

## **Objectives**

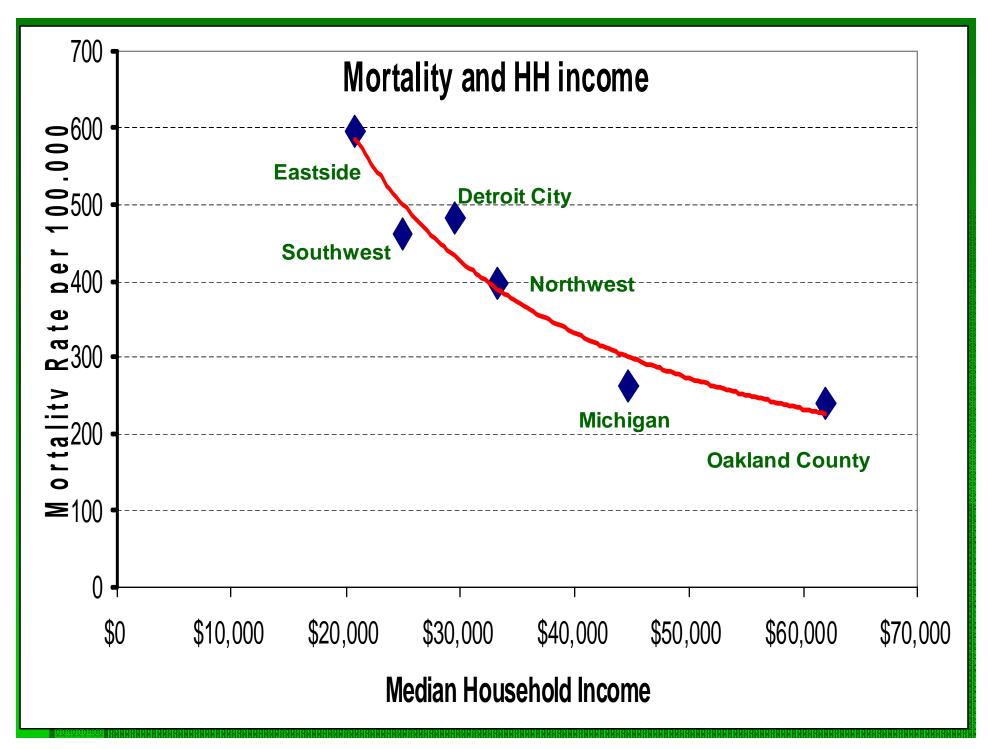
- Describe Lean and Green in Motown (LGM)
- Describe CBPR Process used to develop, implement and evaluate LGM
- Discuss lessons learned and implications for multilevel interventions to reduce obesity and promote cardiovascular health

## Healthy Environments Partnership 2000-2007

- Partners:
  - Brightmoor Community Center
  - Detroit Department of Health & Wellness Promotion
  - Detroit Hispanic Development Corporation
  - Friends of Parkside
  - Henry Ford Health System
  - Rebuilding Communities Incorporated
  - University of Michigan School of Public Health
- Community-based participatory research (CBPR)
- Promote heart health in Detroit.

### **Community Based Participatory Research (CBPR)**

- All partners engaged in decisions about:
  - Research Questions
  - Study Design
  - Data Collection
  - Interpretation of Results
  - Use of Results to Inform Community Change



#### HEP Groundwork 2000-2005

- HEP SC: Ongoing participation and influence
- Multi-method study of CVD in 3 Detroit Neighborhoods
- Selected Results:
  - SEP → Stress → multiple risk factors for CVD
  - Airborne particulate matter (PM) → BP
  - Effects of PM on BP increased for those with BMI>30

### Define Research Questions: Meetings With Greenway Groups (2004)

- Community Foundation of Southeast Michigan
- Local Groups Develop Plans & Lead Greenway Development
  - Detroit Eastside Community Collaborative (DECC)
  - Corktown CDC
  - Northwest Detroit Neighborhood Development CDC

