

Nashville Area Metropolitan Planning Organization Regional Bicycle and Pedestrian Study

Bicycle and Pedestrian Advisory Committee Meeting #5

September 21, 2009



*Varallo Public
Relations*

Purpose of Today's Meeting

- **Results from the Regional Bicycle & Pedestrian Pilot Count Program**
- **Study Recommendations**
 - Project Evaluation System
 - Regional Sidewalk & Bikeway Recommendations
 - Policies & Programs
 - Funding for Sidewalk and Bikeway Improvements
 - Pulling It All Together
- **Regional Items of Discussion**
 - MPO BPAC Continuation
 - State Route 109 Widening Project
- **Discuss Next Steps**

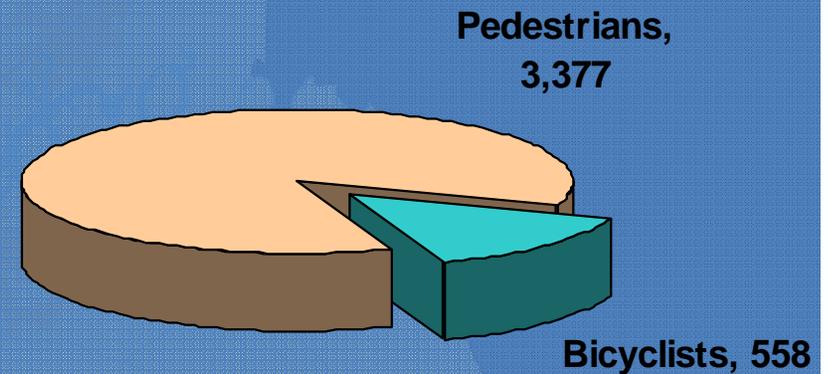
Regional Bicycle & Pedestrian Count Program Results

- **23 Locations Counted**
 - 11 Davidson
 - 3 Rutherford, Sumner, Williamson, Wilson
- **Location Types**
 - Intersections
 - Sidewalks/Bike Routes
 - Greenways
- **42 Volunteers**
- **2 Hours AM, 2 Hours PM**



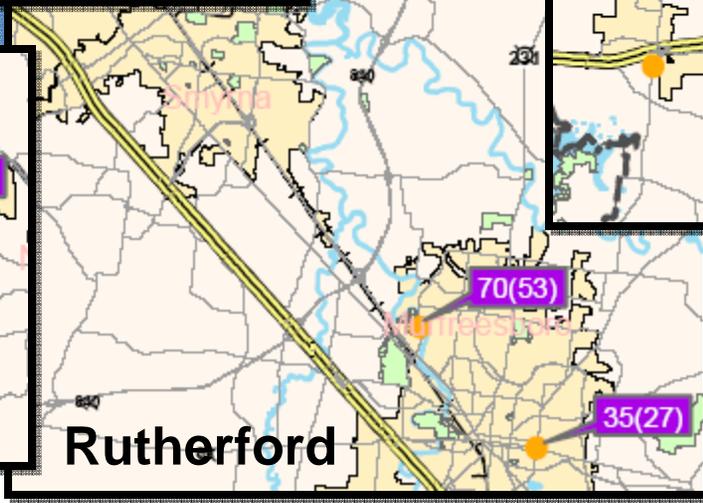
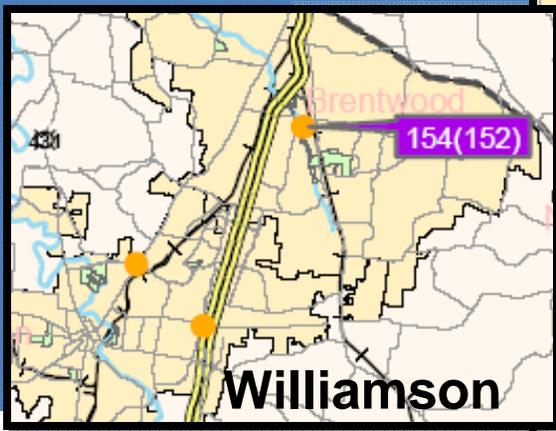
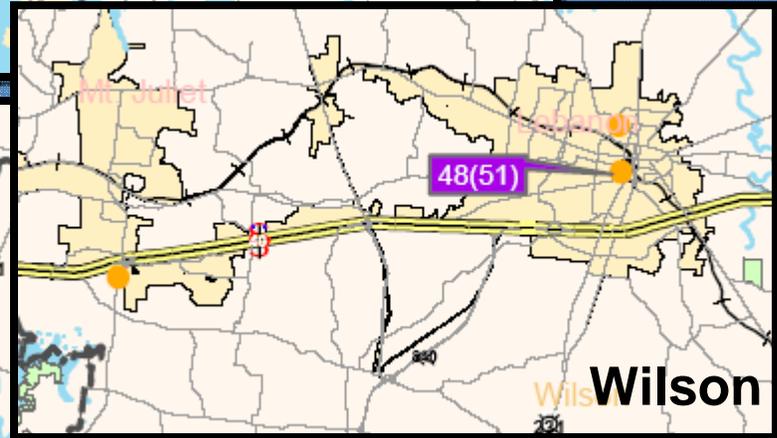
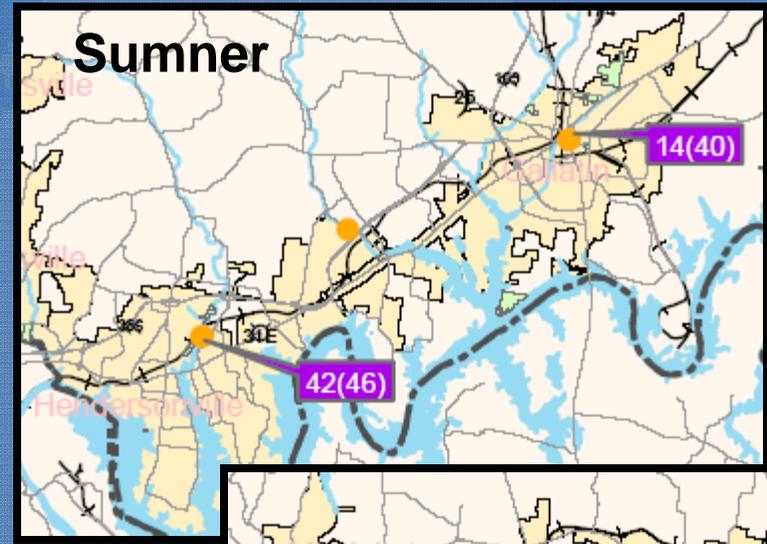
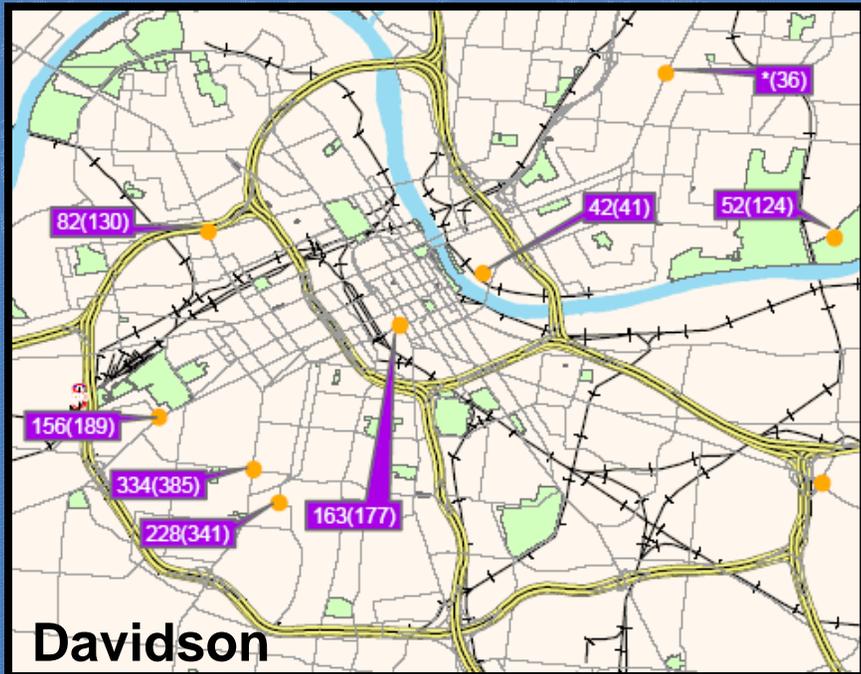
Regional Bicycle & Pedestrian Count Program Results

- Nearly 4,000 people counted
- Greenways = 24%
- 16 Locations > 25 Pedestrians
- 12 Locations > 10 Bicyclists



Intersection	AM Pedestrians	AM Bicyclists	PM Pedestrians	PM Bicyclists
21 st Ave & Blakemore Ave	334	40	385	39
Trailhead behind YMCA on Concord Road	154	22	152	41
Stones River Greenway near Thompson Lane	70	15	53	2

