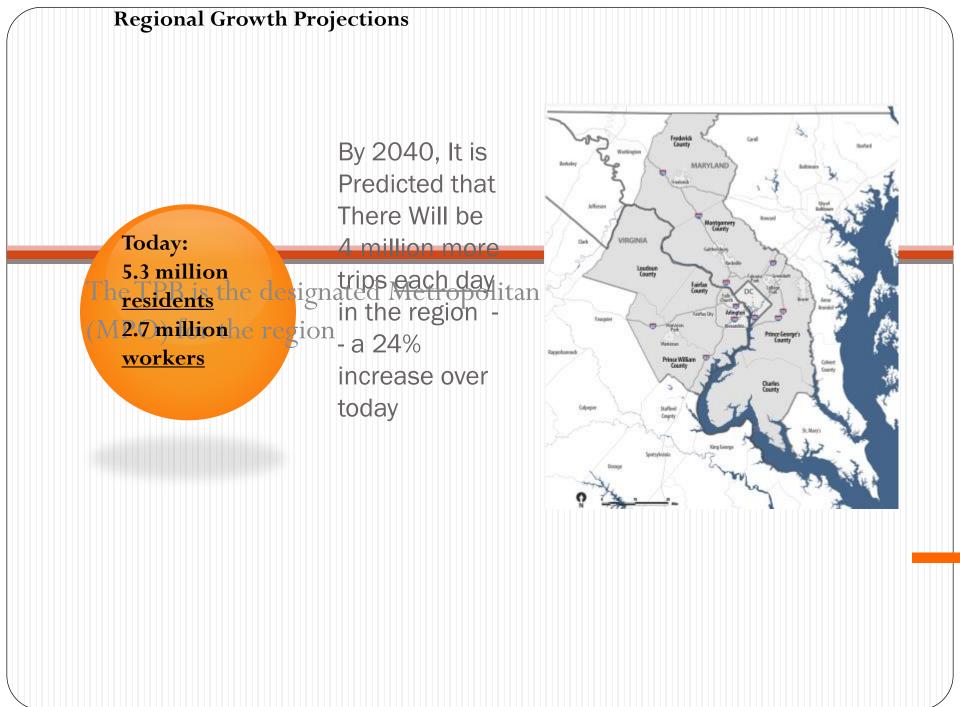
COMMUTER CONNECTIONS Y E A R S

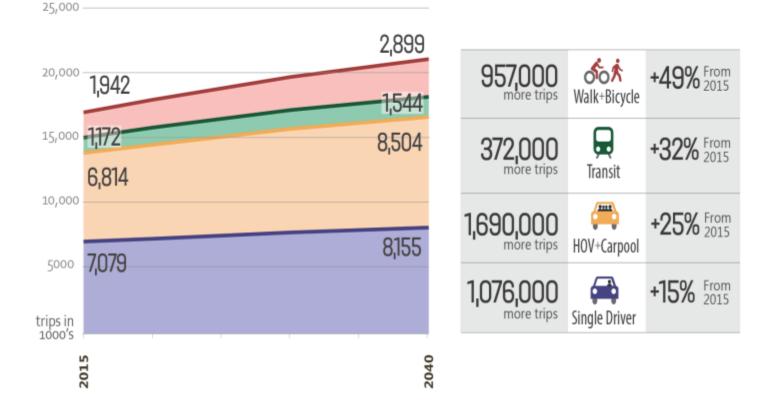
FY 2012 - 2014 Commuter Connections TERM Analysis Results

ITEM #2

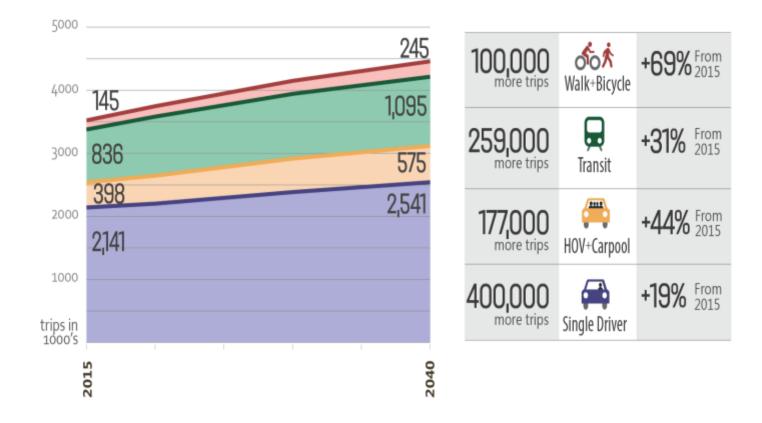
MWAQC Technical Advisory Committee January 13, 2015



