

# Intermodal Freight Technology Working Group



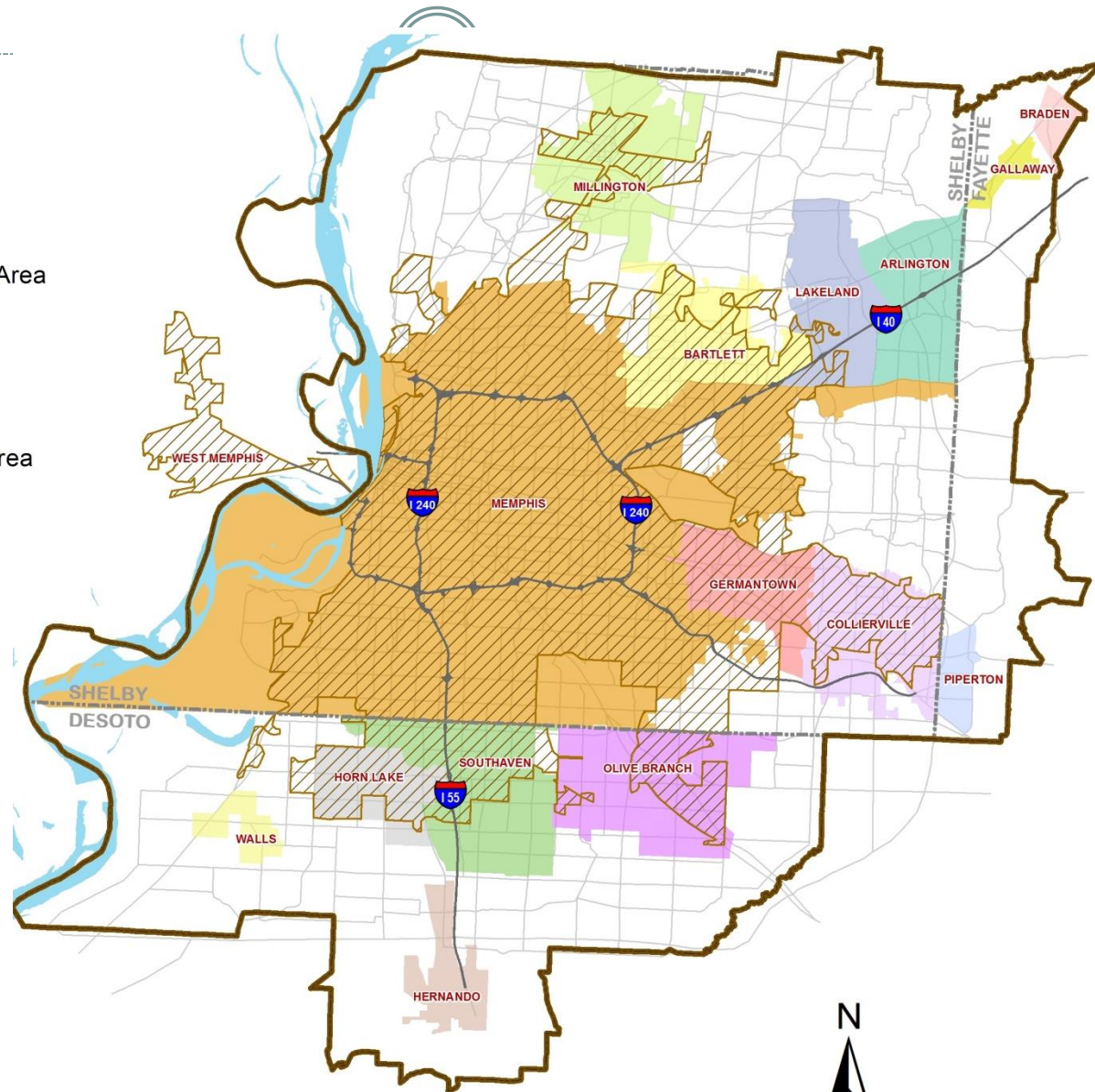
FEDEX INSTITUTE OF TECHNOLOGY

JULY 27, 2010

# About Memphis MPO

## Legend

-  Memphis MPO Study Area
-  Shelby County
-  Mississippi River
-  Highway
-  Memphis Urbanized Area
-  Roads

