Planning & Public Health

creating healthier communities through integrative practice



Welcome

- ULI Rose Center
 - Who we are/what we do
- Webinar instructions
- Webinar

ULI Rose Center

Mission:

". . . to encourage and support excellence in land use decision making. By providing public officials with *access to information, best practices, peer networks* and other resources, the Rose Center seeks to foster creative, efficient, practical, and sustainable land use policies."



Daniel Rose Chairman, Rose Associates; ULI Foundation Governor

ULI Rose Center

How this webinar works:

Webinar audio information:

Dial-in #: 866.404.3683

Conference code: 1496305939

- All callers are muted during the presentation
 - To prevent any audio disruption, please mute your individual line by pressing *6. You can un-mute your line by pressing #6.
- To ask a question-
 - During the presentation, type your question into the *Question* or *Chat* box, the moderator will review and present your questions to the panelists.
 - •There will be time for questions at the end of the presentation.







Promoting Health through Design

www.centerforactivedesign.org

What is Active Design?

Active Design = Designing our communities to make the healthy choice the easy choice









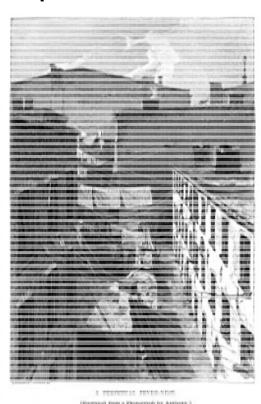






History of health and the built environment

100+ years ago, urban conditions in NYC were a breeding ground for disease epidemics



Over-crowding:

By 1910, the average density in lower Manhattan was 114,000 people/ sq. mi; two wards reached densities > 400,000. (Today's density: 67,000/ sq. mi.)

+

Inadequate systems for garbage, water, and sewer, leading to pervasive filth and polluted water supplies.

Major epidemics:

Air/droplet-borne diseases:

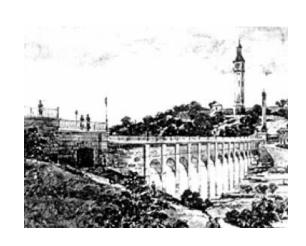
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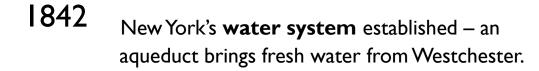
Water-borne diseases: **Cholera**

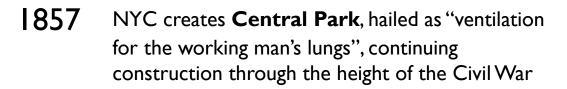
Vector-borne diseases: **Yellow-fever**

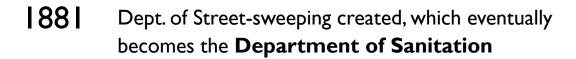


The design response











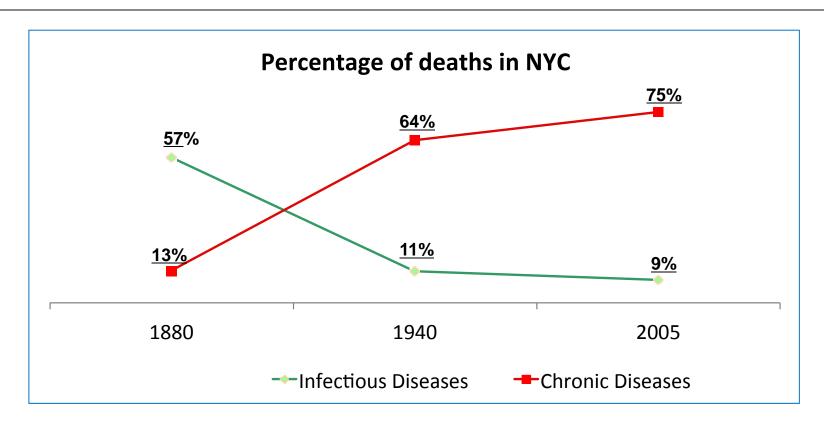
190 New York State Tenement House Act banned the construction of dark, airless tenement buildings

First section of **Subway** opens, allowing population to expand into Northern Manhattan and the Bronx

Zoning Ordinance requires stepped building setbacks to allow light and air into the streets



The results: Infectious disease rates plummeted



- Today, chronic disease accounts for 7 out of 10 deaths across the US.
- In 2005, 133 million Americans almost 1 out of every 2 adults had at least one chronic illness.



Can design help address today's health epidemics?