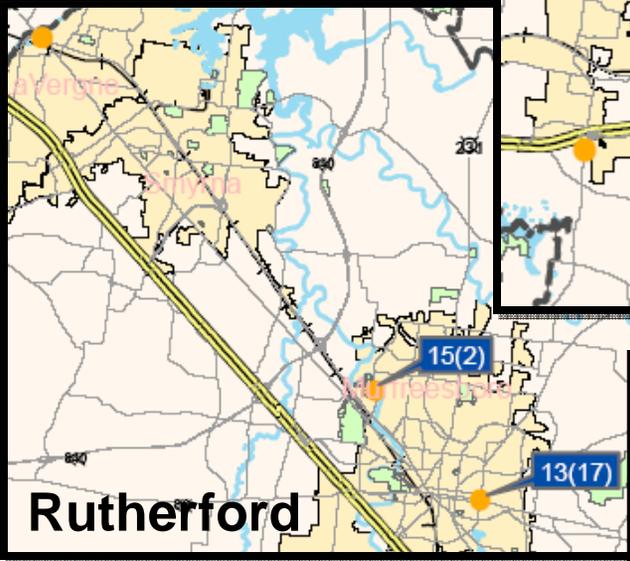
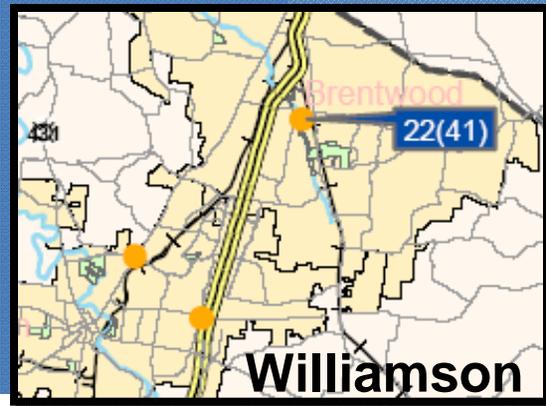
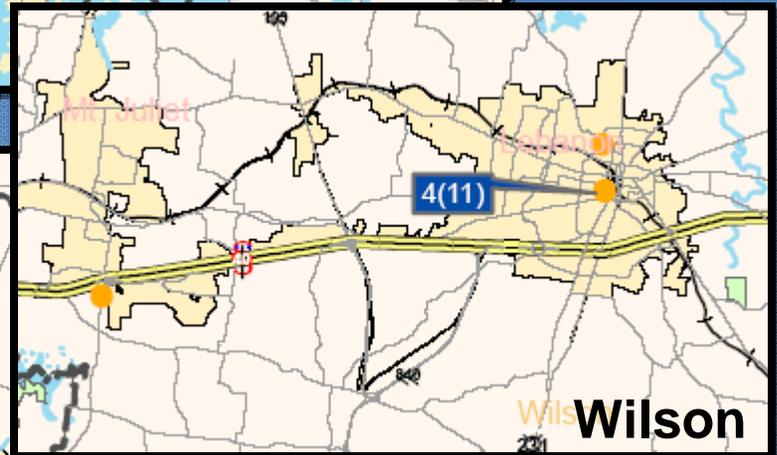
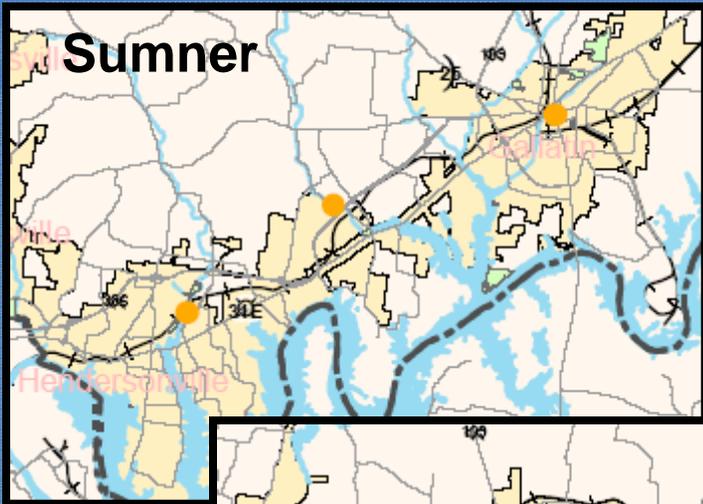
2009 Pedestrian Counts



Legend

- Ped Bike Cts
- Arterials & Collectors
- Interstate
- 1(1) Pedestrian Counts [AM(PM)]
- Parks
- County Boundaries
- Bodies of Water
- +— Railroad
- MPO Planning Boundary
- City Limits

2009 Bicyclist Counts



Legend

- Ped Bike Cts
- Arterials & Collectors
- Interstate
- 1(1) Bicycle Counts [AM(PM)]
- Parks
- County Boundaries
- Bodies of Water
- +— Railroad
- MPO Planning Boundary
- City Limits

Study Recommendations

Key Highlights

- ✓ Project Evaluation System
- ✓ Regional Sidewalk & Bikeway Recommendations
- ✓ Policies & Programs
- ✓ Funding for Sidewalk and Bikeway Improvements



Project Evaluation System

Key Highlights

- ✓ Creates a Process & Structure
- ✓ Data Driven
- ✓ Linked to Planning Process
- ✓ Flexible



Project Evaluation System

County	Connectivity	Safety	Access "Demand"	Address Congestion	Cost	Community Goals	Health
Davidson	52	40	34	15	6	5	15
Williamson	30	20	25	6	4	9	6
Rutherford	21	12	7	3	10	8	3
Wilson	25	6	8	0	2	2	2
Sumner	20	13	14	1	4	10	4
BPAC	17	10	16	3	5	4	9
Public Total	148	91	88	25	26	34	30
Grand Total	165	101	104	28	31	38	39

County	Connectivity	Safety	Access "Demand"	Address Congestion	Cost	Community Goals	Health
Davidson	31%	24%	20%	9%	4%	3%	9%
Williamson	30%	20%	25%	6%	4%	9%	6%
Rutherford	33%	19%	11%	5%	16%	13%	5%
Wilson	56%	13%	18%	0%	4%	4%	4%
Sumner	30%	20%	21%	2%	6%	15%	6%
BPAC	27%	16%	25%	5%	8%	6%	14%
Public	33%	21%	20%	6%	6%	8%	7%
Total	33%	20%	21%	6%	6%	8%	8%



Project Evaluation System

Two Evaluation Tools

- ✓ On-Road Facilities (Sidewalk & Bikeway)
- ✓ Off-Road Facilities (Greenways)



Project Evaluation System

On-Road Criteria

- ✓ Bicycle & Pedestrian Level of Service (BLOS/PLOS)
- ✓ Non-Motorized Demand
- ✓ Connectivity
- ✓ Safety
- ✓ Congestion Mitigation
- ✓ Community Goals
- ✓ Health Impact



Project Evaluation System

Off-Road Criteria

- ✓ Non-Motorized Demand
- ✓ Connectivity
- ✓ Community Goals
- ✓ Health Impact



Sidewalk & Bikeway Recommendations

Key Highlights

- ✓ Regional Sidewalk Accommodations
- ✓ Regional Bikeway Network



Regional Sidewalk Accommodations

Key Highlights

- ✓ Arterial Roadways throughout the Region
- ✓ Linked to Urban Growth Boundary of MPO Region

County	Existing Sidewalks (Miles)	New Sidewalks (Miles)	Total Sidewalk System	Percent Sidewalks Built
Davidson	167	223	390	43%
Rutherford	31	110	141	22%
Sumner/Robertson	16	162	178	9%
Williamson/Maury	30	88	118	25%
Wilson	8	79	87	9%
Total	252	662	914	28%

