RECONNECTING AMERICA

PERFORMANCE MEASURES WEBINAR

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Mid-America Regional Council
Kansas City Metro
PRESENTATION OUTLINE

- Overview of our plan
- Our approach to performance measures
- A walkthrough of findings
- Takeaways and lessons learned
PLAN OVERVIEW

- Developed over a 2-year period
  - Adopted June 2010
- Extensive Public Input/Committee Feedback
- Segmented Approval Process
  - Policy Framework
  - Financial Assumptions and Evaluation Framework
  - Projects & Measures
POLICY FRAMEWORK

- Policy Framework Components
  - Regional Vision Statement
  - Regional Policy Goals

- Served as structure/foundation for
  - Plan’s Content Development
  - Project Evaluation and Prioritization
  - Identification of Performance Measures
  - Project selection/priorities
GOALS

- System Performance
- System Condition
- Safety and Security
- Accessibility
- Economic Vitality
- Place making*
- Public Health*
- Climate Change/ Energy Use*
- Environment*

*New Goals for Transportation Outlook 2040
SYSTEM PERFORMANCE

Manage the system to achieve reliable and efficient performance.
SYSTEM CONDITION

Ensure transportation system is maintained in good condition.
SAFETY AND SECURITY

Improve safety and security for all transportation users.
ACCESSIBILITY

Maximize mobility and access to opportunities for all area residents.
ECONOMIC VITALITY

Support an innovative, competitive 21st century economy.
PLACE MAKING

Coordinate transportation and land-use planning as a means to create quality places in existing and developing areas, and to strengthen the quality of the region.
PUBLIC HEALTH

Facilitate healthy, active living
Decrease the use of fossil fuels through reduced travel demand, technology advancements, and a transition to renewable energy sources.
ENVIRONMENT

Protect and restore our region’s natural resources (land, water, and air) through proactive environmental stewardship.
APPROACH

- Used policy goals in developing measures
  - Less is more (difficult balance)
  - Measures helped to further define goals
- Used available data (annual updates)
  - Reliable sources
  - Updated on an annual basis
- Consistent geographies
- Desired trends
PERFORMANCE MEASURES
PROGRESS REPORT
June 2012

Mid-America Regional Council
Transportation Department
Revised 6/27/2012

PERFORMANCE MEASURES
Progress Report Summary | June 2011

The Mid-America Regional Council (MARC) long-range transportation plan, Transportation Outlook 2040, outlines a plan for the Kansas City region that is socially, environmentally, and economically sustainable. The plan focuses on performance measures that will promote and track progress toward the vision over time. This summary report highlights indicators that MARC used in planning and preparedness for the region.

According to recent data, many of the indicators are moving in the desired direction, including better-conditioned bridges, fewer crashes, fatalities, and fatalities in road accidents. However, others, such as crash rates and fleet utilization, suggest that we have more work to do.

A performance progress report will be compiled annually. The completed June 2011 report contains a complete explanation and analysis of these trends and the data sources. Find it online at marc.org/transportationoutlook.

<table>
<thead>
<tr>
<th>FACTOR</th>
<th>MEASURE</th>
<th>CURRENT</th>
<th>DESIRED</th>
<th>ACTUAL TRENDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessibility</td>
<td>Population with access to public or private transportation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Economic Vitality</td>
<td>Average household income</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Climate Change / Energy Use</td>
<td>Vehicle miles traveled per person</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment</td>
<td>Local government CO2 emissions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Place Making</td>
<td>Number of residential units</td>
<td></td>
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Annual snapshot provides meaningful information to assess progress towards reaching the region’s transportation goals.

2013 PROGRESS RECAP

- Accessibility
- Economic Vitality
- Climate Change/Energy
- Environment
- Place Making
- Public Health
- Safety & Security
- System Condition
- System Performance
Accessibility: Level of Transit Service

Transit Ridership & Service (Kansas City Area)

Source: National Transit Database (NTD) - Annual Transit Profiles
Accessibility: Projects w/ Bike-Ped Elements

MARC TIP Annual Listing of Obligated Projects

<table>
<thead>
<tr>
<th>Year</th>
<th># of Projects with Bicycle/Pedestrian Elements</th>
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<tbody>
<tr>
<td>2006</td>
<td>9</td>
</tr>
<tr>
<td>2007</td>
<td>18</td>
</tr>
<tr>
<td>2008</td>
<td>34</td>
</tr>
<tr>
<td>2009</td>
<td>46</td>
</tr>
<tr>
<td>2010</td>
<td>48</td>
</tr>
<tr>
<td>2011</td>
<td>65</td>
</tr>
<tr>
<td>2012</td>
<td>115</td>
</tr>
</tbody>
</table>

Source: MARC- Annual Listing of Obligated Projects
Economic Vitality: Annual Cost Per Auto Commuter

Annual Congestion Cost per Auto Commuter

Source: TTI- Urban Mobility Report
Climate Change/Energy Use:
Daily VMT Per Capita

Vehicle Miles (MARC Region)

Source: KDOT, MoDOT, ACS
**Environment: MetroGreen**

**MetroGreen® Network**

- **Miles of MetroGreen® network completed**
  - 2002: 7.4%
  - 2005: 14.0%
  - 2009: 19.4%
  - 2010: 20.1%
  - 2011: 21.2%

- **% of Total Network Completed**
  - 2002: 7.4%
  - 2005: 14.0%
  - 2009: 19.4%
  - 2010: 20.1%
  - 2011: 21.2%

**Source:** MARC
Public Health: Ozone Season Avgs.

Ozone Season Averages (Kansas City Region)

Source: MARC--Air Quality Reports - Ozone Season Summaries
Safety & Security: Fatalities & Injuries

MARC Region Fatalities and Disabling Injuries

Source: KDOT & MoDOT
System Condition: Bridge Condition

Bridge Conditions (MARC Region)

- % Structurally Deficient
- % Functionally Obsolete
- TO 2040 Implementation

Source: Federal Highway Administration – National Bridge Inventory
System Performance: Congestion

% Network (lane-miles) Congested

- Kansas City Urban Area
- Avg of Large Urban Areas (Population 1-3 Million)
- TO 2040 Implementation

Source: Texas Transportation Institute – “Urban Mobility Report”
Place Making: Land Use/ Redevelopment

<table>
<thead>
<tr>
<th></th>
<th>Population</th>
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<tbody>
<tr>
<td></td>
<td>2000</td>
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<tr>
<td>Urbanized Area</td>
<td>1,144,295</td>
</tr>
<tr>
<td>Region</td>
<td>1,672,362</td>
</tr>
</tbody>
</table>

Percent change within urbanized area

-9.6%

Source: U.S. Census Bureau
TAKEAWAYS

- We are making real progress on multiple fronts:
  - *Investment allocations, roadway condition, transit usage, congestion management, safety, trails, etc.*
- Overall economy has a significant influence on many measures
- More work to do on, particularly on issues related to public health and land use
LESSON LEARNED

- New territory for us initially
- Encountered data gaps
  - Had to adjust measures/create new ones
- Measures reflective of the region vs. measures reflective of corridors/places
- Targets versus no targets?
  - Currently don’t have set targets established
  - MAP-21 will require us to do so
- Limited ability to forecast non-traditional measures
THANK YOU

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