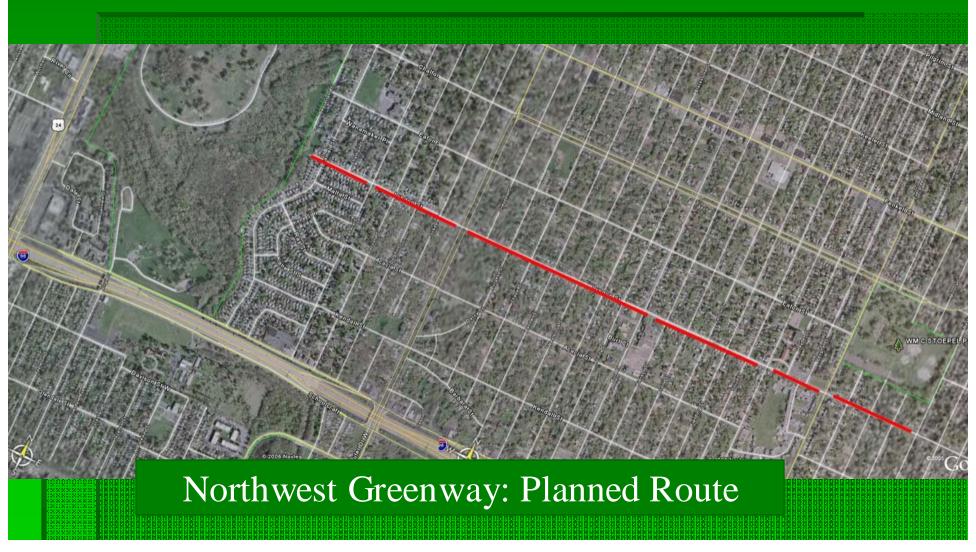
# Define Research Questions: Meetings with Greenway Groups

- Greenway Groups: Focus on Fundraising, Planning, Building
- Local Investment in Greenway Development
- Questions:
  - Will people use it? How many? Who?
  - What will promote & support use (e.g., programs, physical conditions)?
  - What difference will it make (e.g., economic, health)?

# Define the Research Questions: LGM Proposal

- What characteristics of the built environment are associated with:
  - physical activity generally
  - greenway use in particular?
- Do changes in the environment (e.g., greenway improvements) in conjunction with informational and psychosocial interventions, increase physical activity among residents?

## Shaping the Study Design: Modifications of built environment & behavioral interventions



## Shaping the Study Design: Focus Groups: What Encourages Physical Activity?

Outdoor community events – music, dancing, activities for youth AIDS walks.

Trails and parks that are easy to get to.





More trails all over the neighborhood; having the pathway connect to other areas of the city ...

"If I saw more people walking I would be more involved."

## Shaping the Study Design: Promote Greenway Use & Heart Healthy Diets

#### Market Days at Eastern Market

At **Detroit's Historic Eastern Market** you can get your fresh fruits and vegetables as well as fresh fish and seafood. The produce is freshest on Saturdays when you can buy directly from the farmers. Saturday is not the only day to enjoy the market. The market is open Monday —Saturday, 7 a.m. to 5 p.m. Eastern Market is located at 2934 Russell Street.

#### Starting Your own Vegetable Garden

If you are interested in starting a community or neighborhood vegetable garden, **Greening of Detroit** can help you get started! They offer education on gardening, tree planting and training for both adults and kids. If interested you can contact Ashley Atkinson at (313)237-8736 or you can visit their website at <a href="https://www.greeningofdetroit.com">www.greeningofdetroit.com</a>

#### Vegetable of the Season

Did you know that a cucumber can be 20° colder than the outside temperature? This is because of the high water content in a cucumber, thus the phrase: "Cool as a cucumber." Cucumbers belong to the same family as zucchini, watermelon, pumpkins and other squashes. All of which are great for your health. We hope you enjoy this "cool cucumber" recipe.