THE 19th CENTURY:

Infectious disease

19th Century codes, planning and infrastructure as weapons in the battle against contagious disease

These strategies were built into the city fabric, and they were effective

THE 21st CENTURY:

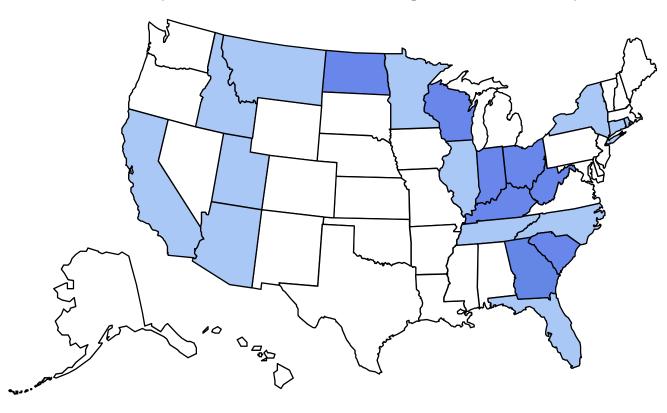
Chronic Diseases, many of which are "Diseases of Energy"

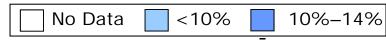
The emerging design solutions for health parallel **sustainable design** solutions

Effective designs will have to be an invisible, pervasive, and inevitable part of life



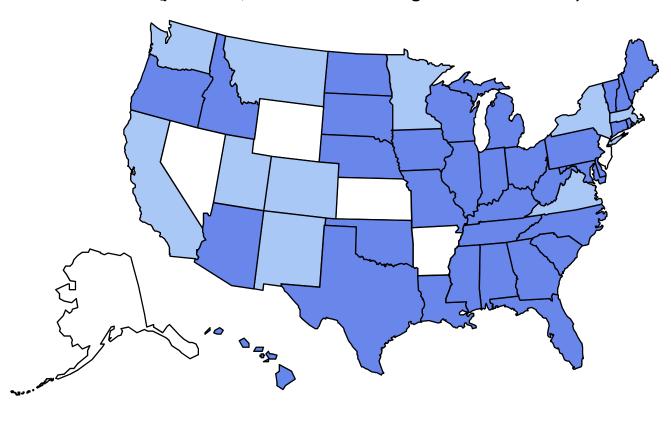
(*BMI ≥30, or ~ 30 lbs overweight for 5' 4" woman)

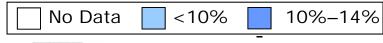






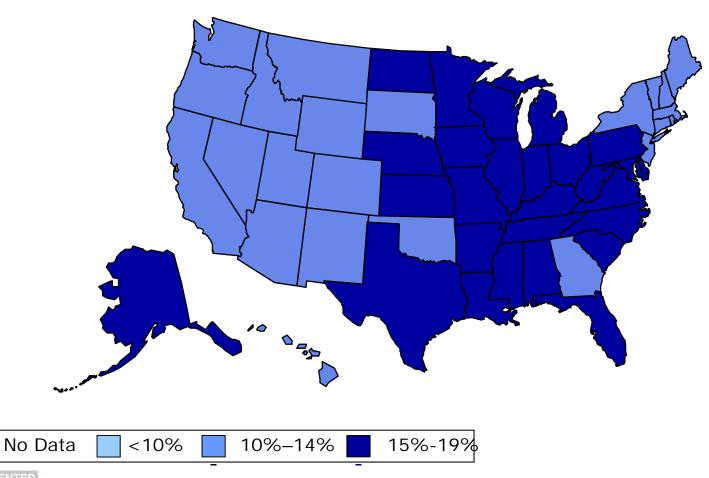
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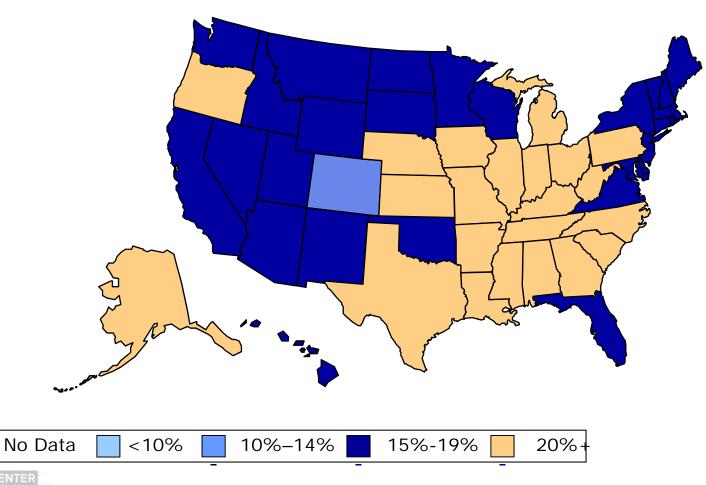






