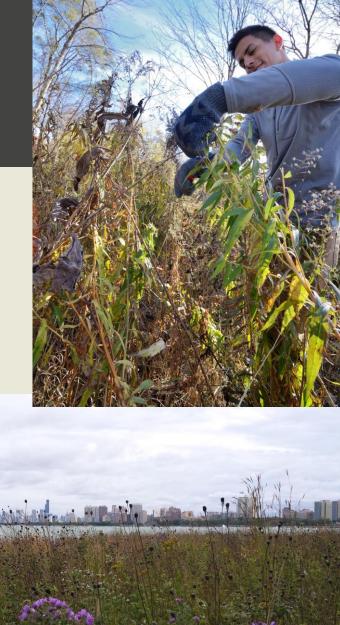


### Chicago Greenprint

Sarah Hagen and John Legge







### Indian Boundary Prairies, Markham IL





### Chicago Greenprint: Questions

#### In Chicago and Cook County:

- 1. What locations have the greatest need for <u>tree canopy interventions</u>, based on urban heat impacts and air quality issues?
- 2. What locations have the greatest need for <u>stormwater interventions</u>, including issues of flooding and basement backups?
- 3. Are there areas where <u>important biodiversity</u> intersects with these human priority areas?
- 4. Conversely, are there areas where people also are <u>isolated from nature/greenspace</u> while also being exposed to climate change risks?
- 5. What locations have the greatest combined need in terms of our mission, looking across areas of flooding, air quality, excess heat, urban biodiversity, and connecting people to nature?



# Data Layers Used – Air Quality Targets

- US Census Data
  - Lower Median Household Income
  - Higher Percentage of Youth Under 18
- Higher Air Toxins and Cancer Risk (Source: US EPA)
- Lower Tree Canopy Data (Source: Morton Arboretum)
- Higher Average Daily Vehicle Traffic (Source: IL Department of Transportation)



# Data Layers Used — Heat Targets

- US Census Data
  - Lower Median Household Income
  - Higher Percentage of Youth Under 18
  - Higher Percentage of Adults Over 65
- Higher Median Summer Temperature (Source: USGS LANDSAT)
- Lower Tree Canopy Density (Source: Morton Arboretum)
- Higher Percentage of Impervious Surfaces (Source: Morton Arboretum)



## Data Layers Used – Flood Risk Targets

- US Census Data
  - Lower Median Household Income
- Flood Susceptibility Index (Source: Chicago Metropolitan Agency for Planning)
  - Reported Flood Locations
  - Topographic Wetness Index
  - Combined Sewer Service Areas
  - Elevation
  - Impervious Surfaces
  - Age of First Development
  - Precipitation Variation



## Data Layers Used – Combined Targets

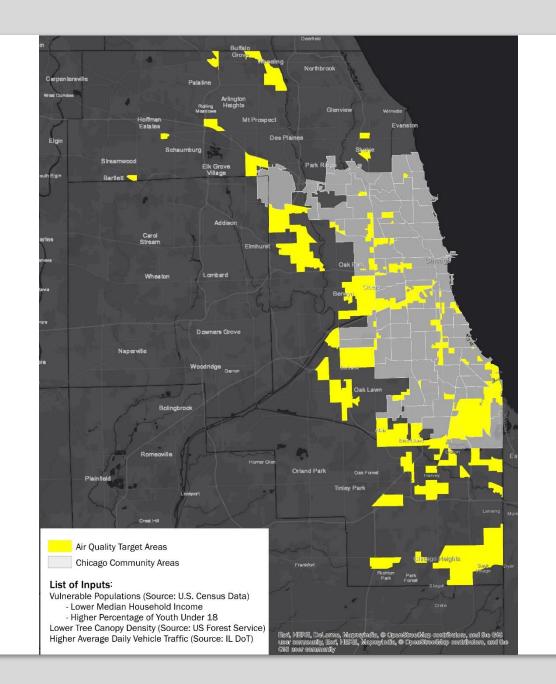
- US Census Data
  - Lower Median Household Income
  - Higher Percentage of Youth Under 18
  - Higher Percentage of Adults Over 65
- Lower Tree Canopy Density (Source: Morton Arboretum)
- Higher Percentage of Impervious Surfaces (Morton Arboretum)
- Higher Median Summer Temperature (Source: USGS LANDSAT)
- Higher Flood Susceptibility (Source: Chicago Metropolitan Agency for Planning)
- Higher Air Toxins and Cancer Risk (Source: US EPA)
- Higher Average Daily Vehicle Traffic (Source: IL Department of Transportation)