CUCUMBER

Cucumber and Tomato Topping Number of Servings: 4

#### Ingredients:

- 2 medium cucumbers, peeled, seeded and chopped
- I Tosp white vinegar
- I Tbsp parsley, fresh, chopped
- 2 Tbsp basil, fresh, chopped or 1/2 tsp dried
- I ripe tomato, chopped
- I clove garlic, minced



#### Top Five Ways To Walk for Exercise

- Form a walking club. Walking clubs are a great way to stay fit while getting to know your neighbors.
- Build walking into your daily routine. Walk to work, to the store, or to your place of worship.
- Make exercise a family affair: go for a walk together, make taking the dog for a walk a family event, or walk around the block together each evening.
- 4. Walk with family and friends to explore



Promote Physical Activity -Greenway Design, Walking
Groups, & Information

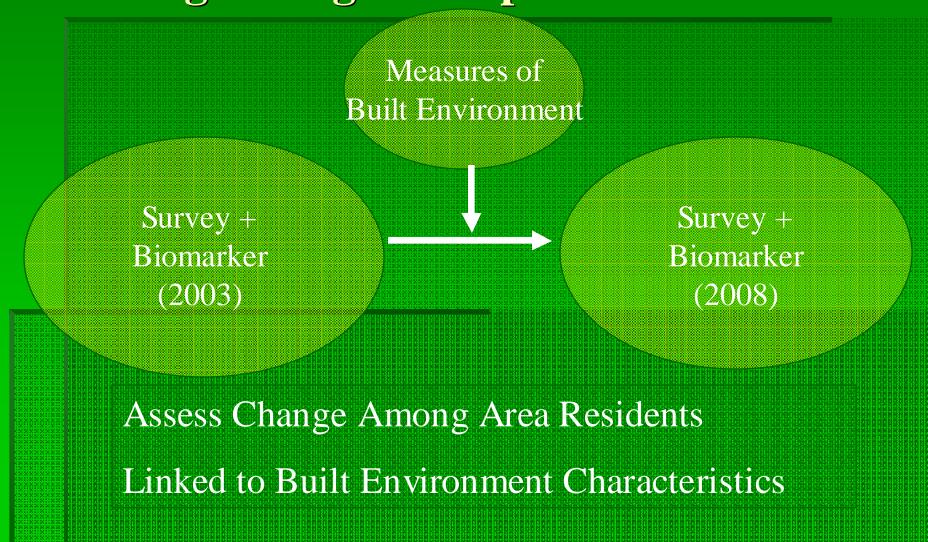
Collaborate With Greenways: Promotional Events

If you want to become a certified

## Shaping the Study Design: Promote Greenway Use & Heart Healthy Diets



## Shaping the Study Design: Assessing Change & Implications for Health

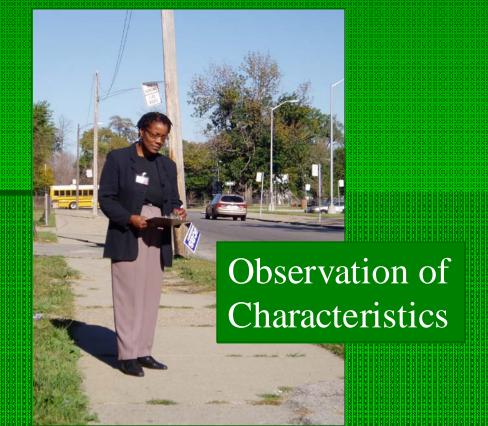


## Shaping the study design: Assess Change in Greenway Characteristics & Pedestrian Use



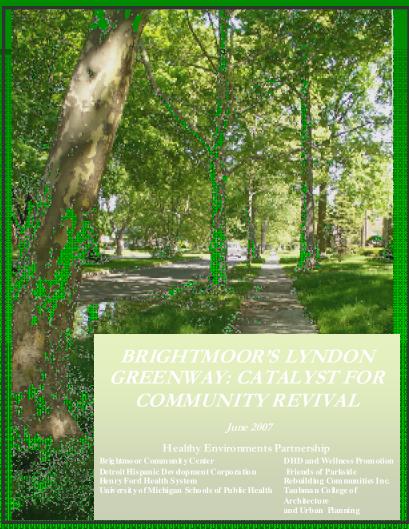
Monitor observed characteristics of greenways & pedestrian use, 2006-2009

Southwest Greenway: Planned Route



**Application of Findings to Inform Community Change** 

- Dissemination of Greenway Reports to policy makers
- Develop additional walking groups & encouraged to use Greenway
- Continue to work with Greenway Groups to promote Greenways
- Evaluate use over time