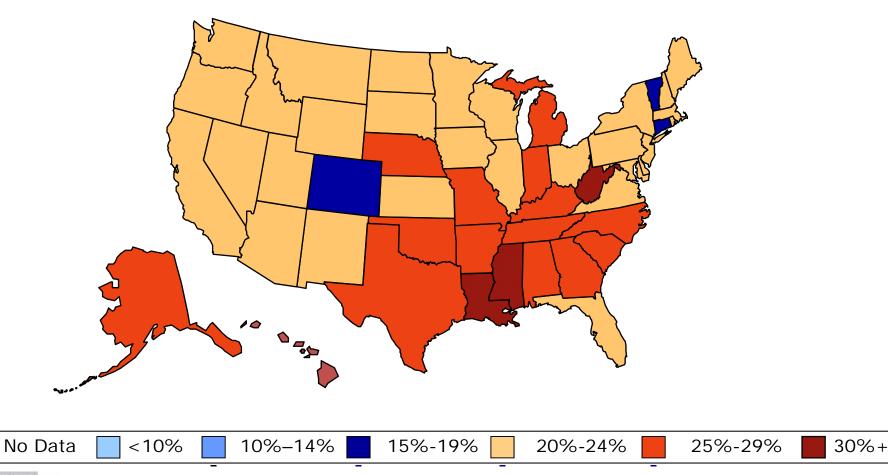


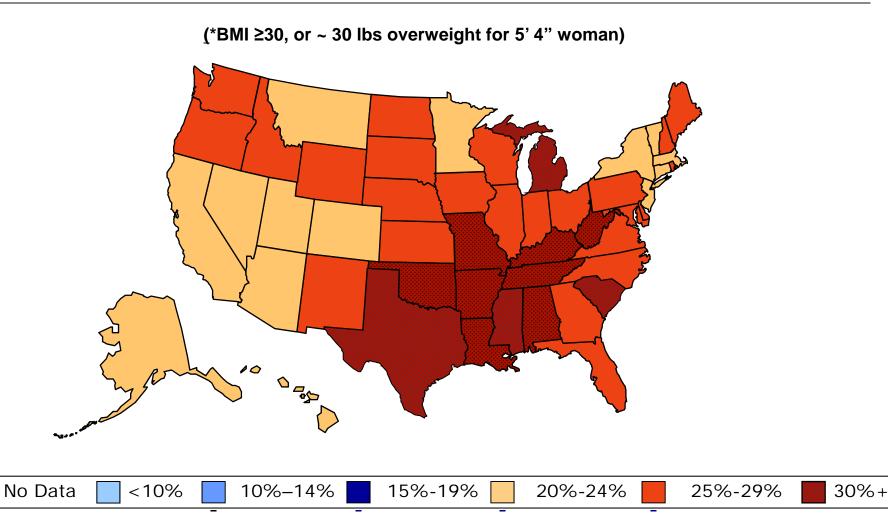


















People haven't changed – but our environment has

If you go with the flow, you can become overweight or obese





Better Cognitive Function

Reduced Depression

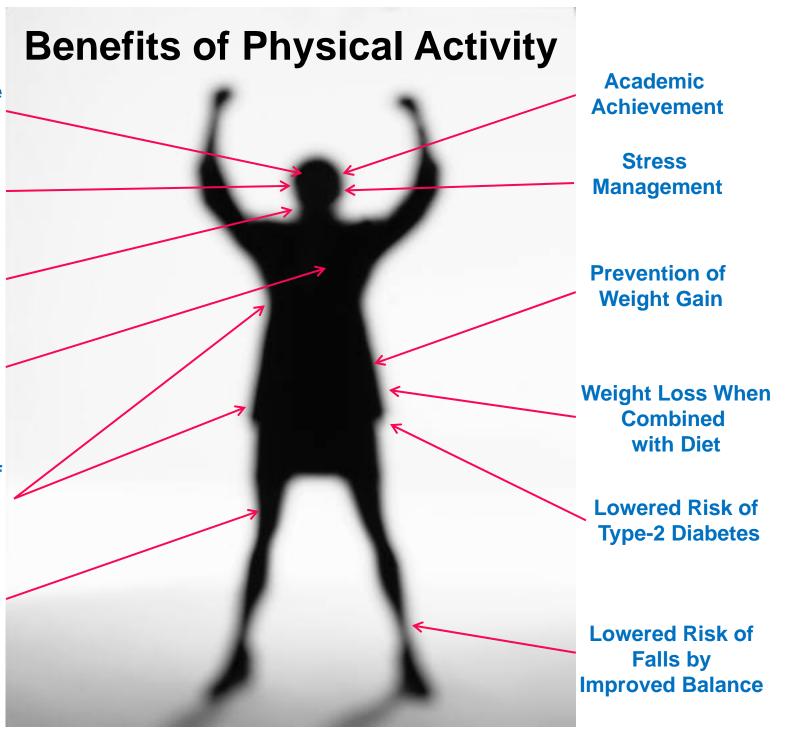
Improved Self Esteem

Lowered
Cardiovascular
Risk Factors

Decreased Risk of Colon And Breast Cancers

Strengthened Bones



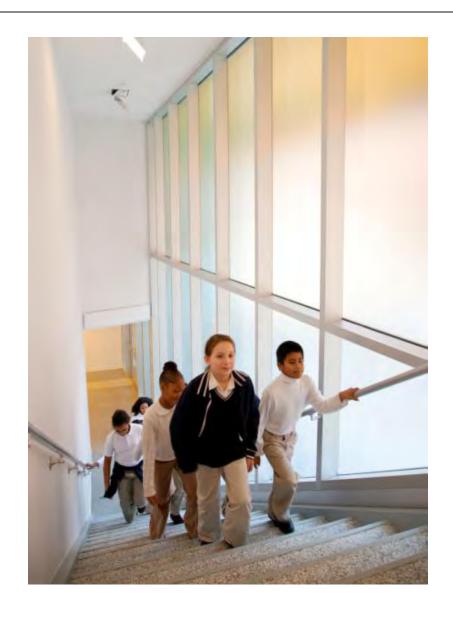


Design and physical activity

Encouraging stair use & active transportation

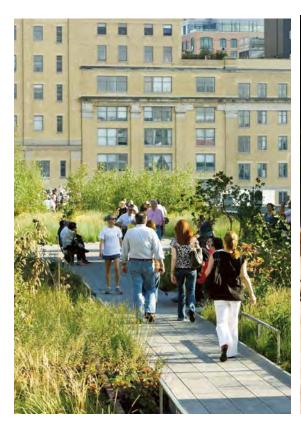
- Just 2 minutes (about 6 floors) of stair climbing a day burns enough calories to prevent average U.S. adult annual weight gain.
- Men climbing 20-34 flights of stairs per week have a 29% lower risk of stroke.
- Just 15 minutes of cycling (2.5 miles) twice a day burns the equivalent of 10 lbs per year.
- Each hour spent in a car contributes a 6% risk in obesity and chronic disease while each km walked contributes a 5% decrease in risk





Design and physical activity

- Creating or improving access to places for physical activity can result in a 25% increase in number of people who exercise at least 3 times per week
- Creating a more enticing and walkable public realm can result in a 161% increase in physical activity (e.g. walking and biking)







Co-benefits: Environmental sustainability



Transportation





Play





Vertical circulation



Co-benefits: Universal accessibility

- Creating safer places to walk & for wheelchair travel
- Making elevators more available for those who need them