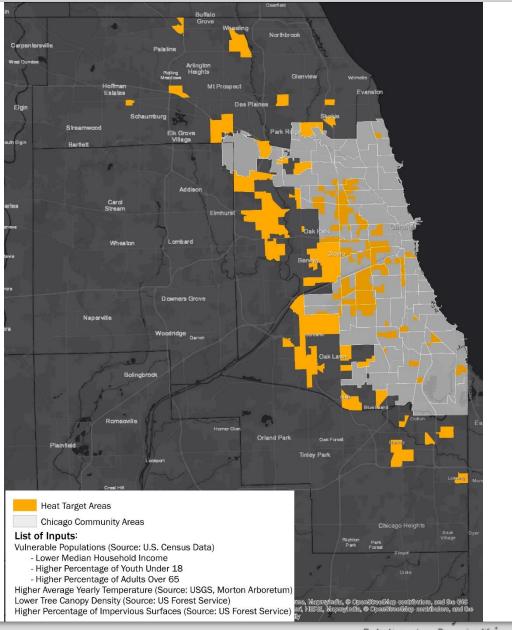


## Additional Data Layer Options

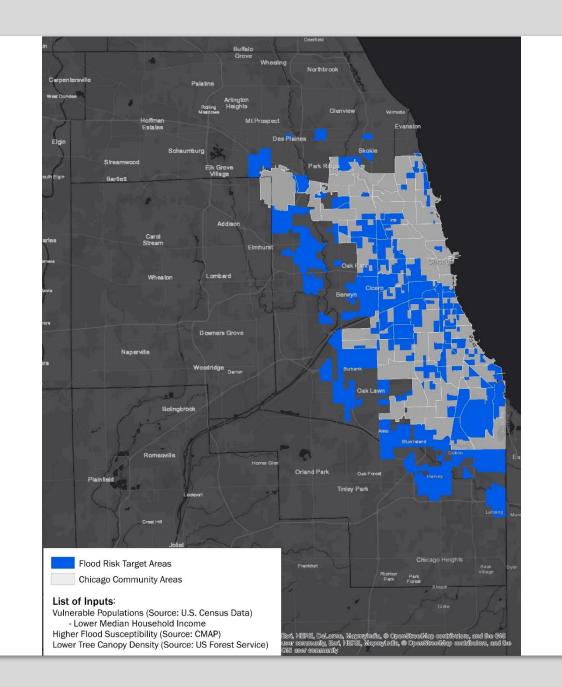
- Chicago Wilderness Green Infrastructure Vision (GIV)
- Chicago Parks, Cook County Forest Preserves
- Park Accessibility (CMAP)
- Municipal Boundaries
- Political Boundaries

