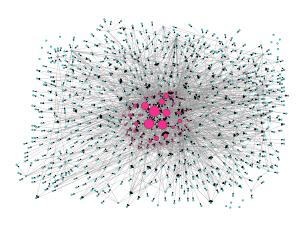
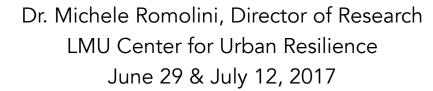
### LA Stew-MAP Workshops: How Can Stewardship Data Inform Practice?















### **Plan for Today**

9:00-9:30 Check-In & Coffee

9:30-9:45 Welcome and Overview

9:45-10:45 Stew-MAP Research Review

10:45-11:00 Coffee Break

11:00-12:00 Guided Discussion

12:00-12:30 Conclusion & Next Steps

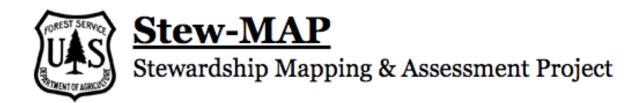
### During the Research Review...

- Please feel free to interrupt with questions or comments
- Whenever you have a "that's really neat" or "I could use that" moment, write it down!
- On the flip side, if you see something that may be interesting but not particularly useful to you, I'd like to know that too

#### LA Stew-MAP

- The Los Angeles Stewardship Mapping & Assessment Project seeks to <u>find</u>, <u>survey</u>, and <u>map</u> all the groups and organizations working on urban environmental stewardship.
- Results from the LA Stew-MAP research can help us better understand the <u>activities</u>, <u>partnerships</u>, and <u>geographical extent</u> of stewardship in Los Angeles County.
- Stew-MAP is a national US Forest Service research effort, with ongoing projects in Baltimore, Chicago, New York City, Philadelphia, San Juan, and Seattle.

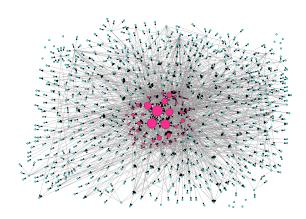


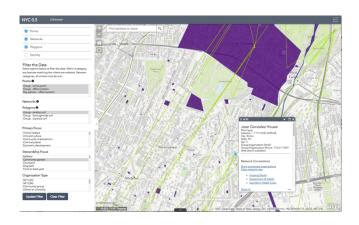


#### LA Stew-MAP Goals

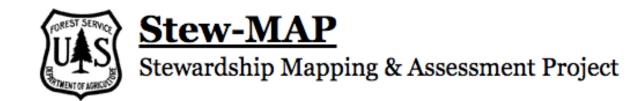
- Conduct research to inform theory & practice
- Provide data to facilitate decision-making
- Request feedback on which data is of interest and how it may be most useful ← today's goal!









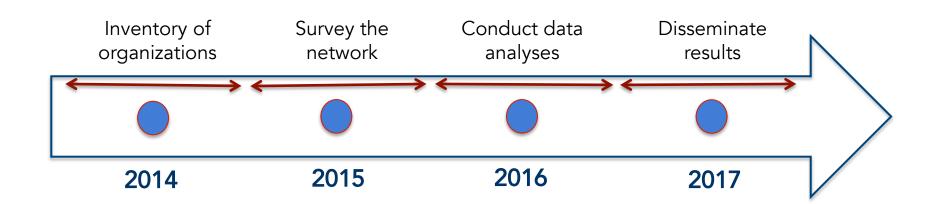


# How do we define environmental stewardship?

environmental stewardship:
the act of conserving, managing, monitoring,
advocating for, and/or educating the public about
their local environments



### LA Stew-MAP Research Approach



Key informant meetings, compilation of organizational directories and snowball sampling

Questions about:
organization
characteristics,
relationships with
other groups, &
locations of their
activities

Descriptive
statistics, social
network
analyses, GIS
analyses, and
spatial
regression
analyses

Share results regionally to see how data may best inform practice. Begin collaborative development of tools/products

# LA Stew-MAP Survey Questions – Organizational Characteristics

- Legal designation (sector)
- Focus/mission (all)
- Focus/mission (primary)
- # FT & PT staff, members, volunteers
- Annual budget
- Primary funding source
- Types of services provided
- Method of sharing information with the public

# LA Stew-MAP Survey Questions – Stewardship Locations

- Geographic location of office
- Geographic "turfs" of stewardship activities
- Types of sites for stewardship activities
- Ownership of properties
- Whether organization keeps spatial data

# LA Stew-MAP Survey Questions - Network Relationships

- Regular collaborations on environmental projects
- Information, advice, expertise providers
- Funding providers

## LA Stew-Map Results Population of Organizations

- Initial inventory found 715 community groups, non-profits, city agencies, and businesses participating in environmental stewardship in Los Angeles County
- **140** organizations (20%) responded to the survey
- Respondents named an additional 430 groups and organizations as stewardship collaborators, advisers, and/or funders that were not previously identified
- 1145 = population of LA stewardship organizations

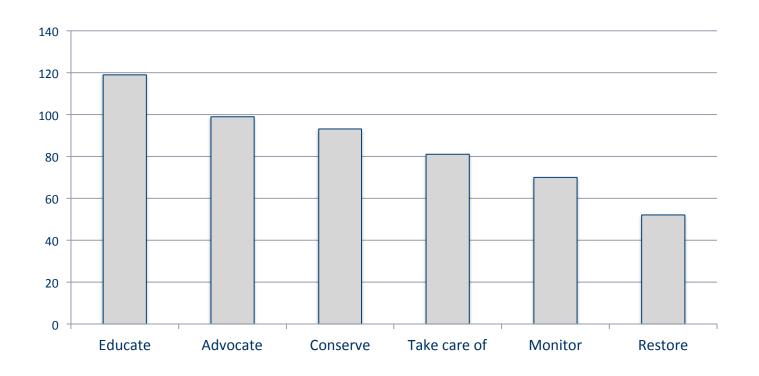


#### **Organization Sector**

 Majority of respondents were from the non-profit sector, followed by public, private, and other:

Legal Designation	Percent (N=136)	
501(c)(3) (or has applied)	49%	
Community group without (501)(c)(3)	8%	
	NON-PROFIT	57%
Local government agency	31%	
State government agency	2%	
Federal government agency	2%	
Public administration district	1%	
	PUBLIC	35%
Private firm, for profit business	5%	
	PRIVATE	5%
Other	3%	
	OTHER	3%

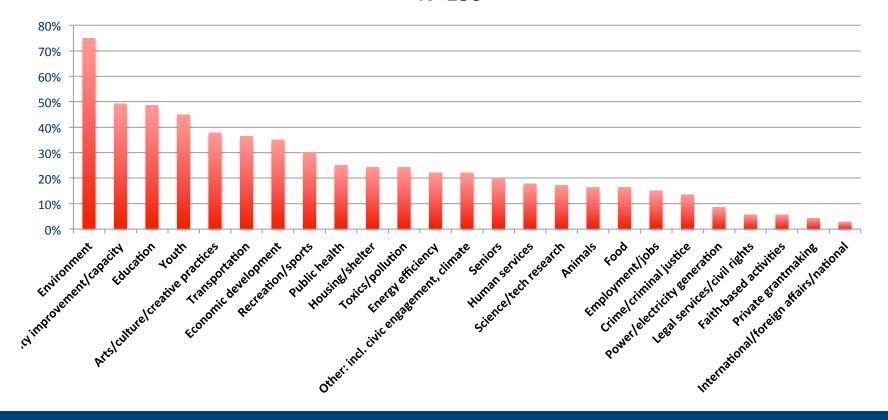
### Stewardship type



#### **Organizational Focus**

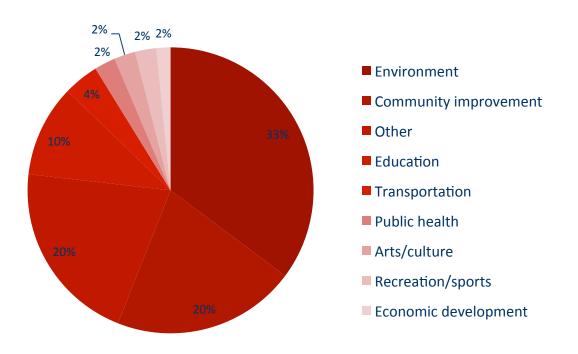
Most reported "what do you work on?": the environment (75%), community improvement/capacity building (49%), education (49%), youth (45%) and arts/culture (39%)

