



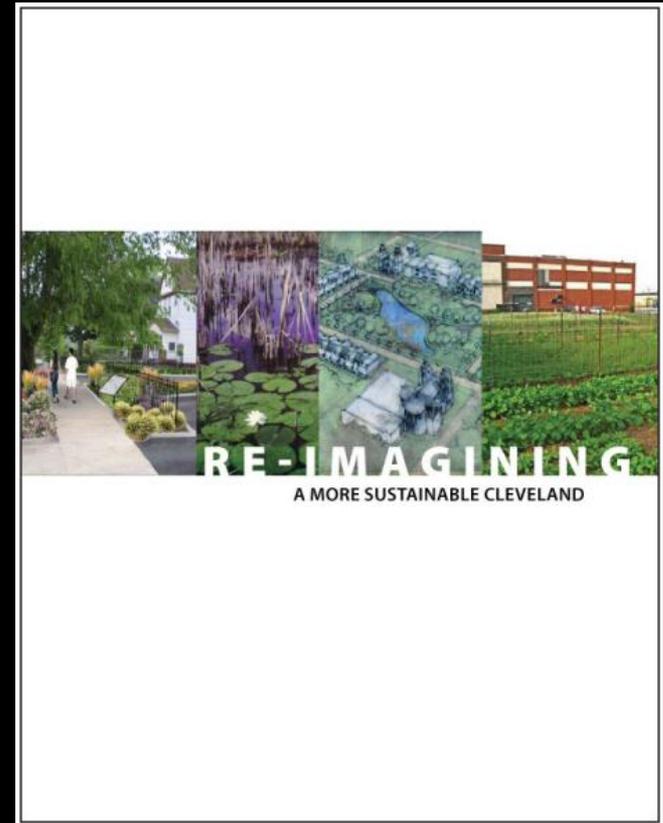
## Reimagining a More Sustainable Cleveland



# Re-Imagining Cleveland Vacant Land Study

## Opportunity:

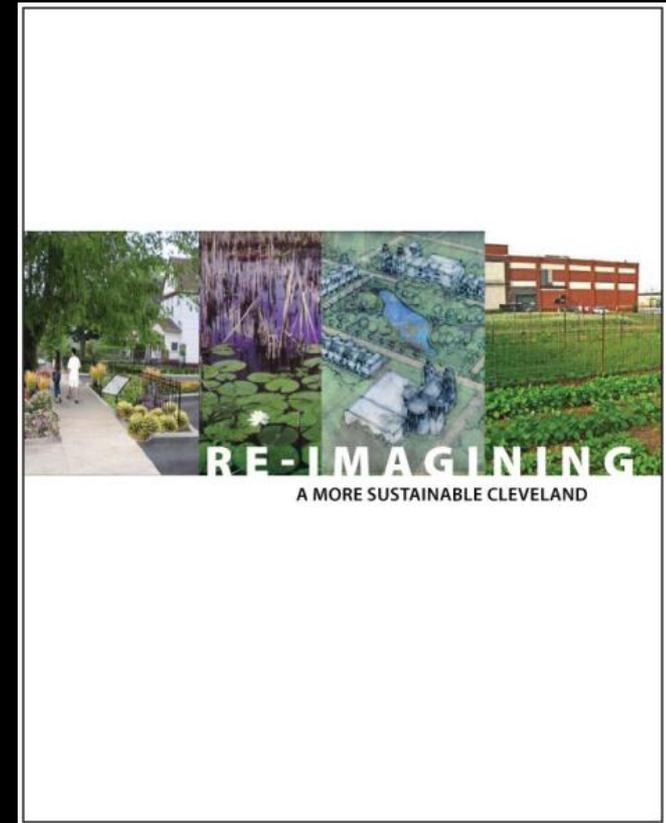
- Over 3,300 acres of vacant land throughout Cleveland
- Growing energy and innovation around the advancement of the regional local food and sustainability agenda



