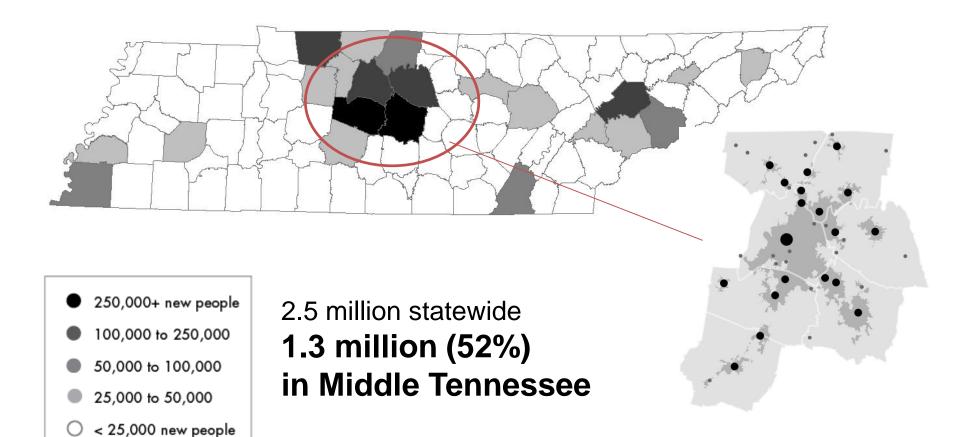


Active Transportation and Health: Policy, Projects, Data Collection and Monetization

Leslie Meehan, AICP Planning for Healthy Communities Conference September 29, 2015

Nashville Area MPO





Policy: Public Opinion

1st choice: improve and expand mass transit options

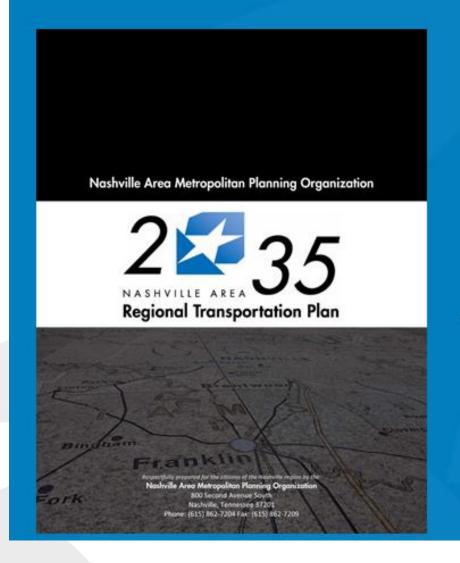


2nd choice: make communities more walkable & bike-friendly

3rd choice: build new or widen existing roadways



Policy: Public Opinion

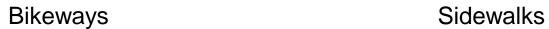


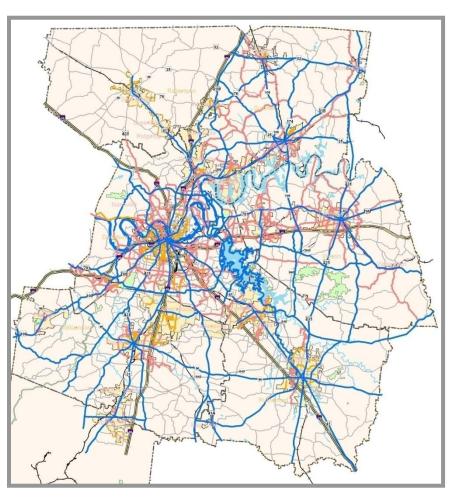
#1
A Bold, New Vision
for Mass Transit

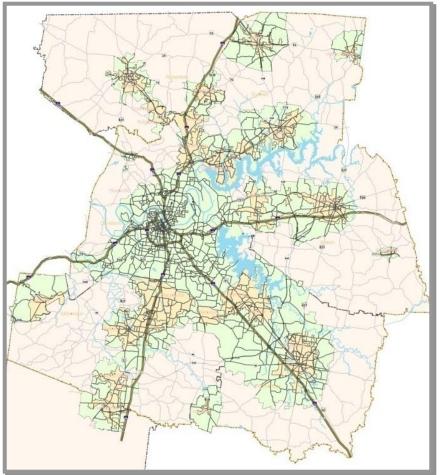
#2
Support for
Active Transportation
& Walkable Communities

#3
Preservation &
Enhancement of
Strategic Roadways

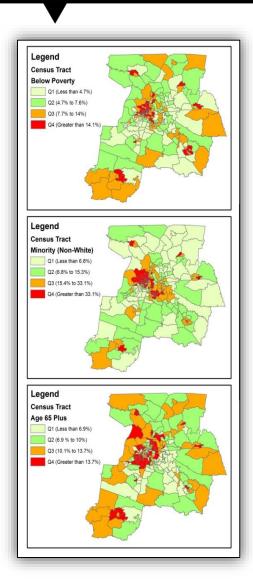
A Regional Vision for Non-Motorized Modes







