

The Kansas City Region's  
Long Range Transportation Plan



# Transportation Outlook 2040

Conference on Transportation Performance Measures for  
Transportation and Livable Communities

9/08/11 Tom Gerend

# OUTLINE

1. Transportation Outlook 2040  
Development Process & Plan Structure
2. Performance Measurement Element
3. Implementation and Feedback

# PLAN OVERVIEW

- Developed over 2-year period, adopted June, 2010
- Extensive Public Input
- 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

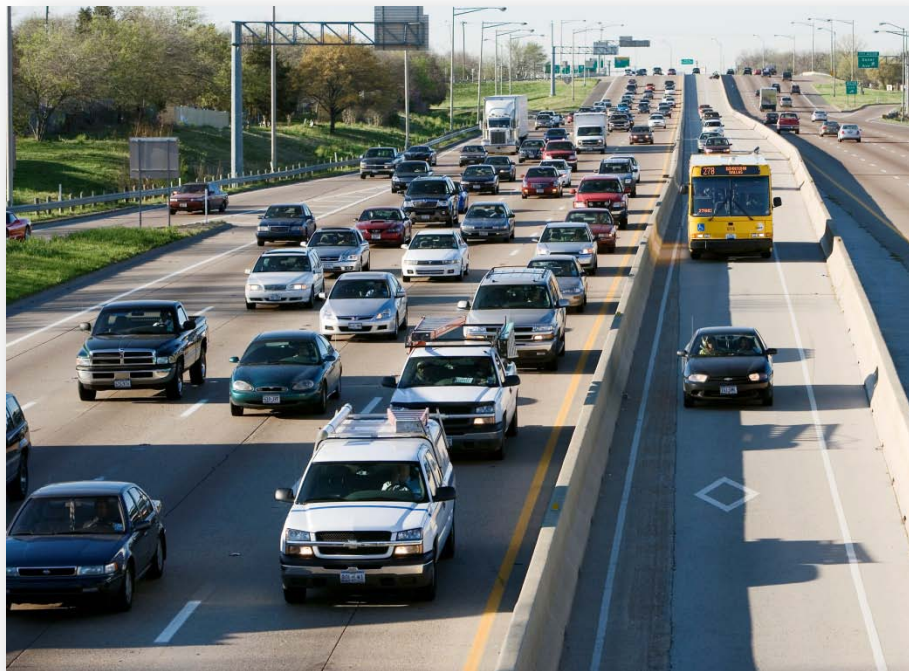
# 2040 POLICY GOALS

- System Performance
- System Condition
- Safety and Security
- Vital Economy
- Accessibility
- Place-making\*
- Healthy Living\*
- Climate Change and Energy Use\*
- Environment\*

\* New Plan Goals

# SYSTEM PERFORMANCE

Manage the system to achieve reliable and efficient performance.



# ACCESSIBILITY

Maximize mobility and access to opportunities for all area residents.



# PUBLIC HEALTH

Facilitate healthy, active living.



PHOTO BY  
KENNETH WALKER



# CLIMATE CHANGE & ENERGY USE

Decrease use of fossil fuels through reduced travel demand, technology advancements, and transition to renewable energy.

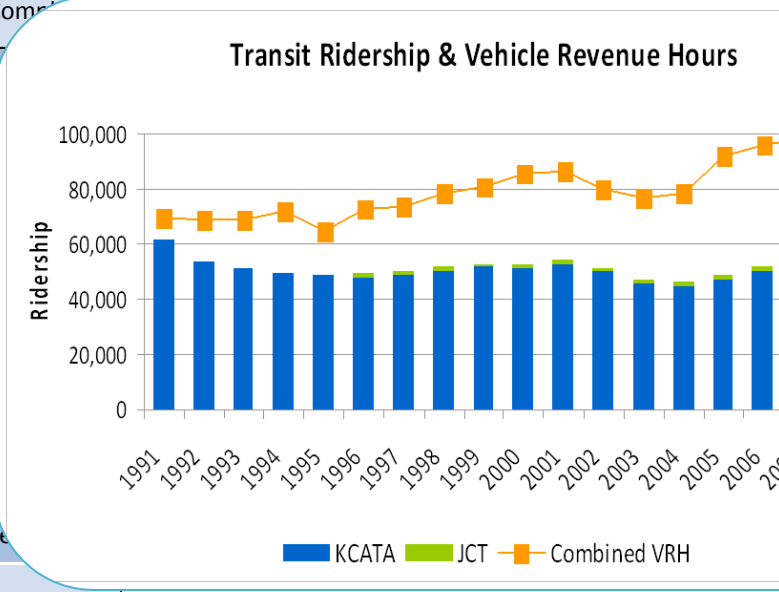


# PERFORMANCE MEASUREMENT ELEMENT

- Used policy goals as outline for measurement report
- Solicited feedback on potential measures to help define measures and track progress
- Screened all available existing data sources for 1)reliable and 2) continuous sources