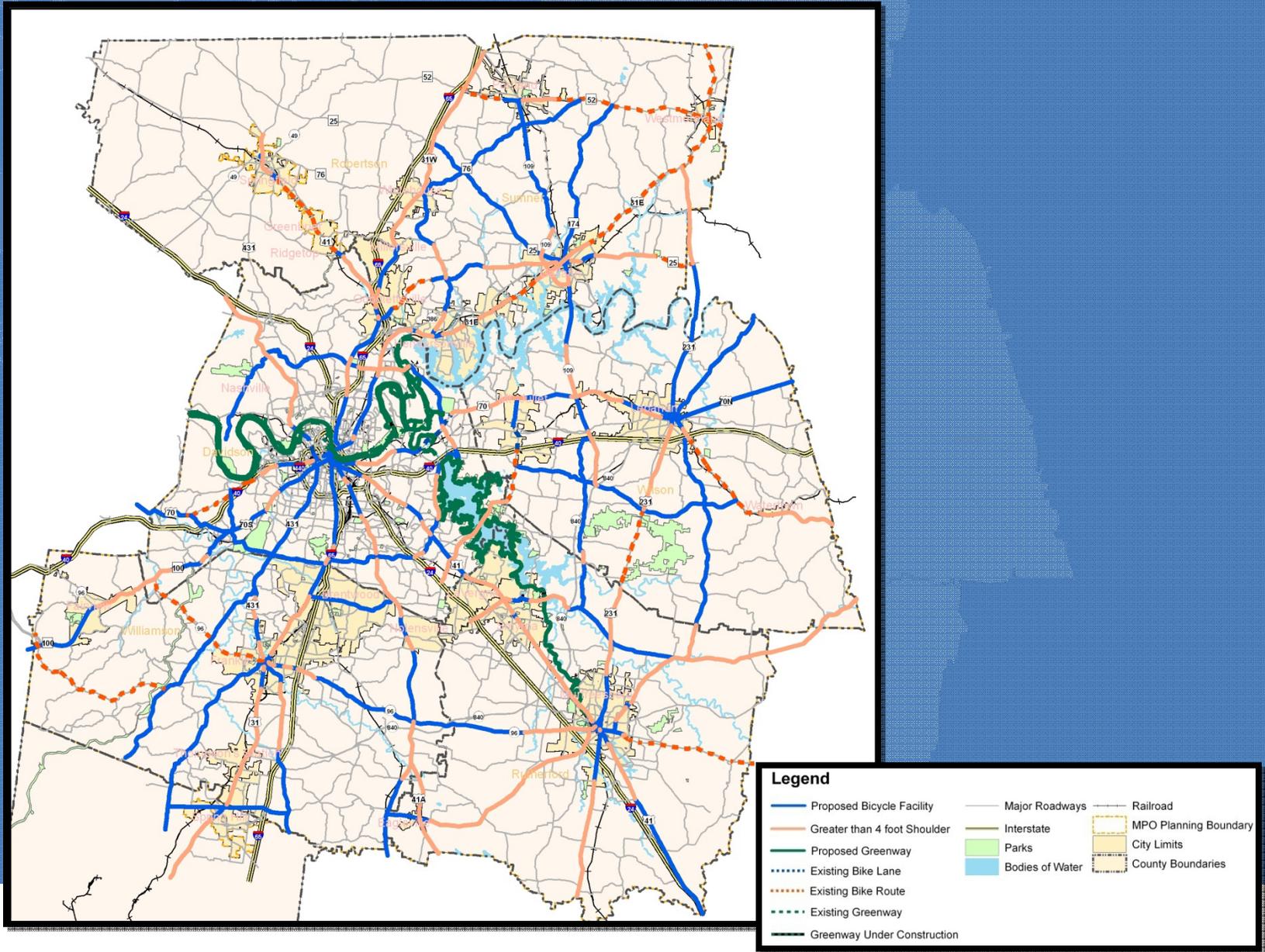
Regional Bikeway Network

Key Highlights

- ✓ The proposed Regional Bikeway Network serves to provide bicycle accommodations along major commuting corridors and corridors that connect communities, activity centers, transit, and major destinations throughout the region.
- ✓ Consists largely of on-street facilities but also includes the Cumberland River Greenway in Davidson County and the Stones River Greenway of Davidson & Rutherford Counties.
- ✓ The Regional Bikeway Network consists of 1,127 miles traversing the complete region.



Regional Bikeway Network



Regional Bikeway Network

Key Highlights

- ✓ 1,127 Miles of On- and Off-Road Accommodations
- ✓ 160 Miles Currently Exist
- ✓ 284 Miles With 4 Foot of Paved Shoulder (Currently)

County	Existing Facilities		Proposed Facilities			Total Bicycle Network (Miles)
	On-Street (Signed)	Off-Street (Greenway)	On-Street > 4 Ft PS (Sign)	On-Street < 4 Ft PS (Pave & Sign)	Off-Street (Greenway)	
Davidson	15	25	62	136	174	412
Rutherford	11	5	90	56	16	178
Sumner/Robertson	58	0	62	86	0	206
Williamson/Maury	24	0	31	122	0	177
Wilson	22	0	39	93	0	154
Regional Total	130	30	284	493	190	1,127

Policies & Programs

Key Highlights

- ✓ Focused Around the Four Strategic Objectives:
 - Provide Facilities
 - Build Support
 - Create Policies & Programs
 - Increase Awareness



Policies & Programs

Key Highlights

- ✓ Regional Bikeway Network
- ✓ Regional Sidewalk Accommodations Policy
- ✓ Maintenance & Spot Improvement Program
- ✓ School Siting Policy
- ✓ Website & Maps
- ✓ Annual Regional Summit on Walking & Biking
- ✓ Annual Bicycle and Pedestrian Count Program
- ✓ Complete Streets Policy
- ✓ Outreach, Training, & Enforcement Programs



Funding

Key Highlights

- ✓ Recommended Funding Level
- ✓ Funding Toolbox



Funding

Key Highlights

- ✓ Review of Historic Funding Levels for Sidewalk & Bikeway Improvements in the MPO Area
 - \$14.37 Million Annual Average
 - 81 Percent Discretionary
 - 84 Percent Toward Greenways

Funding Program	Source	Amount	Percent
Surface Transportation Program (STP) Funds	Federal	\$ 2,242,481	3%
Congestion Mitigation & Air Quality (CMAQ) Funds	Federal	\$10,693,005	12%
Transportation Enhancement (TE) Funds	Federal	\$14,713,016	17%
High Priority Project (HPP) Funds	Federal	\$53,550,054	62%
Demonstration (DEMO) Funds	Federal	\$ 1,657,614	2%
Transportation, Community, & System Preservation (TCSP) Funds	Federal	\$ 250,000	0.3%
American Recovery & Reinvestment Act (ARRA) Funds	Federal	\$ 3,124,724	4%
	Total	\$86,230,894	100%

Funding

Key Highlights

- ✓ Recommendations Cost

County	Existing Sidewalks (Miles)	Proposed Sidewalks (Miles)	Proposed Sidewalks Total Cost
Davidson	167	223	\$ 50 Million
Rutherford	31	110	\$ 25 Million
Sumner/Robertson	16	162	\$ 36 Million
Williamson/Maury	30	88	\$ 20 Million
Wilson	8	79	\$ 18 Million
Total	252	662	\$149 Million

County	Proposed Facilities			Total Cost (Rounded)
	On-Street > 4 Ft PS (Sign)	On-Street < 4 Ft PS (Pave & Sign)	Off-Street (Greenway)	
Davidson	\$0.087 Million	\$ 126 Million	\$173 Million	\$ 299 Million
Rutherford	\$0.126 Million	\$ 52 Million	\$ 16 Million	\$ 68 Million
Sumner/Robertson	\$0.087 Million	\$ 79 Million	-	\$ 79 Million
Williamson/Maury	\$0.044 Million	\$ 112 Million	-	\$ 112 Million
Wilson	\$0.055 Million	\$ 86 Million	-	\$ 86 Million
Regional Total	\$0.399 Million	\$453 Million	\$189 Million	\$ 644 Million

Funding

Key Highlights

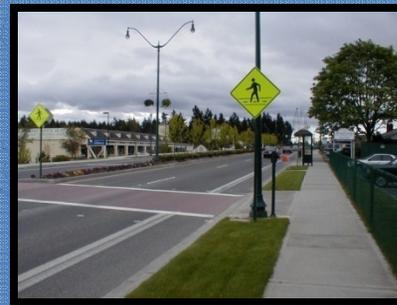
- ✓ Funding Gap & Recommended Funding Level

Funding Level	Annually	25 Year Horizon	Study Recommendations	Funding Gap
Current	\$14.37 Million	\$359 Million	\$793 Million	\$433 Million
2.21 Times Current Level	\$31.70 Million	\$793 Million	\$793 Million	-

Funding

Key Highlights

- ✓ Funding Toolbox
 - 33 Different Funding Programs
 - 21 Federal Programs
 - 5 State & Local Sources
 - 7 Private Sources



Regional Bicycle & Pedestrian Study

Pulling It All Together

- ✓ Stand-Alone Summary Document
- ✓ MPO's Long Range Plan
- ✓ Project Roll-Out



Regional Items of Discussion

- ✓ **MPO BPAC Continuation**
- ✓ **State Route 109 Widening Project**

Next Steps

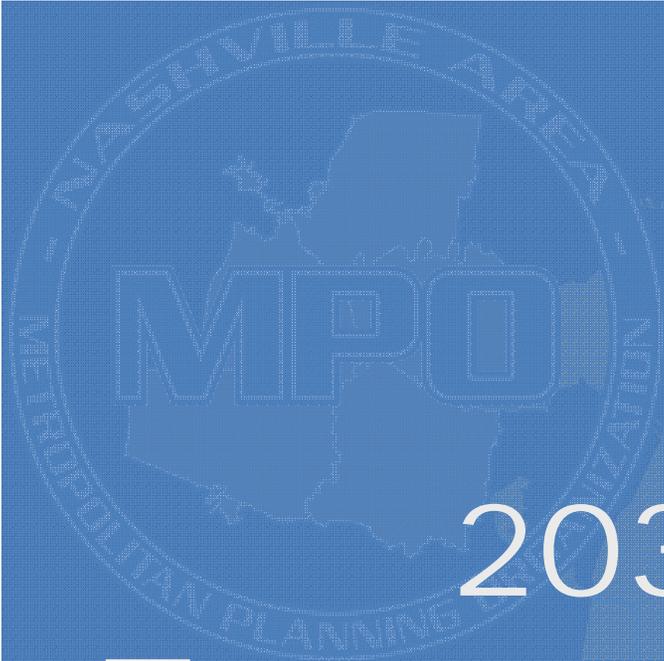
✓ Project Roll-Out (Week of October 5th)





