Regional Freight Plan

Agenda

• Regional Connections across North America
  • Peer Regions & Cities
• Industrial Zones of the Memphis MPO Area
  • Industrial Zones
  • Industrial Zone Characteristics
• Aerotropolis
• Transportation Network Connections
  • Interstate roadways / arterial network
  • Railroad Networks
• Next Steps
Regional Freight Plan

- Regional Connections across North America
- Peer Regions:
  - Regional economic features
  - Transportation network connections
  - Potential for regional connections
  - Areas of concentrated growth

Characteristics:
- Total employment: 2007, 2014
- Jobs added
- Industrial employment
- Population
- Manufacturing Exports
- Imports
- Gross Domestic Product
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- Regional Connections across North America
- Peer Cities:
  - Transportation Characteristics
  - Potential for adaptive strategies

Candidate Peer Cities for Memphis:
- El Paso
- Oklahoma City
- Tulsa
- Kansas City
- St. Louis
- Minneapolis / St. Paul
- Louisville
- Cincinnati
- Nashville
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- Industrial Zones across the Memphis MPO Area

- Preliminary names, attempt to identify a unifying theme for the zone
- Based on TAZ boundaries, some additional ones may arise as the work progresses
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- Industrial Zones of the Memphis MPO Area
  - Industrial Zones Identified: TAZ Boundaries
  - Industrial Zone Characteristics

### Riverside Industrial Zone

<table>
<thead>
<tr>
<th>Year</th>
<th>2002</th>
<th>2014</th>
<th>Change from 2002-2014</th>
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<tbody>
<tr>
<td>Inventory Space</td>
<td>3,902,509</td>
<td>3,927,648</td>
<td>25,139</td>
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<td>Total Net Absorption</td>
<td>4,784</td>
<td>170,970</td>
<td>166,186</td>
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<td>Total Occupancy Space</td>
<td>3,845,409</td>
<td>3,800,316</td>
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<td>Total Employment</td>
<td>1,966</td>
<td>1,673</td>
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<tr>
<td>Industrial Employment</td>
<td>1,544</td>
<td>1,146</td>
<td>-398</td>
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</tbody>
</table>
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Aerotropolis

- Examine how companies are connected
- Truck impacts
- Adjacent uses
  - Compatibility
  - Sustainability
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Aerotropolis

- Strategic Transportation Asset
  - The River’s Peer
- Woven Industrial Purposes
  - O’Hare Airport
  - Louisville
  - Indianapolis
- Regional population density
- Varied Communities
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Transportation Network Connections
- Interstate & arterial network

Congestion effects and capacity:
- I-40 / I-55 Section in West Memphis
- Arterial roadway interchanges
- Traffic movement along arterials
- At-grade railroad and roadway crossings
- Adaptive controls for roadway signals
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Transportation Network Connections
- Railroad networks

- Regional interchange
- Shifting network demands
- Infrastructure alignment
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Industrial Use Factors – Transportation

- Regional / national interchange – I-40 / I-55
- Local & through traffic
- Infrastructure maintenance & operations

- Rossville connections
- New roadways and emerging industrial sites
- Infrastructure timing
Industrial Use Factors – Site Characterization

Technical Site Metrics

- Site Location
- Total Acreage
- Total Industrial Rentable Building Area (RBA)
- Average Industrial Rentable Building Area (RBA)
- Number of Properties (By Property Type)
  - Distribution
  - Manufacturing
  - Service
  - Truck Terminal
  - Warehouse
  - Other

Industry and Economic Sectors

- Number of Employees By Sector (2-digit NAICS Codes)
- Income Range
- Workforce Characteristics
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Next Steps

• Transportation Access
• Railway & Roadway Networks
• Inland Waterways & Transshipment
• Freight Movement & the Aerotropolis
• Examine the agriculture and transport sectors
• I-269 characteristics
• Public sector strategies
• Industrial zone clusters