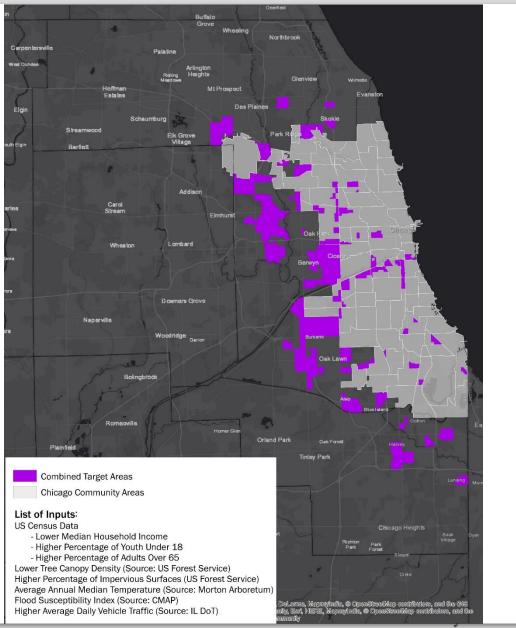


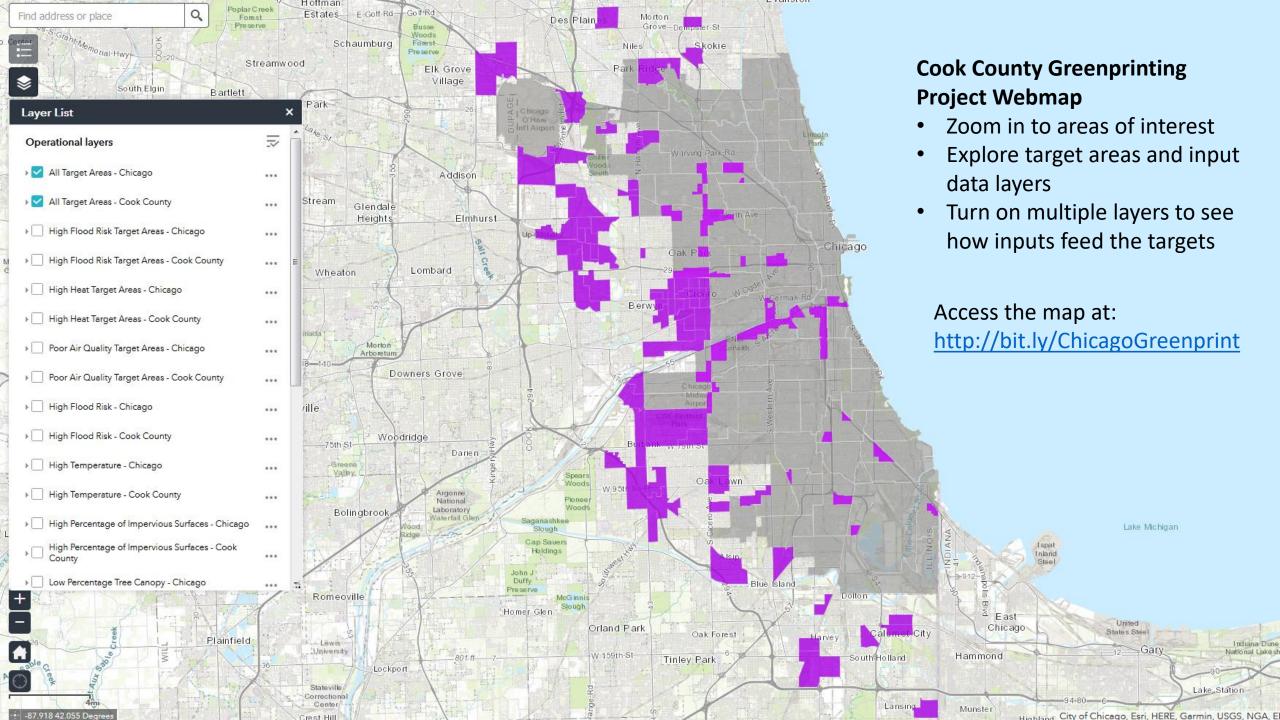




Protecting nature. Preserving life.\*









Chicago Greenprint online: <a href="http://bit.ly/ChicagoGreenprint">http://bit.ly/ChicagoGreenprint</a>

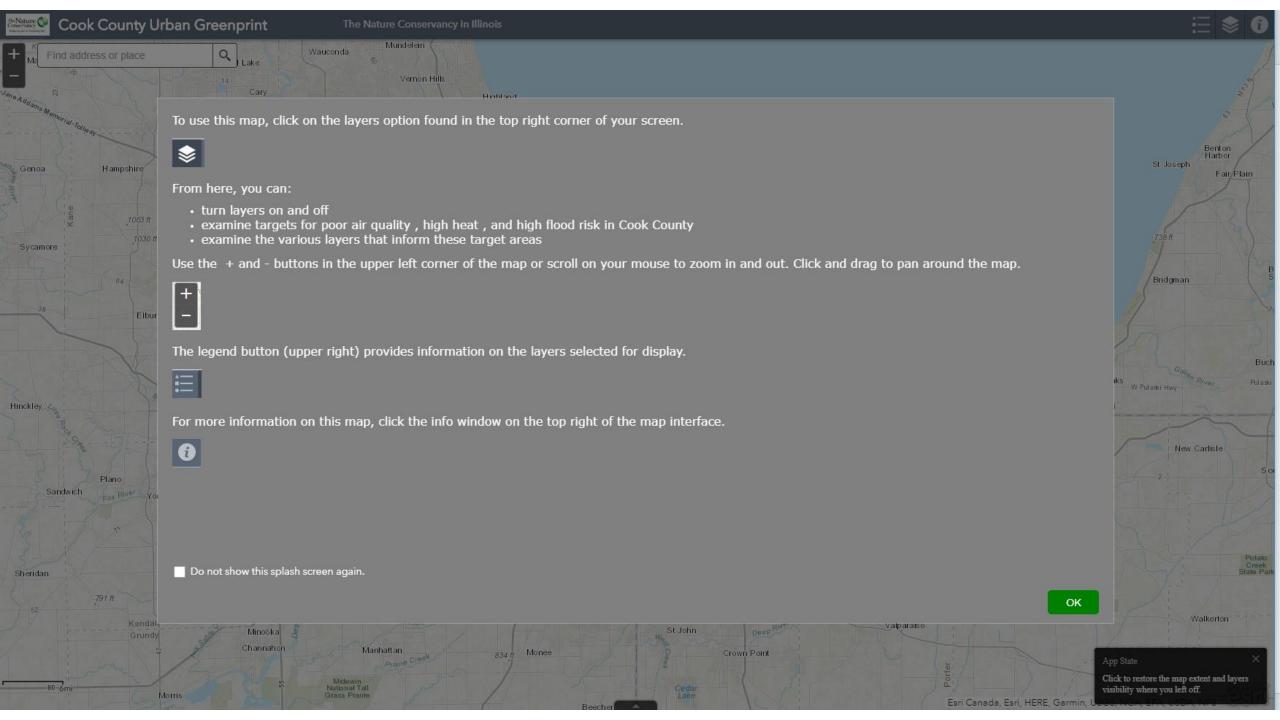
Coming Soon: Data packages of all layers. See Sarah Hagen.

