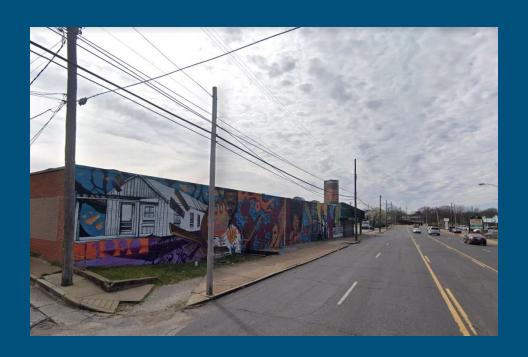
A Greener Justice

Finding the space for urban pocket parks

The problem

Access to urban green space improves human wellbeing & community engagement.

Poor neighborhoods tend to have fewer parks.





Pocket parks

Provide safe and comfortable locations for community engagement.

Cost-effective solution for developed communities.



Memphis, TN Racial Inequality Neighborhood Income Disparities **Inequality** History



Characterize
Memphis
neighborhoods by
outdoor recreational
features

&

Determine pocket park priority locations.

Data Sources







tripsavvy

Memphis neighborhoods & zip codes

FOURSQUARE

enues in neighborhoods/

Memphis Data

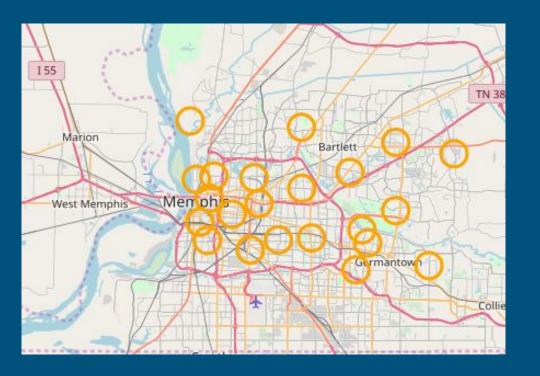
Community centers in neighborhoods.

Methodology

Map Explore the **Determine Park** Cluster **Acquire Data** Community Neighborhoods Neighborhoods Location Centers Scrape trip savvy for Map the Generally categorize Evaluate which Cluster neighborhoods neighborhood and zip neighborhoods and neighborhoods by neighborhoods lack using venue categories select an appropriate those that do or do not parks and community and geographical code data. radius to do a have outdoor parks. location. centers foursquare venue search.

Mapping

1,500 m radius for Foursquare search

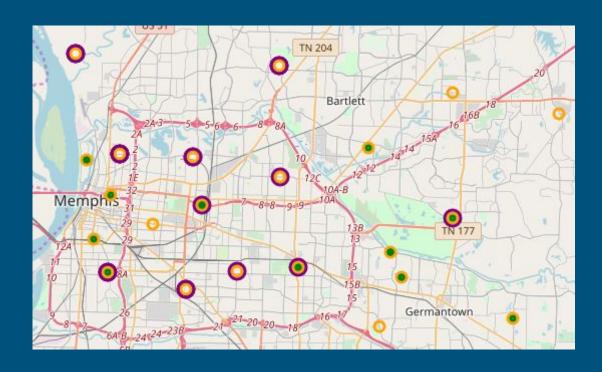


Mapping

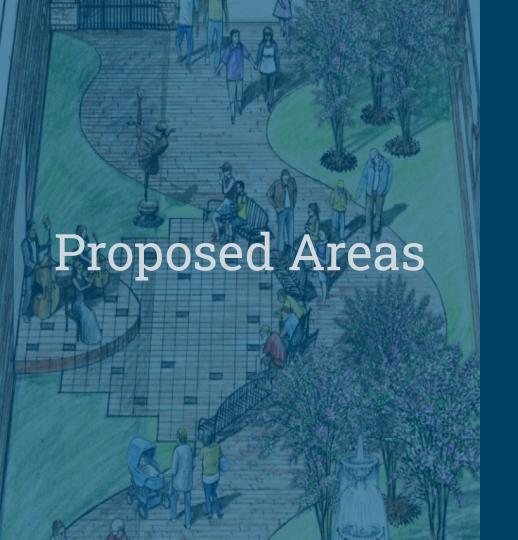
Orange: Neighborhoods of interest

Green: Park in neighborhood*

Purple: Community center in neighborhood*



KMeans Cluster:	Neighborhoods with no parks	Number of Community Centers	KMeans Cluster	DBSCAN Cluster	DBSCAN Cluster:
0- Restaurants	Cordova	0	0	0	By Geography. Most of
	Midtown	0	0	1	the 1's within loop
1- Frayser (only one	North Memphis	3	2	1	except Berclair.
Foursquare category)	Kingsbury	2	3	1	ολοορί Βοισία
2-No free amenities	University of Memphis Area	1	0	1	
3- Zoo (free part of year)	Orange Mound	2	0	1	
	East Memphis	0	0	2	
	Berclair	2	0	3	
	Frayser	2	1	-1	
	Raleigh	2	0	4	
	Bartlett	0	Ō	5	



Pocket parks priority locations:

*Midtown

*Cordova

*Bartlett

*East Memphis

*Frayser

Data Limitations & Future Directions

Foursquare was not ideal for parks in Memphis: existing parks not listed (such as Audubon in the University district)

Income by Zip Code would enhance inferences.

Dataset with vacant land/public lots for specific pocket park locations desirable.