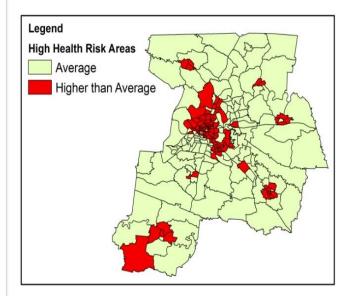
What We Learned – Health Analysis



There is a strong link between the lack of physical activity and health (e.g. heart disease, obesity, and other chronic conditions).

Research has also shown certain population groups have a higher disparity. These groups include:

- Low Income
- Minority
- Older Adults (over 65)



MPO's Health Investment Strategy

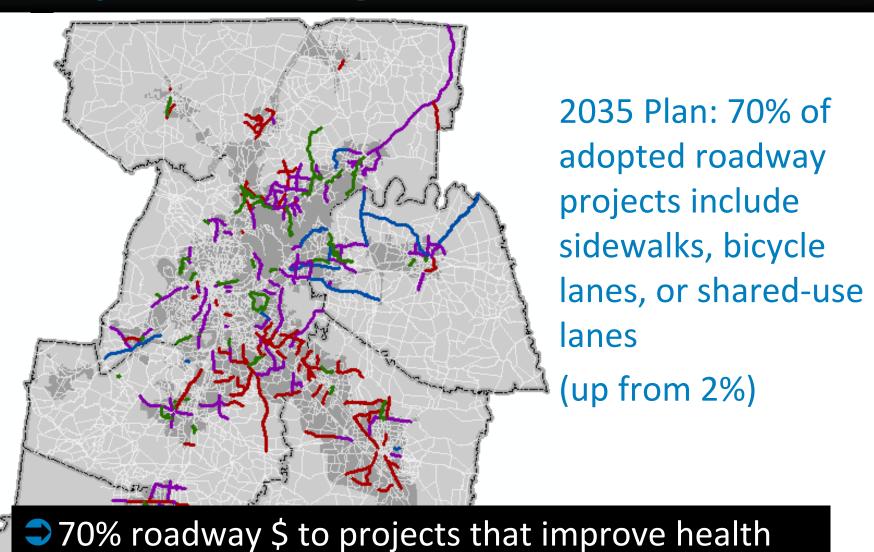
Roadway Funding:

- 70% Roadway projects that improve health
- ⇒ 15% Sidewalks, bicycle lanes, greenways, transit stops, and education
- **⇒** 10% Transit
- ⇒ 5% Intelligent Transportation Systems

MPO's Urban STP Investment Strategy

- ⇒ 2040 Plan Projects Scored on Criteria 100 points
 - **≥** Quality Growth and Sustainable Development 15pts
 - Multi-Modal Options 15pts
 - → Health & Environment 15pts
 - Safety & Security − 20pts
 - **№** Congestion Management **15pts**
 - **≥** System Preservation & Enhancement 10pts
 - State & Local Support/ Investment − 5pts
 - → Freight & Goods Movement 5pts