What do you work on? Select all that apply. N=136



# LA Stew-MAP Results Organizational Focus

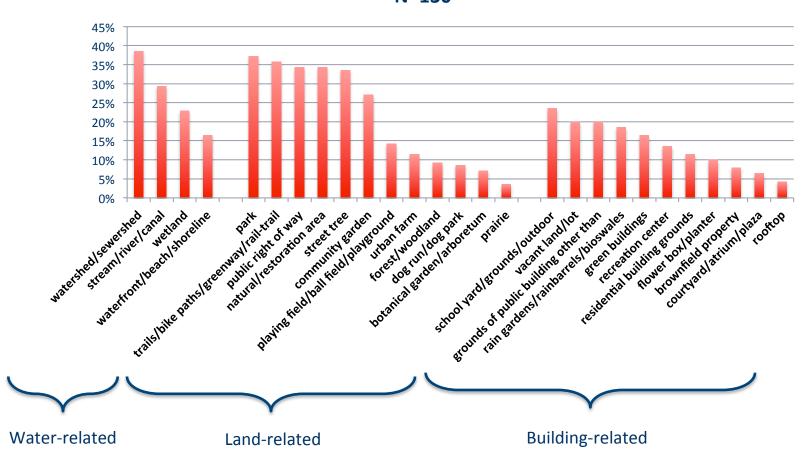
#### Primary Organizational Focus (n=133)



#### Site Types of Stewardship Activities

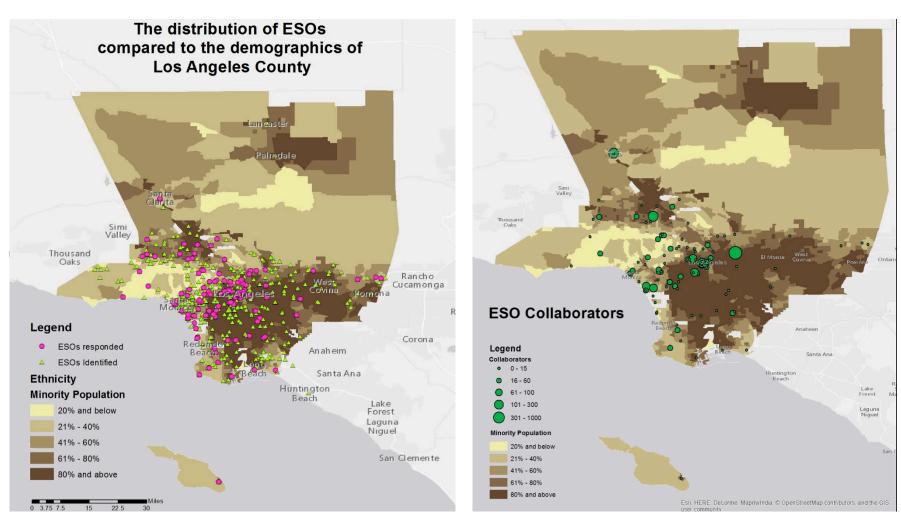
Where do you conduct stewardship activities? Select all that apply.

N=130



# LA Stew-MAP Results Geospatial Analysis

- Addresses were mapped for all 715 surveyed stewardship organizations
- Addresses of the 430 additional collaborating organizations were identified and mapped separately
- Part of LMU graduate student thesis on the spatial relationships between environmental stewardship locations and demographics in LA County



Golly, K. "Assessing the distribution of Environmental Stewardship Organizations and demographics in Los Angeles County." Poster presented at the National Adaptation Forum, Saint Paul, MN: May 9-11, 2017.

# LA Stew-MAP Results Geospatial Analysis

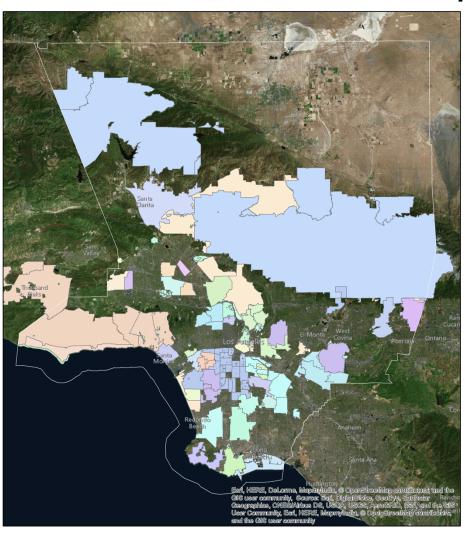
- 115 groups provided text responses to describe the geographic locations of their stewardship activities
- These stewardship "turfs" were translated into geospatial polygons using ArcGIS







#### Stewardship Turfs



- 91 organizational stewardship turfs
- For visual clarity, this layer does not include the 24 organizations that indicated working city, county, or region-wide

### LA Stew-Map Results

### Regional Stewardship

#### **Organization Areas - City Wide**



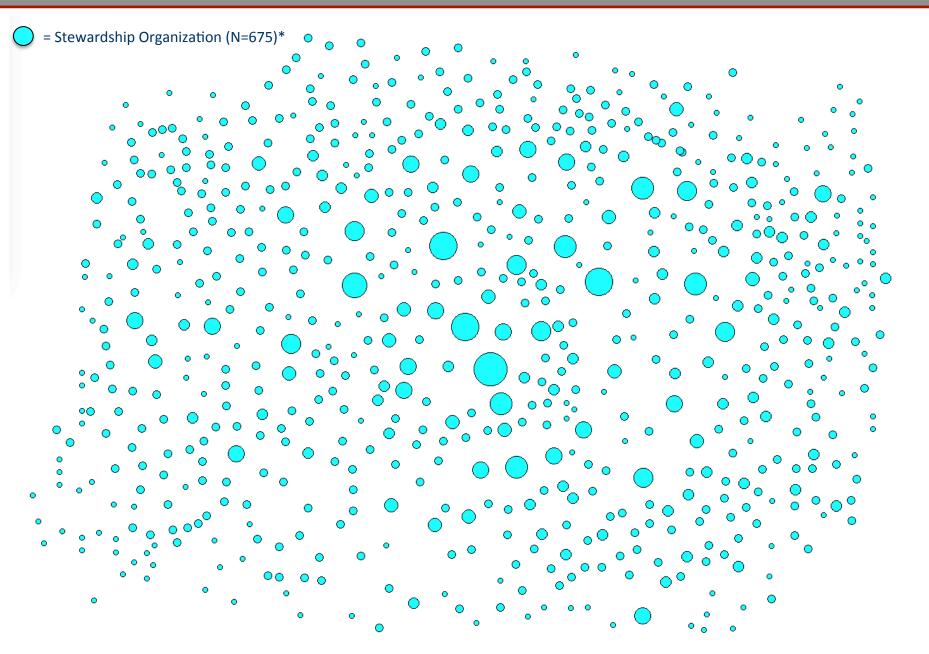
#### **Organization Areas - County Wide**



