

Redeveloping vacant land as green infrastructure in Great Lakes cities

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Cleveland Botanical Garden









Cleveland Botanical Garden: Green Corps







Cleveland Botanical Garden: Green Corps

Green Corps: Agricultural urban work study

- est. 1996
- 6 learning farms, 1 10 parcels each
- 300 students





Great Lakes Protection Fund (GLPF)

Redeveloping vacant land as green infrastructure in Great Lakes cities

- Geri Unger & Sandra Albro, Cleveland Botanical Garden
- Rumi Shammin, Oberlin College
- Kyle Dreyfuss-Wells, Northeast Ohio Regional Sewer District
- William Shuster, US EPA

1-year planning grant

Can we justify large-scale green infrastructure projects?









Great Lakes Protection Fund (GLPF)

- A permanent environmental endowment
- Funding priorities:
 - collaborative, regional projects
 - tangible ecosystem improvements
 - ecological and economic health





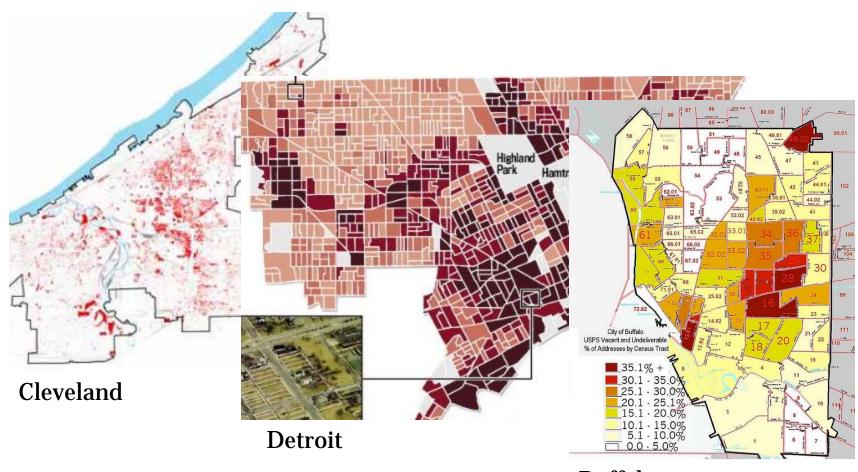
Project Background

- 1. Widespread water contamination
 - Combined sewer overflows (CSOs) and stormwater treatment bypasses
 - 24 billion gallons untreated water per year
 - 18 of 20 largest Great Lakes cities within AOCs
 - US EPA: Clean Water Act



Project Background

2. Abundance of vacant urban land



Buffalo

Project Background

- 3. Revitalization efforts in Great Lakes cities
 - local
 - small scale
 - variable

Large-scale, regional revitalization: Does it make sense?

• triple bottom line: social, environmental, economic

• justification



Project Overview

- 1-year planning grant
- A. Analysis: Triple bottom line
 - Post-doctoral research opportunity
- B. Regional dialogue: 3 in-person meetings
 - Current GI efforts
 - Barriers
 - Key questions
- C. Product: A 5-year action plan
 - Can we justify large-scale green infrastructure projects?
 - 4 − 6 projects to answer critical questions
 - Installation & maintenance costs
 - Hidden costs/benefits (social & environmental)
 - Potential funding sources

Project Overview

Focal cities:

- Duluth, MN
- Milwaukee, WI
- Chicago, IL
- Gary, IN
- Flint, MI

- Detroit, MI
- Cleveland, OH
- Toledo, OH
- Erie, PA
- Hamilton, ON

- Toronto, ON
- Windsor, ON
- Buffalo, NY
- Rochester, NY



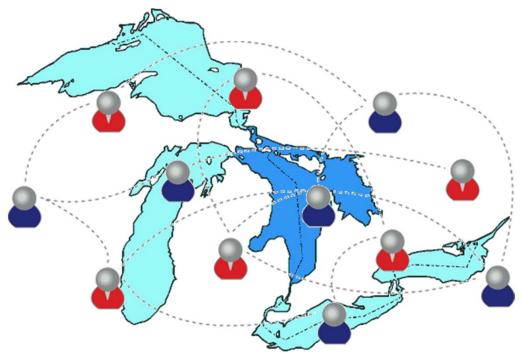
Project Overview

How you can be involved:

- Feedback
- Participation
- Recommend contacts
- Introductions

What we can offer:

- Regional networking
- Tie-in to local projects
- Input into future funding decisions
- Collaborative funding opportunities



Contact Us

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