# Re-Imagining Cleveland Vacant Land Study

## Study:

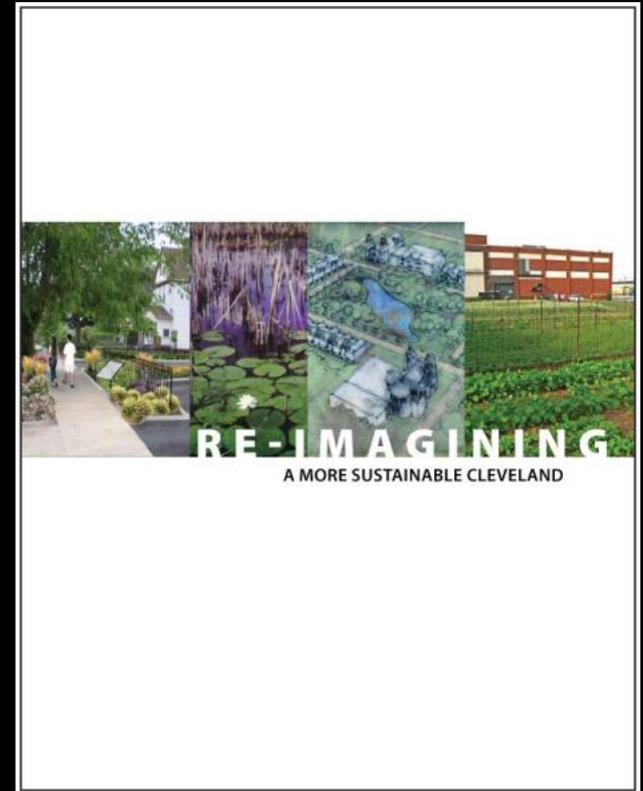
- Initiated in partnership with City Planning in 2008 with funding from the Surdna Foundation
- Neighborhood Progress hired the Cleveland Urban Design Center to carry out the study and engaged over 30 local experts on agriculture, brownfields, stormwater, etc. over the period of one year
- Mapped vacancy in relation to core development areas, vegetation, impervious surfaces, waterways, watersheds, soil type, environmental contamination, and existing green space



# Re-Imagining Cleveland Vacant Land Study

## Accomplished:

- Identified and explored a wide range of land reuse strategies that link natural and built systems to improve the quality of life and the long-term health of residents and the environment
- Identified criteria for implementing reuse strategies and
- Developed policy recommendations to support land reuse



# VACANT LAND STRATEGIES *City-Wide*

1. Neighborhood stabilization / holding strategies
2. Green Infrastructure
  - *Green space network*
  - *Ecosystem restoration, stormwater management*
  - *Environmental remediation*
3. Productive Landscapes
  - *Energy generation*
  - *Agriculture and community gardens*



# SHOULD THE SITE BE PRESERVED?

decision factors



green space potential?

yes

preservation strategy

holding strategy

no

menu of treatments

1. energy generation
2. stormwater management
3. park / natural area / linkage
4. agriculture
5. tree nursery
6. remediation

short-term development potential

menu of treatments

1. greening / holding
2. landscape buffer

development potential?