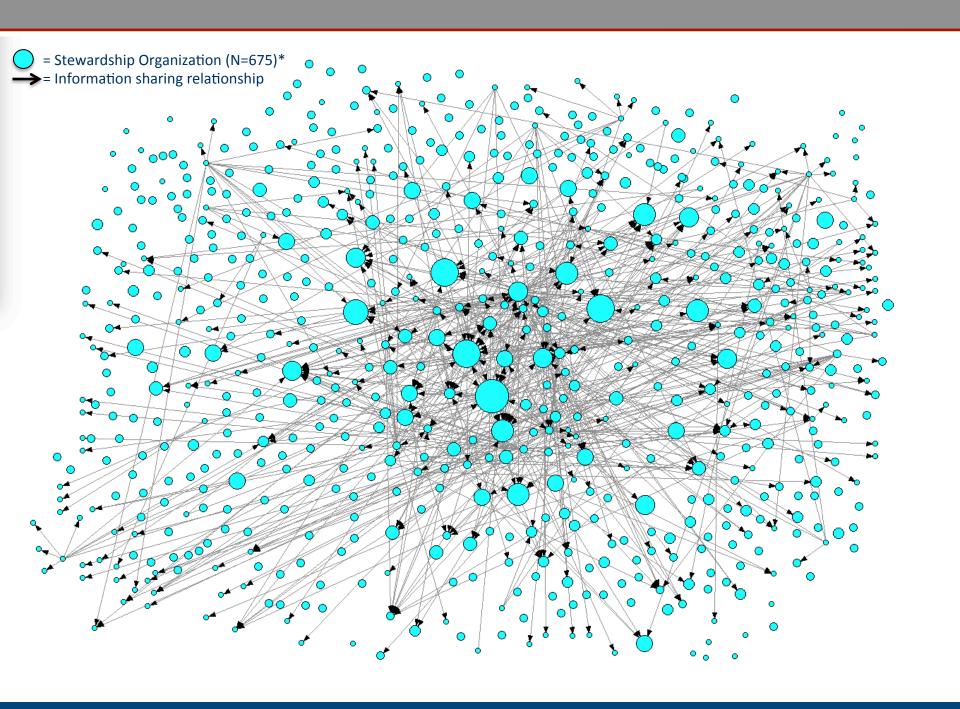
## LA Stew-MAP Results Collaborations through Networks

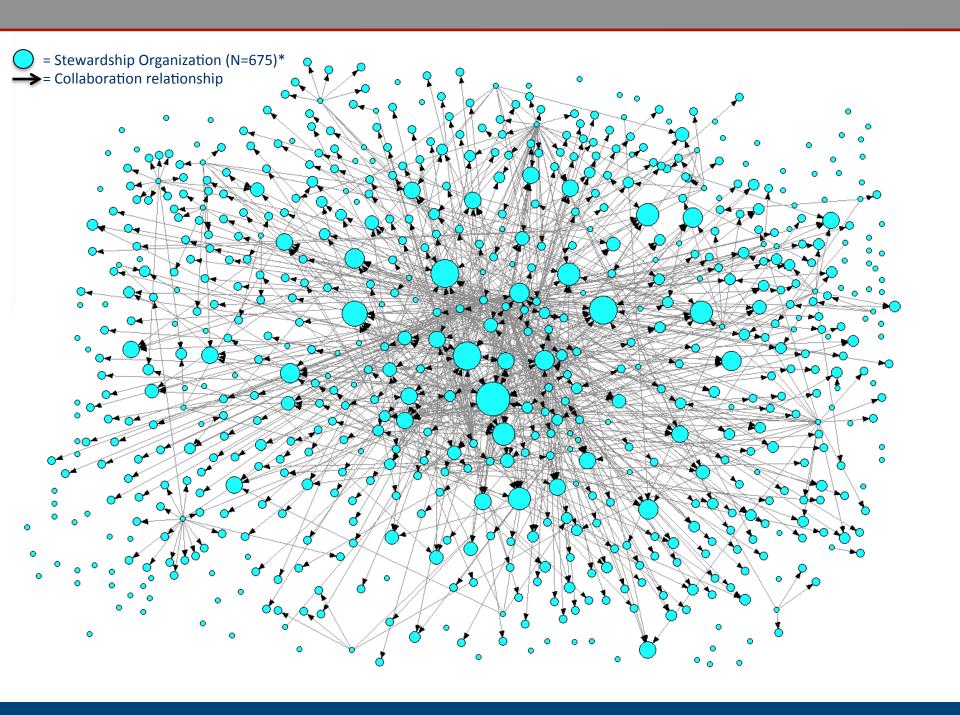
- Respondents named organizations they collaborate with, receive information from, and receive funding from for stewardship activities
- The 140 responding organizations reported <u>over 1300</u> regular collaborations, supporting the idea that urban environmental work occurs as part of a large active network
- Initial network analyses were conducted in UCINet for the collaboration and information networks

