

MAC Presentation

- Sustainable Development
 - Environmental
 - Social
 - Economic
- Jim Van der Kloot
 - Sustainable Communities Coordinator
 - USEPA Region 5 - Chicago

What we build has consequences



Who benefits?

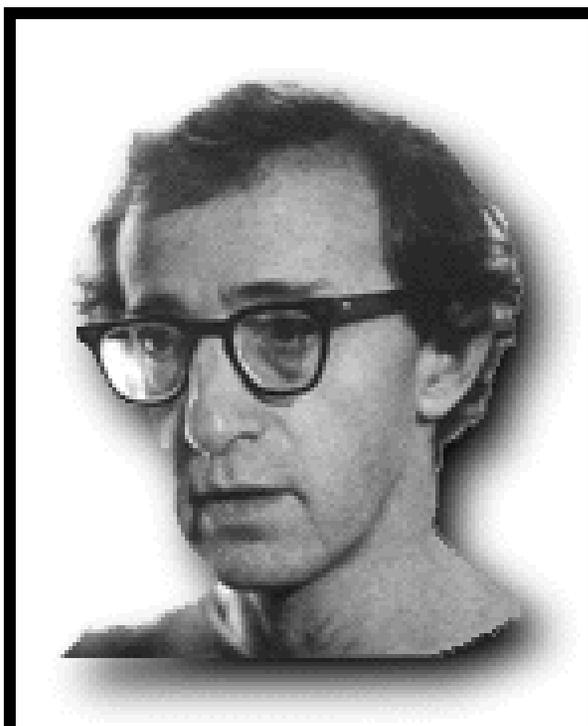


And, who bears the cost?

Designing to Reduce Water Pollution







“Nature and I are two!”

Woody Allen

Slide Courtesy of Liam Heneghan











Not so good.

Street Design



Good

Street Width

SEA Street - Before







**SEA Street
monitoring results
for two years:**

98%

**reduction in
total runoff
volume**

Parking Lots



Good – Run-off from the parking lot can be absorbed by the plants and soil



Not so good

Green Roof on Public Housing, Milwaukee

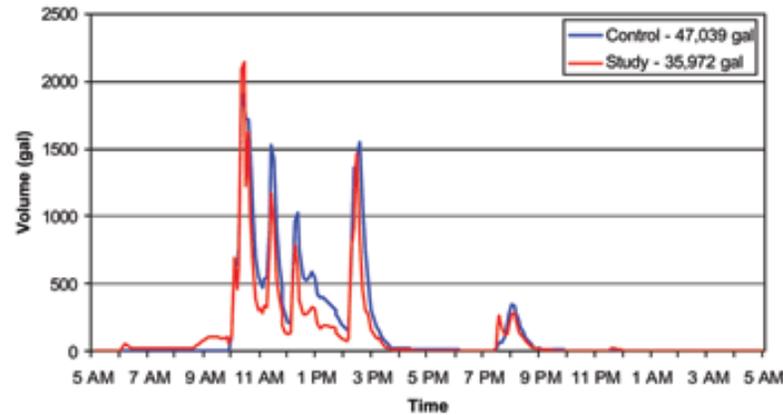




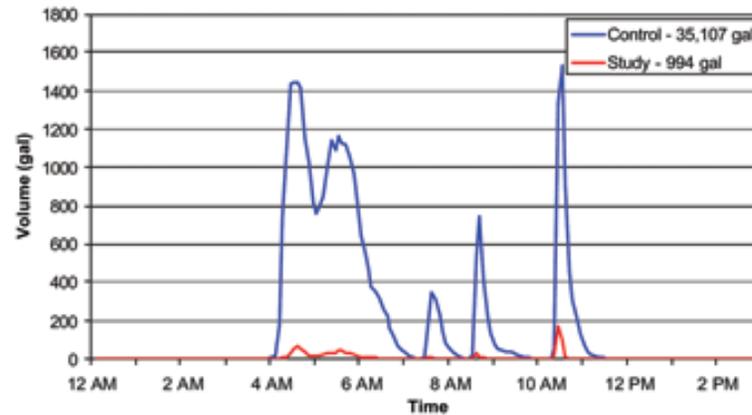
Burnsville, MN

Do Rain Gardens Really Work?

