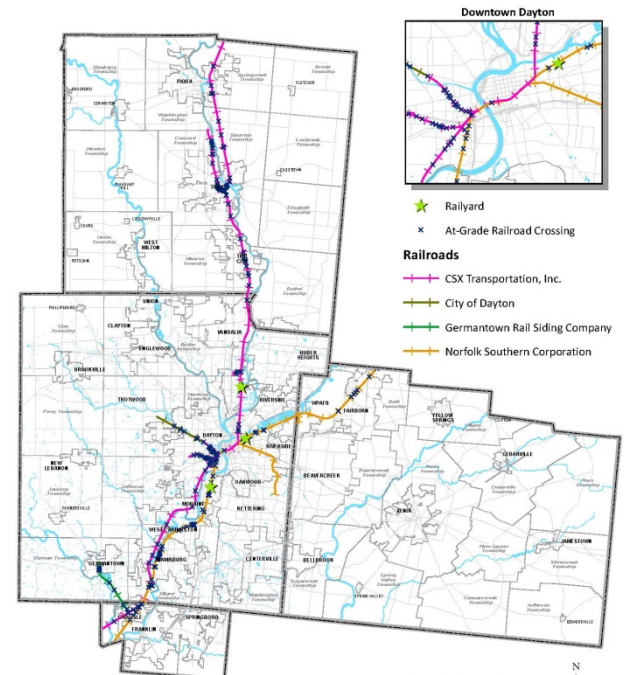
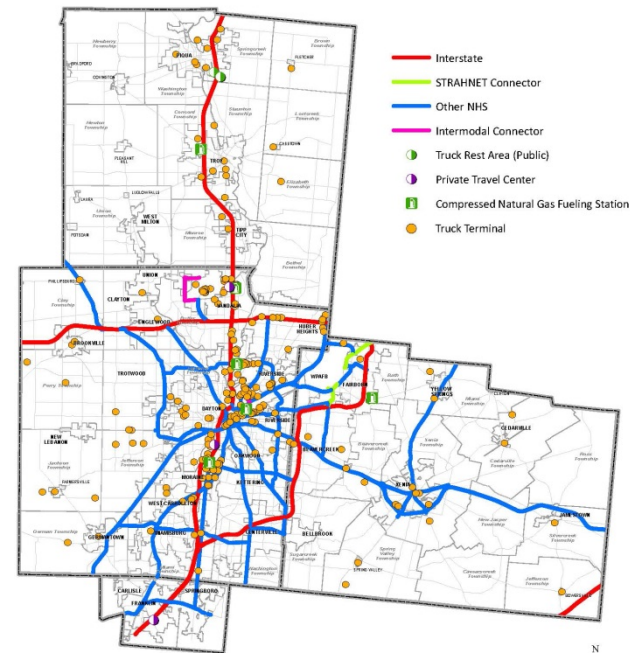


Overview

- **Regional Freight Transportation Infrastructure**
- **Economic Trends**
- **Freight Flows**
- **Road Network Reliability**
- **Safety**
- **Future Trends and Innovations**

Freight Infrastructure

- Four modes and Intermodal Connections
 - NHS + Ancillary Facilities
 - Railroads
 - Air Cargo
 - Pipelines
 - Intermodal Connections



Economic Trends

- **Employment Projections: 2010-2050**
- **Nearly 30% of the Region's economy is employed in "freight-intensive" industries**
- **Transportation and warehousing sector estimated to grow by over 60% by 2050**
- **MVRPC supported regional investments**

