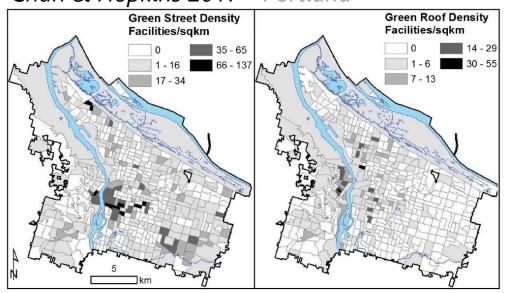


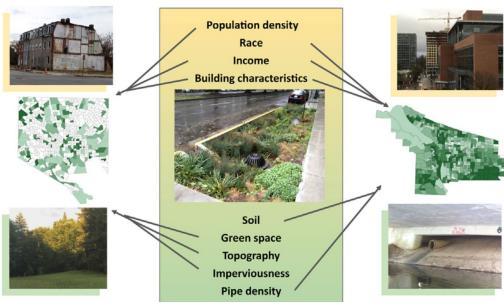


Spatial Distribution ~ Sociodemographic Patterns

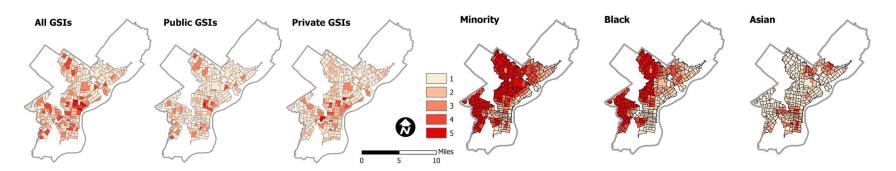
Chan & Hopkins 2017 - Portland



Baker et al. 2019 – PDX & Baltimore

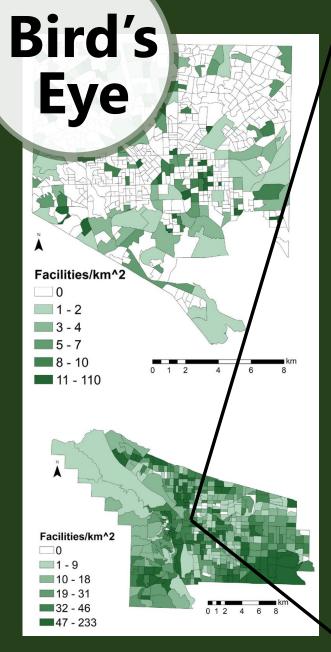


Mandarano & Meenar 2017 - Philidelphia





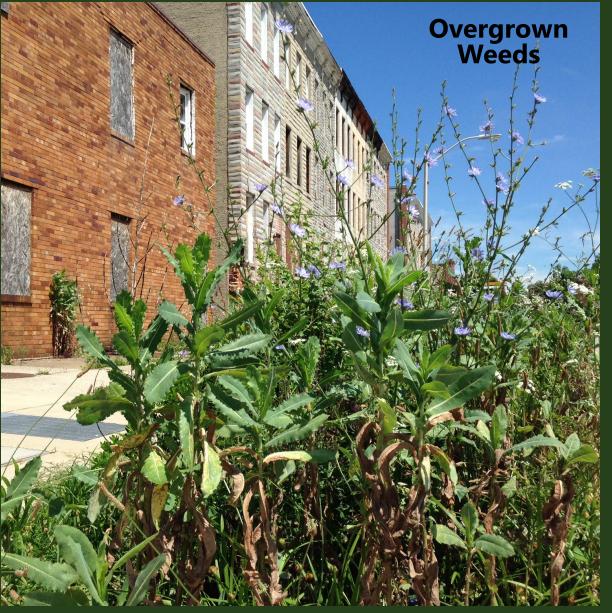
















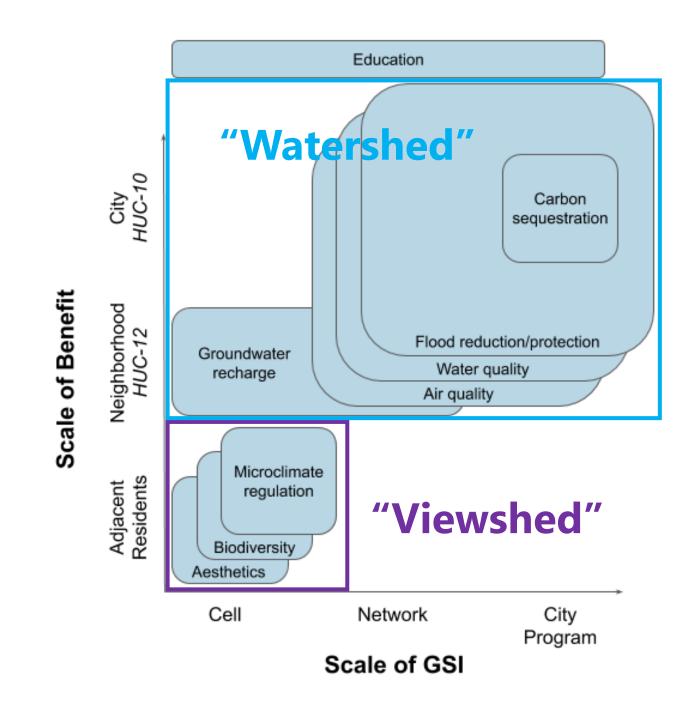


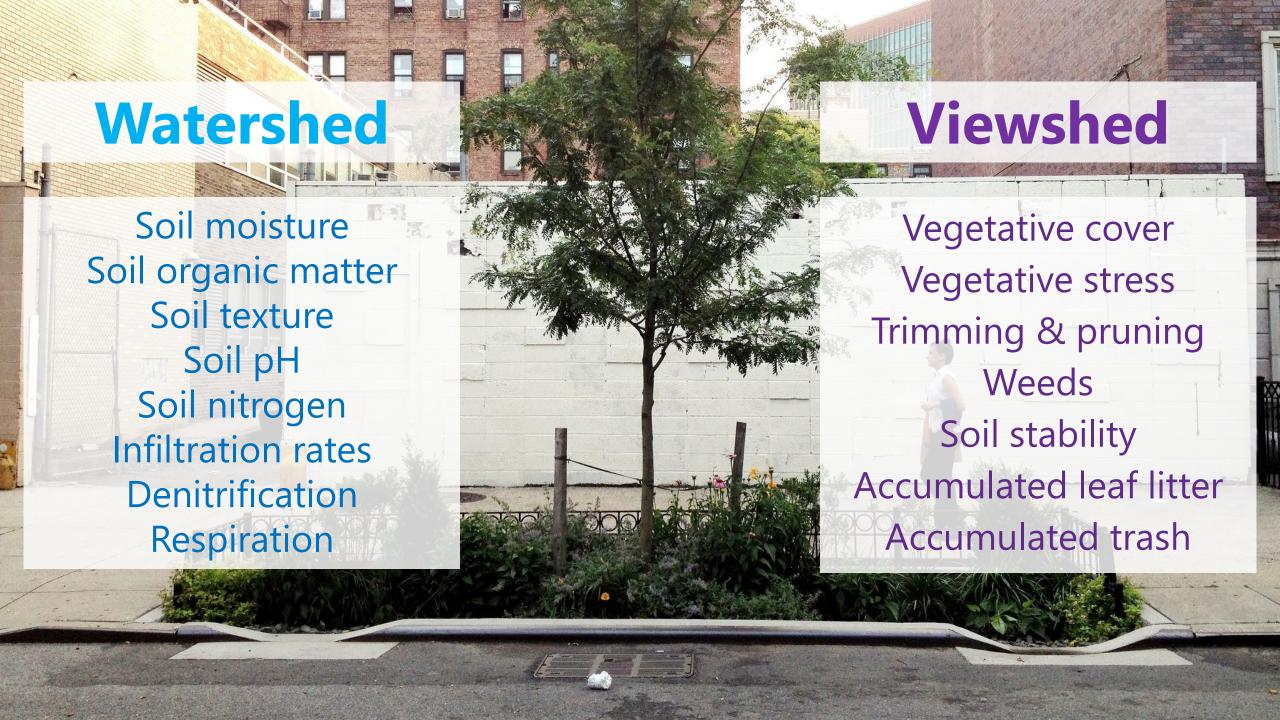


Scales of Benefits



Benefit production and distribution are multi-scalar





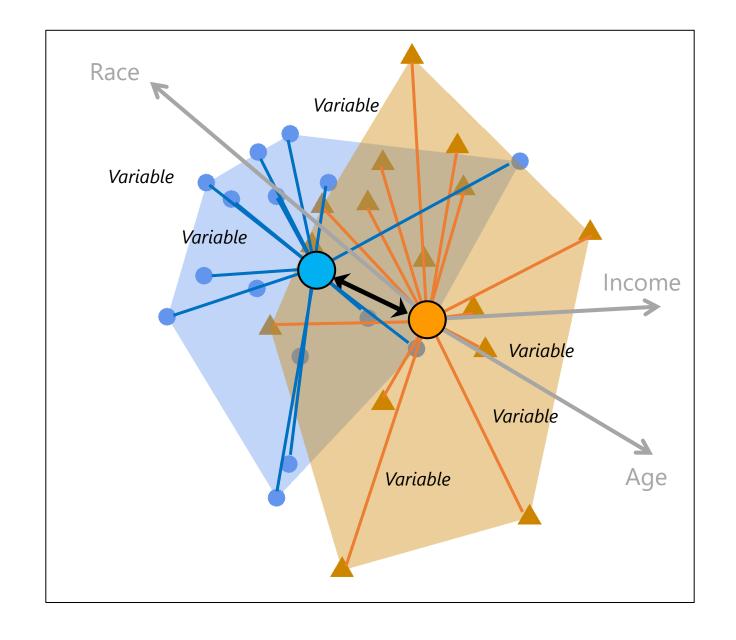
Analysis