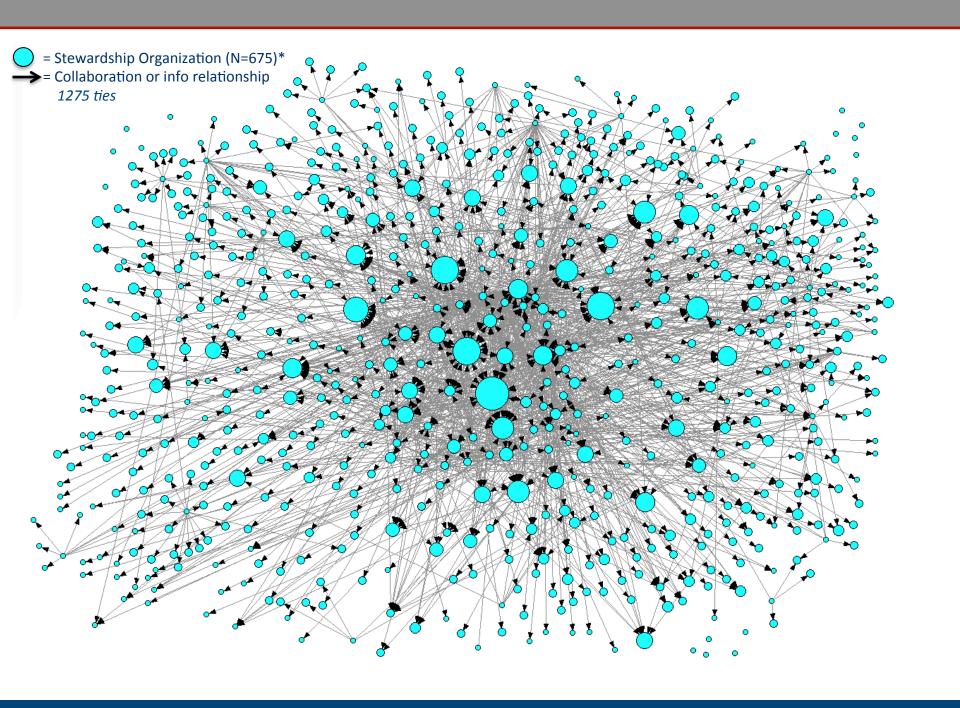


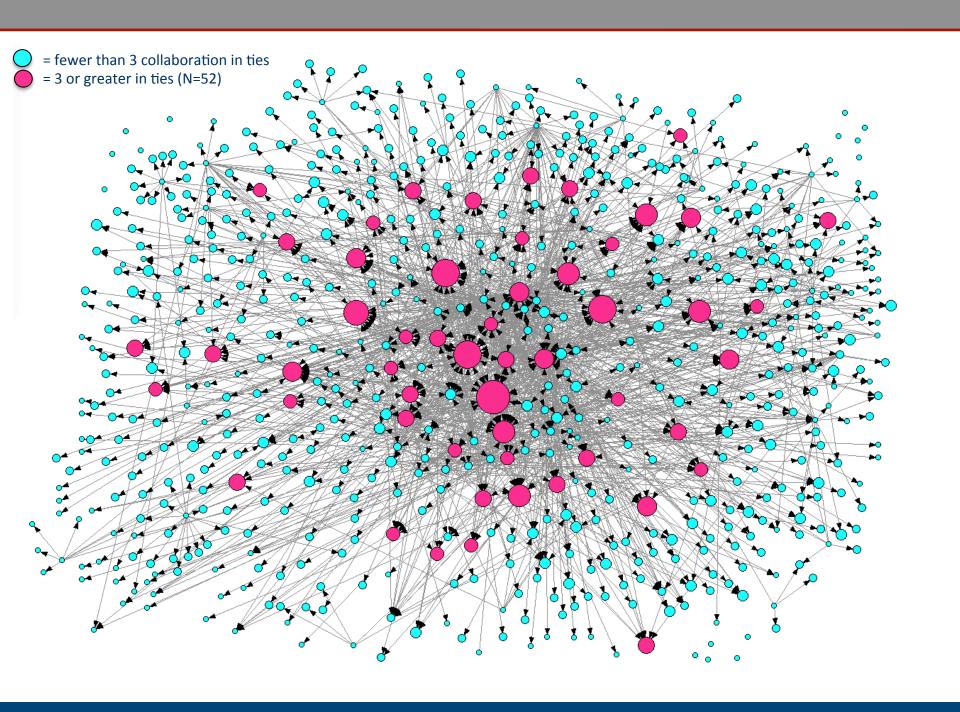


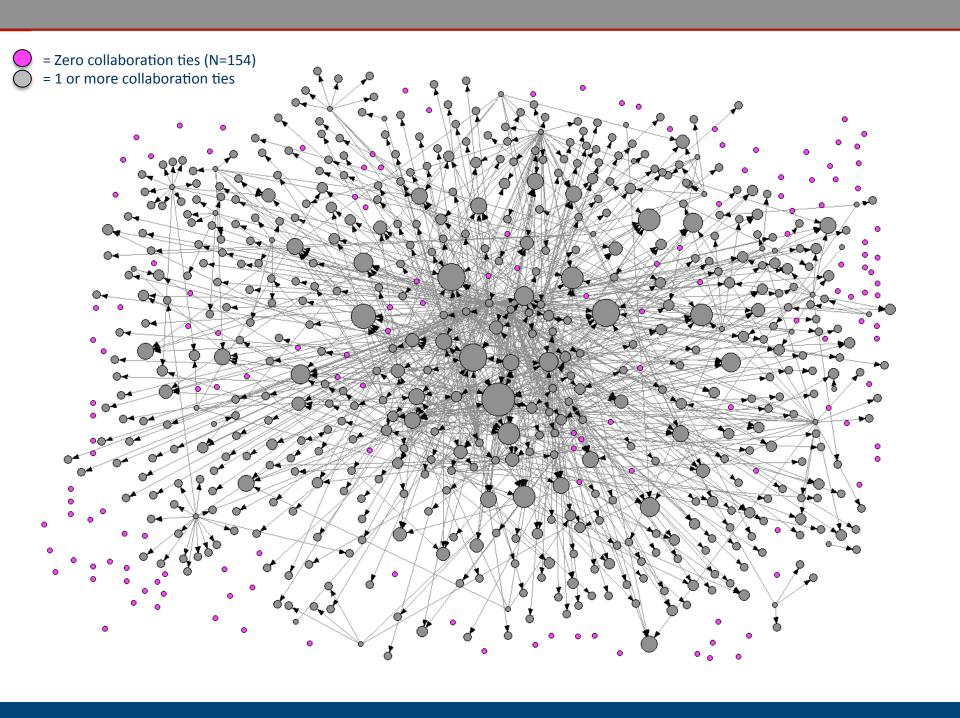
\*Size of Node based on number of "in-degree" collaborative ties