Projects: Complete Streets



nashvillempo.org

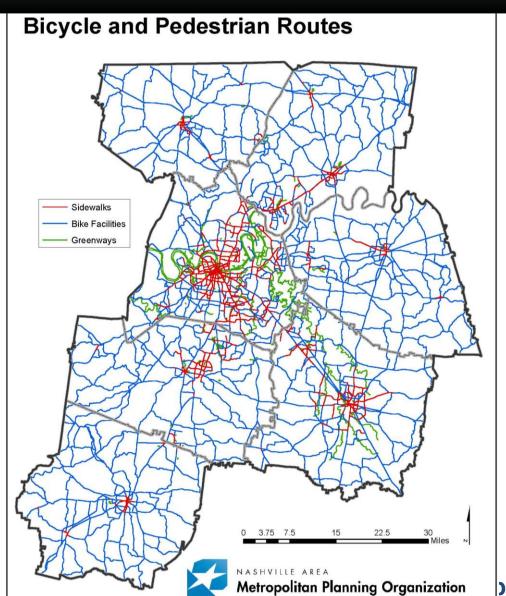
Bikeways, Sidewalks Greenways

2009 to 2014

Sidewalks – 57% increase 322 miles to 505 miles

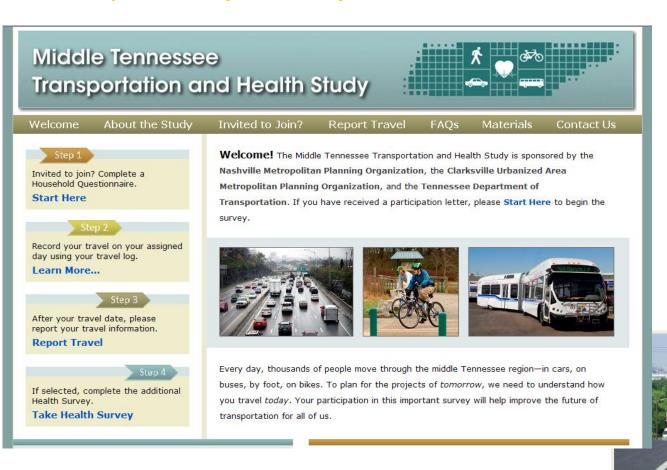
Bikeways – 19% increase 354 miles to 423 miles (bike lanes, buffered bike lanes, bike routes and sharrows)

Greenways – 36% increase 136 miles to 185 miles (greenways, multi-use trails and park trails)



Data Collection: Middle Tennessee Transportation and Health Study

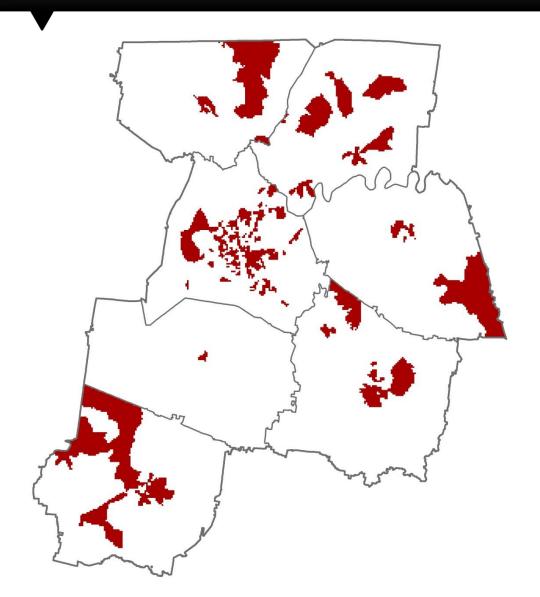
Transportation, Physical Activity and Health Data Collection and Analysis





www.middletnstudy.com

Prioritization: Health Priority Areas

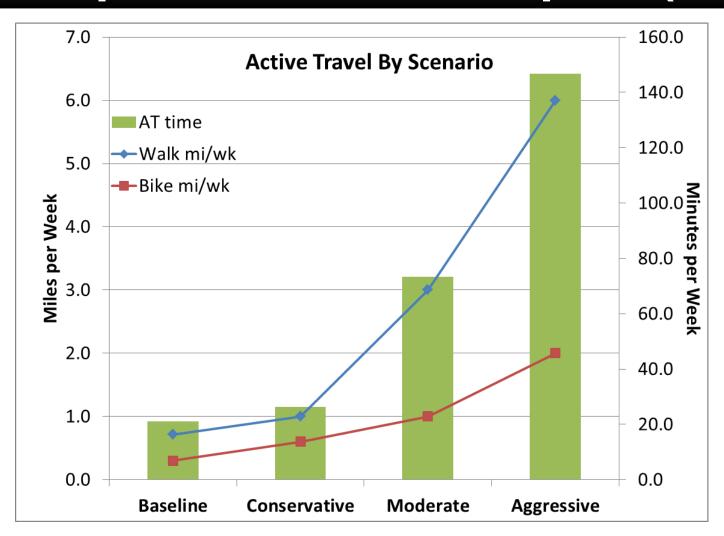


Health Priority Areas

3 out of 4:

- Poverty
- Unemployment
- Carless Household
- Aging (over age 65)

Happening Now: Integrated Transport and Health Impact (ITHIM)



Diseases and Exposures

Physical Activity	Air Pollution	Collisions	
Ischemic Heart Disease	Respiratory Infections	Auto	
Depression	Cardiovascular Disease	Bicycle	
Dementia	Hypertensive Heart Disease	Pedestrian - MODE	
Diabetes	Inflammatory Heart Disease	Bus	
Colon Cancer	Lung Cancer	Truck	
Breast Cancer	Respiratory Disease (kids)	Highway	
All-Cause Mortality	Stroke	Arterial ROAD TYPE	
		Local	
		Fatal	
		Non-Fatal SEVER	

Monetization: Impacts of Physical Activity via Transportation on Health

Moderate Scenario	Change in disease burden	Change in DALYs per year
Cardiovascular Diseases	10.4%	1442
Diabetes	11.2%	1252
Depression	2.7%	460
Dementia	3.9%	879
Breast cancer	2.8%	124
Colon Cancer	2.6%	94
Collisions	13.8%	1240



Savings:

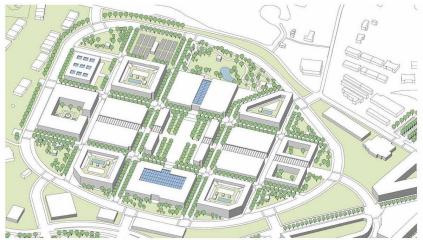
\$200

Million

per year in healthcare costs

Getting Public Health Involved in the Built Environment

- Making the Case
- Providing Data
- Involved in Policy
- Benchmarking and Performance Measures



Student Proposal for the Global Mall at the Crossings showing mixed use buildings with retail and residential dwellings (North District)



Hickory Hollow Mall 2013



"The shape we give our city in turn shapes us."