1. Difference between cities

2. Differences within each city

3. The relationship between sociodemographic factors and facility characteristics

NMDS



GSI outcomes ~ Sociodemographic Patterns

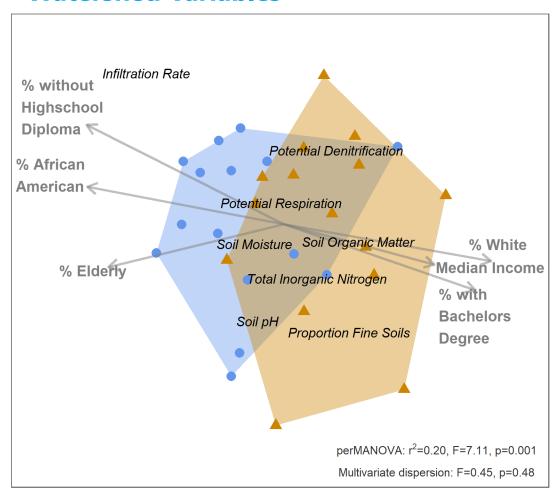
City

Baltimore

Portland

A)

Watershed Variables



1. City Comparison
Significant difference between cities

2. Evenness:

Similar between cities

3. Sociodemographic Factors:

Significant relationships, but watershed benefits are displaced downstream

GSI outcomes ~ Sociodemographic Patterns

City Baltimore Portland

B)

Viewshed Variables

City Comparison