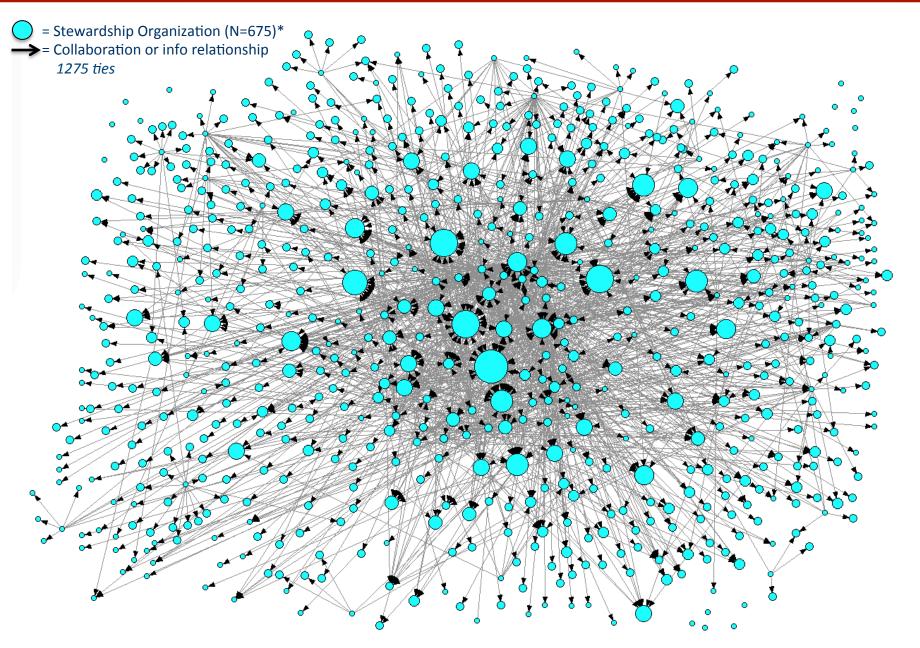




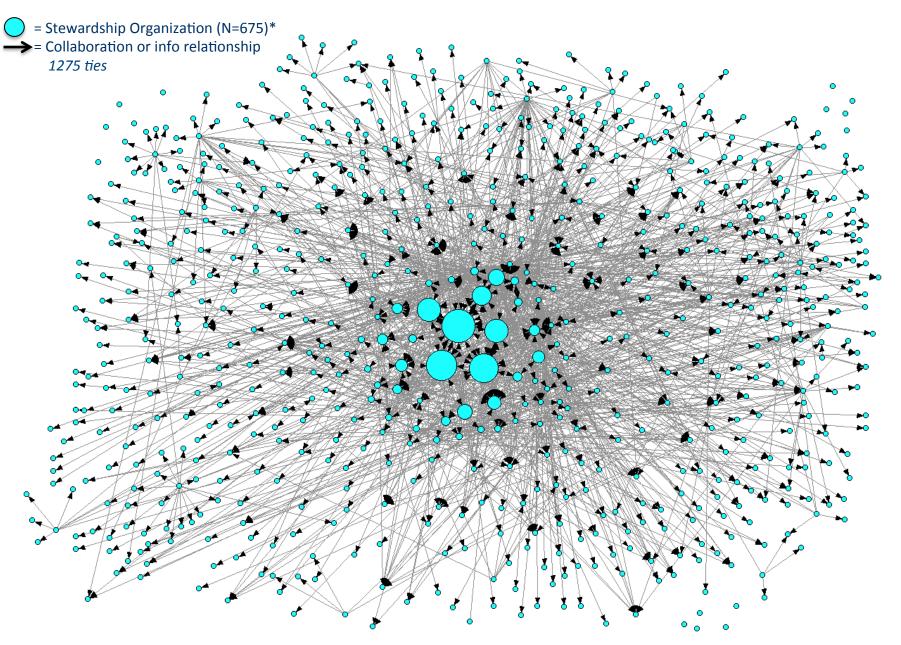




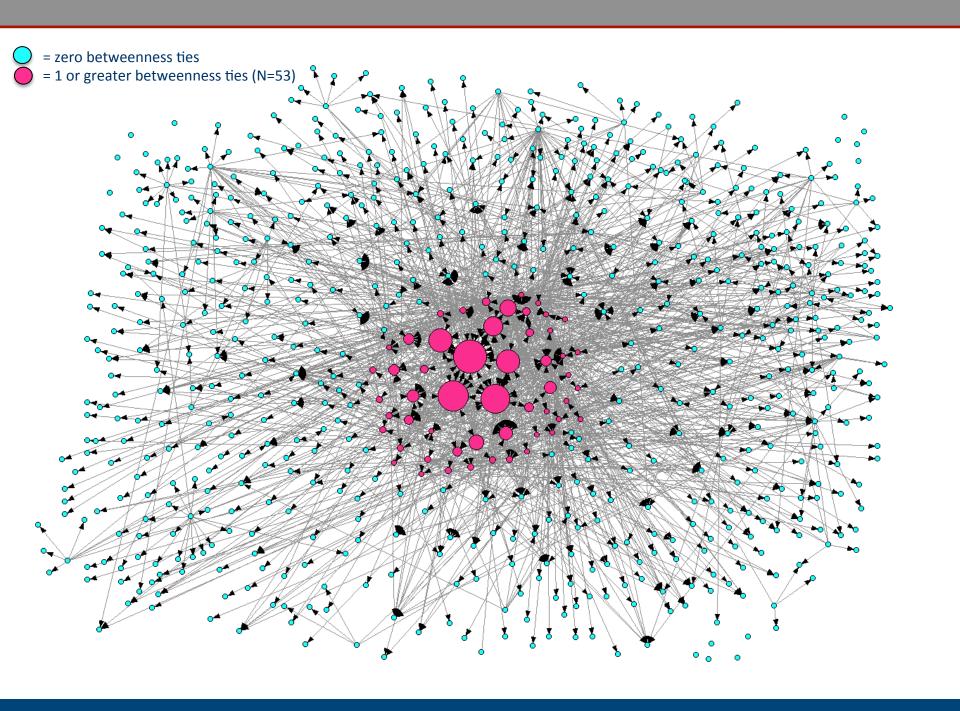




\*Size of Node based on number of "in-degree" (activity) collaborative ties

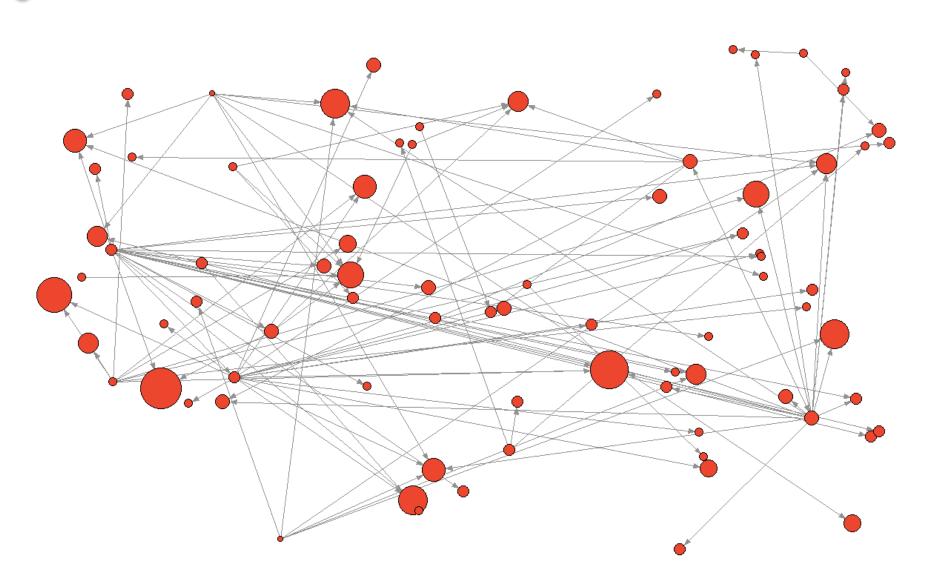


\*Size of Node based on "between-ness" (influence) collaborative ties

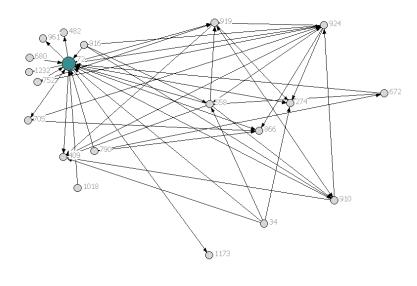


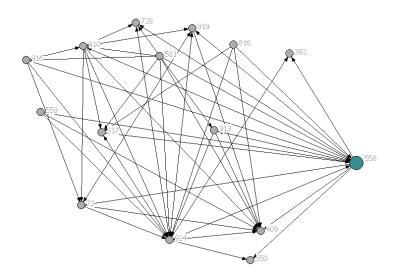


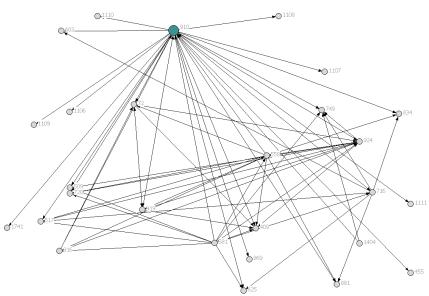
#### Collaboration Network by Attribute (Sector)

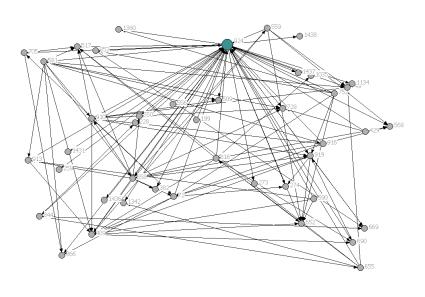


#### Ego Networks









## LA Stew-MAP Results: How? Collaborations through Networks

- Initial analyses show a large collaborative & informationsharing stewardship network in Los Angeles
- Many possible ways to analyze network connections



#### **Stew-MAP Products**

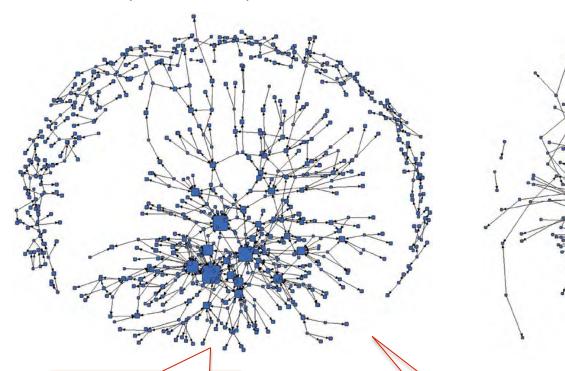
- Goal of Stew-MAP to be both research and application
- Nationally, Stew-MAP researchers have worked with stewardship practitioners to develop products appropriate for each particular city
- These have included static reports and interactive tools



#### NYC Network Data in Research

non-profit to non-profit network

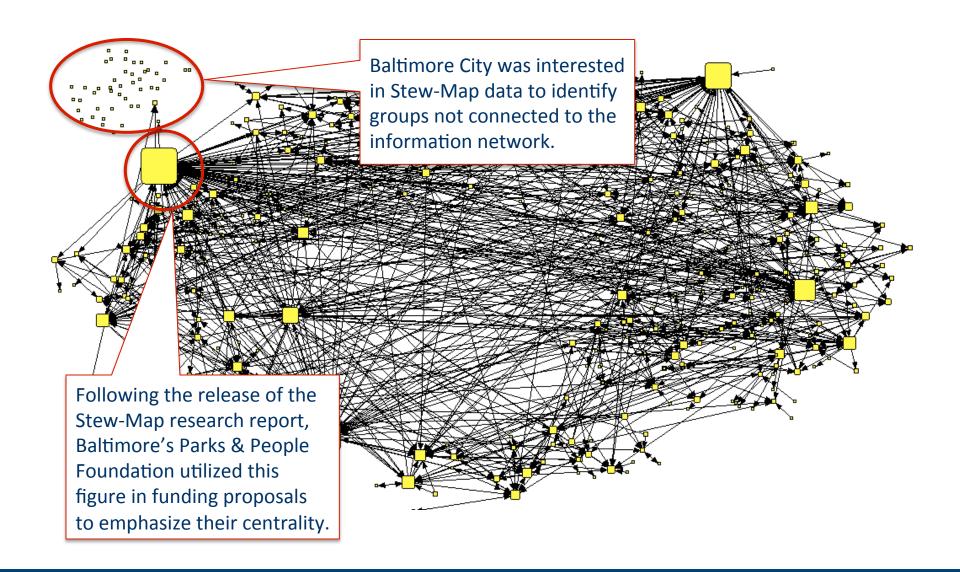
non-profit to public agency network



More decentralized with multiple "hub" organizations, highlighting the importance of bridging orgs

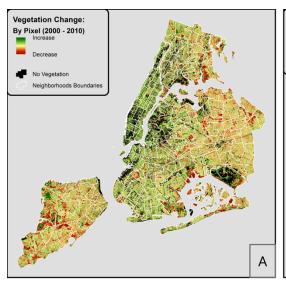
Deeper examination found networks to be more tightly clustered around site type

#### **Baltimore's Network Data in Practice**

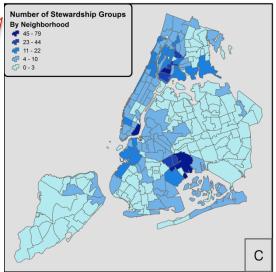


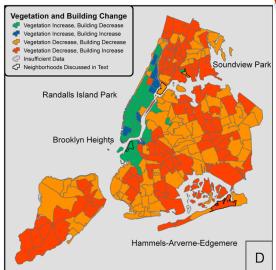
## NYC Spatial Data in Research

Study explores
connections
between
stewardship,
vegetation change,
and development
over a decade in
NYC. Uses spatial
data to prompt
further exploration
through case
studies.