long-term development potential

menu of treatments

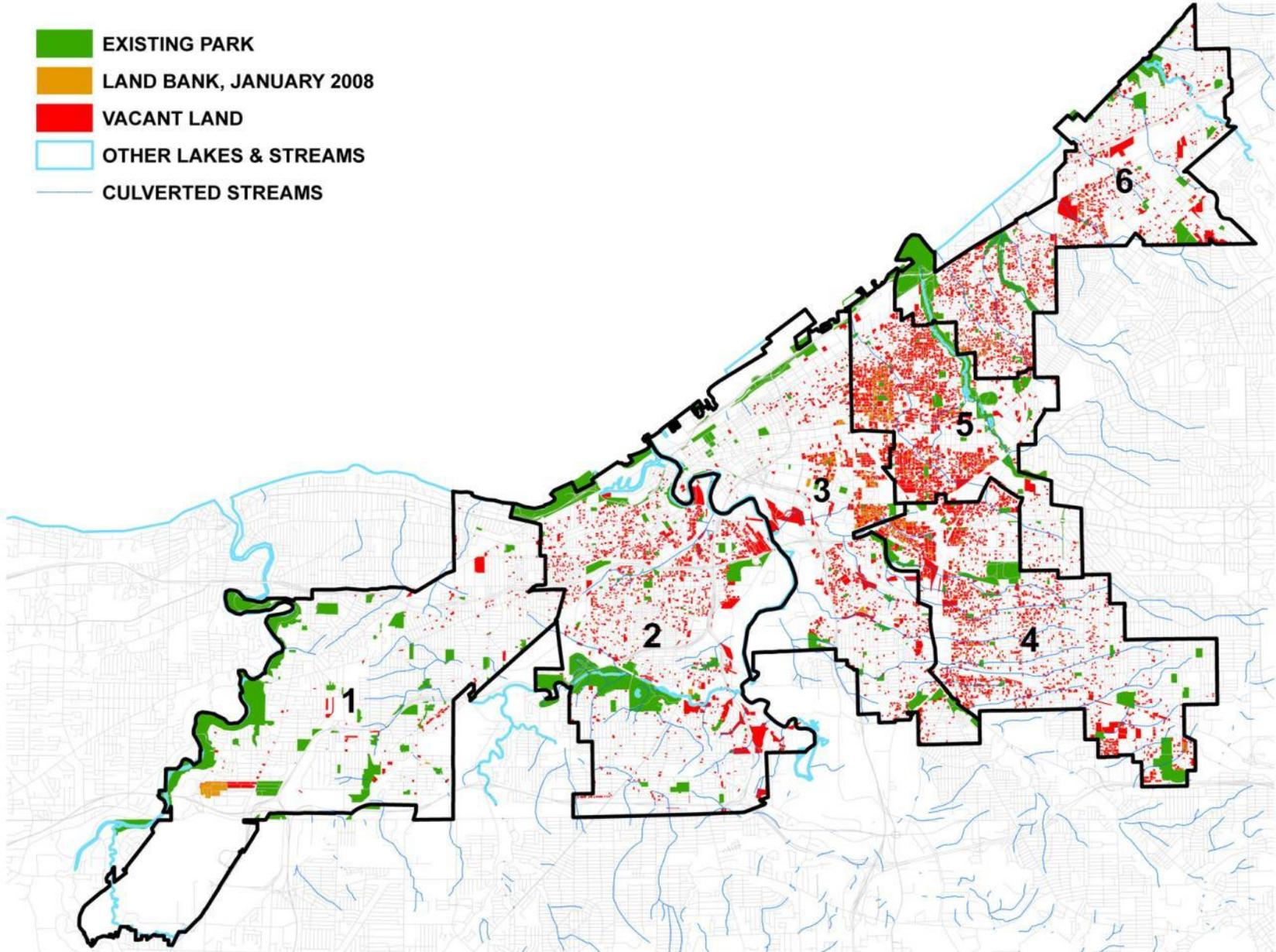
1. community garden
2. remediation
3. pavement removal
4. greening / holding
5. stormwater management

