Incorporating EJ into MAPA’s Transportation Improvement Program (TIP)

Michael Felschow, Program Director
Environmental Justice Peer Exchange
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Purpose

- Develop quantitative method that encourages communities to submit projects improving access and mobility for EJ populations
- Assess transportation projects’ impacts on access and mobility goals
- Demonstrate progress is being made to achieve increased access and mobility
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2/17/2016
Environmental Justice Development

- **2035 LRTP**: 2005-2009 ACS 5-year estimates tract level analysis
- **FY15 TIP**: 2010 US Census and 2006-2010 ACS tract level analysis

- Evaluation of whether areas of disproportionate minority and low-income populations exist
- The percentage of the population within each census tract identified as low-income or minority was compared to the TMA average, using normal range of 1 Standard Deviation above and below the average;
- Data was transformed into normal distribution
- Census Tracts > 1 Standard Deviation above the average (square root value) = concentrated minority or low income population.
Environmental Justice On-Going Analysis (TIP)

• **On Going Analysis**
  - Reviewed the total project listing, distribution of equity, and assumed benefits and burdens

• **FY15 TIP Analysis**
  - At a program level, there are no adverse impacts anticipated for EJ populations.
  - The distribution of funds and based on the proportion of the population being served in the environmental justice areas (21%), these populations are receiving approximately 46% of the total federal funds in the fiscally constrained TIP program. This is over double EJ population proportion of federal roadway and trail funds distributed.
Table 4.1 - Environmental Justice Analysis Types

<table>
<thead>
<tr>
<th>Geographic Equity</th>
<th>Transit-shed Investments</th>
<th>Travel Time Analysis</th>
<th>Metro Transit Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>% funding within EJ Area</td>
<td>% funding within Transit-shed</td>
<td>Travel time improvement within the transit shed</td>
<td>Funding corresponding to level of riders below poverty line</td>
</tr>
</tbody>
</table>
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Legend
- 2016 TIP Projects
- Transit Shed

Transit Shed with TIP Projects

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EJ LRTP Analysis

• No projects are anticipated to have significantly negative impacts on the EJ populations.

• $2.5 billion - invested in EJ areas over next 25 years
• 50% - total investment in capital projects in EJ areas
• 24% of TMA population (180,000 of 742,000) is in EJ areas
## Environmental Justice On-Going Analysis

<table>
<thead>
<tr>
<th>TIP ID</th>
<th>Project Name</th>
<th>Lead Agency</th>
<th>Map #</th>
<th>EJ Funding</th>
<th>Non-EJ Funding</th>
<th>Total Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>IA-1193</td>
<td>I-80</td>
<td>Iowa DOT</td>
<td>3</td>
<td>$344,700.00</td>
<td>$229,800.00</td>
<td>$574,500.00</td>
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<tr>
<td>IA-1581</td>
<td>Iowa Riverfront Trail III</td>
<td>Council Bluffs</td>
<td>5</td>
<td>$231.86</td>
<td>$54.39</td>
<td>$286.25</td>
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<td>IA-21087</td>
<td>River Rd. Trail</td>
<td>Council Bluffs</td>
<td>6</td>
<td>$307.50</td>
<td>-</td>
<td>$307.50</td>
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<tr>
<td>MET-03202014-001</td>
<td>Metro Rolling Stock</td>
<td>Metro</td>
<td>7</td>
<td>$2,456.44</td>
<td>$2,009.81</td>
<td>$4,466.25</td>
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<tr>
<td>NE-21973</td>
<td>Riverfront 4 Trail</td>
<td>Omaha</td>
<td>10</td>
<td>$678.59</td>
<td>$626.39</td>
<td>$1,304.98</td>
</tr>
</tbody>
</table>

Environmental Justice Projects
MAPA: Transportation Improvement Program

Summary

- Process is designed to increase number of projects positively impacting EJ populations
- MAPA has demonstrated TIP has positive impact on EJ populations at program level
- Still need to have member agencies apply for federal funding to achieve higher levels of access and mobility