#### Summary

- CBPR process engaged community members in:
  - Identifying the research questions
  - Shaping the intervention activities and study design
  - Decisions about data collection
  - Interpretation of results and application to inform community change (e.g., meetings with policy makers, proposals for next steps)

#### **Lessons Learned**

- Community "engagement" takes different forms, with different levels of influence
  - Steering Committee: Ongoing participation & oversight
  - Focus Groups: Input but not ongoing oversight
  - Greenway Groups: Participation and influence on
     short term basis: active partners in change efforts

#### **Lessons Learned**

- Engaging community representatives in all stages of the process enhances relevance of research questions & relevance of findings
- Diverse partners bring diverse perspectives & expertise
  - Greenway groups: Expertise in land use, planning local change
  - HEP: Expertise in health perspective, interventions & local communities
  - Urban planners: Expertise in land use measurement and planning

### Acknowledgements

- Healthy Environments Partnership Steering Committee: J. Timothy Dvonch, Causandra Gaines, Sonya Grant-Pierson, Barbara Israel, Murlisa Lockett, Angela Reyes, Paul Max, Zachary Rowe, Denise White Perkins.
- Other Key Collaborators: Margi Dewar, Donna Erickson, Eric Duwekee, Cindy Gamboa, Deedee Varick, James House, Larissa Larson, Robert Marans, Graciela Mentz, Patricia Miranda, Sharon Sand, Diaan Van der Westhuizen, Jean Wineman, Sachiko Woods, Shannon Zenk.

## THE END

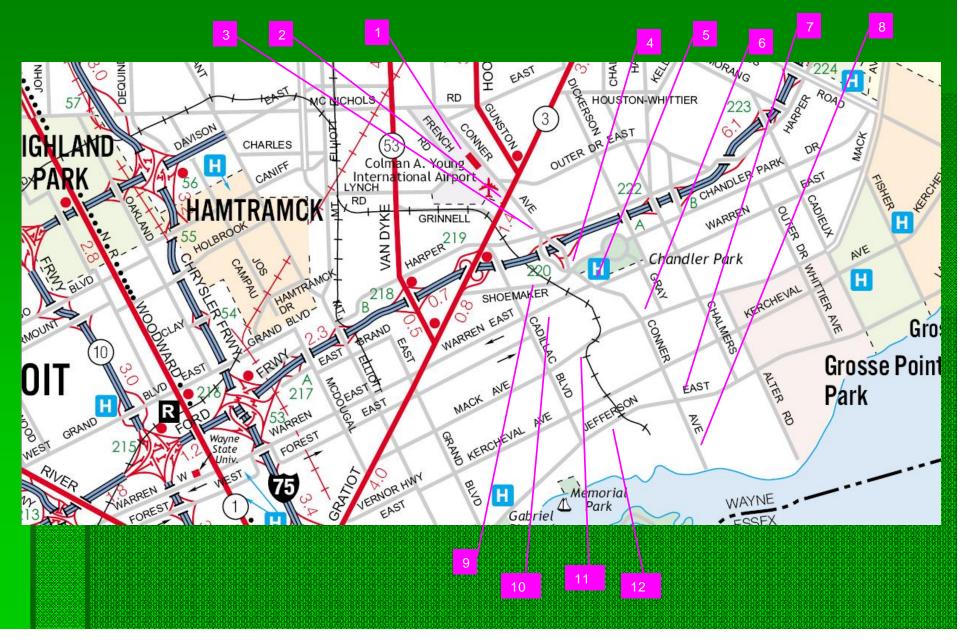


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# Aim 3: Assess Change in Physical Activity, Dietary Intakes & Obesity

- 10 community residents hired & trained as observers
- Inter-rater reliabilities: each observer required to attain adequate IRR before beginning observations
- Retraining and re-certification with IRR
  - Video training
- Data collection 4 times/day, 4 days/week, one week/month May-October