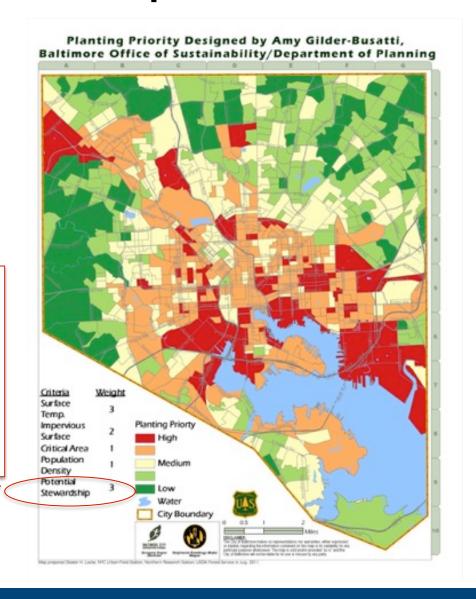






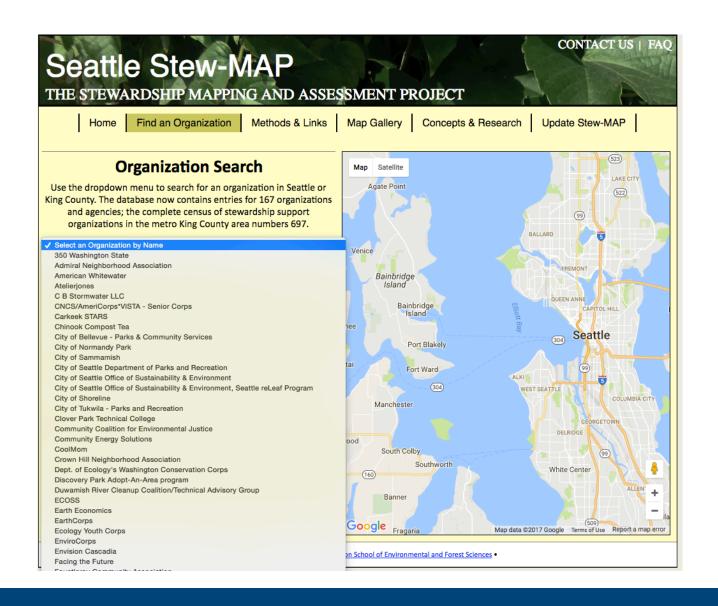
Comparative case studies may be able to help shape best practices for effective, efficient stewardship in cities.

### Baltimore's Spatial Data in Practice

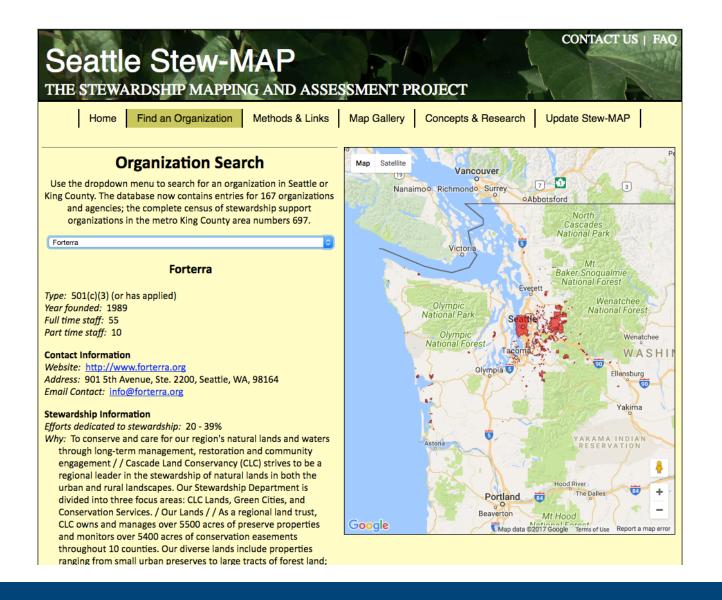


In a process to choose priority neighborhoods for tree planting, "potential stewardship" was a possible input.

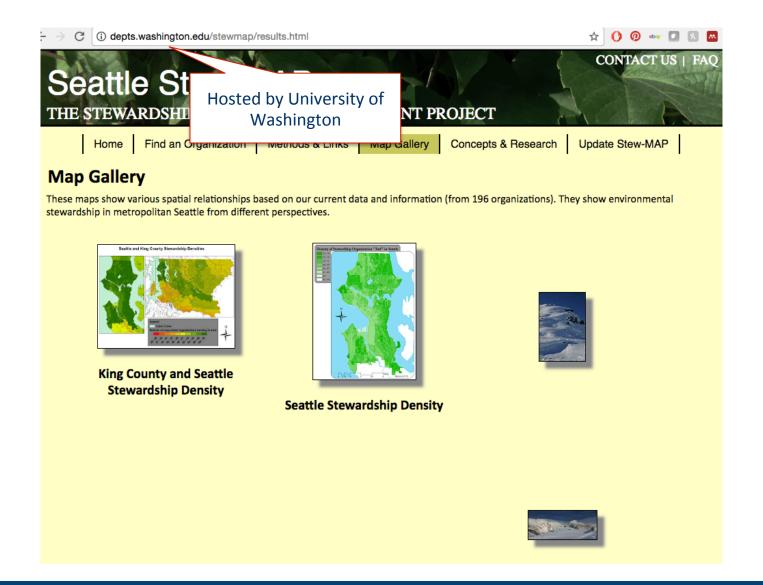
#### **Basic Tool: the Seattle Website**

