Memphis MPO Freight Stakeholder Survey

Dan Pallme
Interim Director, IFTI
Memphis MPO
Freight Advisory Committee Meeting
5-28-15
Purpose of the Study
Importance
Background – What, Where, When, Who & Why
Questions of each administered survey
Key takeaways of each survey
Purpose of the MPO Freight Stakeholder Survey

1. To solicit opinions and perceptions and gather information on the operations and functionality of the freight transportation system; and
2. To determine the impacts of freight movements on livability within the region
Importance of the MPO Freight Study

The results of the survey will be analyzed and used in the preparation of the updated MPO’s Regional Transportation Plan (RTP).
What did the survey encompass?

There were two separate surveys conducted simultaneously to different audiences:

1. **Freight Transportation Systems Operations and Functionality** or *Memphis Region Intermodal Freight Survey*
2. **Freight Systems and Livability** or *Mid-South Region Livability Survey*
Survey 1: Freight Transportation System Operations and Functionality

6 Tasks:

1. Identify Stakeholders
2. Develop Survey
3. Administer Survey
4. Analysis of Survey Results
5. In-depth Interviews
6. Final Report and Presentations
Survey 1: Intermodal Freight Survey

- 14 Questions
  - 3 company demographic
  - 4 assessing the current transportation infrastructure
  - 7 business operations and strategy as related to transportation network
Survey 1: Intermodal Freight Survey
In depth survey

- 15 Questions
- Wide variety of questions
### Current Infrastructure respondents ratings

**Table 2**

*Respondents Rating of the Existing Transportation Infrastructure, n = 107*

<table>
<thead>
<tr>
<th>Answer Options</th>
<th>1- Inadequate/poorly maintained</th>
<th>2</th>
<th>3- Average</th>
<th>4</th>
<th>5- Extremely adequate/well-maintained</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roadway connectivity</td>
<td>3</td>
<td>12</td>
<td>44</td>
<td>45</td>
<td>6</td>
</tr>
<tr>
<td>Pavement conditions</td>
<td>14</td>
<td>34</td>
<td>45</td>
<td>18</td>
<td>1</td>
</tr>
<tr>
<td>Roadway capacity</td>
<td>7</td>
<td>25</td>
<td>50</td>
<td>25</td>
<td>3</td>
</tr>
<tr>
<td>Interstate/highway accessibility</td>
<td>2</td>
<td>8</td>
<td>43</td>
<td>51</td>
<td>8</td>
</tr>
<tr>
<td>Signage and markings</td>
<td>2</td>
<td>8</td>
<td>59</td>
<td>40</td>
<td>3</td>
</tr>
<tr>
<td>Traffic signals/timing</td>
<td>3</td>
<td>26</td>
<td>62</td>
<td>20</td>
<td>1</td>
</tr>
<tr>
<td>Street lighting</td>
<td>1</td>
<td>20</td>
<td>59</td>
<td>32</td>
<td>0</td>
</tr>
<tr>
<td>Curbs/road geometrics</td>
<td>1</td>
<td>16</td>
<td>68</td>
<td>23</td>
<td>1</td>
</tr>
<tr>
<td>Intermodal facilities</td>
<td>0</td>
<td>1</td>
<td>15</td>
<td>64</td>
<td>29</td>
</tr>
<tr>
<td>Rail</td>
<td>0</td>
<td>4</td>
<td>12</td>
<td>58</td>
<td>34</td>
</tr>
<tr>
<td>Air</td>
<td>4</td>
<td>7</td>
<td>13</td>
<td>50</td>
<td>36</td>
</tr>
<tr>
<td>Port</td>
<td>1</td>
<td>14</td>
<td>47</td>
<td>31</td>
<td>9</td>
</tr>
<tr>
<td>Safety/Security</td>
<td>6</td>
<td>21</td>
<td>53</td>
<td>18</td>
<td>7</td>
</tr>
</tbody>
</table>
## Location Choice Decision Factors