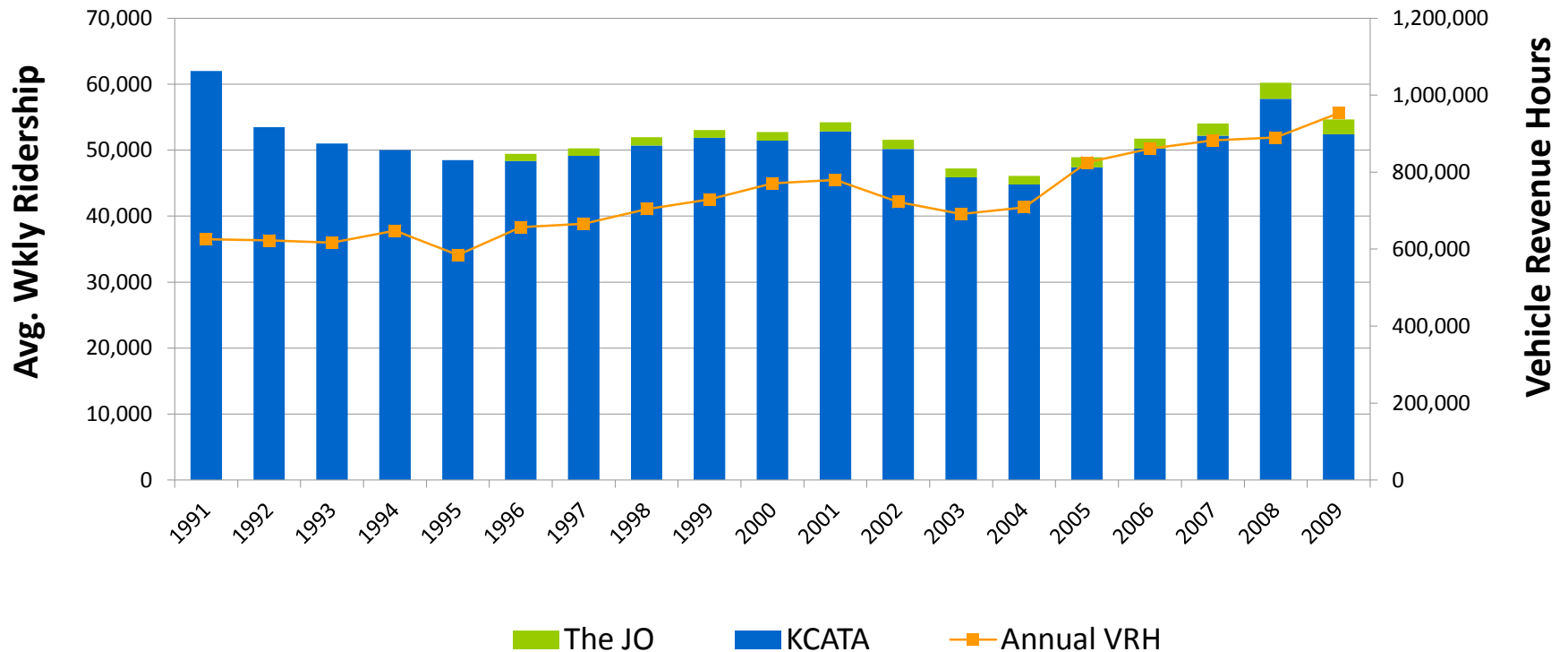
# MEASURING PROGRESS

		<i>Measure</i>
Accessibility	Level of Transit Service	- Revenue Service Hours - Ridership
	Environmental Justice	- Percent of transportation investments in EJ tracts
Economic Vitality	Transportation Costs	- Combined transportation and housing costs as a % of median income
Climate Change/ Energy Use	Vehicle Miles Traveled / CO <sub>2</sub>	- System wide daily VMT/CO <sub>2</sub> Emissions
	Vehicle Occupancy	- Vehicle occupancy rate
Environment	MetroGreen Network	- Percent/Miles of MetroGreen Network Completed
Place Making	Multi-Modal Options	- Modal Balance (mode-share)
Public Health	Ozone	- Ozone Levels
	Physical Health	- Obesity Rate
Safety and Security	Crash Fatality and Injury Rate	- Annual crash fatalities and disabling injuries
System Condition	Bridge & Pavement Condition	- Pavement Condition - Bridge Condition
System Performance	Level of Service	- Observed speed vs. posted speed on the Network
	Congestion	- Percent of CMS Network Congested
	Travel Time	- Average Commute Time
	On-Time Performance	- On-Time Performance of Transit System