Creating Healthy Built Environments

Research: Health and the Built Environment

- Evidence shows that <u>place</u> determines health.
- Access to healthy options, and funding to address built environment issues, are emerging nation-wide.
- Health professionals remain on the periphery of built environment projects across the state, but there is opportunity for stronger engagement





Costs to Tennessee

- Obesity \$3.7 Billion per Year (2009)
- Physical Inactivity \$3.5-3.8 Billion (2009)
- TN Department of Transportation Budget FY 2016
 - **\$1.8** Billion



Prevention: Physical Activity





Physical Activity

The **NEW** Prescription

- Primary Prevention Initiatives
 - Walking School Buses
- Run Clubs
 - Partnership with TDEC
- Built Environment
 - Parks
 - Greenways
 - Sidewalks
 - Bike lanes
 - Playgrounds
 - Walking Tracks

Henry Horton State Park

Healthy Park-Healthy Person

4358 Nashville Hwy Chapel Hill, TN 37034 www.hhsphealth.com 931-364-7724



		See back side for more information
Date:		on the healthy points program at Henry Horton State Park
Park Rx Check the appropriate activity, time, and frequency		
\bigcirc Walk	○ 10 Minutes	○1 Day/Week
○ Hike	○ 20 Minutes	O 2 Days/Week
○ Run	○ 30 Minutes	○ 3 Days/Week
○Bike	○1 Hour	○ 5 Days/Week 1
○ Paddle	e ○ 1+ Hours	○ 6 Days/Week
○ Other		○ 7 Days/Week
Notes:		

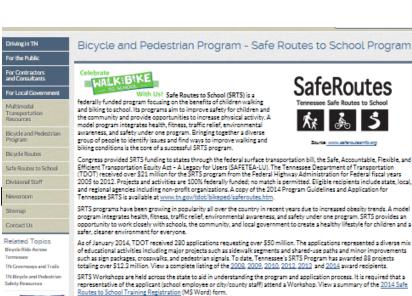
Signature of Prescriber

For more information visit www.hhsphealth.com



- Built Environment Happening Now

- Designate Built Environment leader
- **Initiate health in all policies task force for** state-level coordination
- **Educate locals on funding**
 - TPHA Health by Design
 - **County Directors State Meeting**
- Support local communities through technical assistance and peer learning
 - Federal Highway Healthy/Trans. Corridor Planning Framework
 - **ULI Healthy Corridors Project**
- Communicate need, successes
 - **CDC** Walkability Institute
 - (State Walking Plan)
 - National Gov. Association/NAM Meeting
 - (State Physical Activity Plan)
- Monitor and evaluate impact



2015. For questions, contact Diana Benedict at 615-253-2421 or Diana Benedict@tn.gov. Now is the time to get involved and walk/bike our children to better health - for everyone. 2015 Safe Routes Program Guidelines and Application (MS Word) Walk to School Day Success Stories

Trenton Elementary School students in Trenton Tennessee were excited to participate in the National Walk to School Day on Wednesday, October 8, 2014! Approximately one hundred and eighty parents and students walked from our town's City Hall to school. It was an exceptional collaboration of school staff, Coordinated School Health, city officials, police department, school board and county health department all encouraging safety, physical activity and fun. The photo is of the students who also won kick balls for

· 2014 Safe Routes to School Workshop (MSWord)

2010 Walk to School Day Photos-Nolensville 2010 Walk to School Day Video- Nolensy 2010 Nolensville Success Story - SRTS

2010 Walk to School Day



Applications for the final round of funding for this bill will be accepted beginning October 1, 2014 and will be due January 15,





Support for Health and the Built Environment

- American Planning Association
 - Planning and Community Health Center
 - Plan4Health
- Urban Land Institute
 - Building Healthy Places Initiative
- U.S. Green Building Council/RWJ
 - Green Health Project
- American Institute of Architects
 - Design and Health initiatives
- American Public Health Association
 - Transportation and Health
- Transportation Research Board
 - Subcommittee on Trans, and Health
- Centers for Disease Control
 - Healthy Community Design Initiative
- Institute of Transportation Engineers







Contact: Leslie Meehan Office of Primary Prevention leslie.meehan@tn.gov