<table>
<thead>
<tr>
<th>Decision Factor</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost of Land</td>
<td>13.3%</td>
</tr>
<tr>
<td>Markets that can be Reached in One Day</td>
<td>49.3%</td>
</tr>
<tr>
<td>Workforce</td>
<td>6.7%</td>
</tr>
<tr>
<td>Taxes</td>
<td>14.7%</td>
</tr>
<tr>
<td>Public/Private Partnership</td>
<td>13.3%</td>
</tr>
<tr>
<td>Availability of Rail/Runway/River/Road Infrastructure</td>
<td>50.7%</td>
</tr>
<tr>
<td>Customer Base</td>
<td>48.0%</td>
</tr>
<tr>
<td>Supplier Proximity</td>
<td>8.0%</td>
</tr>
</tbody>
</table>

If you were involved in the decision to locate your business, why was the Mid-South Region chosen as the location of your business?
Key Takeaways – Memphis Region Intermodal Freight Survey

- Good return of surveys
- Construction
- Lamar Corridor
- Taxes
- Positive Assets of the Region
- Continue improving the assets and infrastructure of the Region
Survey 2 – Freight Systems and Livability

Definition of livability: “Tying the quality and location of transportation facilities to broaden opportunities such as access to good jobs, affordable housing, quality schools, and safer streets and schools.”
Survey 2: Freight Systems and Livability

6 Tasks:

1. Identify Stakeholders
2. Develop Survey
3. Administer Survey
4. Analysis of Survey Results
5. In-depth Interviews
6. Final Report and Presentations
Survey 2: Mid-South Regional Livability Survey

- 30 Questions
  - 8 - livability in their neighborhood
  - 5 - livability in the Mid-South region
  - 2 - personal transportation
  - 11 – personal demographic
  - 4 – community planning
Survey 2: Mid-South Regional Livability In-depth survey
12 Questions

- Wide variety
Top 5 Perceptions regarding livability

How has your neighborhood changed since you have lived here? (Select all that apply)

<table>
<thead>
<tr>
<th>Perception</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>More renters</td>
<td>50.0%</td>
</tr>
<tr>
<td>More crime and danger/less personal safety</td>
<td>37.8%</td>
</tr>
<tr>
<td>More traffic congestion</td>
<td>35.9%</td>
</tr>
<tr>
<td>Apathetic attitudes/less community involvement</td>
<td>29.8%</td>
</tr>
<tr>
<td>Increased population</td>
<td>29.0%</td>
</tr>
</tbody>
</table>
Top Five Contributors to Livability

What are the most important contributors to livability in your neighborhood?

<table>
<thead>
<tr>
<th>Contribution</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feeling safe in my neighborhood</td>
<td>85.9%</td>
</tr>
<tr>
<td>Knowing my neighbors</td>
<td>42.3%</td>
</tr>
<tr>
<td>Living in an economically thriving neighborhood</td>
<td>41.5%</td>
</tr>
<tr>
<td>Having a sense of community</td>
<td>38.7%</td>
</tr>
<tr>
<td>Living close to school/work</td>
<td>36.7%</td>
</tr>
</tbody>
</table>

- Feeling safe in my neighborhood
- Knowing my neighbors
- Living in an economically thriving neighborhood
- Having a sense of community
- Living close to school/work
Key Takeaways – Mid-South Region Livability Survey

- Concerns
- Barriers
- Urban vs suburban
- Overall views
Final Thoughts of the ‘tying’ together the two surveys

- Safety / Crime
- Alternative based fuels
- Taxes
- Congestion
- Pot holes / maintenance
- Major roads / highways
Questions???

Thank ya, thank ya very much!

Dan Pallme
depallme@memphis.edu
901 – 553 -2875 cell
TDOT REGION 4
SHELBY COUNTY
May 27, 2015
(Blue Markers)
Under Construction:
1) I40/240 Interchange
2) I240 Widening—paving completed by 12/15/2014
3) I40/Canada Road Interchange.
Contracts total over $530M

(Yellow Markers)
In Current 3 YR Transportation Plan for Construction Funding:
1) I55/Crump Interchange
2) SR 14 (SR 204 to Covington Pike)
3) I-240 (3 Overhead Bridges)
4) SR 3 (Elvis Presley Blvd.)