# Accessibility: Level of Transit Service

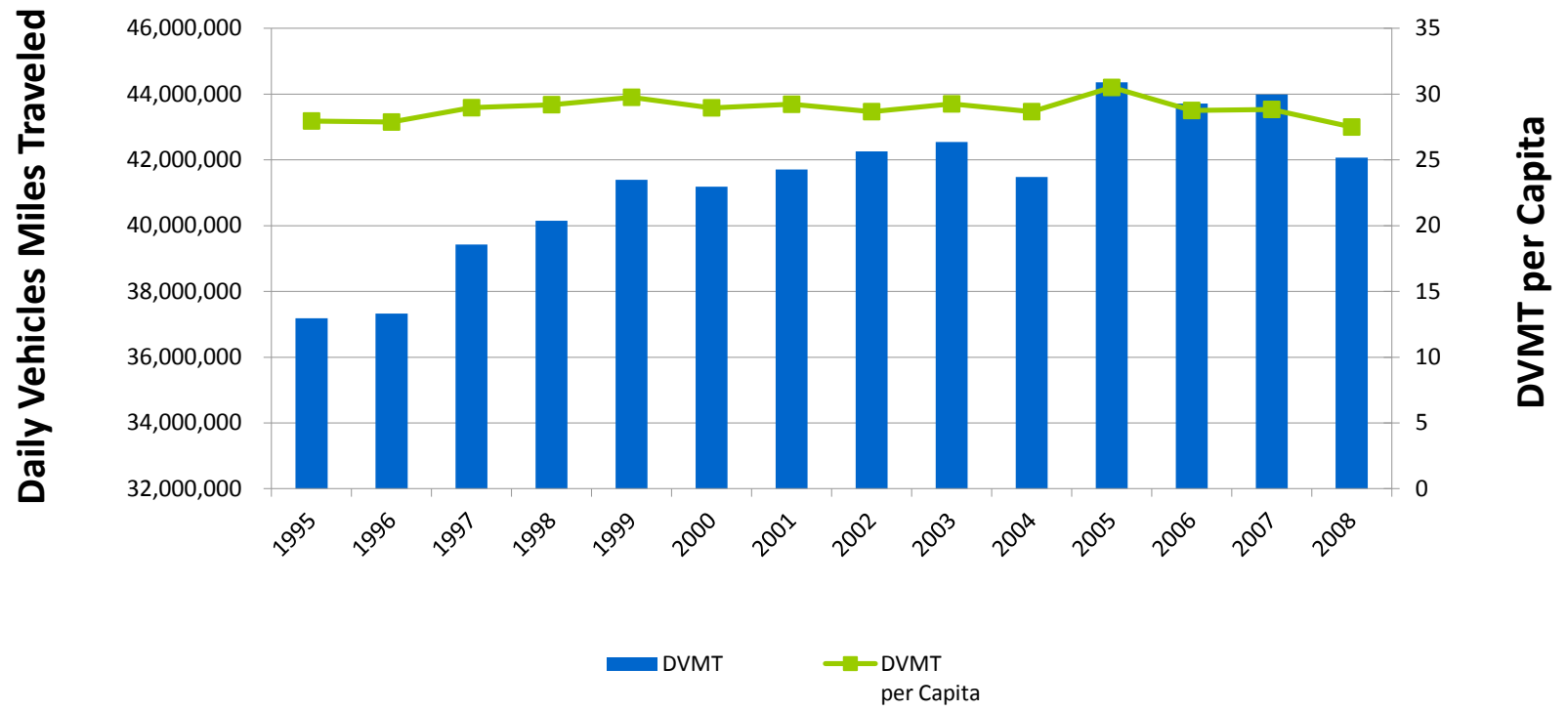
## Ridership and Vehicle Revenue Hours



Source: National Transit Database – Annual Transit Profiles

# Climate Change/Energy Use: Vehicle Miles Traveled

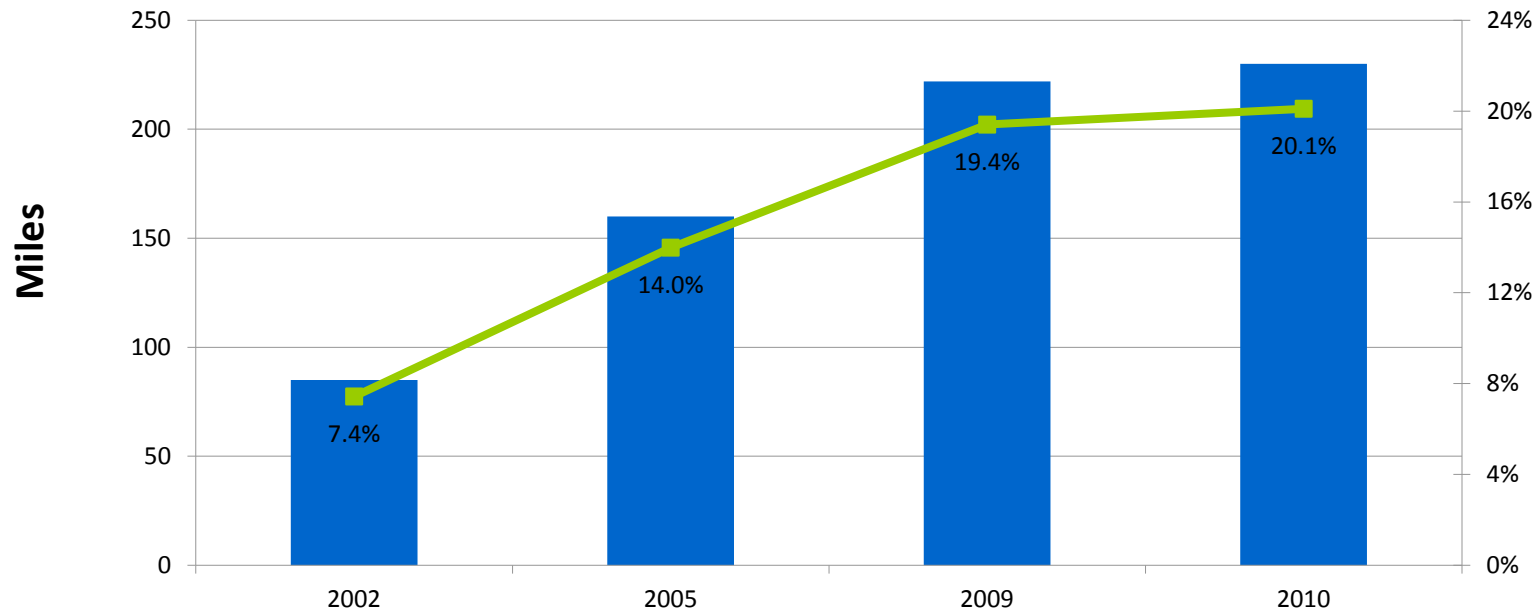