#### Aim 3: HEP-LGM Eastside Detroit Observation Stations





#### **HEP-LGM Pedestrian Characteristics Form** (Revised 6/23/06)

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					Observer ID # Target Area Target Area																	
Type of Day: $\square$ Weekday $\square$ Weekend						Time of Day: □ 7-10am □ 10:30am-1:30pm □ 2-5pm □ 5:30-8:30pm																
Gender Group Status				Primary Activity					Age Group					Race/Ethnicity					Activity Level			
Male	Female	A	P	G	W	В	J/R	RS	P	LSS	S	Child	Teen	Adult	Old	L	В	W	0	S	M	V
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# HEP LGM Greenway Characteristics\*

- Monthly assessment of, e.g.:
  - Surface characteristics
  - Visibility
  - Buffer between path and road
  - Sidewalk/path continuity
  - Access points
  - Trees/shade
  - Cars/traffic

\*Items de protecte protecte & SOPARC



#### **Aim 4: Dissemination**





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Detroit Department of

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### Lean and Green In Motown

#### What is the HEP Lean and Green in Motown Project?



The Healthy Environments Partnership (HEP) is a group of local organizations (see side bar for list of partners) that has been working together since 2000 to improve heart health in three communities in Detroit. Together, we continue to work to better understand how features of the environment influence the heart health of residents in eastside, southwest and northwest Detroit. Our goal is to promote safe and

healthy neighborhoods to increase options for physical activity and better availability of healthy foods, and improved air quality. All of these are associated with heart health. This quarterly newsletter will include information about local activities and events related to promoting heart healthy environments. You can also visit our website at www.hepdetroit.org for more information.

#### What is HEP doing in your community?

Focus Groups: In January and February 2006 HEP conducted a series of focus groups with Detroit residents. The purpose of these focus groups was to learn how neighborhood conditions impact residents' physical activity and the foods they eat. The knowledge and views Detroit residents shared in these focus groups is helping HEP to develop ways to improve heart health among Detroit residents. Please contact us if you would like to receive a copy of our Focus Group summary.

Youth Project: Twenty-four youth are using photography to explore aspects of their neighborhoods that affect heart health. Youth will describe in their own words what their photos represent and their relationship to heart health. This HEP program is based at the Detroit Hispanic Development Corporation (DHDC).

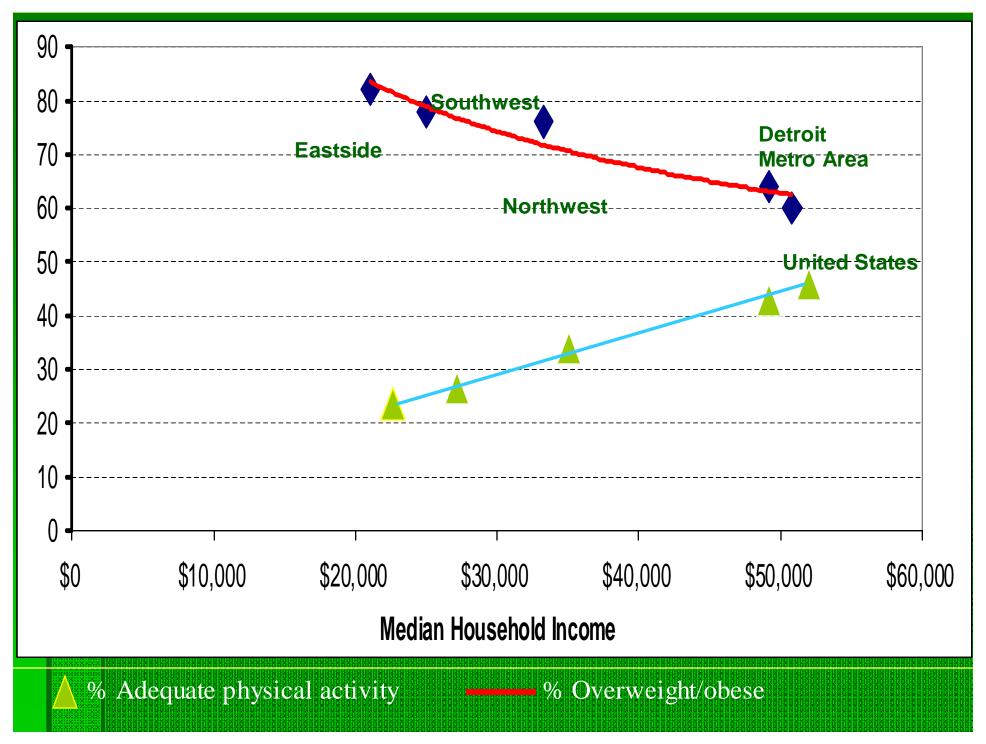
#### Word Has It...