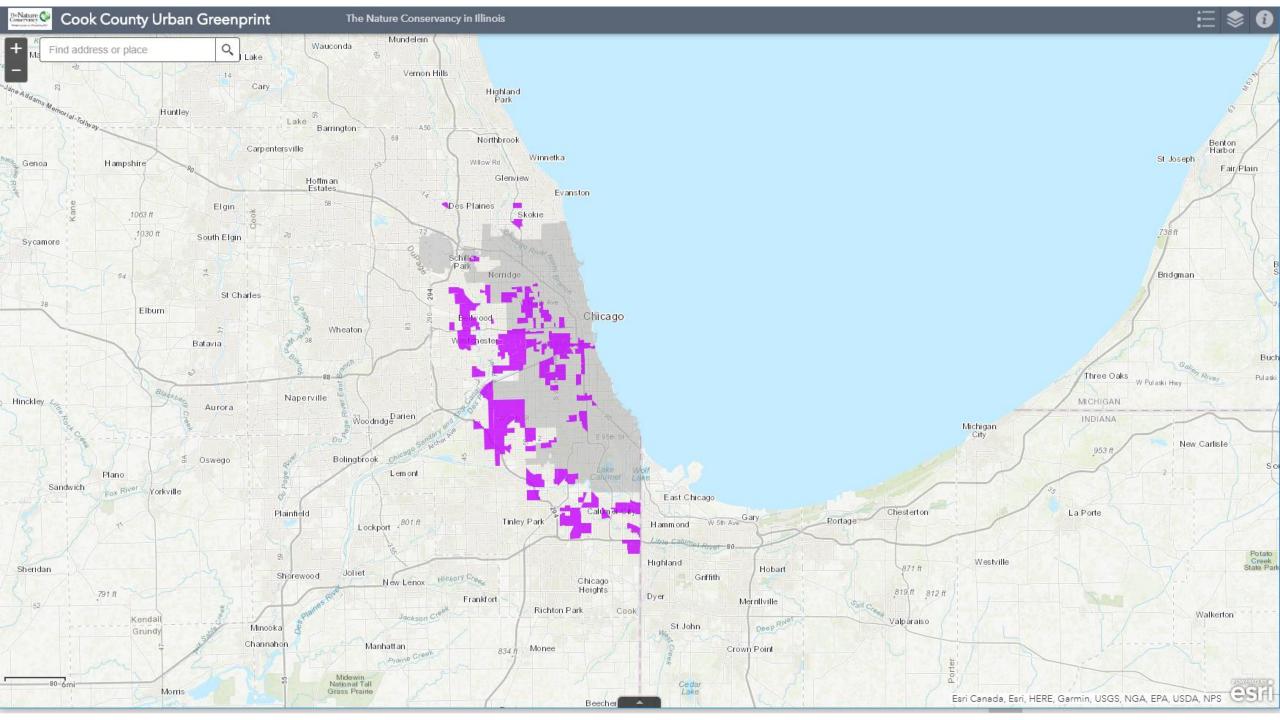
#### For more information:

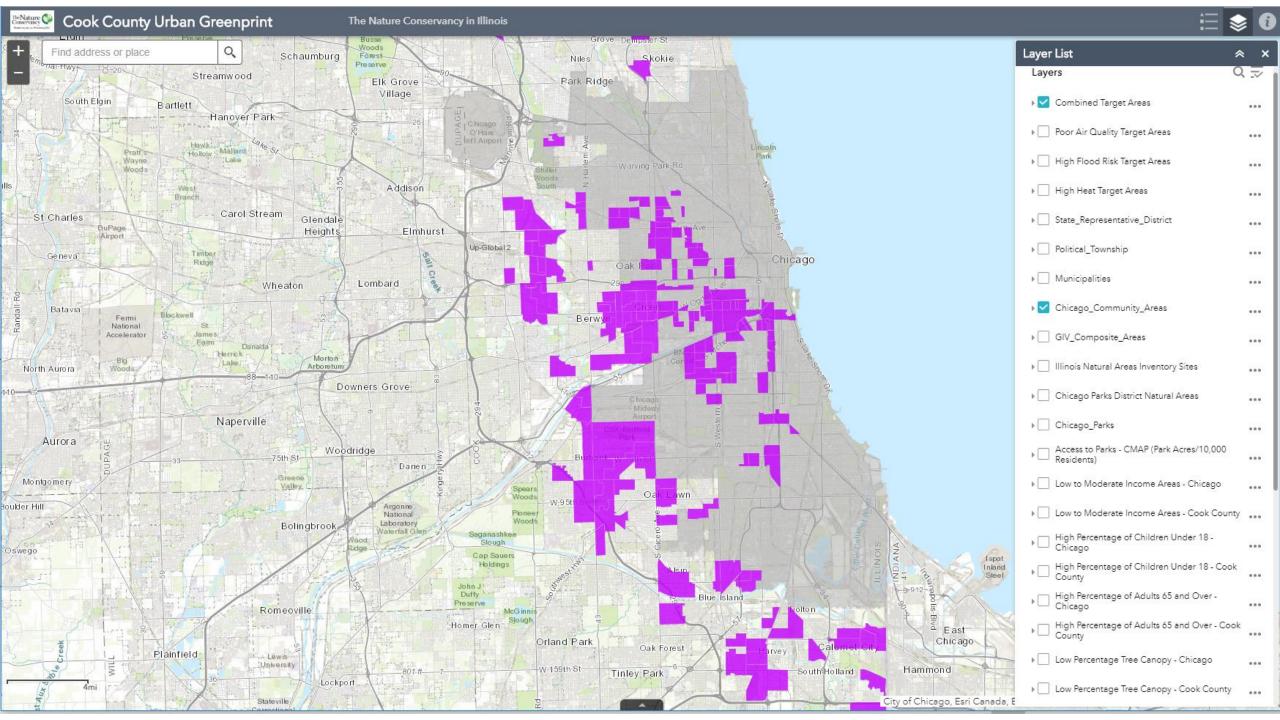
- Sarah Hagen, Spatial Scientist <u>shagen@tnc.orq</u>
- John Legge, Chicago Conservation Director <u>john.legge@tnc.org</u>