choose a treatment

implement land preservation or development strategy

# Mapping: Vacancy and Existing Greenspace

- EXISTING PARK
- LAND BANK, JANUARY 2008
- VACANT LAND
- OTHER LAKES & STREAMS
- CULVERTED STREAMS

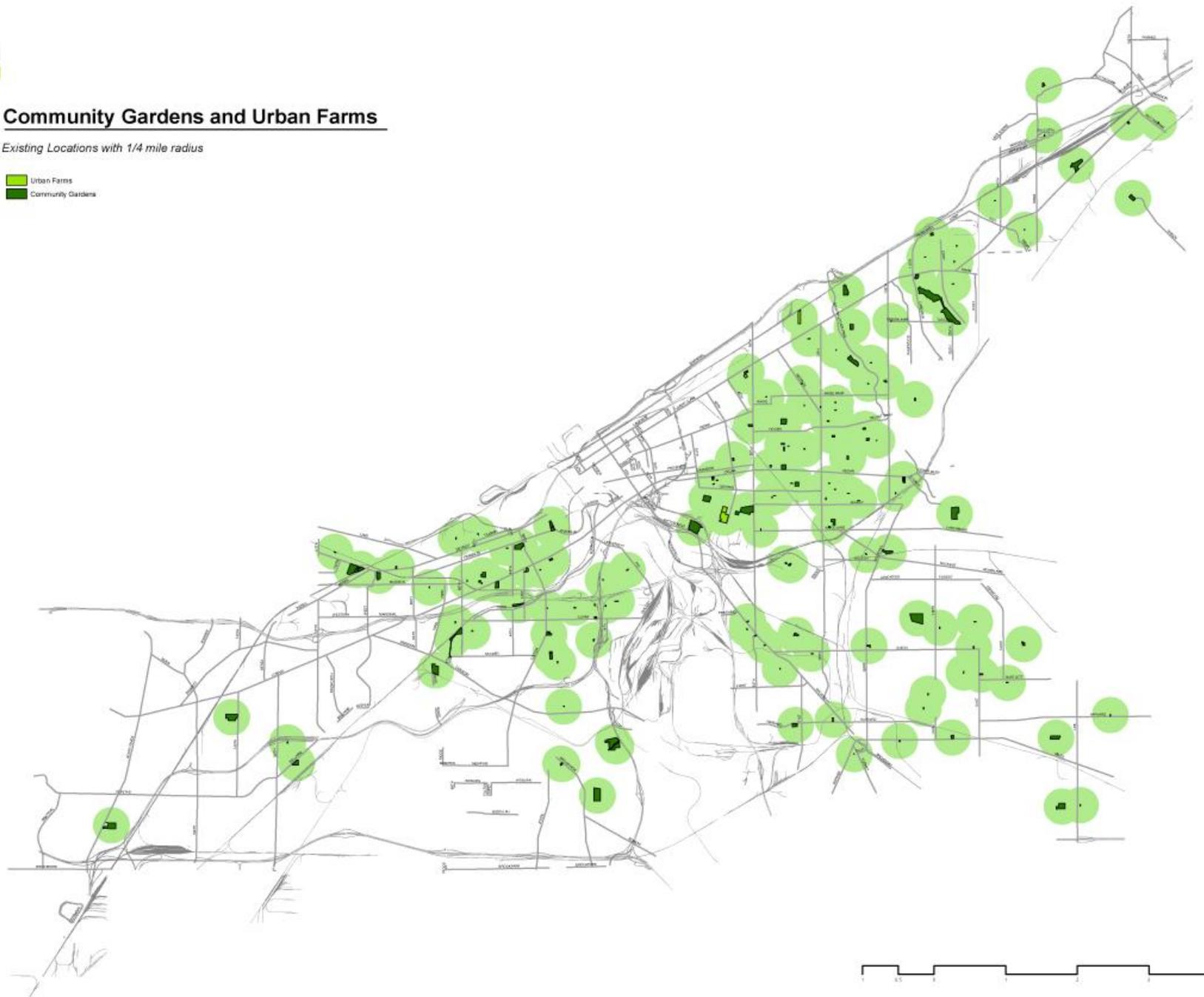




## Community Gardens and Urban Farms

Existing Locations with 1/4 mile radius

- Urban Farms
- Community Gardens



# Re-Imagining Cleveland Resources

## Pattern Book

Identifies and illustrates a suite of reuse strategies including:

- Short term stabilization and holding strategies
- Green infrastructure (native landscaping, rain gardens, pocket parks, etc)
- Productive landscapes (community gardens, market gardens, orchards and vineyards)