## Daily Vehicle Miles Traveled



Source: Federal Highway Administration – Highway Statistics

# Environment: MetroGreen<sup>®</sup> Network

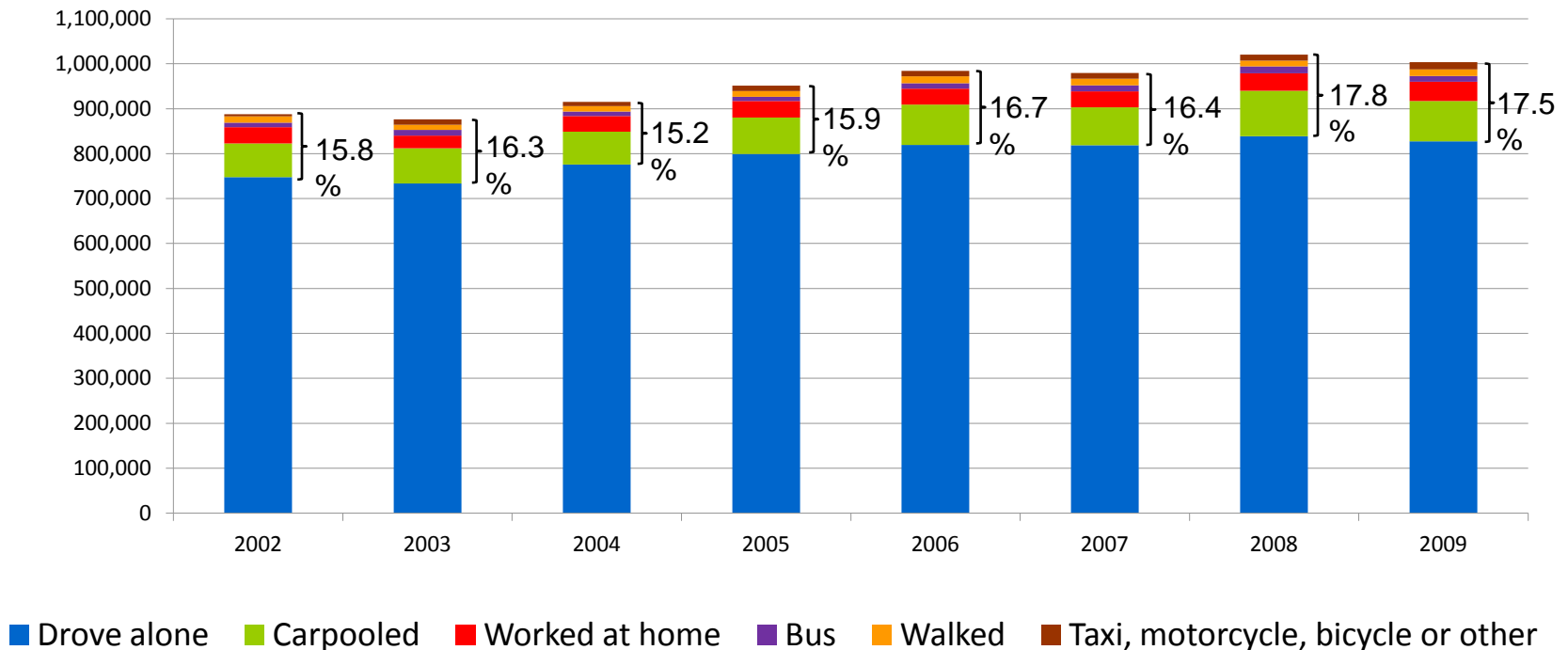
## Portion of MetroGreen<sup>®</sup> Network Completed