Co-benefits: Economic resiliency and social engagement

• Creating a more vibrant public realm supports economic and social health of communities, mental health of individuals

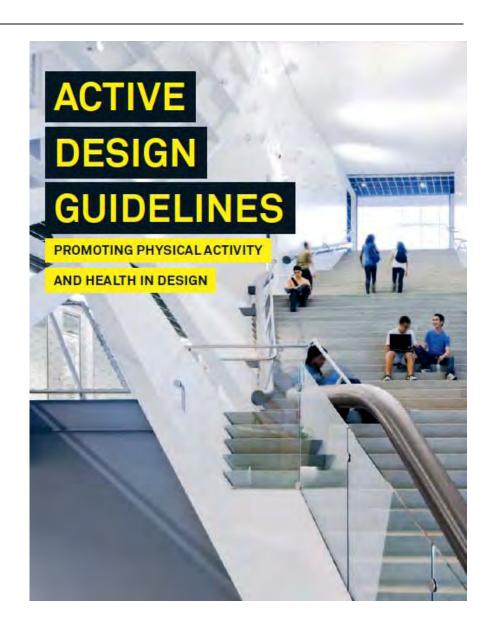






The Active Design Guidelines

- Origins at annual Fit City conferences
- Collaborators included City agencies, professional associations, private sector, academics
- The Centers for Disease Control and Prevention funded initial outreach efforts
- The Center for Active Design is now leading efforts to disseminate information about active design www.centerforactivedesign.org





Key concepts









Active Transportation

- Land use mix + development patterns
- Pedestrian environment
- Bicycle infrastructure
- Transit access









Active Recreation

- Parks, playgrounds, plazas
- On-site recreation
- Street closures









Healthy Food Access

- Supermarkets
- Farmers markets and produce stands
- Gardening opportunities
- Tap water access







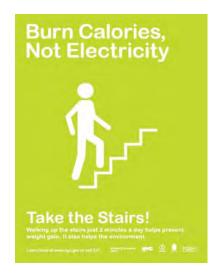


Active Buildings

- Designed to encourage stair use
- Support the pedestrian realm
- On-site recreation and gardening











Active Buildings

- Designed to encourage stair use
- Support the pedestrian realm
- On-site recreation and gardening











LEED Pilot Credit



New Construction | v2009

Design for active occupants

EQpc78 | Possible 1 point

Intent

This is a pllot credit. To use any pilot credit on your LEED project, be sure to register here. Documentation requirements and additional questions are listed below.