# Split Lot Greening



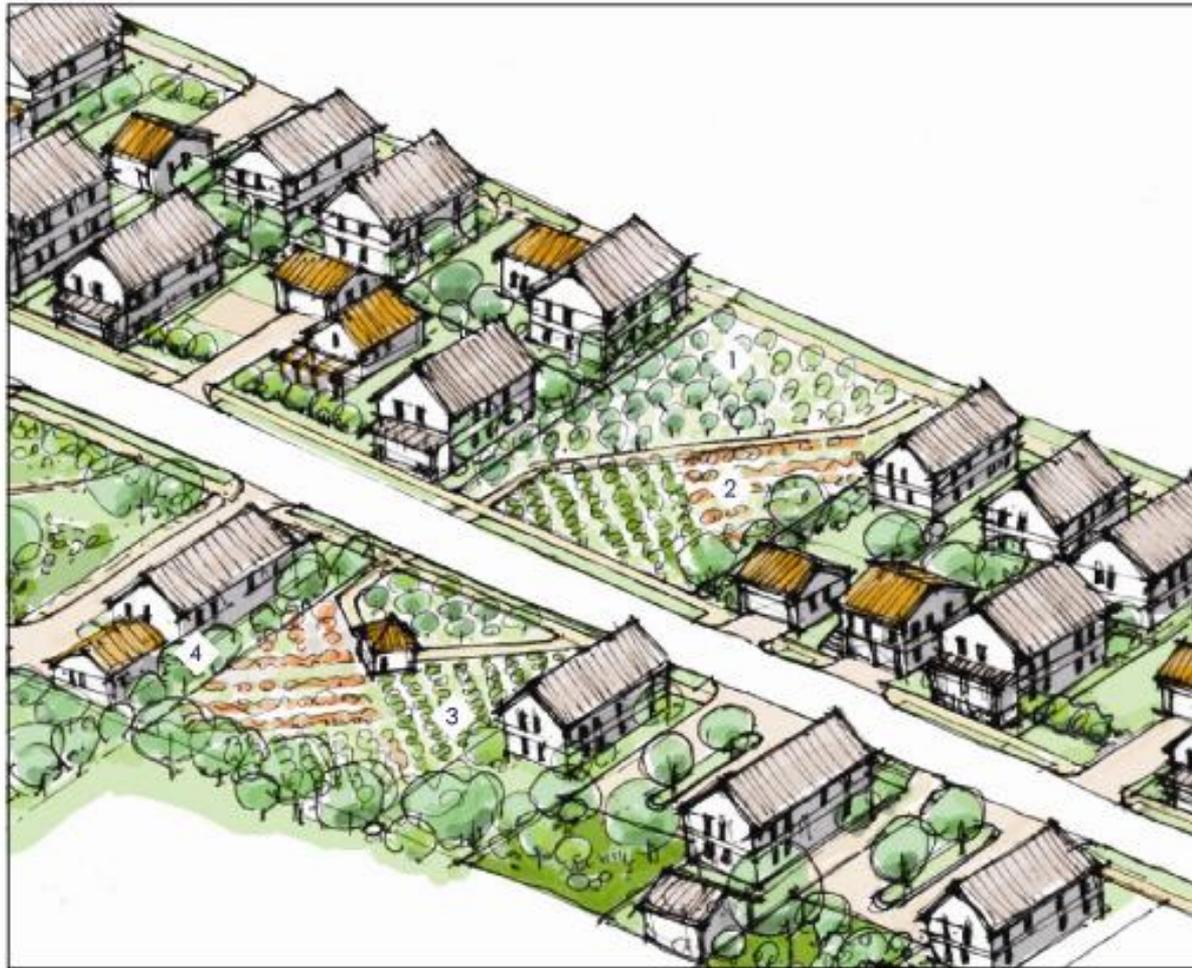
- 1\_tree buffer
- 2\_gravel path
- 3\_gathering
- 4\_gardens



Neighborhood Pathway creates an opportunity to develop a parklike setting that functions as both a neighborhood amenity or gathering place as well as to create an added connection between two parallel streets. This pattern would prove to be of great use in areas where the blocks are very long reducing non-automobile travel time. (see Jane Jacobs Ch.?)

# Central Green

tree nursery



- 1\_evergreens
- 2\_flowering tree
- 3\_shrubs
- 4\_rainbarrel



Neighborhood Pathway creates an opportunity to develop a parklike setting that functions as both a neighborhood amenity or gathering place as well as to create an added connection between two parallel streets. This pattern would prove to be of great use in areas where the blocks are very long reducing non-automobile travel time. (see Jane Jacobs Ch.9)

# Central Green

tree nursery

## Per Unit Cost Estimations

site demolition/grading_\$20 per cubic yard_(200)	.....\$4000
<b>walkway/paving materials</b>	
compacted crushed gravel_\$1.50 s.f._(2,400)	.....\$3,600
<b>driveway paving materials</b>	
4" pervious asphalt_\$45 per square yard_(50)	.....\$2,250
<b>fencing</b>	
6' wood frame/wire_\$40 l.f._(340)	.....\$13,600
entry gate_\$1,500 ea_(1)	.....\$1,500
<b>furnishings</b>	
rainbarrels_\$250 ea_(6)	.....\$1,500
<b>irrigation</b> _ \$1.25 s.f._(4,000)	.....\$5,000
<b>landscape materials</b>	
planting mixture_\$45 per cubic yard_(150)	.....\$6,750
mulch_\$40 per cubic yard_(25)	.....\$1,000
<b>plant materials</b>	
8' evergreen-spruce, fir_\$250 ea_(12)	.....\$3,000
tree liners_\$100 ea_(15)	.....\$1,500
4' upright shrub-viburnum, thuja_\$80 ea_(5)	.....\$400
rye seeding_\$0.10 s.f._(2,000)	.....\$200

## Central Green Total Cost Estimate

subtotal cost_\$5.49 per square foot	.....\$43,900
contingency_10%	.....\$4,390
design/engineering_15%	.....\$6,585
<hr/>	
total project cost	<b>\$54,875</b>