Source: MARC Environmental Services Department

# Placemaking: Multimodal Options

## Balance between Modes of Transportation



Source: American Community Survey – 1-Year Estimates

# IMPLEMENTATION AND FEEDBACK

- Used policy framework and related performance measures to serve as project evaluation and prioritization tool (STP, CMAQ, TE)
- Developed Annual Performance Measurement Report to track regular progress, report to policy makers, and serve as feedback loop for Plan objectives and strategies



## 2011 Progress Report

Annual check-up on meaningful progress towards reaching the region's transportation goals

- ↓ Accessibility
- ↑ Economic Vitality
- ↑ Climate Change/Energy Use
- ↑ Environment
- ↓ Place Making
- ↑ Public Health
- ↑ Safety & Security
- ↑ System Condition
- ↑ System Performance

# Accessibility: Level of Transit Service

Percent of Population within ½ Mile of Fixed Route Transit Service

	2000 Census*	% Within ½ Mile of Transit Routes	% Within ½ Mile of Transit Stops	2010 Census*	% Within ½ Mile of Transit Routes	% Within ½ Mile of Transit Stops
Total Population	1,724,051	56%	43%	1,862,808	51% ↓	37% ↓
Total Housing Units	719,277	60%	47%	807,291	56% ↓	42% ↓
Total Households	674,725	59%	46%	733,002	55% ↓	40% ↓

Source: US Census Bureau – 2000 and 2010 Census Data

# WHAT OUR REPORT SAYS

- Majority of measures are trending in the preferred direction
- Challenge areas related to accessibility and growth & development where expected:
  - HUD Sustainable Communities
  - TIGER, Transit AA Studies, etc.
- Intended to help inform discussion regarding strategies and priorities
- Full report is available: [www.marc.org/2040](http://www.marc.org/2040)

# LESSON LEARNED

- This is new territory. Surprise, we have data gaps!
- Local versus regional sensitivity
- Targets versus no targets (?)
- Solidify your foundation

# THANK YOU

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[www.marc.org](http://www.marc.org)  
 816-474-4240



The screenshot shows the Transportation Outlook 2040 website interface. At the top, there is a navigation menu with links for 'About', 'Creating the Plan', 'We've Heard', and 'Get Involved'. The main header features the organization's logo and the tagline 'Investing in our future'. Below the header, a breadcrumb trail reads 'MARC Home > 2040 > Transportation Outlook 2040'. A central banner area displays a grid of images related to transportation and a prominent 'CALL FOR PROJECTS 2009' message with a 'View nominated projects >>' link. To the right of this banner is a calendar for November 2009, with the 11th, 18th, 25th, and 26th highlighted. Below the main content, there are four columns of featured content: 'Welcome' with a 'MESSAGE FROM MELL', 'What We're Doing' with a 'CALL FOR PROJECTS' announcement, 'Get Involved' with a '2040 OPEN HOUSE' notice, and 'The Vision' with a 'HOW SHOULD WE GROW?' section. The bottom of the page shows a partial view of a 'FRAMING THE PLAN' section.