Daily Travel – Trips By Mode



Daily Travel – Commute Trips By Mode



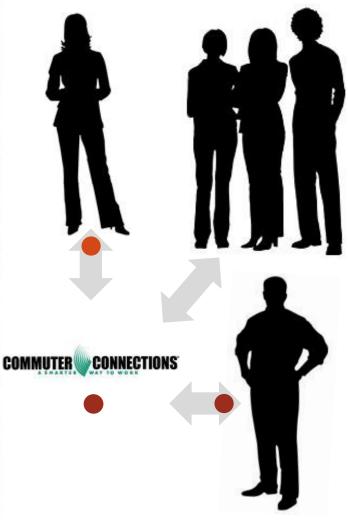
Regional Collaboration

Agree to how TDM programs can assist the region to meet congestion reduction and air quality goals. <u>Team</u> State Departments of Transportation Businesses/Federal Agencies Local governments Transportation Management Associations Transit operators

Vanpool providers Carshare/Bikeshare Services

Develop/Implement programs that will contribute to regional transportation and emission impacts.







TERM Evaluation Cycle

- » Evaluation Methodology "Blueprint"
- » Data Collection
- » Reports
- » Share Results
- » Incorporate into Regional Planning Process







Objective of Evaluation

- Apply methodology outlined in Evaluation Framework to:
- Estimate effectiveness of Commuter Connections TERMs
 - Telework
 - Guaranteed Ride Home
 - Employer Outreach
 - Mass Marketing



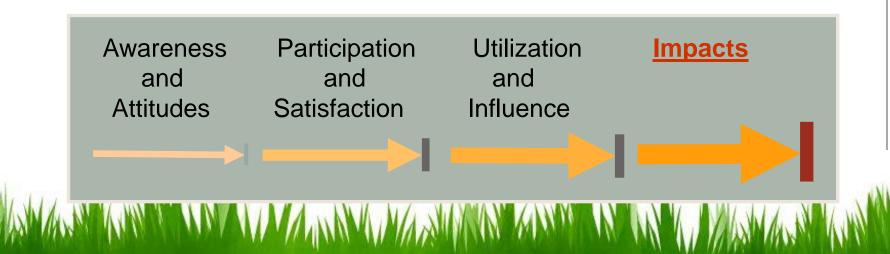
- Document results of Commuter Operations Center
- Adjust impacts for overlap among programs