## Recommended Materials

pervious paving



fruit trees

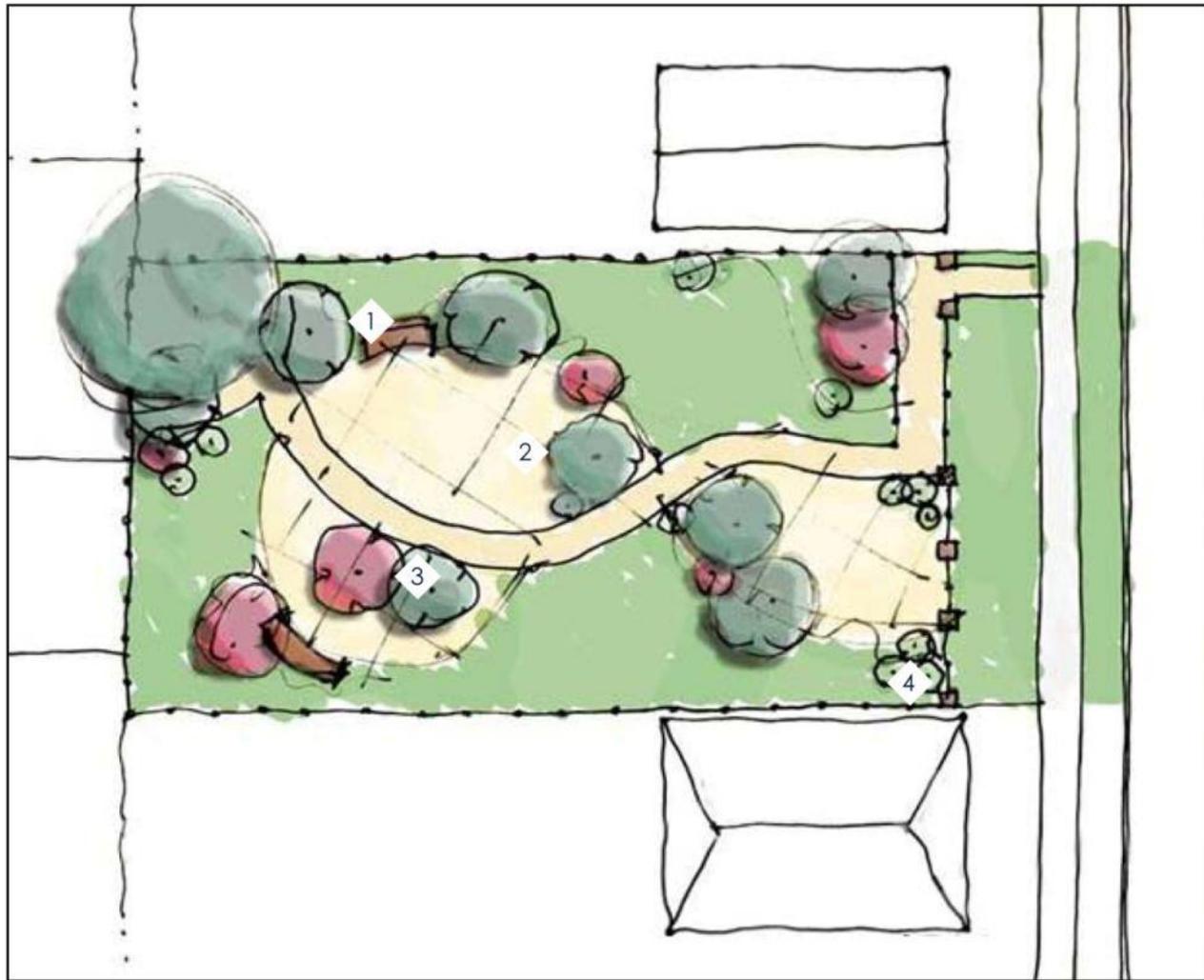


rainbarrel



Cost Estimate ..... Parcel Area\_8,000 square feet (0.18 acre)

# Pocket Park



- 1 seating
- 2 paving
- 3 fruit trees
- 4 gardens



Vacant lots on residential streets can provide a community area for residents, as either a community garden or a passive green space with seating. The plants selected will need to thrive in the shade, especially if the lot is narrow and is framed by houses on either side. Stewardship is the key to making this strategy successful. A community development corporation, a block club, a church group, or an informal alliance of neighbors can assume responsibility for the upkeep of a pocket park. The side and rear edges of a pocket park should have fencing, hedges, or other screening to buffer adjacent homeowners from noise and activity in the park.