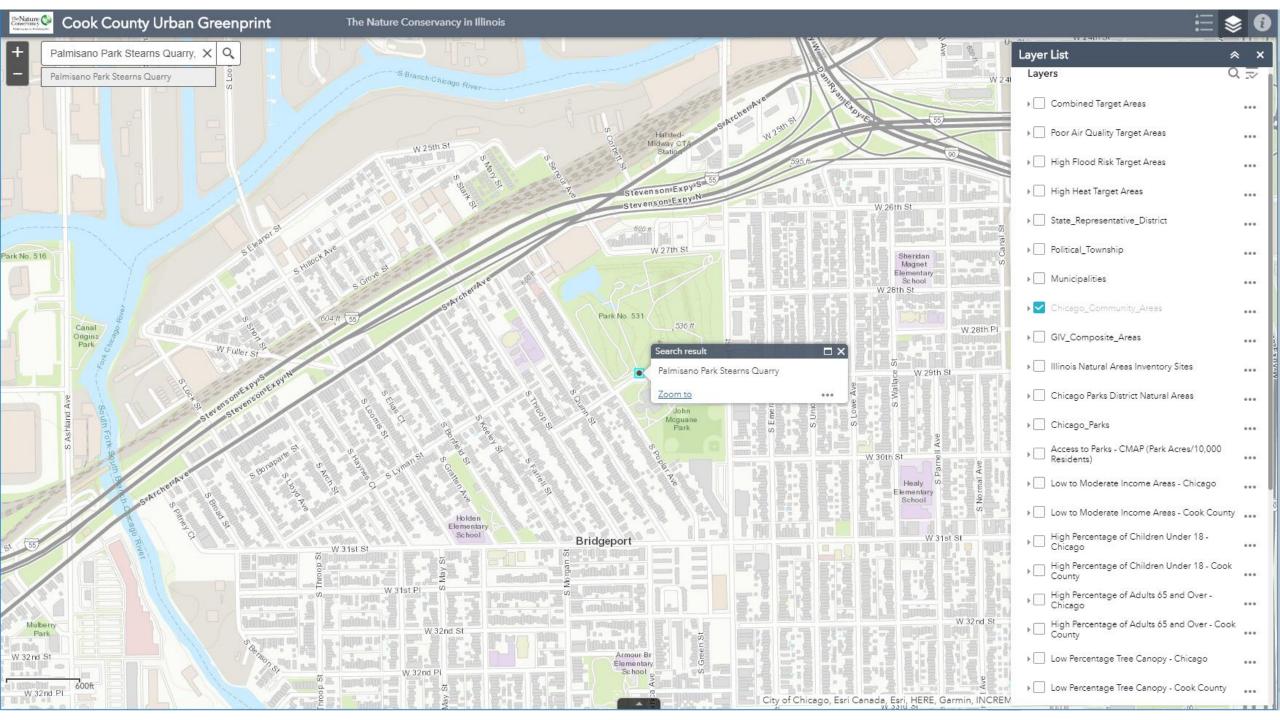
#### Special Thanks:

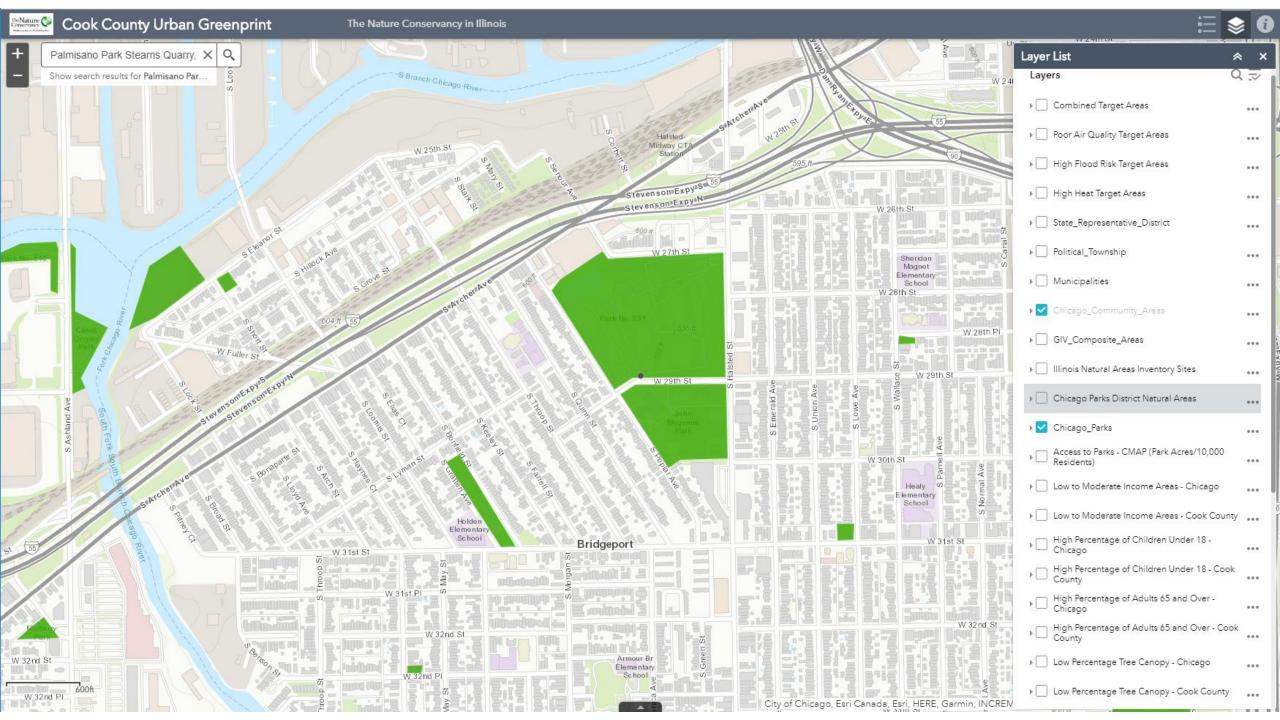
- Nora Beck, Chicago Metropolitan Agency for Planning
- Lindsay Darling, Morton Arboretum
- Lucero Flores, TNC intern