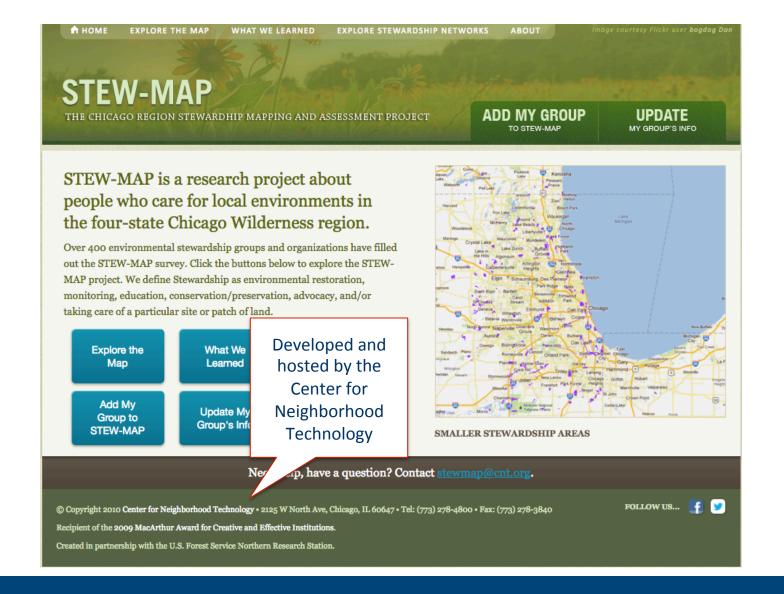


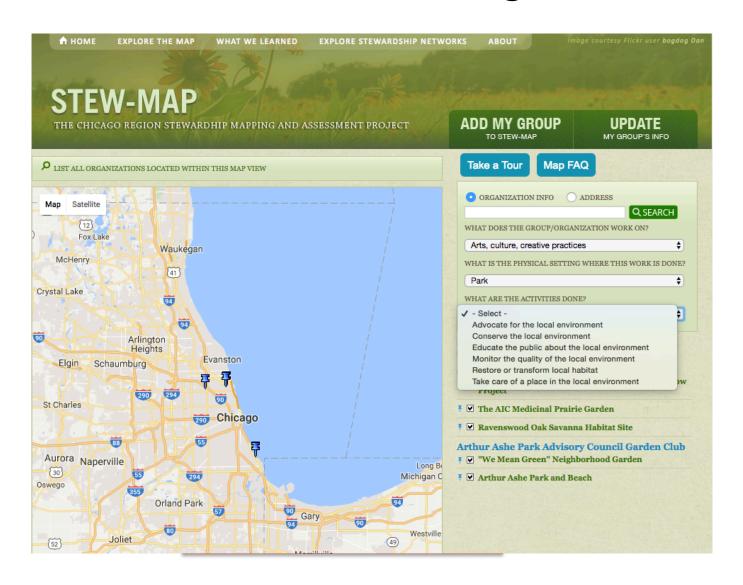
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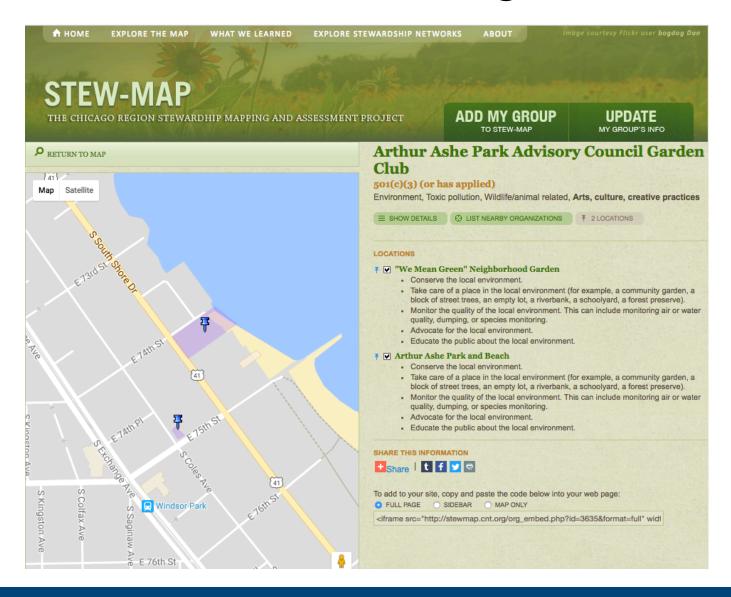


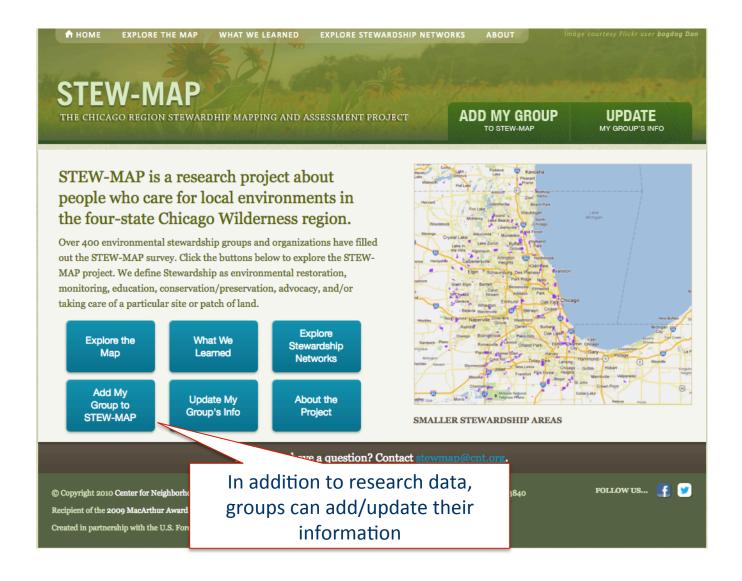
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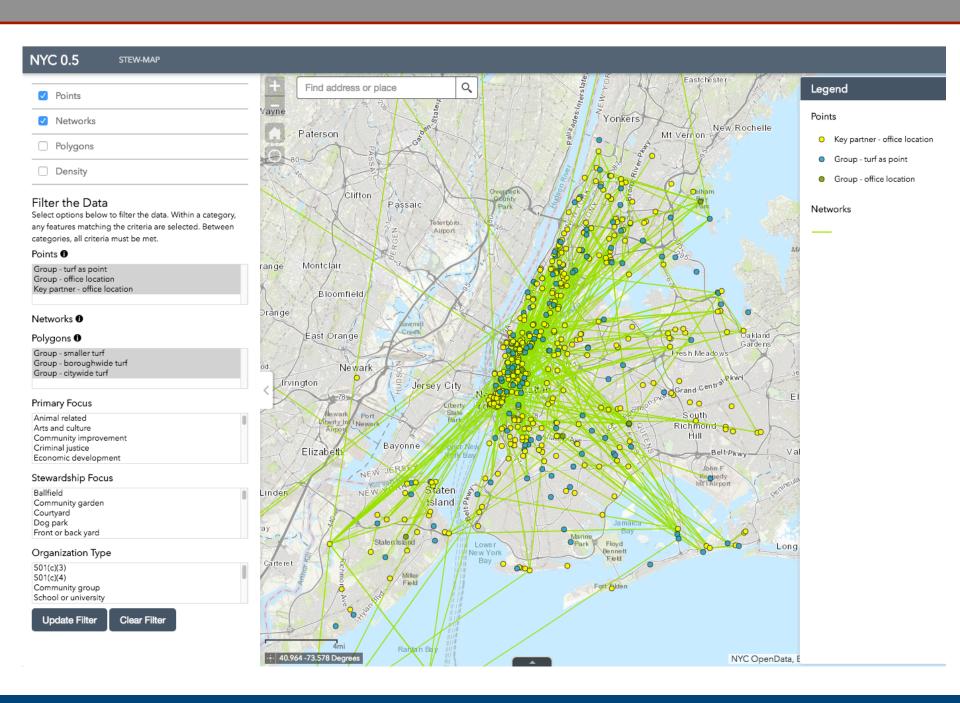