Per Unit Cost Estimations

site demolition/grading \$20 per cubic yard (25).....\$500

**landscape materials**

topsoil \$25 per cubic yard (45).....\$1,125

**furnishings**

waste receptacles \$600 ea. (1).....\$600

5' stone seat walls \$500 ea. (2).....\$1,000

**plant materials**

8' evergreen-spruce, fir \$250 ea. (12).....\$3,000

6' flowering tree-flwg.plum \$200 ea. (3).....\$600

low mow seeding \$0.12 s.f. (3,200).....\$384

**property acquisition**

to be determined case by case

*Pocket Park Total Cost Estimate*

subtotal cost \$1.81 per square foot.....\$7,209

contingency 10%.....\$720

design/engineering 15%.....\$1,081

total project cost **\$9,010**

**Cost Estimate..... Parcel Area 4,000 square feet (0.09 acre)**

Recommended Materials

stone seat wall



evergreens



perennials



# Re-Imagining Cleveland Resources

## The Ohio Greenprint:

- A free online user-friendly GIS mapping tool used for community land reuse planning
- Developed by the Trust for Public Land and tailored to include mapping layers represented in the Vacant Land Study



# Re-Imagining Cleveland Resources

## The Ohio Greenprint:

Data layers added to make the tool relevant to vacant urban land:

- Vacancy – determined by City Planning
- Land Bank parcels
- Brownfield sites (County data)
- CDC service boundaries
- Ward boundaries
- Soil types



# ***Re-Imagining Cleveland Vacant Land Re-use Grant Program***

**Total Applications Received – 110!**

**Funding:**

- **\$500,000 in City of Cleveland Neighborhood Stabilization Program Funds**
- **\$86,000 from Neighborhood Progress**



## **Example Review Criteria:**

Located in HUD Neighborhood Stabilization Program target area

Prior land use residential

Fit with neighborhood land use plan

Organizational capacity and experience of applicant

Community support

Visibility

Environmental and Social benefit

Budget Accuracy

# Re-Imagining Cleveland Vacant Land Re-use Grant Program

## Greening - 26 Projects

Phytoremediation	3
Native Plantings	3
Storm water	2
Pocket Parks	14
Side yard Expansions	2 (6 yards)
Parking	2

## Urban Agriculture – 30 Projects

Community Gardens	13
Market Gardens	12
Orchards	2
Vineyards	3

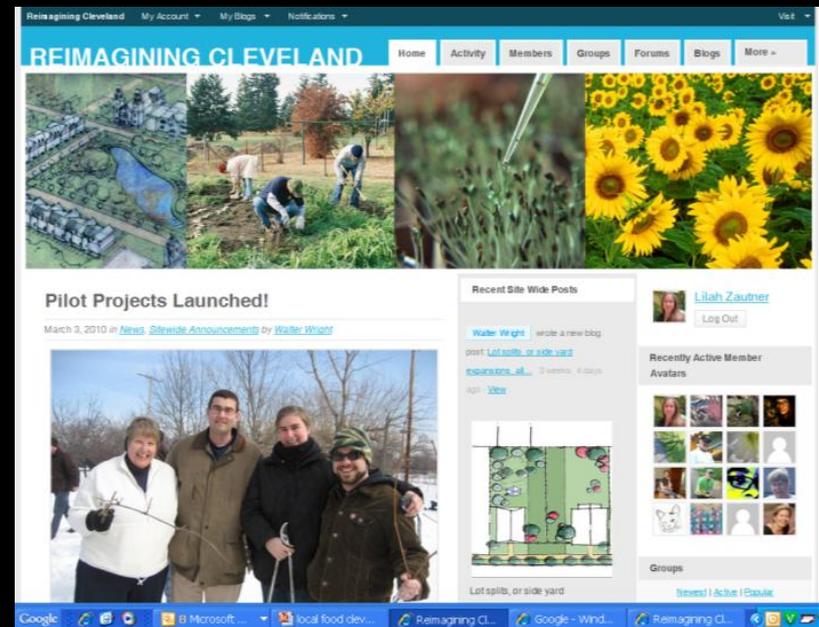




# Re-Imaginingcleveland.org

- Created by Neighborhood Progress and Cleveland State University
- An interactive website to shine a spotlight on our first Land Reuse Heroes and to share successes and challenges, stories, photos, resources and learn of upcoming events and workshops.
- Many project groups will be documented by CSU through oral history interviews and photography

**Watch our progress!**



# Re-Imagining Cleveland

## Evaluation of Pilot Projects:

- How did the Cleveland pilots fare against their expectations for becoming fully operational in 2010 and for testing innovative approaches to land reuse?
- What factors influenced their successes?
- What were the major obstacles to successful implementation, and what are the potential and the known solutions?
- How did federal funding (through the Neighborhood Stabilization Program [NSP]) affect the initiatives?
- How did the initiative affect city policy?
- What early sense, can we get of the impact of this work?



