Los Angeles County Urban Tree Canopy (UTC) Prioritization

April 12, 2019
Prioritization approach

1. Trees provide benefits
2. Seek to plant trees where the benefits of trees are lacking
   • Using available data
3. TreePeople decided to focus on
   • Heat Island mitigation
   • Public health
   • Socioeconomic status
   • Unit of analysis = CalEnviroScreen 3.0 boundaries (US Census Tract)

Prioritization approach

- Heat Island
- Public Health
- Socioeconomic Status

Final prioritization
I. Maximum Surface Temperature

II. Mean Surface Temperature

III. Dependency Ratio (2X)

IV. Non-White Population

V. Median Household Income (-1)

- Heat Island
- Public Health
- Socioeconomic Status

Final prioritization
I. Maximum Surface Temperature (degrees F)

Maximum Surface Temperature (standardized)
II. Mean Surface Temperature (degrees F)

Mean Surface Temperature (standardized)
Dependency Ratio (DR)

\[
DR = \frac{(people \ aged \ 0 \ to \ 15) + (people \ aged \ 65 \ and \ older)}{people \ aged \ 16 \ to \ 64} \times 100
\]

Used in public health to assess vulnerability
III. Dependency Ratio
(raw)

Dependency Ratio
(standardized)
IV. Non-White Population (%)

Non-White Population (standardized)
I. Maximum Surface Temperature
II. Mean Surface Temperature
III. Dependency Ratio (2X)
IV. Non-White Population
V. Median Household Income (-1)
Study area outline:
Los Angeles County
Census Tracts
Tree Canopy Prioritization

- **Highest Priority**
- **Medium**
- **Lowest Priority**
Study area outline:

Census Tracts

Tree Canopy Prioritization

- Highest Priority
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Study area outline:

- Los Angeles County

Census Tracts

Tree Canopy Prioritization

- Highest Priority
- Medium
- Lowest Priority
Z-scores explained

$$Z = \frac{x - \text{mean}(x)}{\text{stdev}(x)}$$