(Red Markers)
In Development:
1) I40 widening
2) I-240 Airways Interchange
3) SR 1 (Summer Avenue)
4) SR 4 Lamar
5) SR 14 Widening
6) I-240 From I-55 to the Midtown Interchange

Miscellaneous Safety and Bridge & Approach Projects
I-40/I-240 Interchange

Phase 2
Aerial Tour of I-40/I-240 Project

• Click on link or press play to view video:
  • http://www.youtube.com/embed/pxggL052FkM?rel=0&autoplay=1
I-40 Interchange at Canada Road Project
I-40 Interchange at Canada Road Project

- The grading, drainage, and construction of a bridge, retaining walls, and paving on Interstate 40 at Canada Road
- Prime Contractor – Bell & Associates
- Project Cost - $28,282,839.75
- Estimated Completion Date – May 2017
I-55/Crump Blvd. Interchange

Existing Conditions

I-55 Traffic takes single lane ramp to continue moving eastbound on I-55

I-55 Traffic takes loop ramp to continue westbound on I-55
I-55 Interchange at Crump Boulevard

Modifications include:
- multi-lane structures for west/eastbound I-55 traffic, which would improve route continuity
- proposed roundabout for local streets
- Construction estimate: $57.0M
- Will require extensive public involvement/coordination throughout the construction process
I-55 Interchange at Crump Boulevard

Access for local roads will be provided through proposed roundabout.
From MS state line to south of Shelby Drive (SR 175)
ROW estimate: 34 M
Construction estimate: 22.4 M

From South of Shelby Drive (SR 175) to Raines Road
ROW estimate: 43.2 M
Construction estimate: 38.2 M

From South of Raines Rd/Perkins Rd Interchange to SR 176 (Getwell Rd)
ROW estimate: 97.8 M
Construction estimate: 27.5 M

Interchanges at:
Holmes Road,
Shelby Drive,
Winchester.
Interchange Improvements at:
Raines Rd./Perkins Rd
Getwell Rd.
State Route 14

SR 14—From East of Kerrville-Rosemark Rd. To Tipton County Line
Construction Estimate: 20 M

SR 14—From SR 385 To East of Kerrville-Rosemark Rd.
Construction Estimate: 20 M

Interchange I-269 (SR 385) @ SR 14

SR 14—From Old Covington Pike To SR 385
Construction Estimate: 35.4 M

SR 14—From SR 204 To Old Covington Pike
Construction Estimate: 25.7 M
I-240/Airway Interchange at Airways Blvd.

Flyover ramp for Southbound Airways Blvd. traffic

Proposed Single Point Urban Interchange (SPUI)
I-240 Replacement of 3 Bridges

I-240 REPLACEMENT OF 3 OVERHEAD BRIDGES:
NORTHRIDGE SOUTHERN RR
POPLAR AVE EASTBOUND
POPLAR AVE WESTBOUND
I-40 Widening Project

I-40 Widening
From SR 177 (Germantown Rd)
To East of Canada Rd.
Construction Estimate: 39 M

I-40 Widening
From East of Canada Rd
To SR 205
Construction Estimate: 29M

I-40 Interchange @ Canada Road
(currently under construction)
Q & A
<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Presenter</th>
<th>Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memphis Freight Advisory Committee Meeting</td>
<td>5/28/15</td>
<td>Trung Trinh</td>
<td>Planning Division</td>
</tr>
</tbody>
</table>
I-269 Construction & Paving Project Status

Construction Project Estimated Completion

Paving Project Estimated Completion
Scheduled Letting: September 2015

Estimated Completion: End of 2016
MS 302 / Goodman Road HSIP Project Status

Scheduled Letting: Early of 2016

Scheduled Letting: September 2015
US 72 Intermodal Yard Interchange Project Status

Scheduled Letting: August 2015