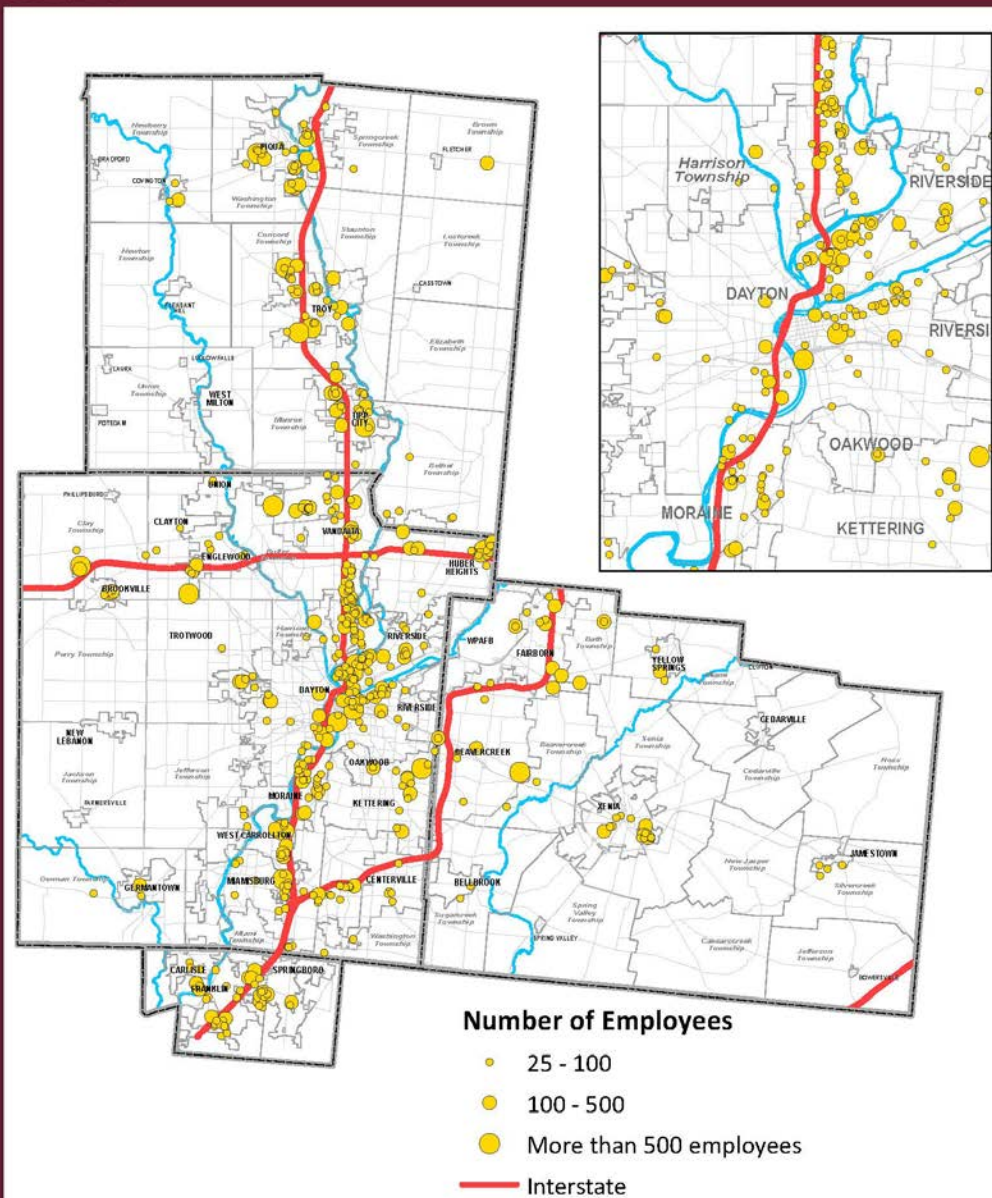


Economic Trends contd.

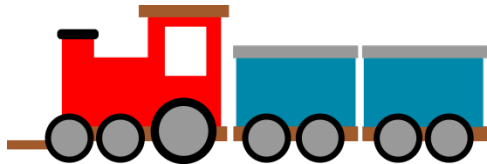
- Freight Generation Characteristics by Industry
- Identification of Freight Dependent Businesses
- Importance of Manufacturing and Logistics to Ohio's and the Region's Economy