Pre-Construction Runoff Data
June 6, 2003
0.50" Rainfall



Post-Construction Runoff Data
May 29, 2004
0.71" Rainfall



Designing to reduce air pollution

Five Characteristics of Urban Form that Influence Travel and Air Quality

- Density
- Land Use Mix
- Transit Accessibility
- Improved Pedestrian Environment
- Regional Patterns of Development



This is illegal in many places

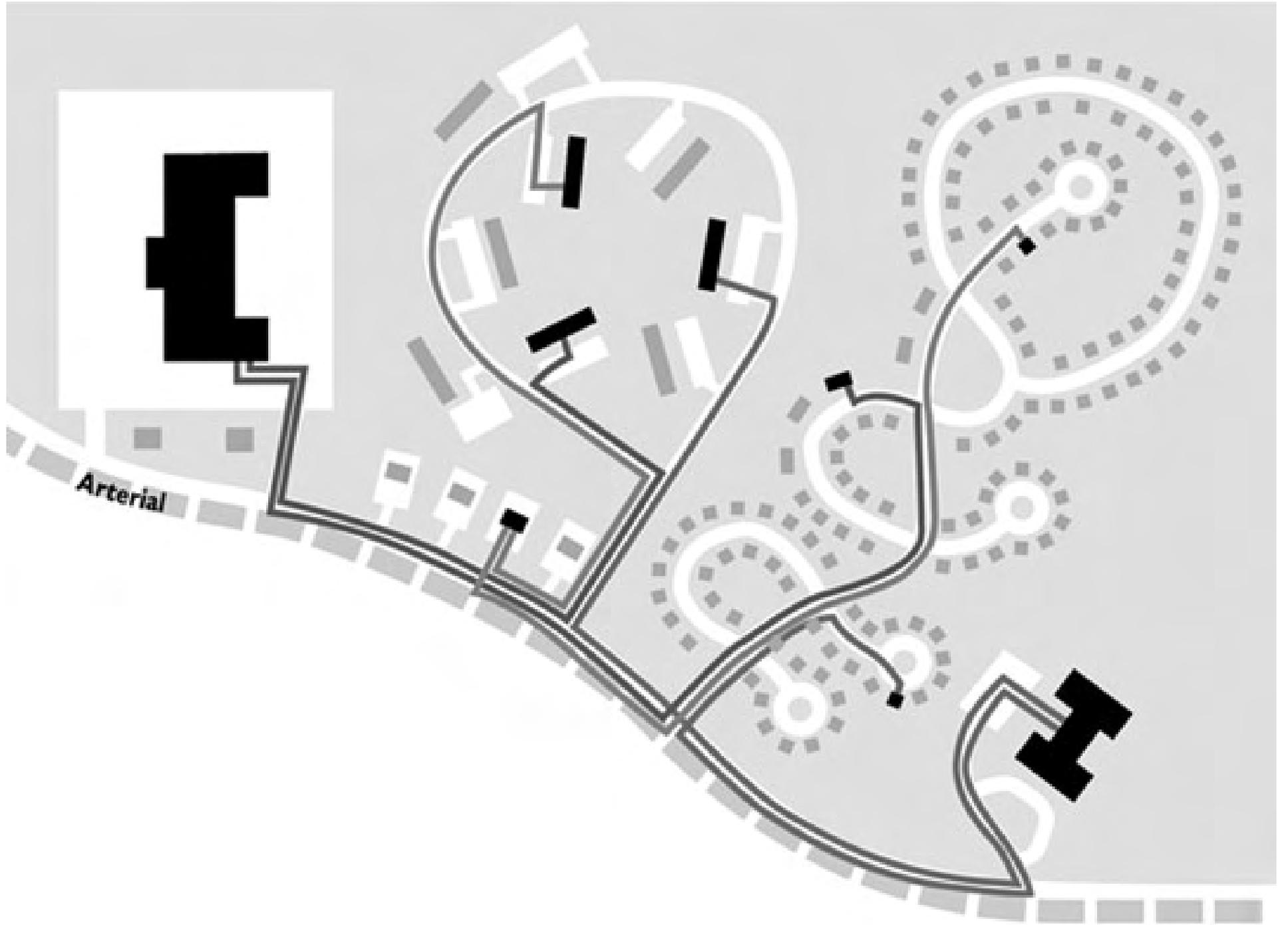