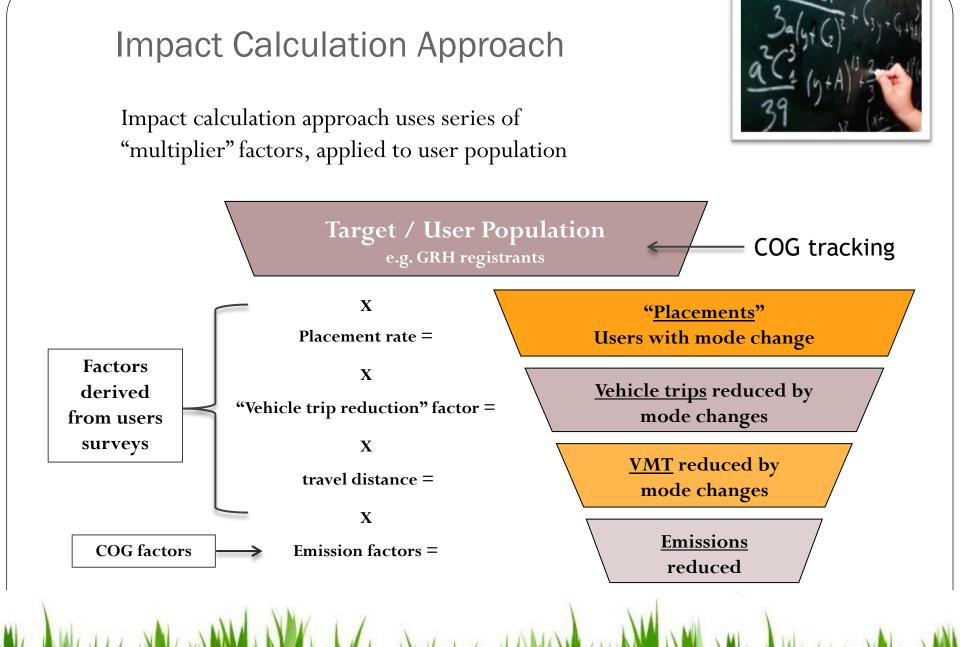
Performance Continuum

- <u>Awareness</u> modes/programs
- <u>Attitudes</u> willing to try modes
 - Participation services used
 - <u>Satisfaction</u> with programs
 - <u>Utilization</u> mode / travel changes
 - Influences motivations for change



Impacts of change (travel / AQ / energy)





Impacts for All TERMs + COC (Jul 2011 – Jun 2014)

Comparison of <u>collective goals</u> against <u>collective impacts</u>, including Commuter Operations Center

	<u>Goal</u>	Impact	<u>Net</u>	
Trips reduced	109,594	131,830	<u>22,236</u>	+20%
VMT reduced	2,162,400	2,473,326	<u>310,926</u>	+14%
NOx reduced	1.098 T	1.061 T	(0.037) T	- 3%
VOC reduced	0.654 T	0.533 T	(0.121) T	-19%

Met vehicle trip and VMT goals

Shortfall in emission goals due to reduced emission factors for 2015 (cleaner cars) and shift to MOVES emission model

TERM Analysis Observations

The <u>four TERMs</u> met the collective goals for both vehicle trips (+10%) and VMT reduced (+6%)

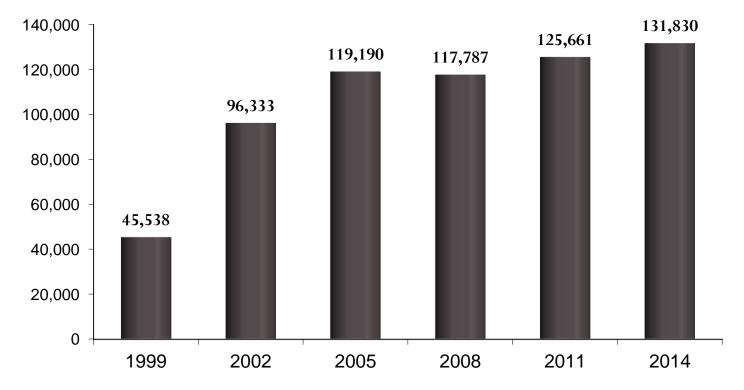


<u>CC programs overall</u> (TERMs + COC)

exceeded the VT reduction goal (+20%) and VMT goal (+14%)

TERMs did not meet emissions goals, but this was due to a change in the emission model (MOVES) and reductions in the 2014 emission factors, compared to the factors used when the goals were established in 2005

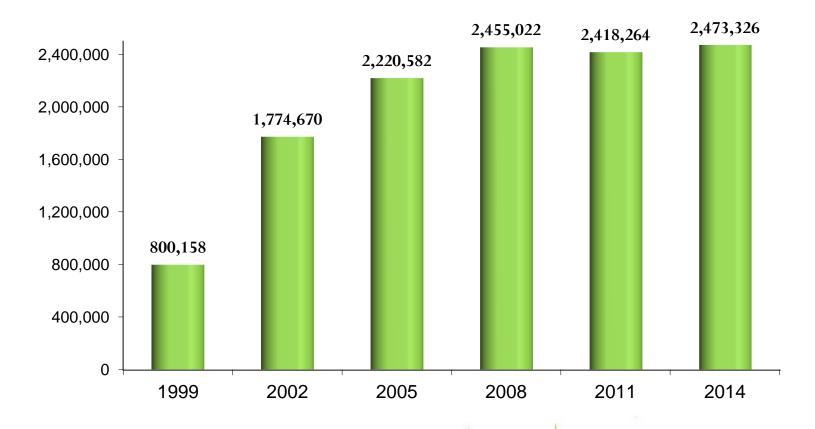
Commuter Connections Vehicle Trip Reduction – 1999 to 2014