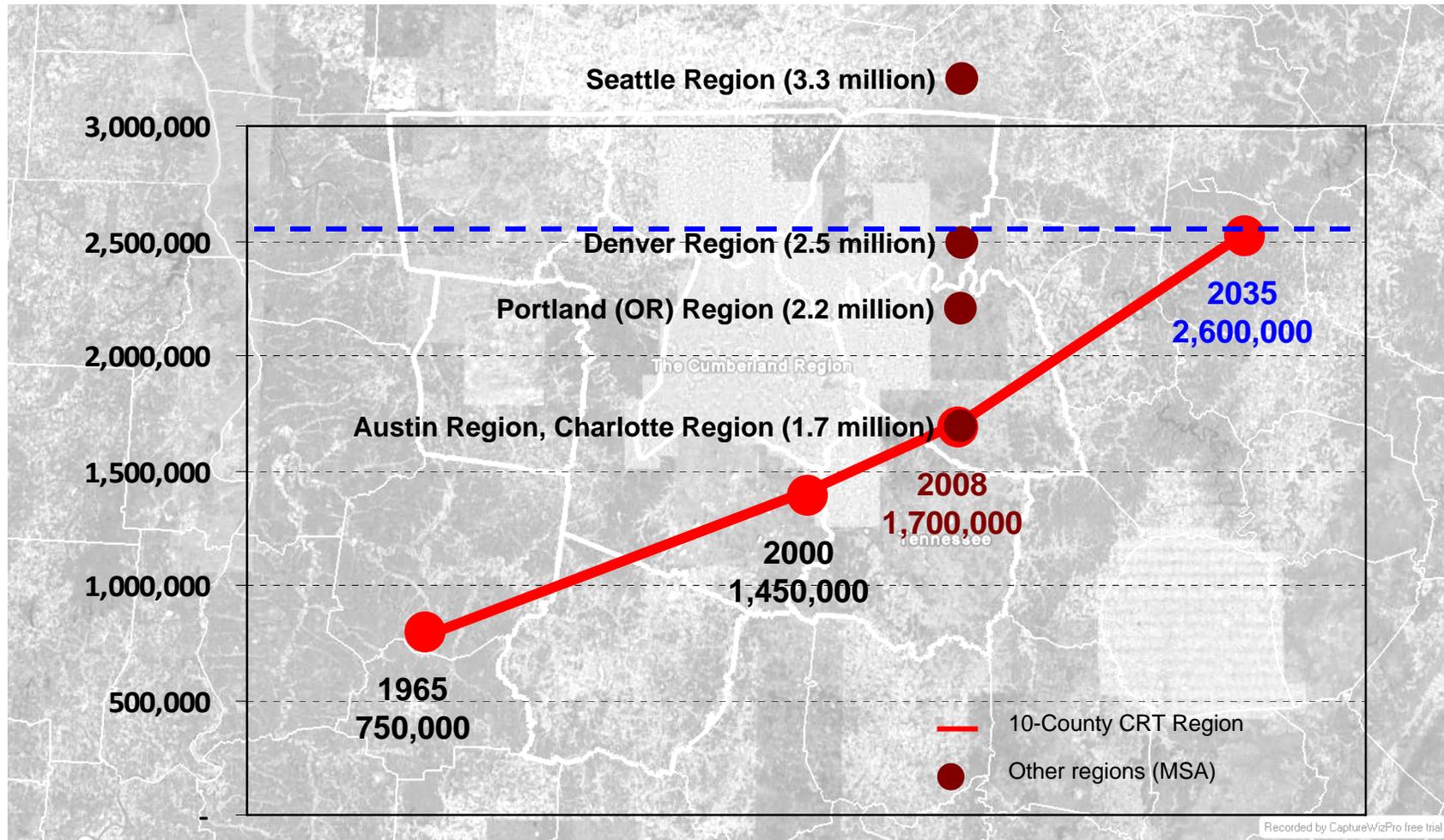
Thank you!





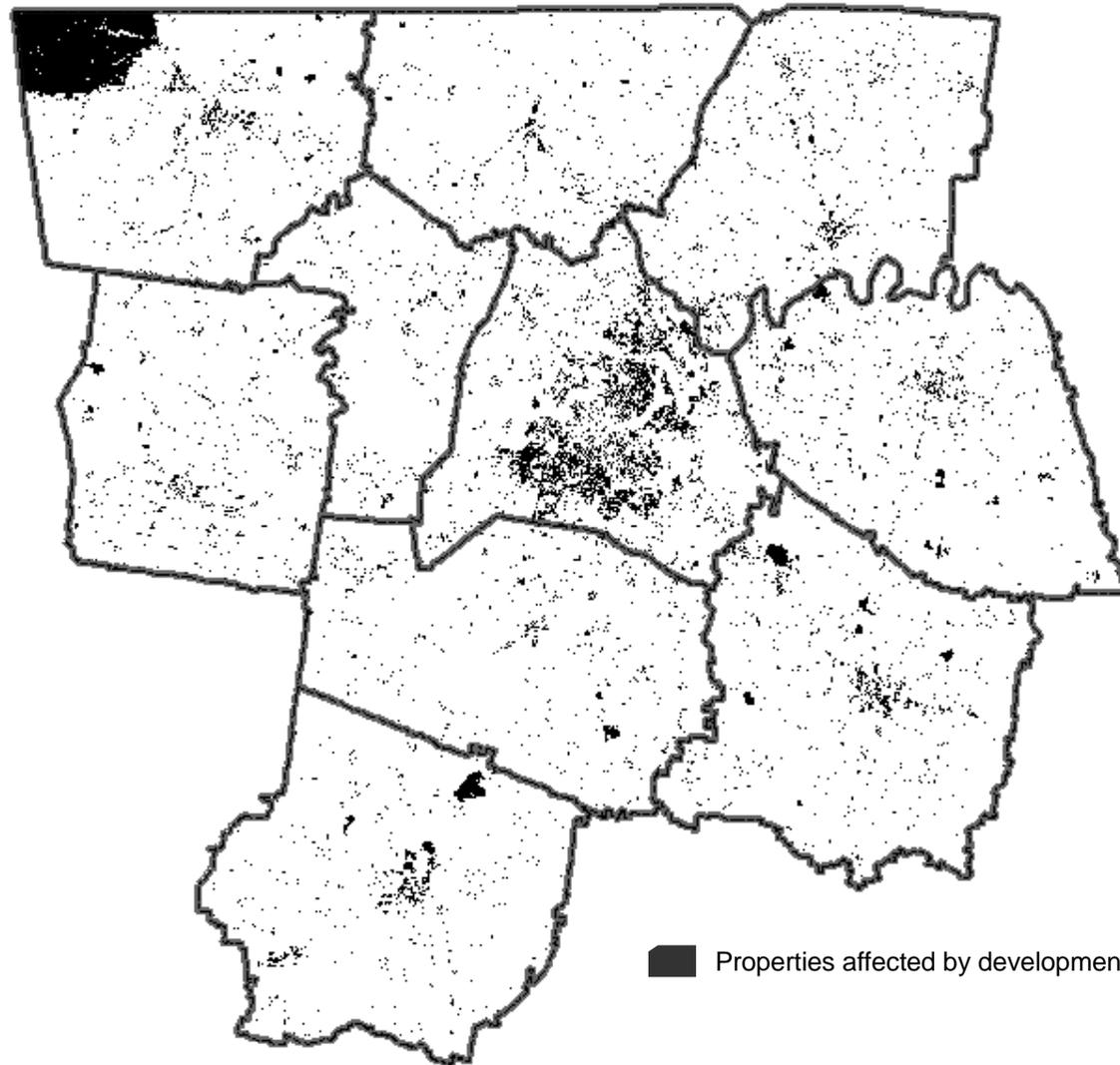
2035 Regional Transportation Planning Overview