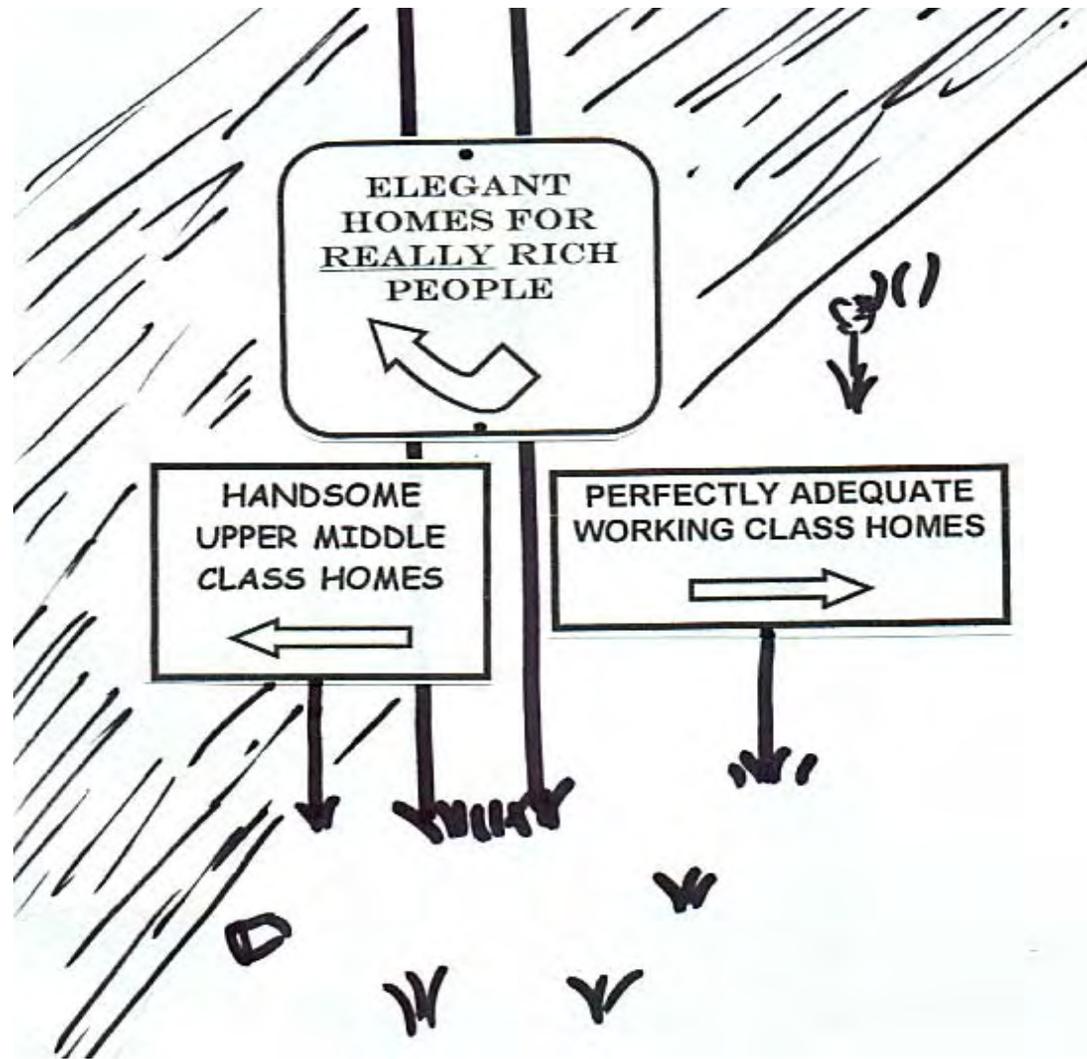






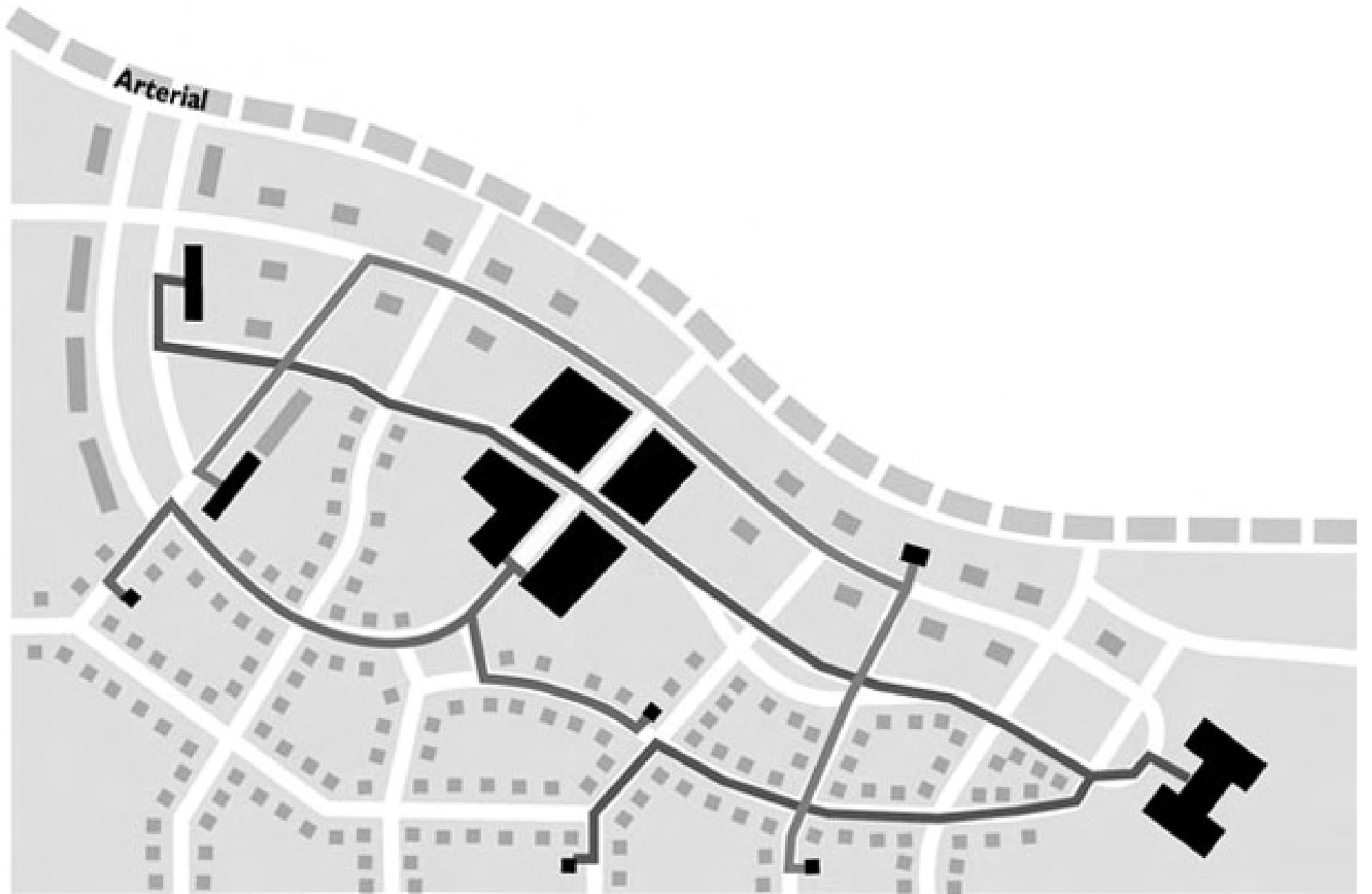
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Community Design and Income Inequality