Improve the health of building users through physical activity while reducing environmental impacts.

Requirements

All projects: Meet the following requirement:

Buildings must have at least one main stair that enables occupants to travel between the building entrance floor(s), occupant's own destination floor and common use floors. Access to floors may be restricted by use of security devices, such as card keys, codes or other access devices.

AND

Include seven or more of the following features:

For staircase(s)*:

- Classify all regularly occupied floors for re-entry, allowing all building users to have access to and from these floors. Service floors do not need access for all users.
- 2. Make accessible staircases visible from the corridor by either:

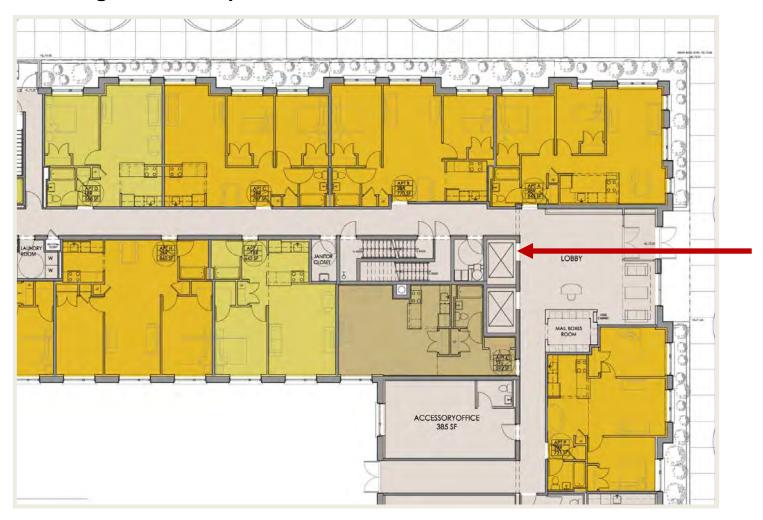






LEED Platinum-Subject of Mt. Sinai Study about the Effects of Active Design on Obesity

• Shift in the ground floor plan to make stairs more visible





• Shift in the ground floor plan to make stairs more visible





Art and signage to promote stair use







• Indoor and outdoor recreation spaces













Case Study: Arbor House

- Rooftop hydroponic farm community supported agriculture
- Secure indoor bicycle storage







Thank you!

- Visit <u>www.centerforactivedesign.org</u> to download Active Design Guidelines for free, as well as other resources
- Suzanne Nienaber, Partnerships Director suzanne@centerforactivedesign.org









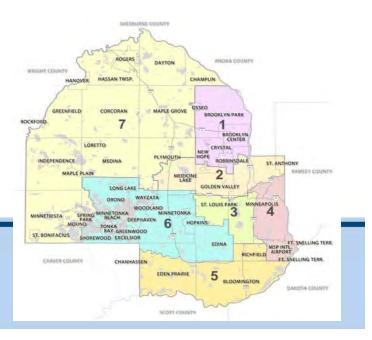
Karen Nikolai Manager, Healthy Community Planning (612) 348-8089 office karen.nikolai@co.hennepin.mn.us

Active Living Hennepin County



- Partnership of cities, businesses, nonprofits, parks,
 MnDOT, Metropolitan Council and other organizations
- Convened by Hennepin County starting in 2006
 - most recent meeting was Monday panel on bike parking to incentivize mode shift from cars
 - Vision, mission and guiding principles adopted in October, 2007
 - Active Living policies adopted in June, 2009





Active Living workshops



Workshops have helped make active living tangible for our partners and communities.

- Walking Workshop in St. Louis Park, March '09
- Biking Workshop in Robbinsdale, October '09





Active Living to Complete Streets



Complete Streets (CS) workshop held – Dec 2008

CS Resolution of Support – Feb 2009

CS policy development – Spring 2009

CS policy unanimously approved – July 2009

CS Task Force created – November 2010



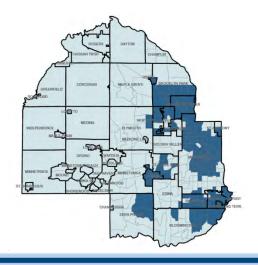


Pedestrian and Bicycle Planning



Began in 2012 under CDC Community Transformation Grant
Drafted first ever county pedestrian plan – out for comments
Funding eight municipal bicycle and pedestrian plans
Kicking off update of county bicycle plan this month
New bicycle and pedestrian coordinator position









Health Impact Assessment: Bottineau Transitway



HIA: used to consider potential health effects that a proposed policy or project could have and how effects are distributed. We used the following methods on Bottineau:

- HIA Advisory Committee, interviews, focus groups, data, analysis from earlier Bottineau reports, literature review
- Bottineau HIA assessed six factors related to the transitway's development that research has shown to impact health:
 - Physical activity
 - Housing+TransportationCosts
 - Employment

- Education
- Traffic Safety
- Access to Healthy Foods



Key HIA Recommendations



- Conduct analysis to identify low-income and transitdependent populations beyond ½ mile radius that could benefit from access to the line
- Continue to engage populations living in the corridor during future phases of light rail project
- Target growth in the station areas and implement zoning, parking requirements and building codes that encourage higher density, mixed-use development
- Incorporate bike and pedestrian infrastructure improvements into station area plans
- Preserve existing affordable housing and support the development of affordable and mixed-income housing



How HIA Findings Will Be Used



- "Deep" community engagement with vulnerable populations (new BCBS MN funding)
- Station-area planning (11 station areas)
- Transitway Development
- Help residents understand how the transitway and land use changes could impact them
- Alignment of health benefits and FTA New Starts criteria



A Word About Funding



- Funding may come from many sources, depending on how you imagine your work coming together
- Our funding sources have included: BCBS MN, MN Dept of Health, CDC, NACCHO, The Pew Charitable Trusts
- We've turned funding around to others in the form of mini-grants, bike racks, and other incentives



Final thoughts on Healthy Community Planning



- Work closely with elected officials and communities
- Write leadership into resolutions and policies
- Engage multidisciplinary staff and advocates
- Be creative to bring ideas and people together







For more information

- http://hennepin.us/activeliving
- http://www.hennepin.us/completestreets
- http://hennepin.us/pedestrianplan
- hennepin.us/bottineauhia

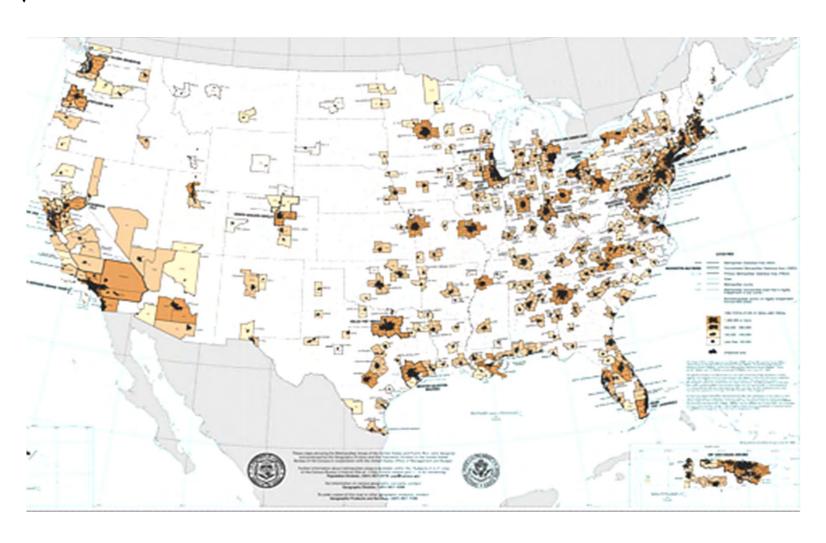




Incorporating Health in Regional Transportation Planning

Mary Beth Ikard, APR | Communications Director Planning & Public Health: Creating Healthier Communities through Integrative Practice June 20, 2013

Metropolitan Planning Organizations

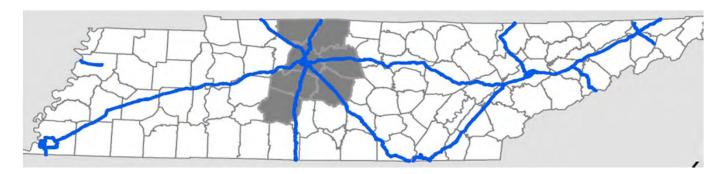


How MPOs Work

- Conduit for Federal Transportation Dollars in Urban Areas
- Provide funding for roads, transit, greenways, bikeways and sidewalks
- Work with local governments to establish regional priorities (however, bike/pedestrian trips are local)
- Impact everyone in a region

What We Accomplished

- Policy
 - Scoring Criteria for Inclusion of Health in Evaluation of Transportation Projects
- Funding
 - Restructured Existing Funding Sources so More Money is Spent on Active Transportation
- Data
 - ▶ Regional Data Collection Effort to Provide Baseline Evidence for Policy Benchmarking