Freight Dependent Businesses in the Miami Valley



Freight Flows

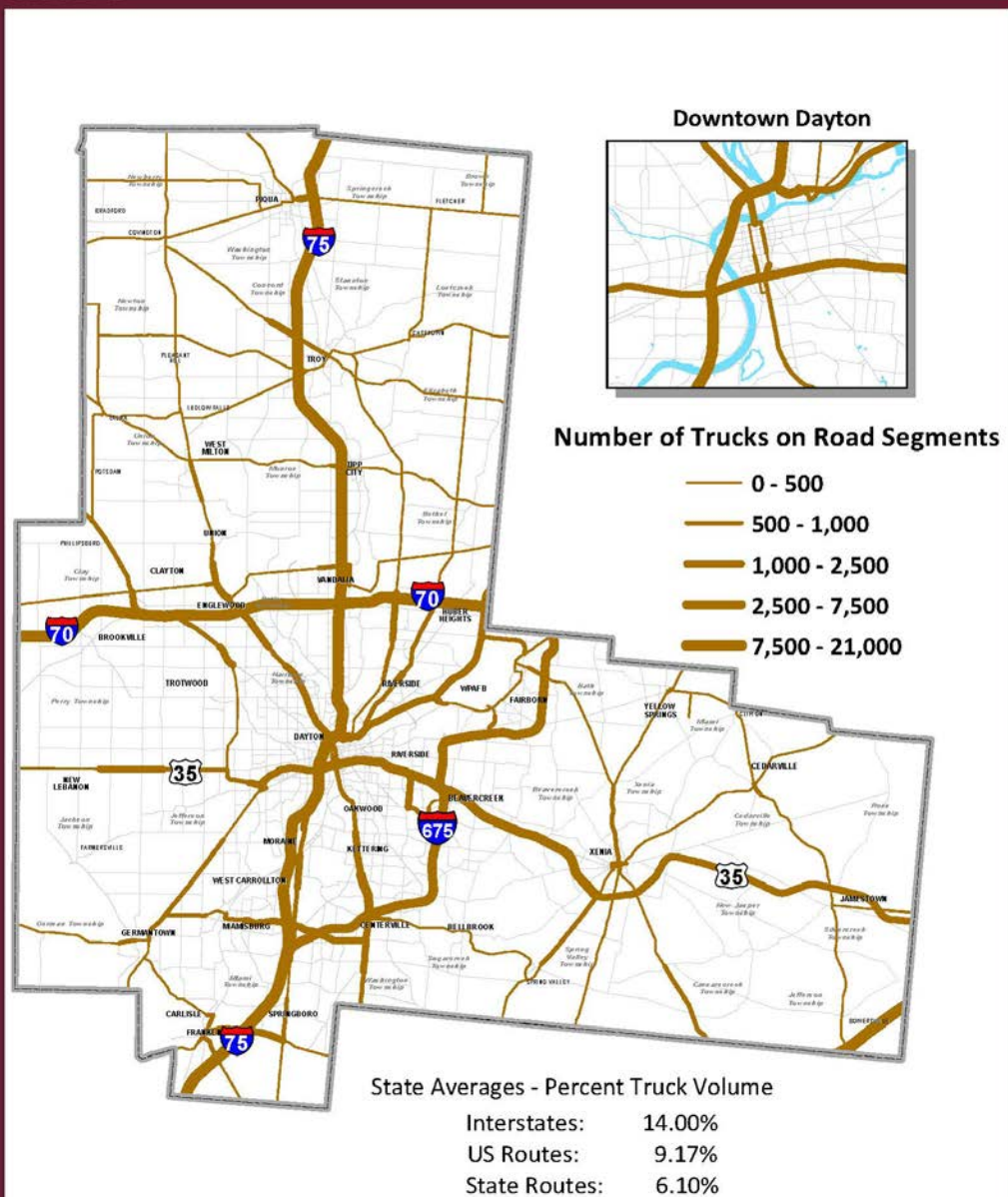


Tons (Thousands)			Value (Millions)		
2009	2040	% Change	2009	2040	% Change
142,962	288,986	102.1%	\$222,488	\$635,667	185.7%
2,824	3,912	38.5%	\$1,409	\$1,743	23.7%
7	15	114.3%	\$511	\$1,213	137.4%

Mode Splits

Commodity Mix

Trading Partners



Truck Flows

- **High Volume Truck Corridors**
 - I-70 through Montgomery County
 - I-75 through Miami, Montgomery and Warren County
 - I-71 through Greene County
 - US 35 in Greene County