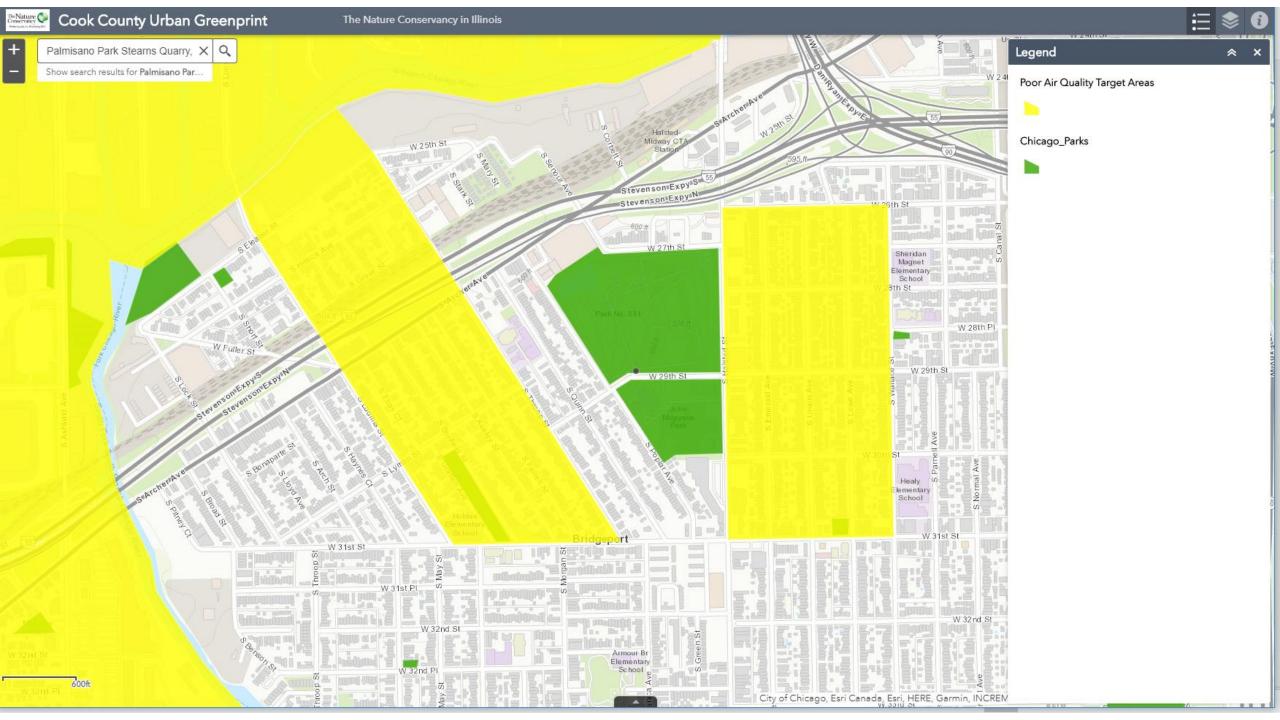


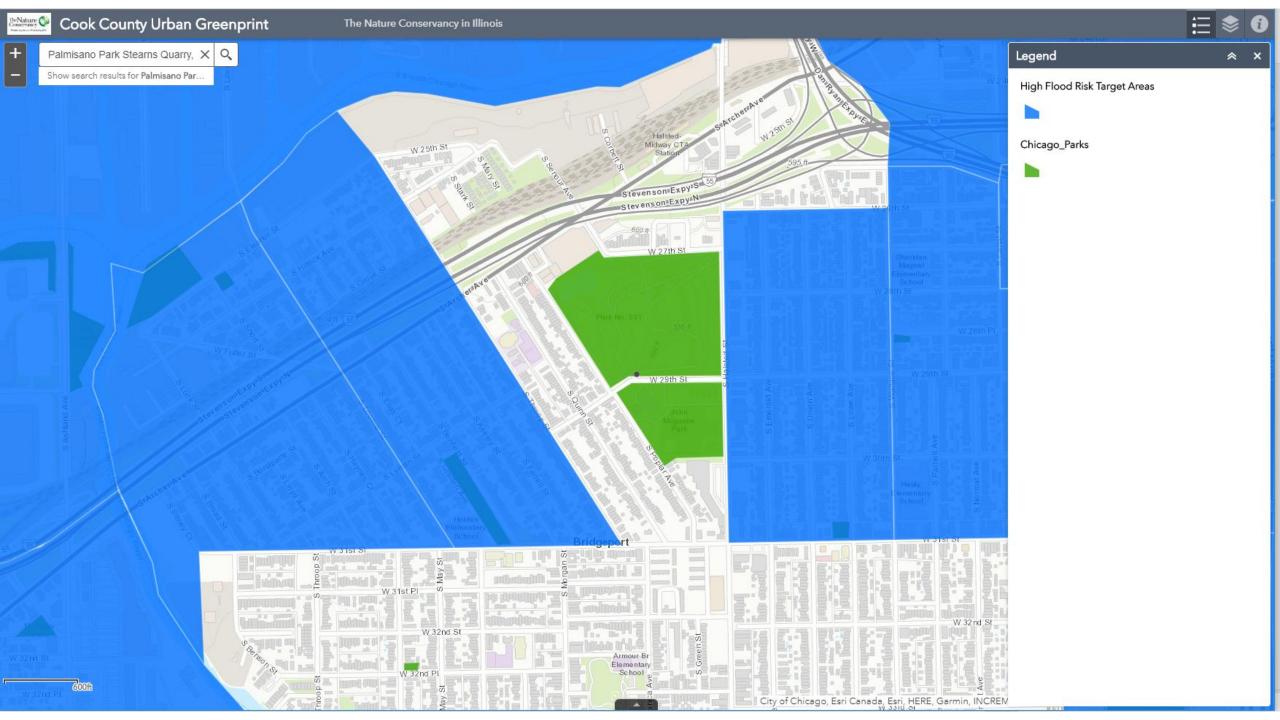