# *Re-Imagining Cleveland*

## Evaluation of Pilot Projects:

- Are there benefits to community residents for having participated in it?
- Has a sense of community stewardship been developed? Is it evidenced by continued maintenance, broad volunteer base, plans/ideas for additional projects?
- Is the Cleveland grassroots model cost effective compared to programs in other cities where different models are used? ( The centralized operation done by one city-wide non-profit in Philadelphia and by the City itself in Pittsburgh.



# *Re-Imagining Cleveland*

## Evaluation of Pilot Projects:

- How the data will be collected –
- In person interviews of project leaders by Cleveland State University students
- Survey of project participants and residents surrounding the projects
- Cost analysis comparing Cleveland, Pittsburgh and Philadelphia



# Re-Imagining Cleveland

## Evaluation of Pilot Projects:

Length/Duration

Phases

Funding sources #

Funding sources variety

Partners #

Partners variety

# of projects

# of people affected

# acres

# of projects

Avg cost per project

Project survival rate

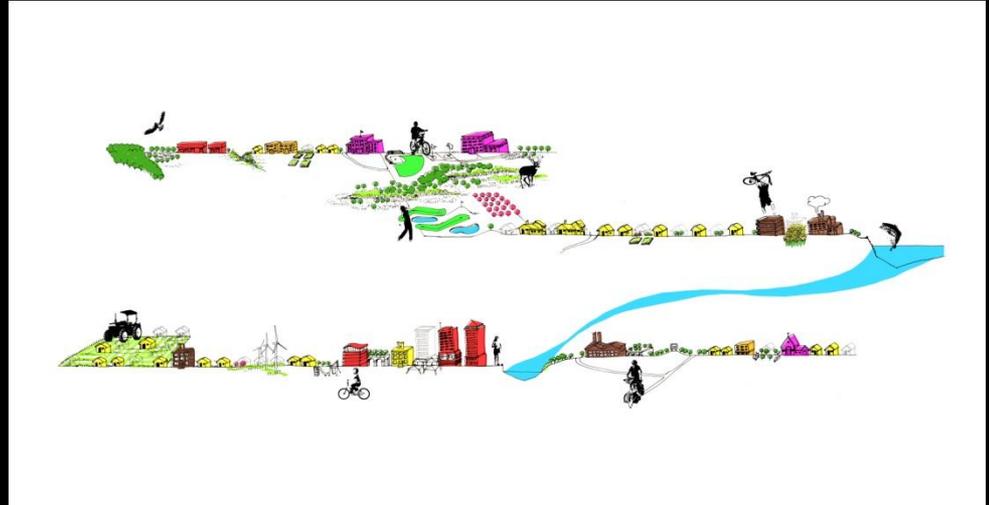


# **Re-Imagining Cleveland 2.0**

## **Identifying Catalytic Large Scale Projects**

**Follow up study to identify projects in the following areas:**

- **Agriculture**
- **Alternative Energy**
- **Brownfield Remediation**
- **Green Space Expansion**
- **Land Assembly**
- **Neighborhood Stabilization**
- **Sustainable Pattern of Development**
- **Stormwater retention**



# *Re-Imagining Cleveland*

## *Creating a Regional Food Network*

### **Northeast Ohio Local Food Assessment**

- **Funded by the Cleveland Foundation and spearheaded by ParkWorks, NPI, Local Food Policy Coalition and Cleveland Urban Design Center.**

**The assessment will:**

- **Document the current state of the NE Ohio food system**
- **Analyze the feasibility and impact of expanding our local food system**
- **Develop a regional business/strategic plan to strengthen the local food system**

**Job Training**

**Community Kitchen**

**Season Extension**

**Farming Incubator**

**Market Development**

# Reimagining a More Sustainable Cleveland