Regional Population Growth

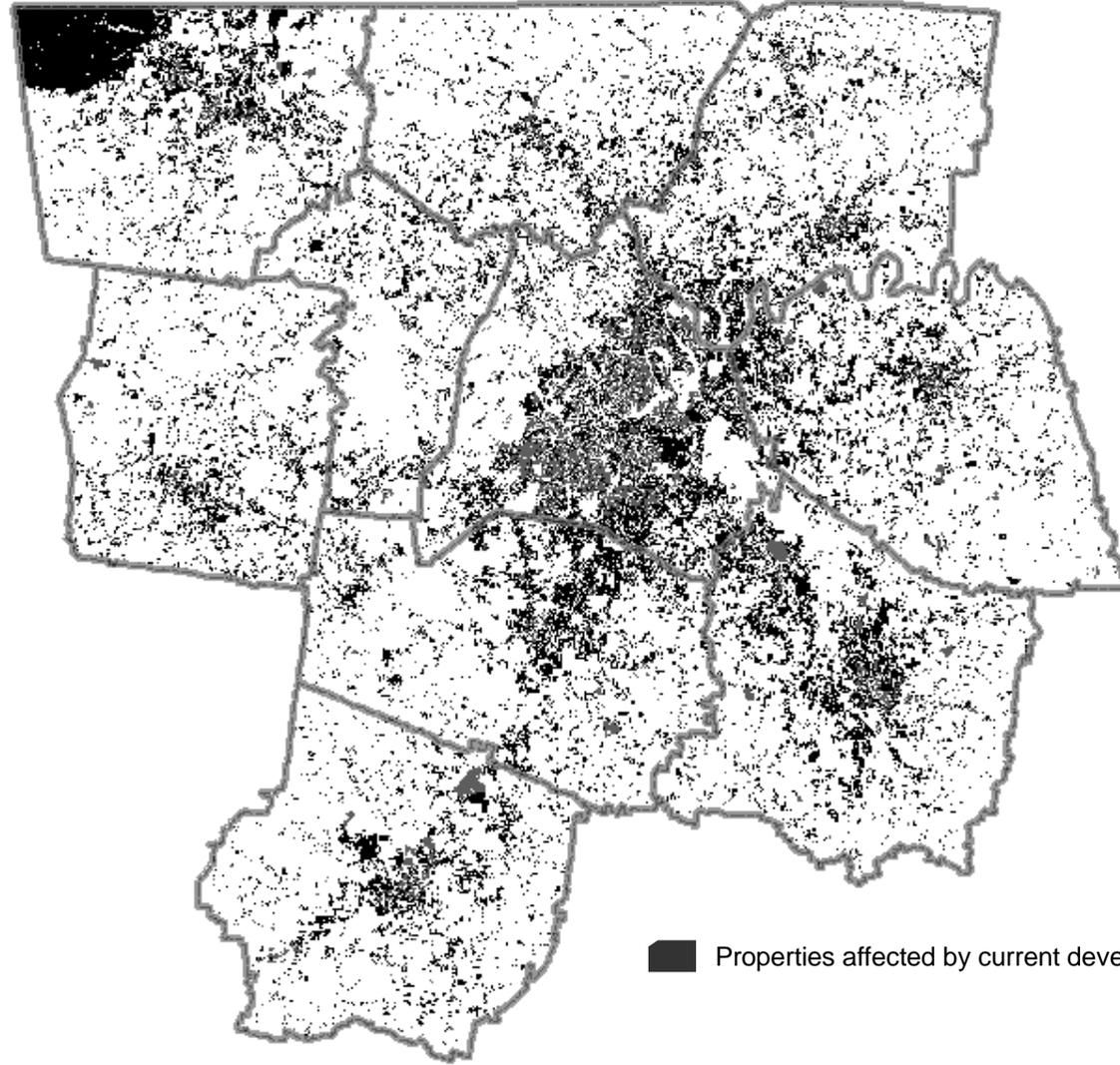


Source: U.S. Census Bureau, Woods & Poole Economics

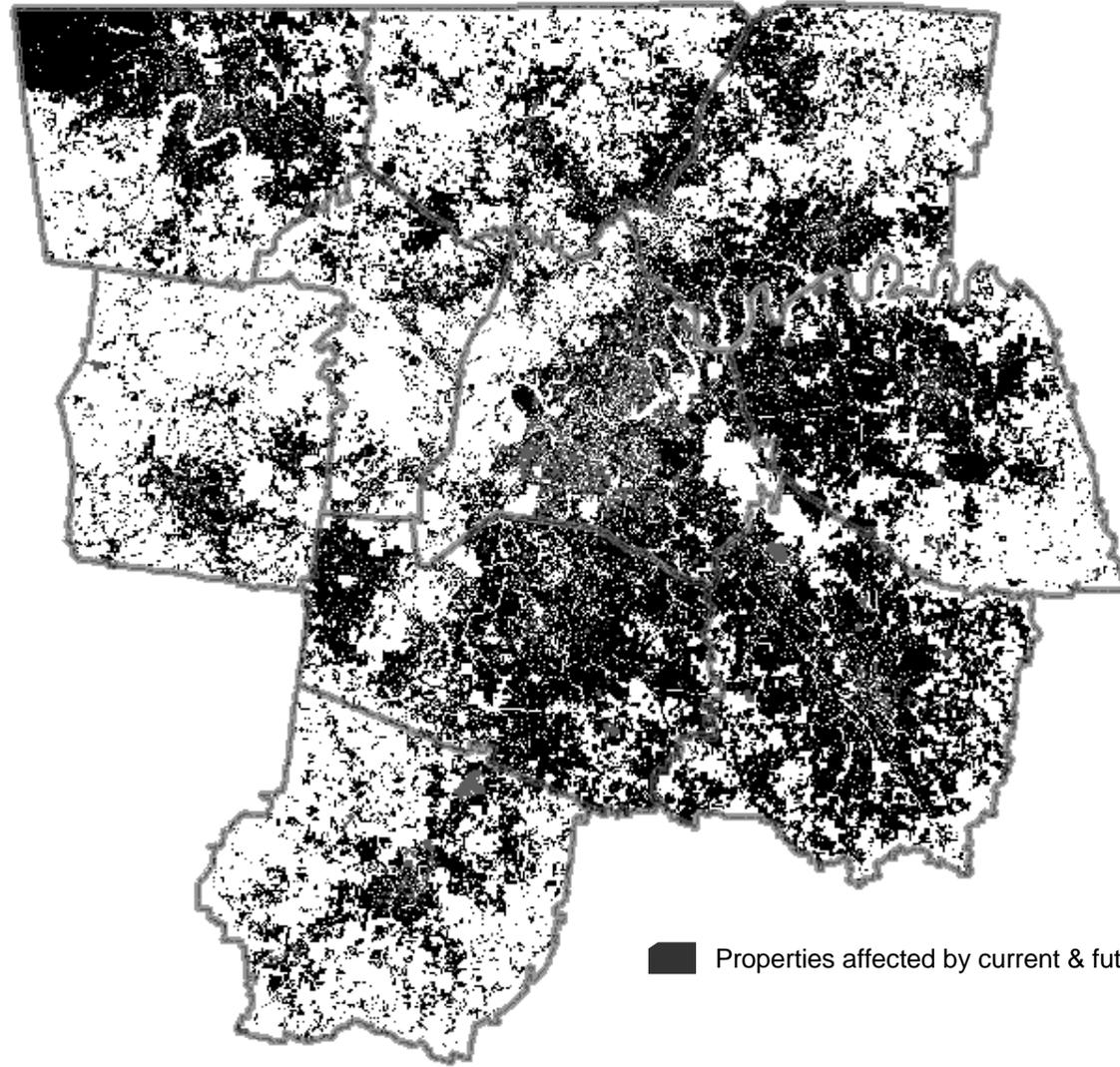
1965 DEVELOPMENT PATTERN



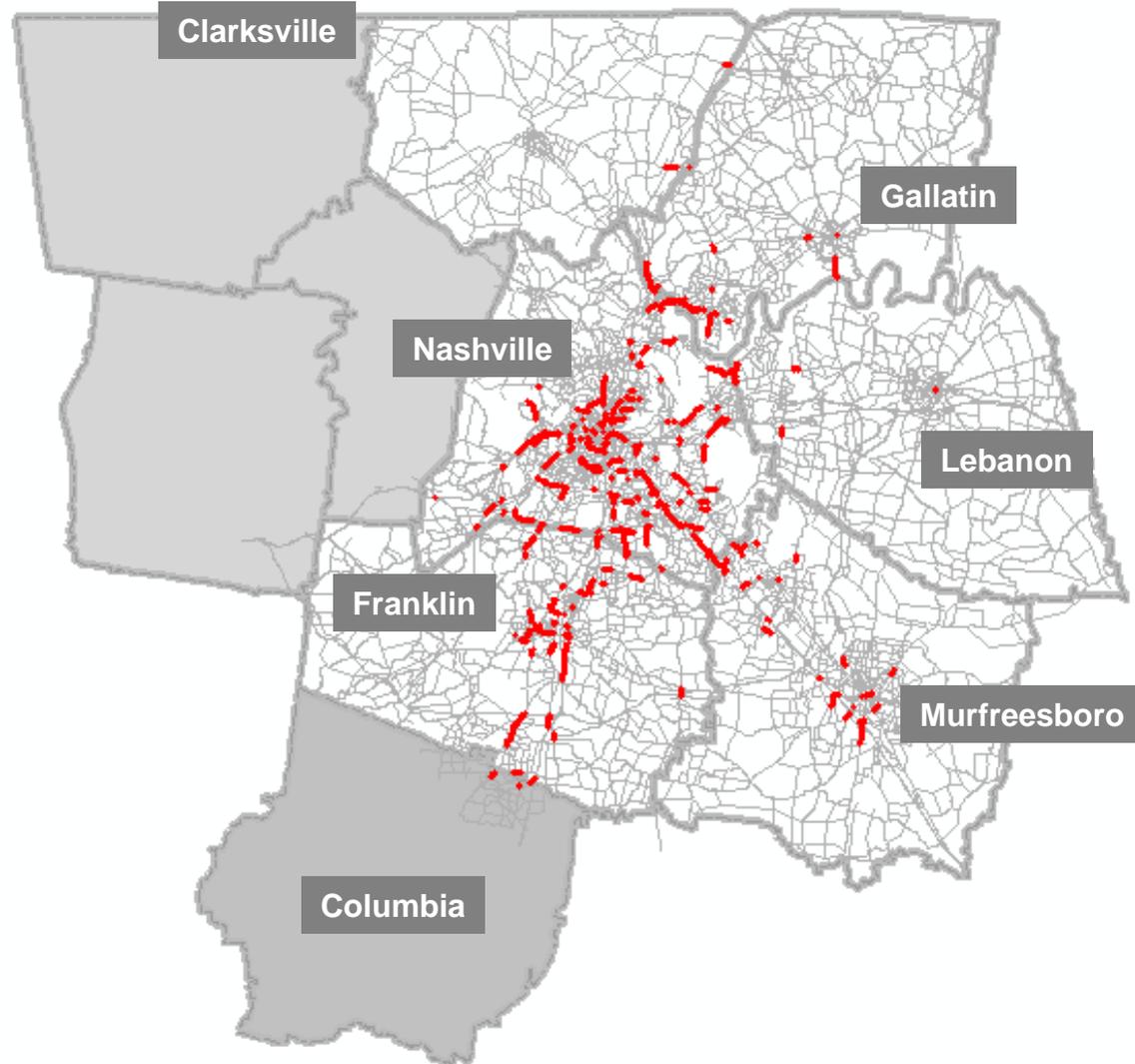
2008 DEVELOPMENT PATTERN



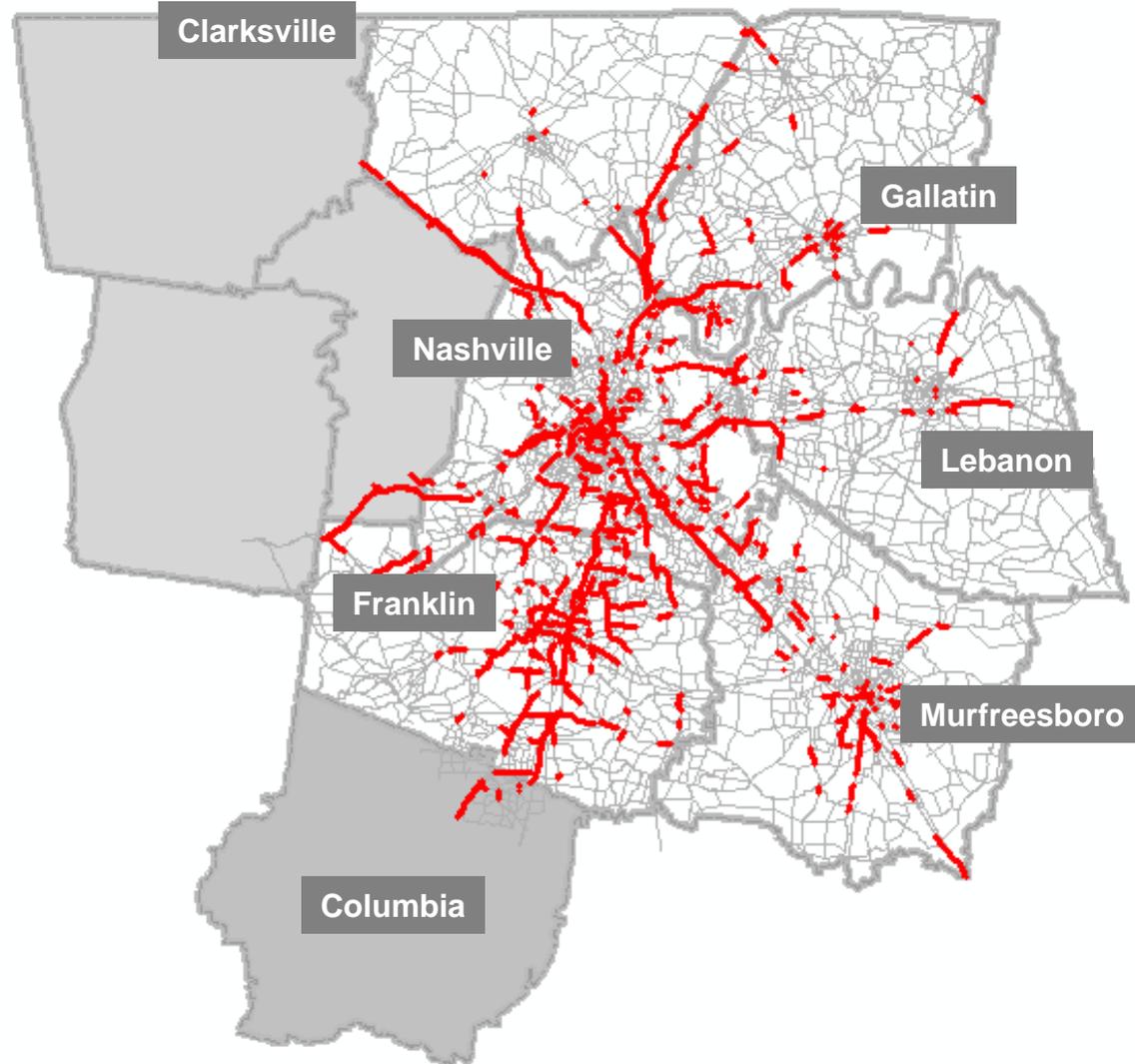
2035 DEVELOPMENT PATTERN?



2008 Congestion



2035 Congestion



Emerging Challenges

- ▶ **Unmanageable Congestion**
- ▶ **Longer Travel Times & Trip Lengths**
- ▶ **Increasing Energy Consumption / Costs**
- ▶ **Declining Air & Water Quality**
- ▶ **Aging Population/ Dispersed Families**
- ▶ **Worsening Personal Health / Increasing Costs**
- ▶ **Lost Habitat / Natural Areas**
- ▶ **Unsustainable Costs/ Revenue Sources**
- ▶ **Lack of Housing Choice**