Daily Vehicle Trips Reduced

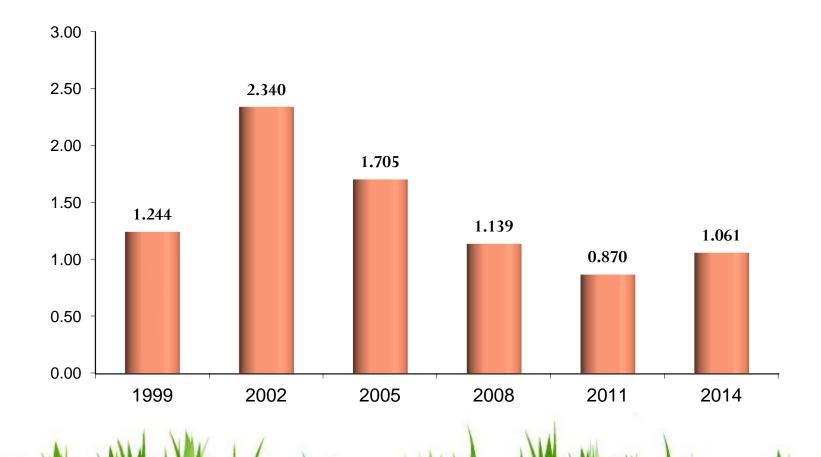
Commuter Connections VMT Reduction – 1999 to 2014

Daily VMT Reduced



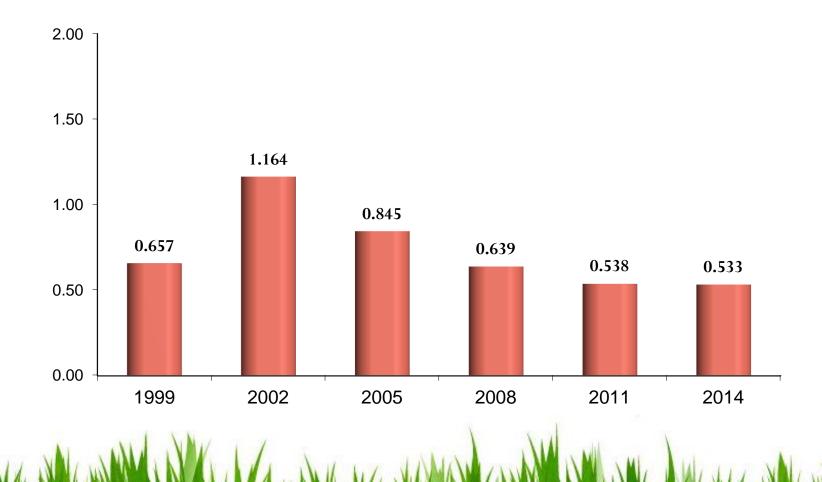
Commuter Connections NOx Reduced (daily tons) – 1999 to 2014