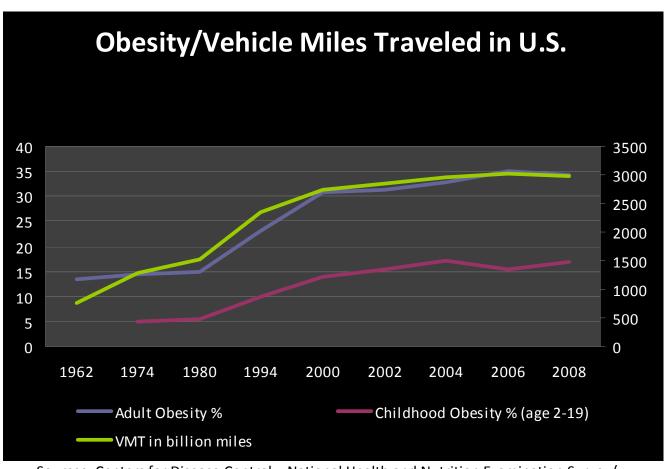


Growing Issues to Address

- Housing Choices
- Availability of Jobs
- **⇒** Increasing Costs
- ⇒ Longer Travel Times & Trip Lengths
- Quality of Life
- ⇒ Worsening Personal Health / Increasing Costs
- Education
- ⇒ Affordable and Healthy Foods

Making the Case for Health

Transportation and Obesity



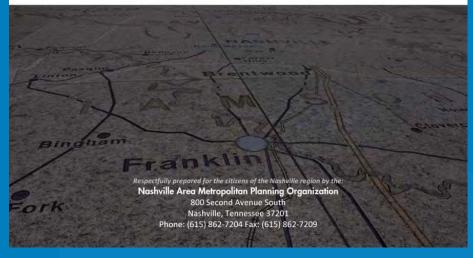
Sources: Centers for Disease Control – National Health and Nutrition Examination Survey/ U.S. DOT – Federal Highway Administration, Annual Vehicle Distance Traveled in Miles and Related Data

MPO's Public Opinions

- ⇒ Three strategies provided for improving transportation in Middle Tennessee; respondents then asked to prioritize—
 - **≥1st choice**: improve and expand mass transit options
 - **≥2nd choice**: make communities more walkable & bike-friendly
 - **3rd choice**: build new or widen existing roadways







#1
A Bold, New Vision
for Mass Transit

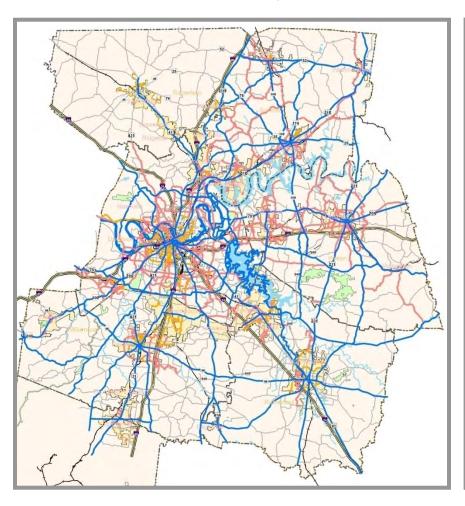
#2
Support for
Active Transportation
& Walkable Communities

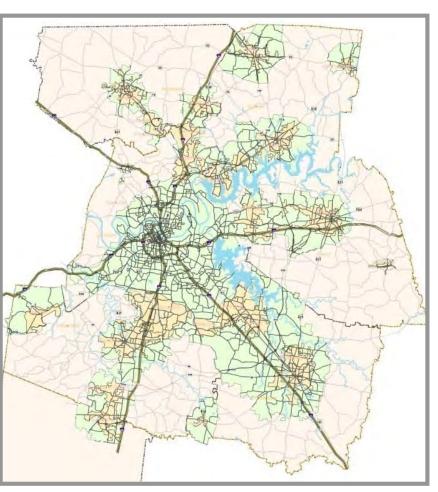
#3
Preservation &
Enhancement of
Strategic Roadways

nashvillempo.org

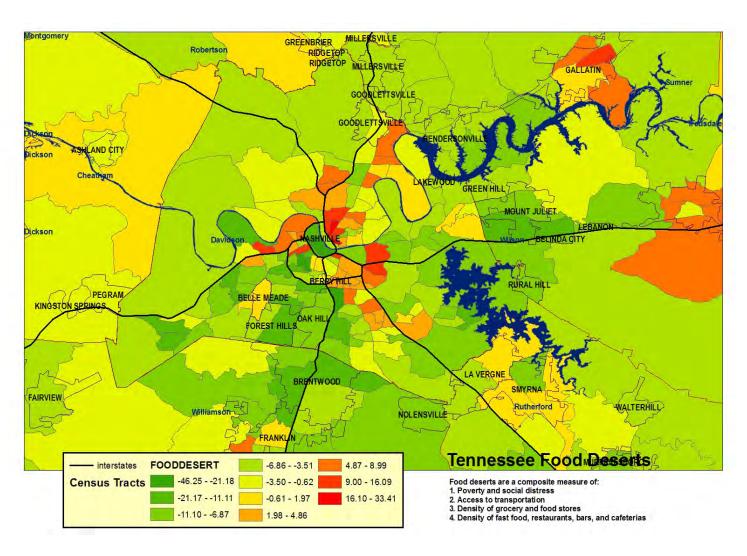
A Vision for Future Active Transportation