Regional Opportunities

- ▶ Improved integration among transportation, land use, urban design, rural preservation, and economic development policies.
- ▶ Increased coordination among local comprehensive plans.
- ▶ More and better transportation options represented in the regional plan.
- ▶ More reliable approach to funding alternative (particularly transit) options.

2030 Plan Overview

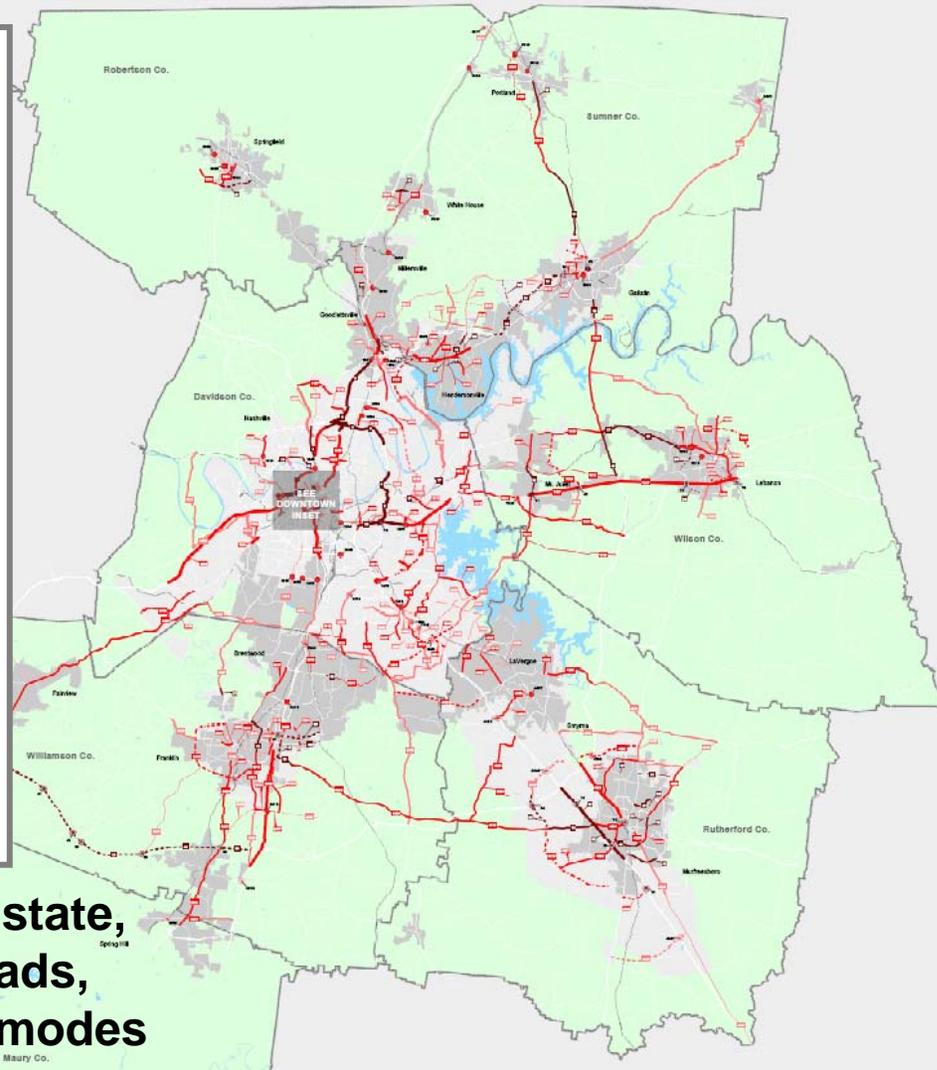


Nashville Area
Metropolitan Planning
Organization

2030
Long Range
Transportation Plan

Adopted October 19, 2005
Amended: June 21, 2006
Amended: November 14, 2007

Nashville Area Metropolitan Planning Organization
800 Second Avenue South, Nashville, Tennessee 37201
Website: www.nashvillempo.org
E-mail: contact@nashvillempo.org