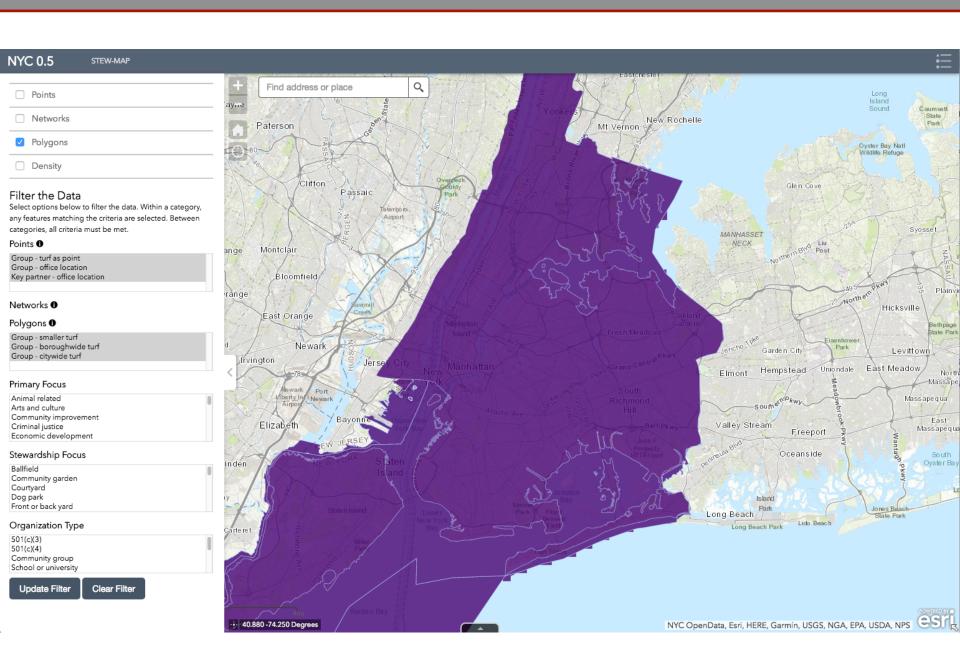


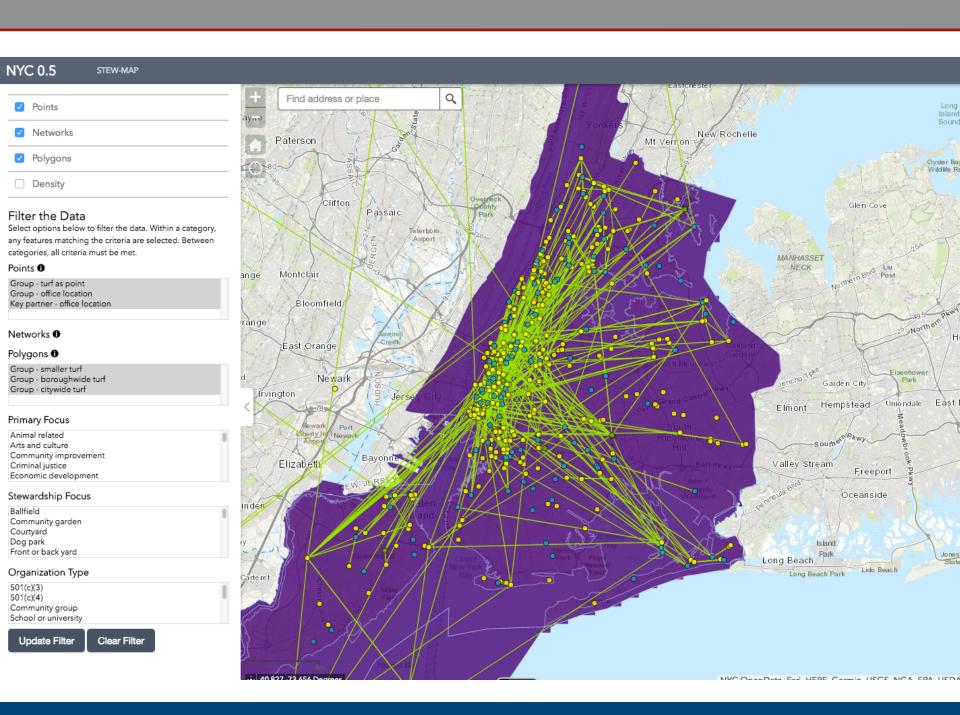


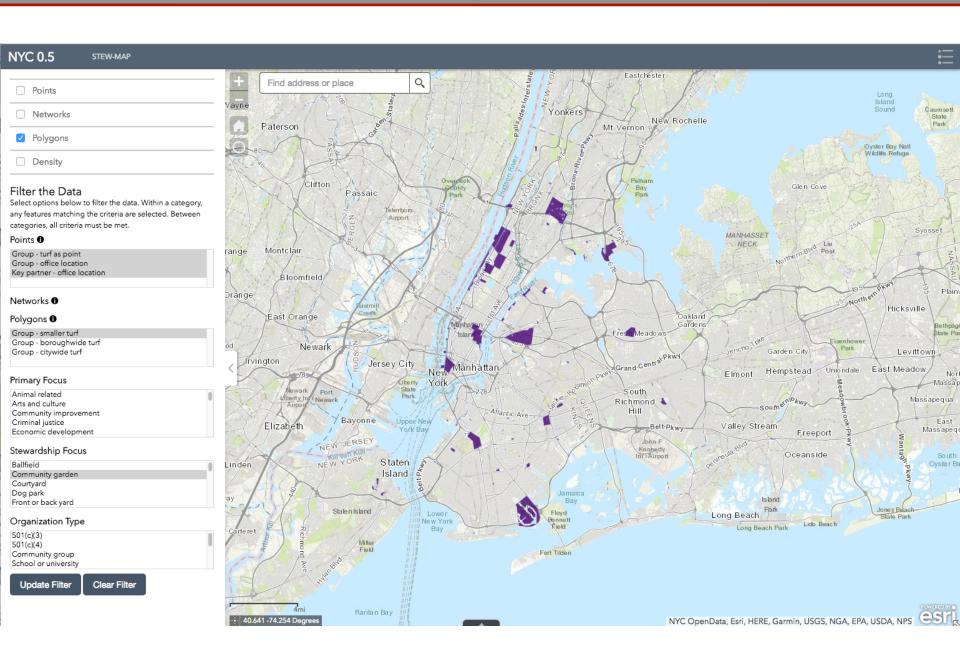


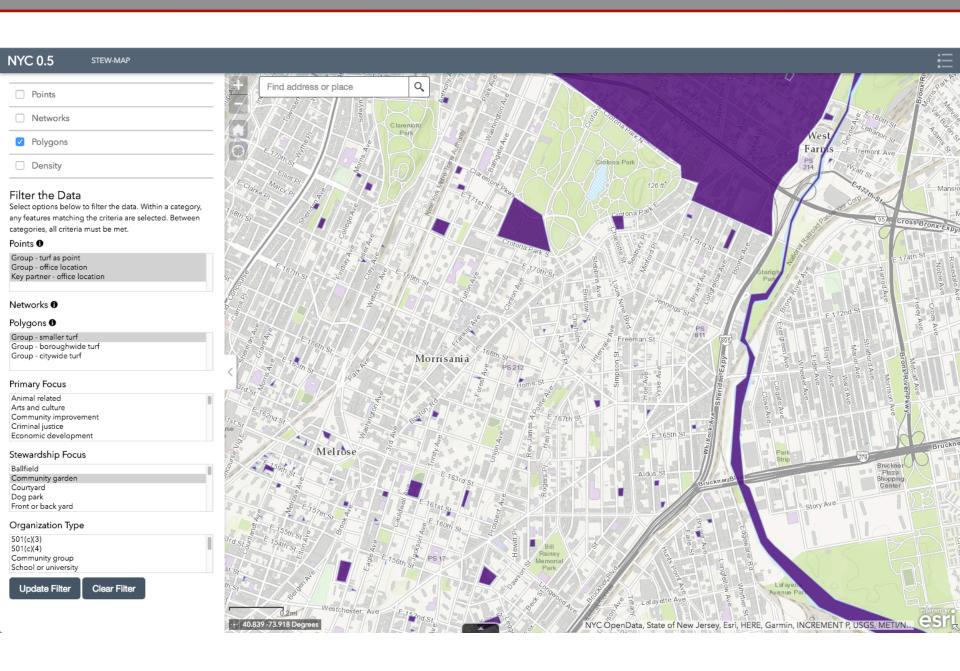


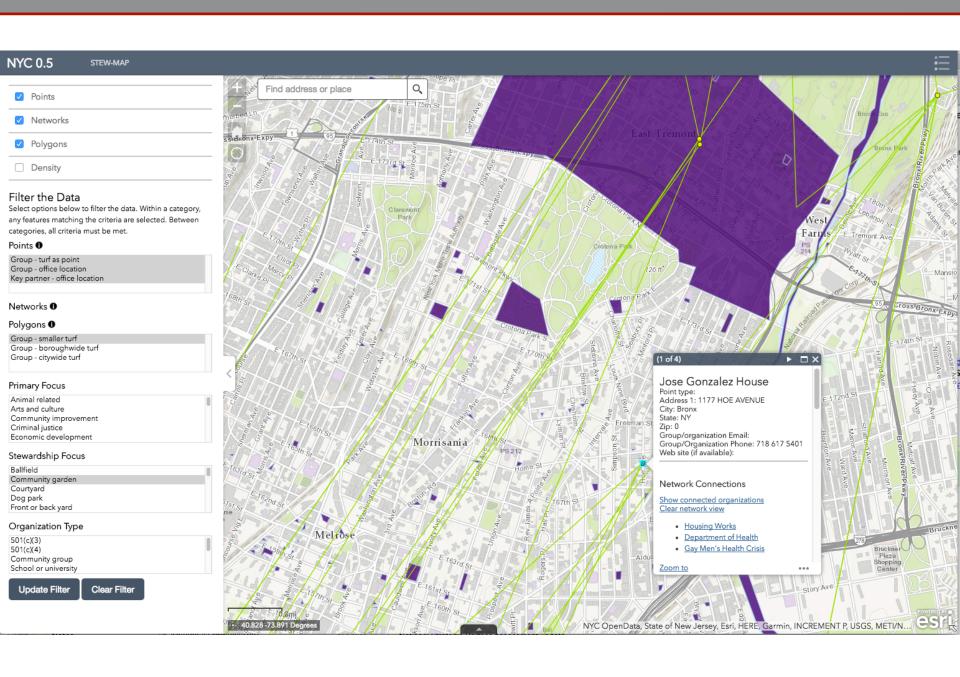












#### Stew-MAP can be a...

- Static directory of groups/organizations conducting stewardship
- Report of stewardship activities and organizational networks
- Network analysis of partnership, funding and information relationships between stewardship organizations
- Series of maps showing stewardship turfs
- Research foundation for case studies of stewardship best practices
- Interactive, public, current database of organizations
- Online map powered by the database that provides multiple ways of searching – e.g. by location, by group, by area of focus
- Mapping tool that utilizes the stewardship turfs as one layer of information to help decision makers
- ???

# Please write any questions down and we will discuss after a short break...



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