 Significant difference between cities

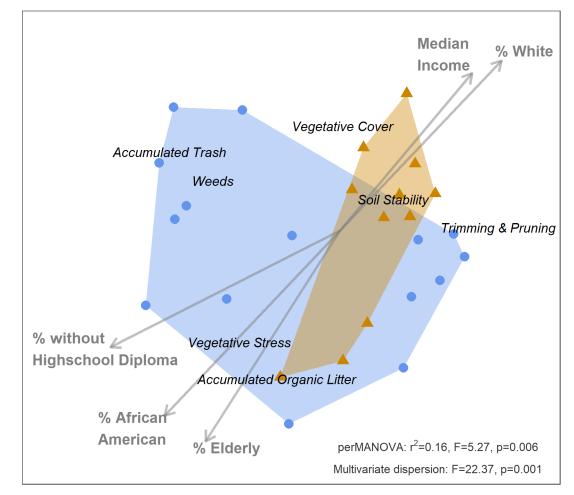
2. Evenness:

Higher variability between sites in Baltimore than in Portland

3. Sociodemographic Factors:

Signs of routine maintenance in whiter & wealthier neighborhoods

Signs of low or insufficient maintenance in older, poorer, communities of color





Focus has been on examining spatial distribution of GSI informs planning efforts

Distribution might be equal, but benefits may not be equal

Next step is to examine on-the-ground outcomes of GSI

How are benefits distributed?
How do maintenance plans impact benefit delivery?