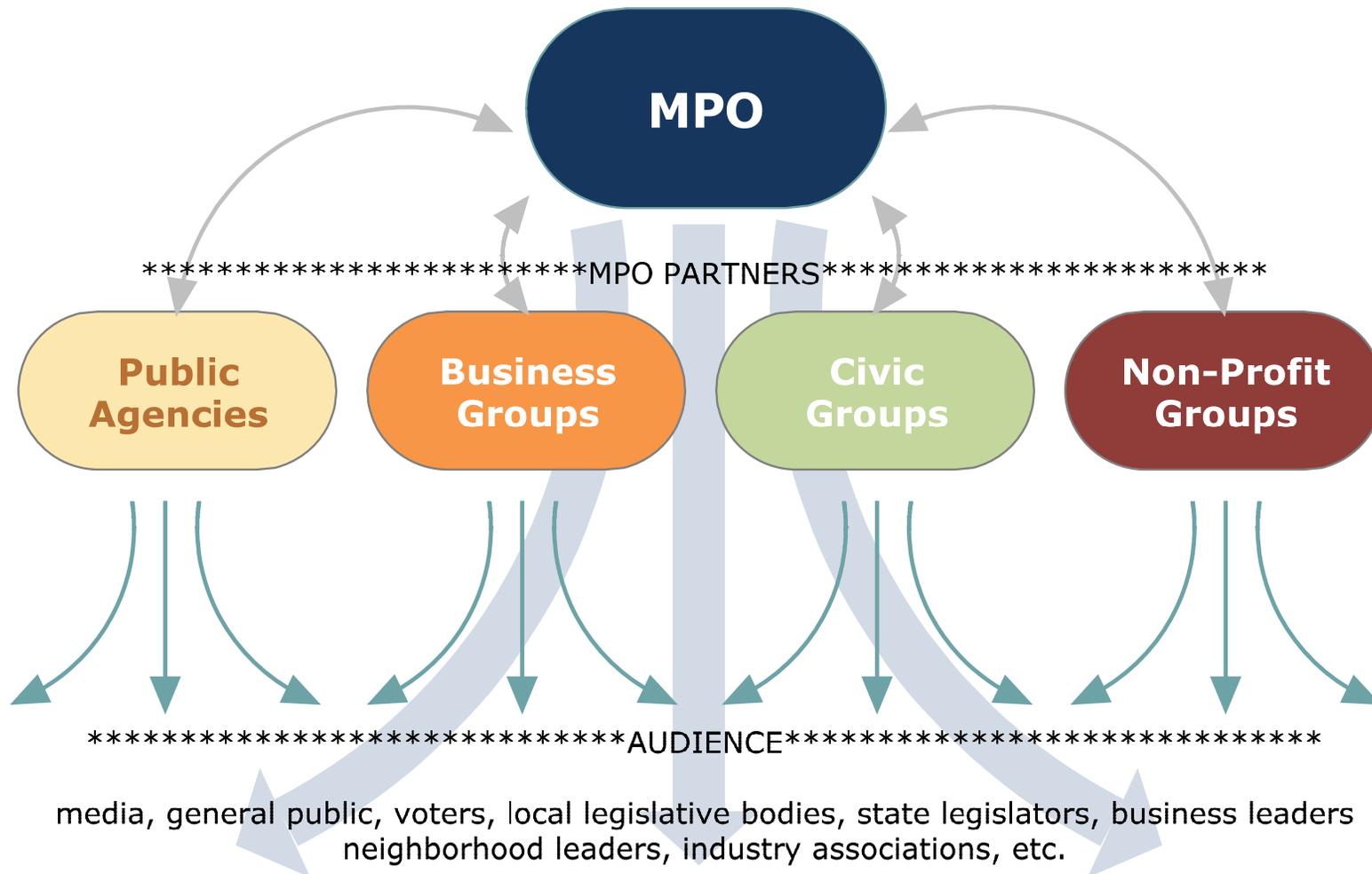


**Nearly \$4 Billion in federal, state,
and local investments in roads,
transit, and non-motorized modes**

Major Public Outreach

- **MPO Re-Branding**
 - New Logo, Website, and Collateral Materials
 - Attitudes & Awareness Research
- **New Communication Tools**
 - Professional Video Production
 - 3-D Visualizations
 - Project Renderings
 - Computer Simulations
 - Social Networking/ Media
- **New Partnerships/ Plan Co-Authors**
 - Local Community Resources – K-12 schools, universities, chambers of commerce, Nashville Civic Design Center, Cumberland Region Tomorrow, etc.