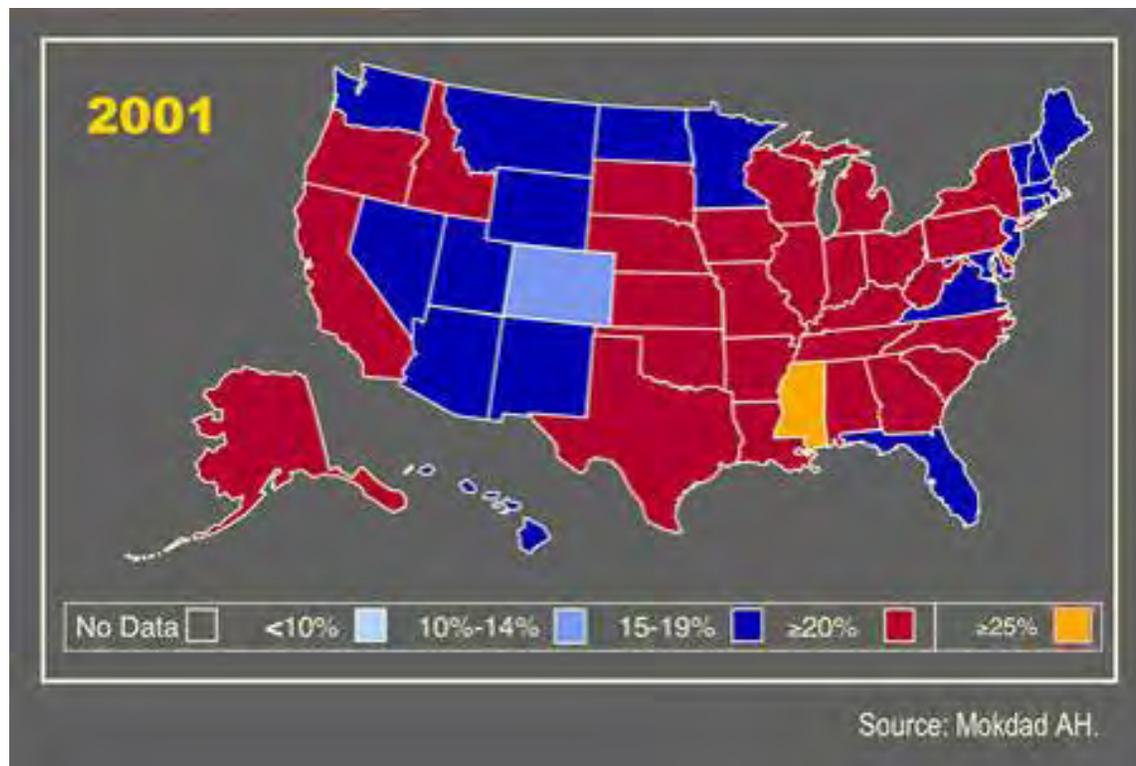
Community Design and Income Inequality





Americans are getting Heavier...

Obesity Trends in the United States





A nice redevelopment can boost
the surrounding community - -
Kenosha Harborpark



Planned Redevelopment





The Status Quo is Unhealthy

- Sprawl
- Increased driving
- Less walking
- Obesity
- Stress
- Safety issues



Many aspects of development have public health impacts

- More sustainable communities are healthier
- Most comprehensive approach is the LEED-ND standard



Healthy Communities: What can we do in redevelopment?