The Conner Creek Greenway is being built in Eastside Detroit! Henry Guthard, from Detroit Eastside Community Collaborative (DECC) Greenway Project Director, describes the greenway as "a network of open spaces and trails designed to encourage walking, jogging, biking and rollerblading." The greenway will be constructed in phases and will eventually stretch from 8 Mile south to the Detroit River, tracing the original Conner Creek which once flowed through the area. "We will provide interpretive signage that explains the history and culture of the area as well as install landscaping, walking

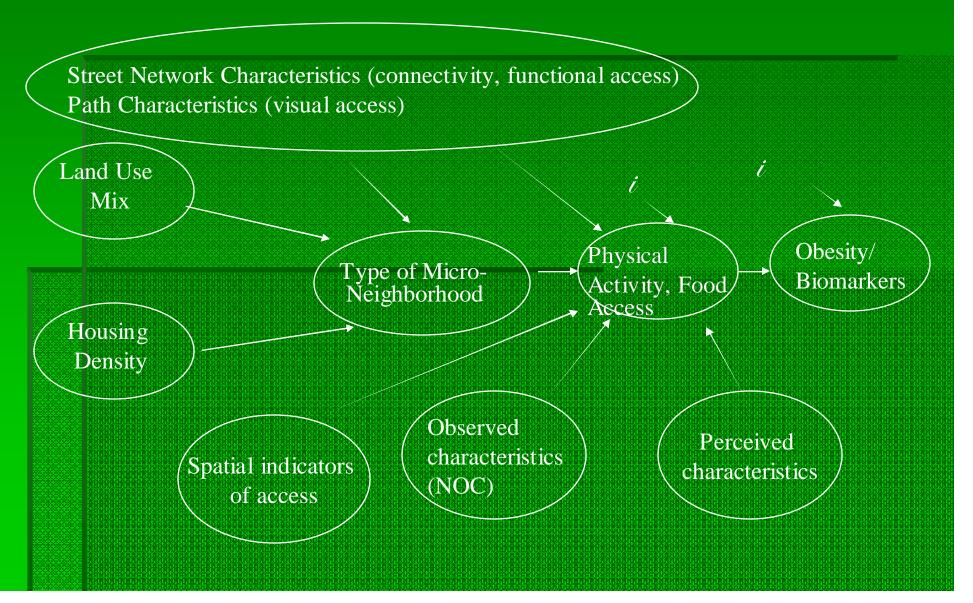
routes, and access to recreational spaces and parks." The first phase of the greenway will be 1.3 miles long and will be inaugurated on August 4th at the Conner Playfield Park, starting at 11:00 a.m. All community residents are welcome to attend. For more infor

#### Newsletters/Local Newspapers

Peer Reviewed Publications



# Assess contributions of five methods of assessing characteristics of the built environment for understanding pathways linking built environment & obesity



#### Shaping the research method: Assess Change in Physical Activity, Dietary Intakes & Obesity

- Currently planning 2<sup>nd</sup> wave data collection (Summer/fall 2008)
  - 2<sup>nd</sup> wave survey and biomarker data
    - SC engagement
    - Revised/expanded physical activity measures
    - Piloted use of pedometers & GPS for potential use with subset of wave 2 survey participants
    - Piloted use of 24 hour recalls
  - Mapping all food stores and restaurants
  - Direct observation of availability, selection, quality and price of food options for a wider range of food groups (e.g., produce, dry goods, dairy, fresh meat)

### Next steps: Promotional Activities

- Continued support of walking groups
- Greenway activities/events
- New grant proposal: builds in funds for minigrants to promote greenway activities
- New grant proposal: walking groups & training of local leaders





### **Next steps: Evaluation**

- Analysis of observational data along greenway
- Wave 2 data collection
- Analysis: what characteristics of neighborhoods influence greenway use?
- Analysis: what characteristics of neighborhoods influence physical activity?