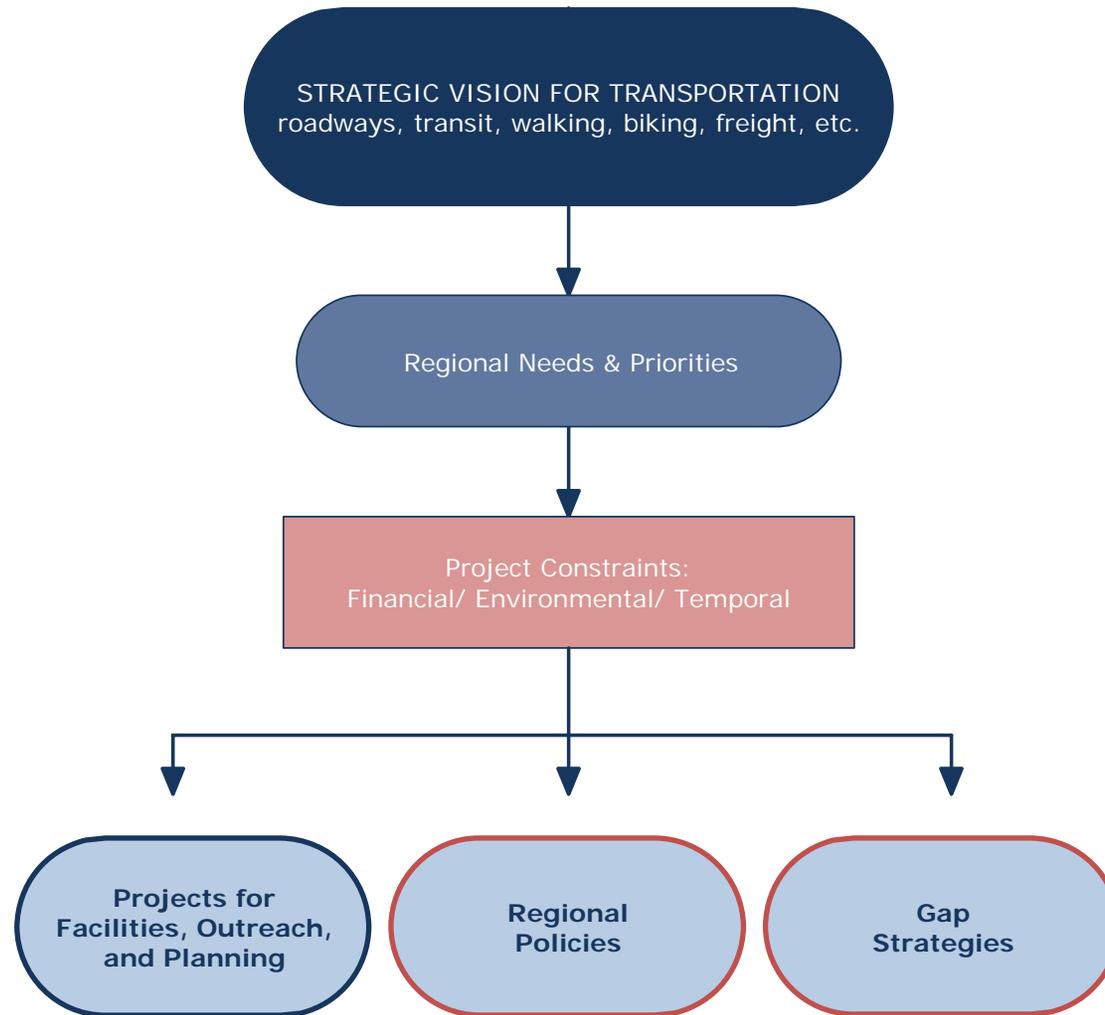
Communication Model



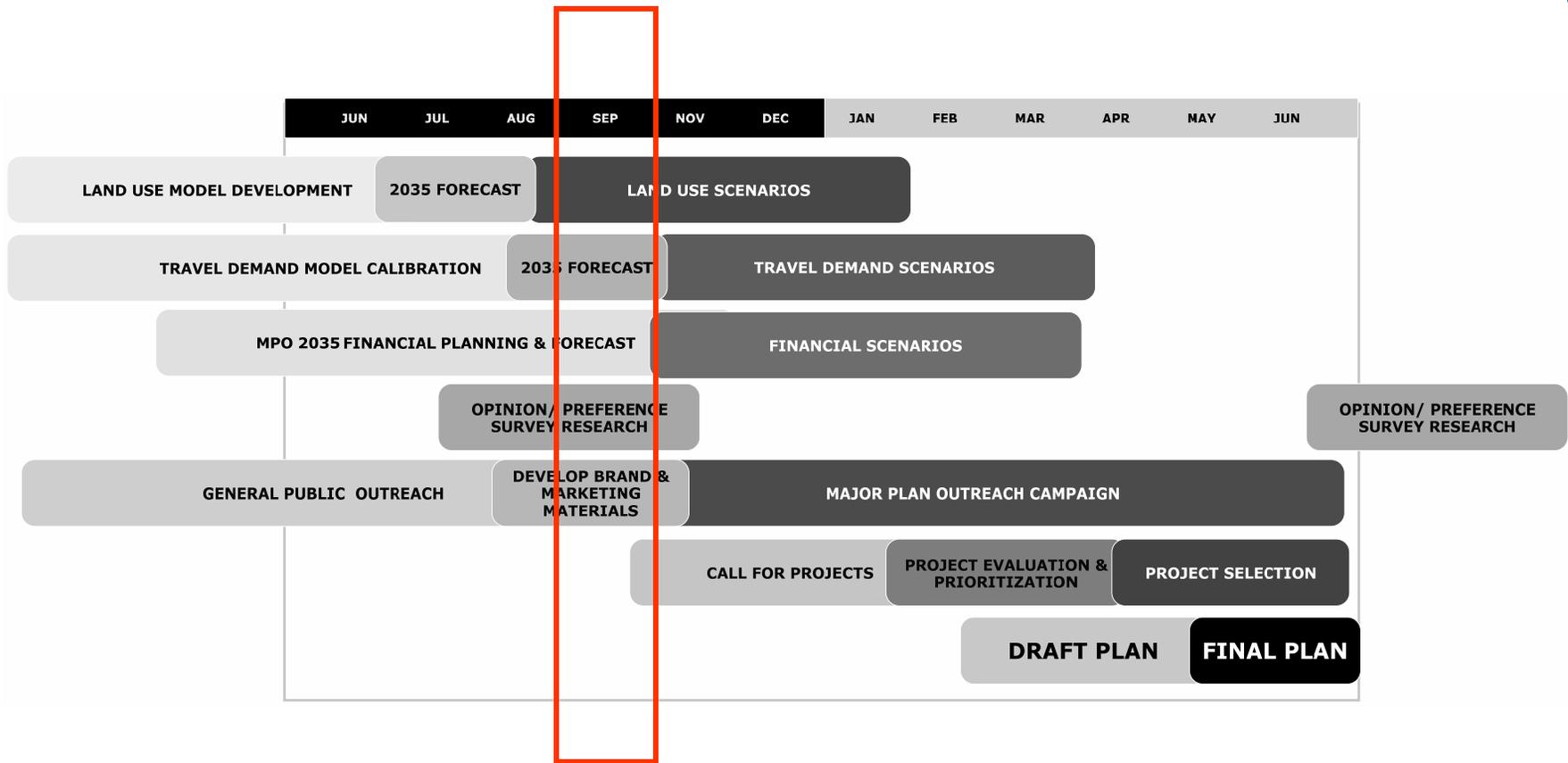
Regional Vision + Regional Plan

- **Strategic Visions for each Mode**
 - *Roads, Transit, Walking and Biking, Freight*
 - Realistic, but not constrained by timelines or finances
 - General guidance towards regional goals
 - Addresses peripheral issues like economic prosperity, environmental sustainability, health, etc.
- **Regional Plan**
 - Comprised of modal elements
 - Specific project recommendations
 - General timeframes and cost estimates
 - Cost-feasible
 - Meets Air Quality Standards
 - Consistent with federal, state, and local plans and policies
 - Not as expansive as the vision

Regional Vision + Regional Plan



2035 Plan Schedule



Regional Goals + Objectives

Work Commute Times

Transportation Choices

??????

Access to Schools

HEALTH

Walk-ability

Energy Consumption

Fuel Costs

Natural Habitat

?????

Water Quality

Open-Space

Parks & Recreation

????

Quality of Schools

Police & Fire Services

????

Water / Wastewater Services

Air Quality

Natural Vistas

Historical/ Cultural Landmarks

REGIONAL
TRANSPORTATION
PLAN

???????

Community Character

Affordable Housing Choices

Grime

??????

Personal Safety

Security

???????

Property Values

????

Cost of Living

??????

Entertainment / Dining Choices

??????

Economic Opportunity

??????

ENVIRONMENT

ECONOMIC
PROSPERITY

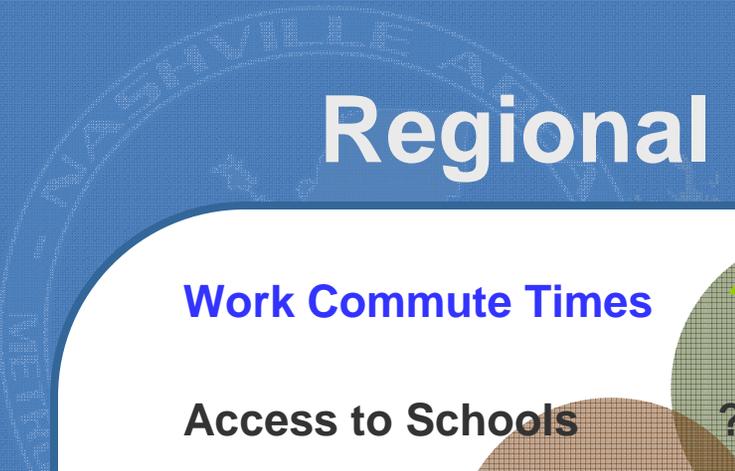
MOBILITY

EDUCATION

ENERGY

HOUSING

SAFETY



Regional Goals + Objectives

- ▶ **Protect Valuable Resources**
 - ▶ Historic Buildings and Landmarks
 - ▶ Natural Resources
 - ▶ Open Space
 - ▶ Agricultural Lands
 - ▶ Air and Water Quality
 - ▶ Community Character and Identity
- ▶ **Improve Access to Economic Opportunities**
 - ▶ More Options to Commute to Jobs and Schools
 - ▶ Better Accessibility to Local Businesses
- ▶ **Improved Access to Goods and Services**
 - ▶ Protect Local Businesses
 - ▶ Encourage More Diversity in the Local Market Place
 - ▶ Plan for More Mixed-Use Development
- ▶ **Increase Housing Choices**
 - ▶ Preserve Low Density Options
 - ▶ Increase Higher Density Options
- ▶ **Improve Aesthetics of Transportation Corridors**

Regional Goals + Objectives

- **Overarching Community & Regional Goals**
 - **Livability**
 - **Sustainability**
 - **Prosperity**
- **Federal Planning Factors**
 - Economic Vitality
 - System Preservation
 - Safety
 - Security
 - Intermodal Connectivity
 - Accessibility
 - Environmental Mitigation
 - Operational Efficiency

Your Thoughts?

- Continue the BPAC in current form through development of 2035 Long Range Transportation Plan
- Meet approximately 3-4 times between now and August 2010
- Consider the future of a standing Bicycle and Pedestrian Advisory Committee after the development of the Long Range Plan to provide insight into projects that go into the Transportation Improvement Program 2011-2014



**Nashville Area MPO
Regional Bicycle & Pedestrian Advisory Committee
Meeting #5 – September 21, 2009
Meeting Notes**

Meeting Purpose:

Fifth meeting of the Regional MPO Bicycle and Pedestrian Advisory Committee (BPAC) to present a status of planning efforts to date including the results of the regional bicycle and pedestrian pilot count program, input received from the second round of public meetings held in July, recommendations of the proposed final study, and information on continuing the MPO Regional BPAC.

Meeting Location:

East Park Community Center – 700 Woodland Street, Nashville, TN

Attendees:

See Attached Sign-In Sheet

Meeting Summary:

Items presented and discussed at this meeting included:

- Results of the regional bicycle and pedestrian pilot count program which documented approximately 4,000 pedestrians and bicyclists at 23 Middle Tennessee locations during an unannounced count on Tuesday, September 8, and
- An overview of the project to date including public input received from the second round of public meetings held July 27-30, 2009 and how the results of this input and input from the BPAC's last meeting (BPAC Meeting #4 – July 23, 2009) were incorporated into the development of the proposed recommendations of the Regional Bicycle and Pedestrian Study. Information presented, based on the findings and analysis of earlier technical memorandums and the public and BPAC input, included the proposed project prioritization system, regional sidewalk accommodations and bikeway network recommendations, proposed policies and programs, and funding and financial information.

It was noted that the information presented at the meeting and the recommendations of the Study which are contained in draft deliverables: Project Evaluation Methodology (Tech Memo #4); Regional Priority List and Funding Options (Tech Memo #5); Policies and Programs (Tech Memo #6); and Funding Toolbox (Tech Memo #7) would be placed on the MPO's website.

It was mentioned that the BPAC's recommended objectives and strategies, contained in Tech Memo #3A, were presented and endorsed by the MPO's Technical Coordinating Committee (TCC) and Executive Board. It was further mentioned that all of the Regional Bicycle and Pedestrian Study recommendations would be considered by the MPO as it updates the region's Long Range Transportation Plan over the coming year.

Other items discussed at the meeting included:

- Continuation of the MPO BPAC

There was a discussion of continuing the current MPO BPAC over the coming year (meeting 3 to 4 times over the next 10 to 12 months) as the MPO works on the development of the region's Long Range Plan. Members in attendance were in agreement on continuing to meet with the current membership of the MPO BPAC to assist the MPO.

- State Route 109 Widening Project – Public Meeting

Information was shared on an upcoming TDOT public meeting concerning SR109, which traverses Wilson and Sumner counties. It was mentioned that a number of the BPAC members had asked about this project. The public meeting is scheduled for October 8, 2009 at the City of Gallatin, City Hall from 5:00 – 7:00 p.m. The following web address was shared with BPAC members as a place to receive additional information on this meeting and all of TDOT's upcoming public meetings - <http://www.tdot.state.tn.us/public/>

Follow-Up Items/Next Steps:

- Complete Remaining Tasks
- Roll Out Final Study Recommendations – Week of October 5th