Reliability

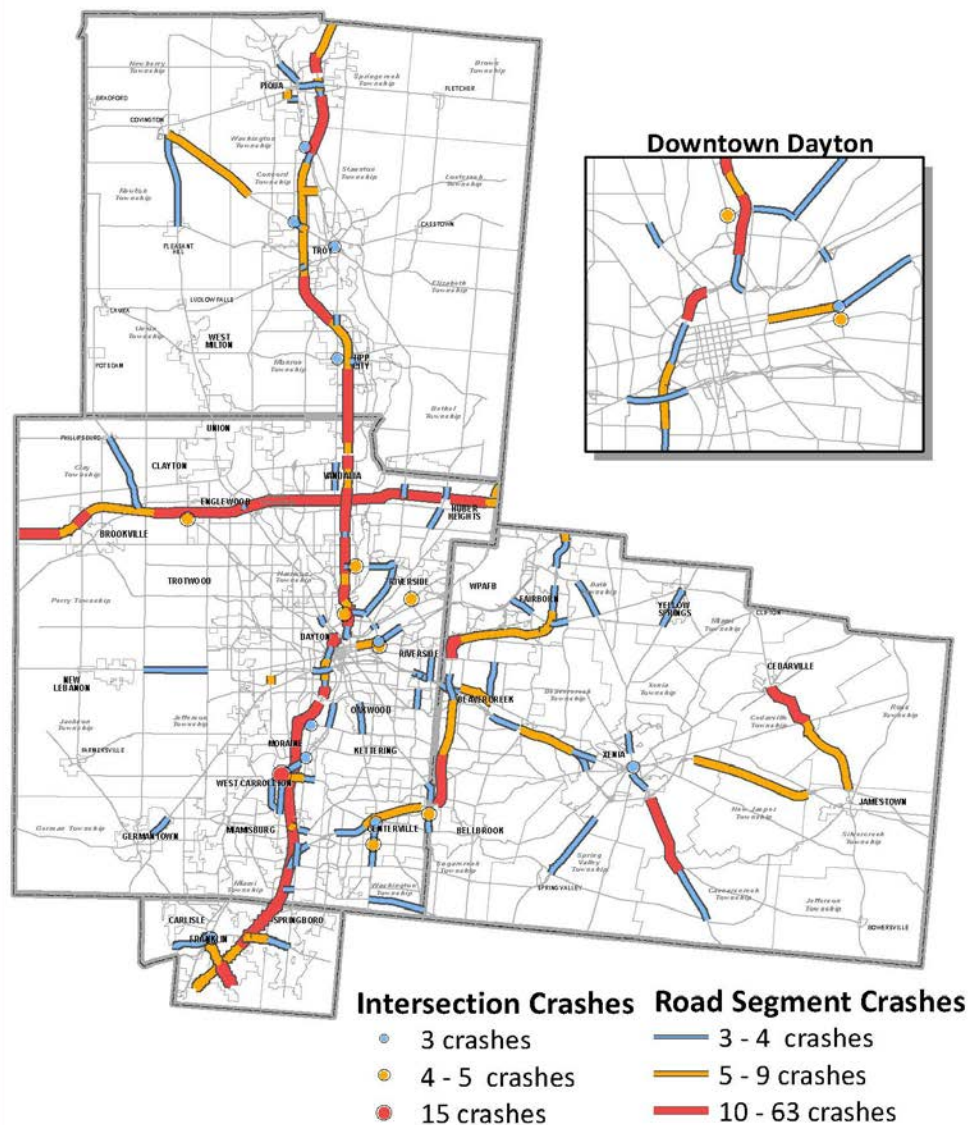
- **Nationally, trucks represent 18% of the urban “congestion invoice”, but only 7% of urban travel**
- **INRIX data used to plot a map to determine regional road network reliability using travel time index values**
- **Overlapped this map with high volume truck corridors to identify major freight congestion bottlenecks in the Region**
 - **NB I-75, between US 35 and S. Dixie**
 - **NB I-75 at Needmore & SR 725, and**
 - **Keowee Street, between US 35 and SR 4**

Safety

- Analyzed truck-related crashes and crashes at railroad crossings
- Truck- Related Crashes:
 - Comprise 5.4% of the total analyzed crashes
 - Resulted in approximately 1% (21) fatal crashes and 2.4% (56) serious injury crashes
 - Were Sideswipe-Passing or Rear-End Crashes in nearly 50% of cases
 - Resulted in 52% of fatal crashes involving alcohol



Safety (contd.)



- **High Volume Truck Crashes Intersections and Segments:**
 - Intersection of Alex Rd and E. Dixie Dr in West Carrollton
 - I-75 in Miami County, east and south of Piqua
 - I-70 in Butler Township

Future Trends

- **Innovative Applications**
- **Emerging Technologies**
- **Trained Workforce Availability / Driver Shortage**
- **Role of MPOs**



Questions and More Information

- **Website Link**

<http://www.mvrpc.org/transportation/long-range-planning-lrtp/regional-freight>

- **Contacts**

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