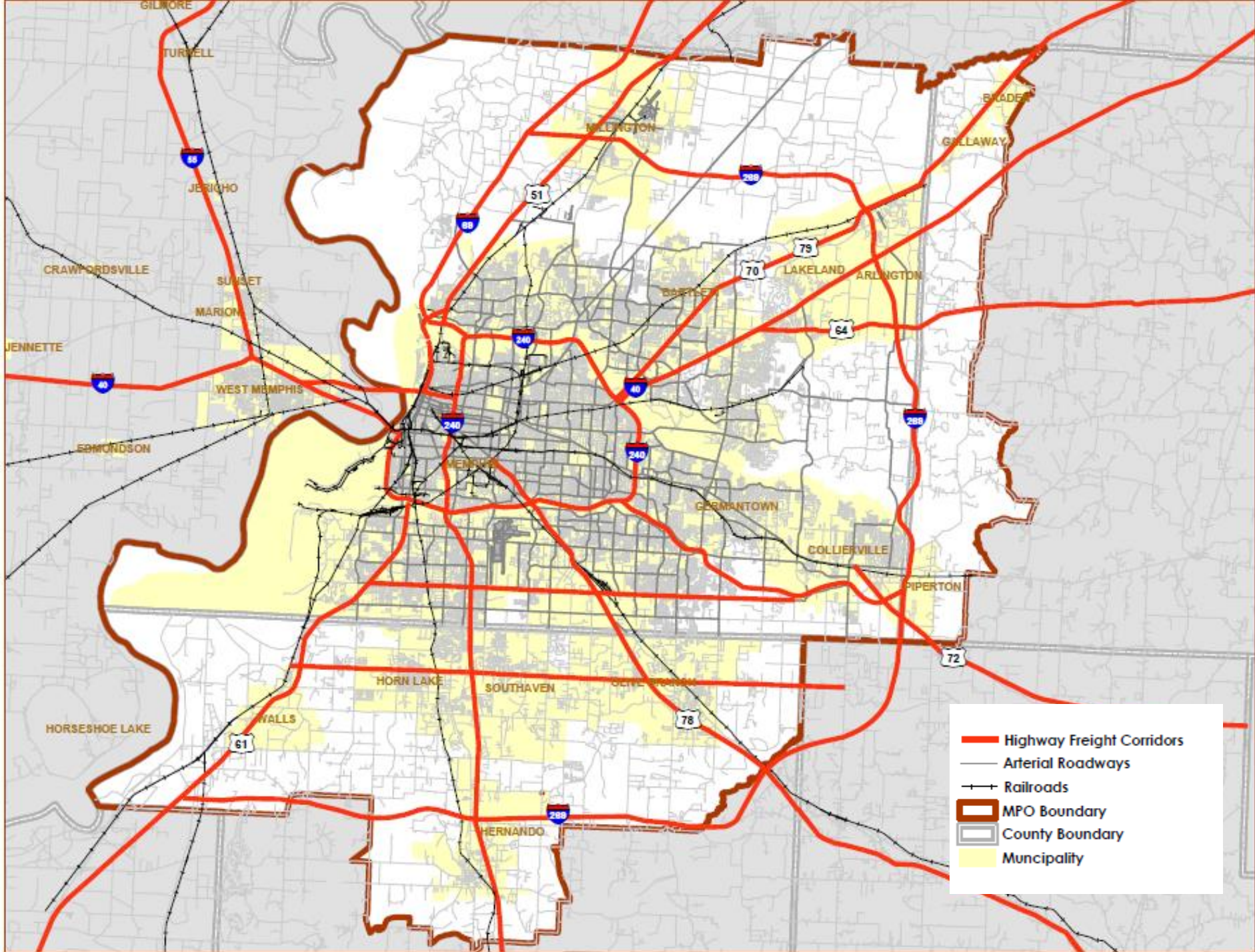








# Memphis Freight Statistics



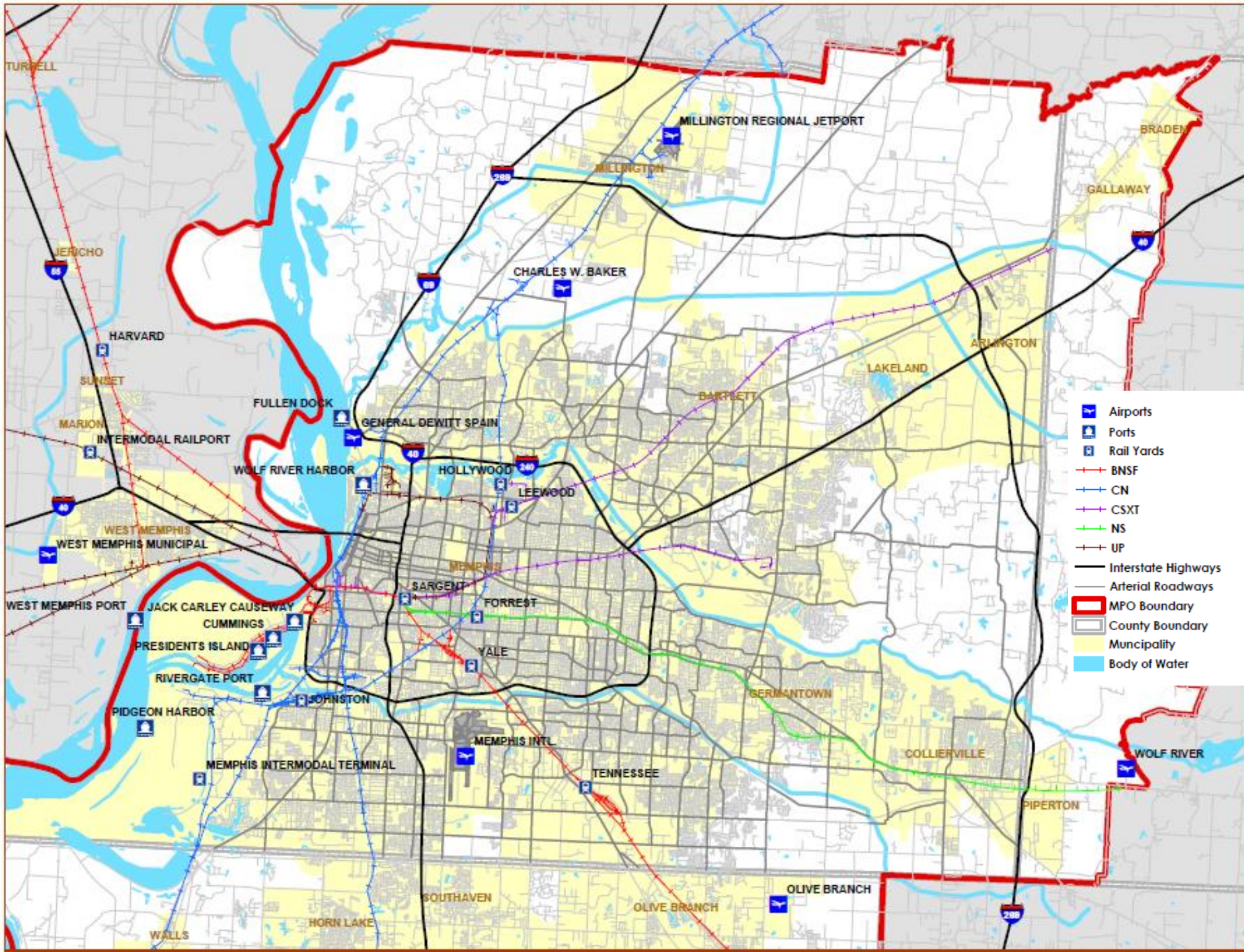
- World's Busiest Air Cargo Airport
- Five Class 1 railroad (BNSF, CN, UP, NS & CSX)
- Very High Truck volumes major interstate highways such as I-40, I-240 and I-55
- 2nd-largest port on the Mississippi River and the 4th-largest inland port in the U.S
  - Primarily used for bulk items, i.e. farming, crude material





-  Highway Freight Corridors
-  Arterial Roadways
-  Railroads
-  MPO Boundary
-  County Boundary
-  Municipality





# Recent Freight Related Developments



- **New NS Intermodal Yard in Rossville TN**
  - 350,000 Annual lifts
- **BNSF Intermodal Facility Expansion**
  - 1 million Annual lifts (capacity)
- **Memphis Urban Area Regional ITS Architecture Update**
  - ATMS- 5 Railroad Operations Coordination
  - CVO-02 Freight Administration
- **Implementation of SmartWay (TDOT)**

# MPO Area Needs and Challenges



- Congestion
- Safety
- Security
- Environmental Impact
- Economic
- **Lack of Public-Private Partnership**

# Planning Efforts



- EIS Study for Third Bridge Crossing - Underway
- Through Travel Survey - Underway
- Regional Freight Infrastructure Plan - Completed
- I-269/I-69 NAFTA Corridor Study
- Aerotropolis
- Southern Poplar Corridor Study - Completed
- Lamar Ave. Corridor Study - Completed



# Solutions



- **Primarily Infrastructure improvements**
  - Road widening and interchange improvements
- **Area wide Coordinated Signal System**
- **Leverage technology for better Highway incident Management**
  - Using Memphis ITS Architecture
- **Expansion of SmartWay Program to I-269 section (once complete)**
- **Better data for planning (e.g. cell phone tracking)**