Daily tons NOx Reduced

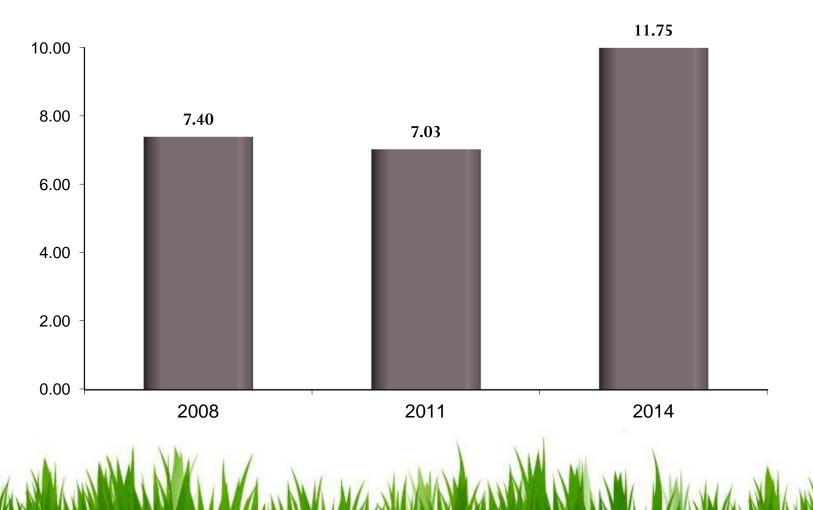


Commuter Connections VOC Reduced (daily tons) – 1999 through 2014

Daily tons VOC Reduced



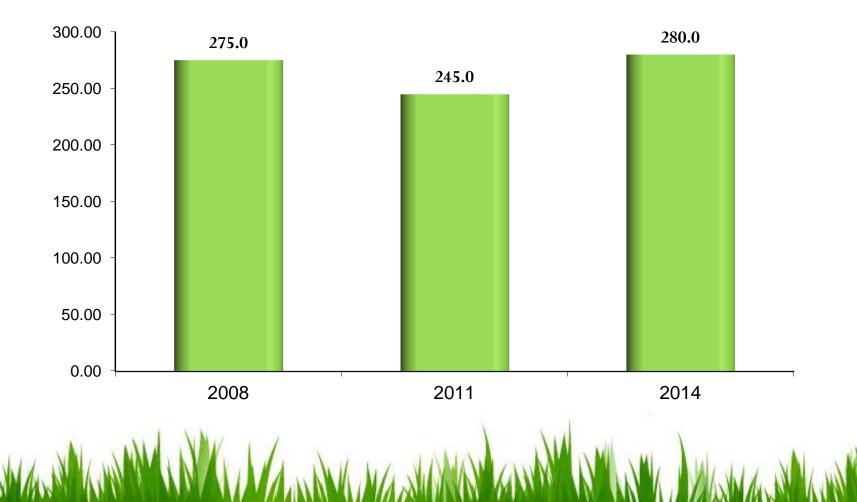
PM 2.5 Reduced (annual tons) – 2008 to 2014 Commuter Connections TERMs + Commuter Operations Center



Annual tons PM 2.5 Reduced

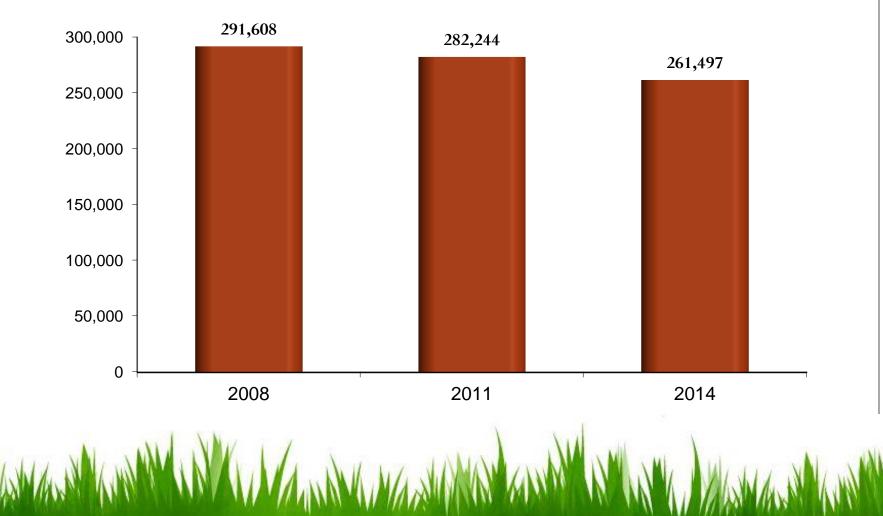
Precursor NOx Reduced (annual tons) – 2008 to 2014 Commuter Connections TERMs + Commuter Operations Center

Annual tons PM 2.5 Precursor NOx Reduced



CO2 Reduced (annual tons) – 2008 to 2014 Commuter Connections TERMs + Commuter Operations Center

Annual tons CO2 – Greenhouse Gases Reduced



Next Steps

- Report Endorsement
- Report Publication and Release
- Program Cost Effectiveness Calculation
- Integrate results into regional air quality conformity determination and Congestion Management Process



Questions?

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