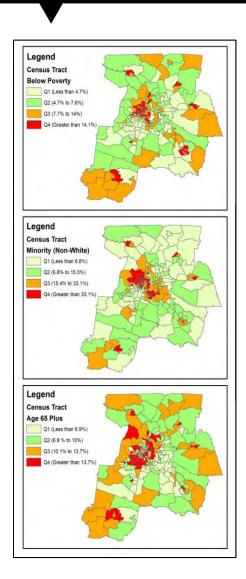




Food Access and Transportation



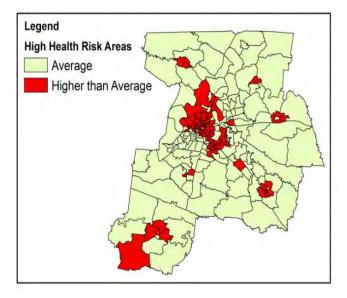
What We Learned – Health Analysis



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:

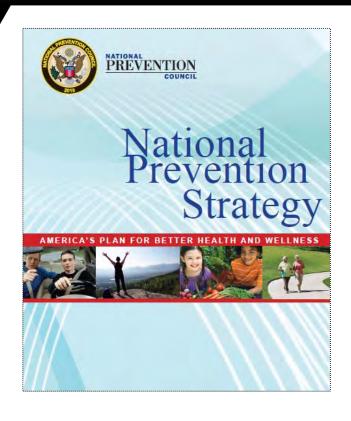
- Low Income
- Minority
- Older Adults (over 65)



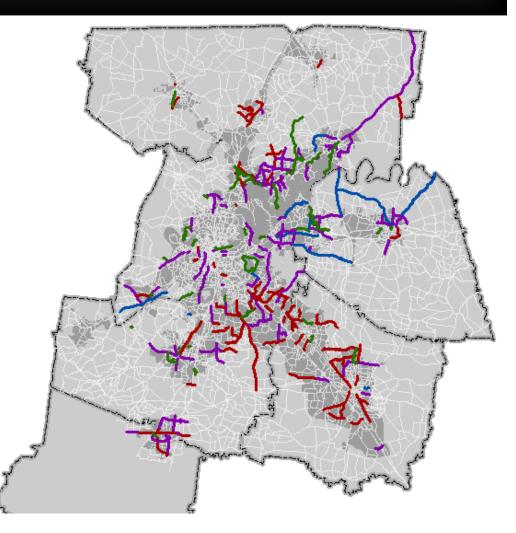
MPO's Urban STP Investment Strategy

- ⇒ 70% to Location Specific Roadway Improvements
 - **→** Quality Growth and Sustainable Development 15%
 - **№** Multi-Modal Options 15%
 - **→** Health & Environment 10%
 - **≥** Safety & Security − 10%
 - **→** Congestion Management 10%
 - ≥ State & Local Support/ Investment 15%
 - **≥** System Preservation & Enhancement 15%
 - ⇒ Freight & Goods Movement 10%

More Complete Streets



70% of adopted roadway projects include sidewalks, bicycle lanes, or shared-use lanes (up from 2%)



MPO's Urban STP Investment Strategy

- 15% minimum investment in Active Transportation& Walkable Communities
 - Sidewalks, bicycle lanes, greenways, transit stops, and education
- ⇒ 10% minimum flexed to Transit
 - ■Combined with Federal Transit Administration funds to help implement regional vision for mass transit
- ⇒ 5% Intelligent Transportation Systems
 - **≥** Using technology to manage traffic

Transportation and Health Study

Transportation, Physical Activity and Health Data Collection and Analysis



Champions and Partners



Residents/Workers in Mid TN

- Elected Officials
- Partners Housing, Transit,
 Chambers of Commerce
- Showcasing other cities
- Public Health:
 - Centers for Disease Control
 - Tennessee ObesityTaskforce(www.EatWellPlayMoreTN.org)





Livability. Sustainability. Prosperity. Diversity.

Leslie Meehan, AICP Director of Healthy Communities meehan@nashvillempo.org Mary Beth Ikard, APR Communications Director ikard@nashvillempo.org

Questions?



ULI Rose Center

Give us your Feedback!

- Email us rosecenter@uli.org
- Complete our survey via Survey Monkey:
 https://www.surveymonkey.com/s/Planning_PublicHealth

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