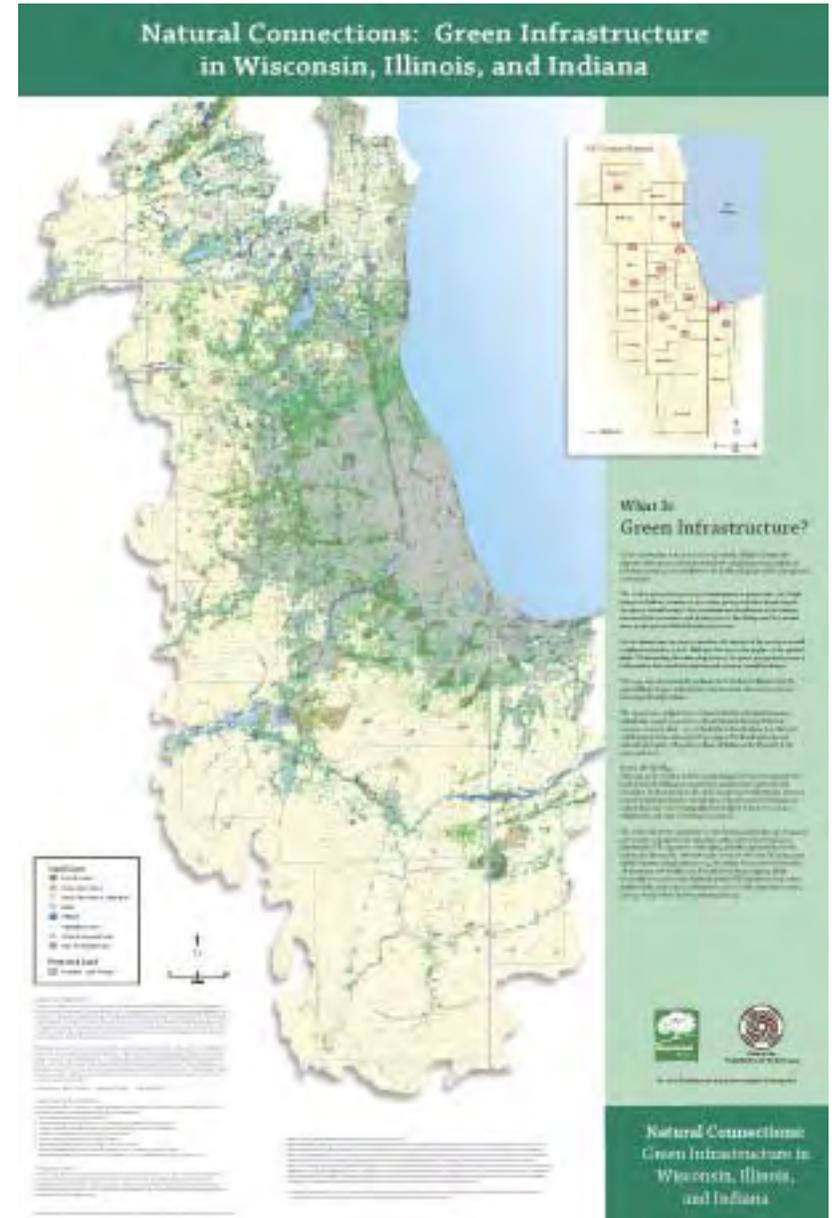
- ◆ Walkability
- ◆ Mixture of uses
- ◆ Transit accessibility



Nature and Health

- Green Infrastructure
- Linkage to stress reduction

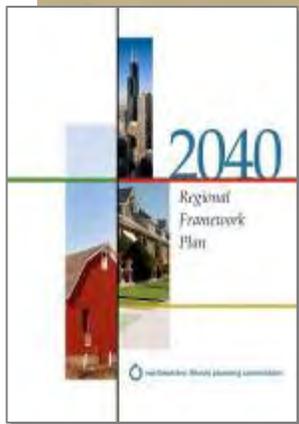
Natural Connections
GREEN INFRASTRUCTURE IN WISCONSIN, ILLINOIS & INDIANA



Regional Development Patterns



2006



Town Centers

Coordinating Development
with Transportation



05.20.2006

Thank you



Miller Brewing Rain Garden and Bioretention Swale

This project absorbs and treats stormwater and reduces combined sewer overflows!

A stormwater best management demonstration partnership of:

- Miller Brewing Company, Owner
- Milwaukee Metropolitan Sewerage District, Partner
- TEI Corporation, Designer-Builder



Information at the Miller Brewing Visitor's Center and at MMSD.COM