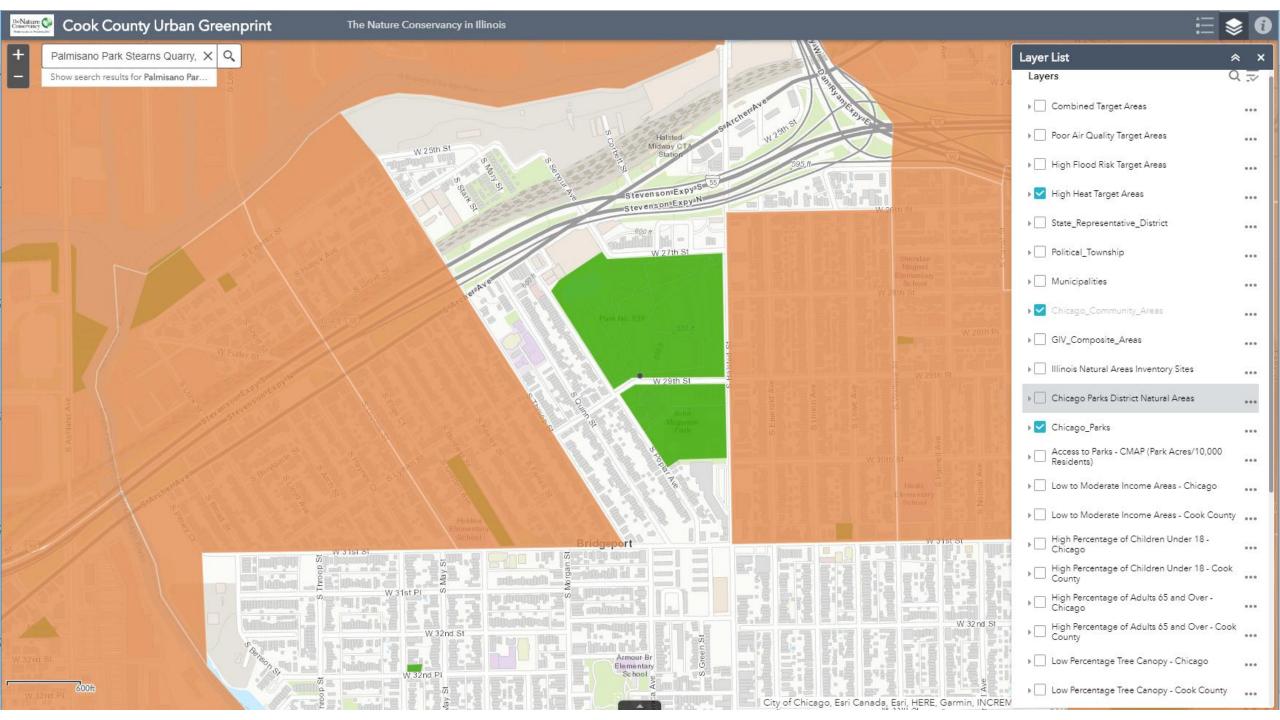


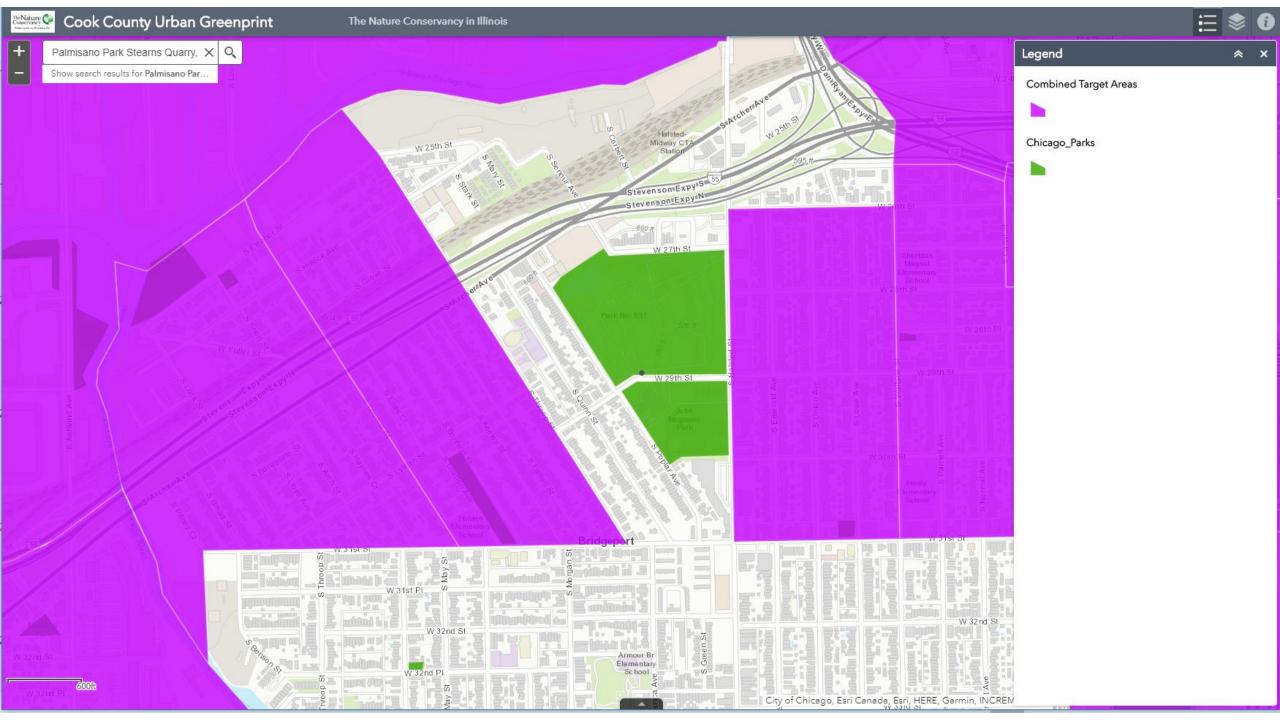


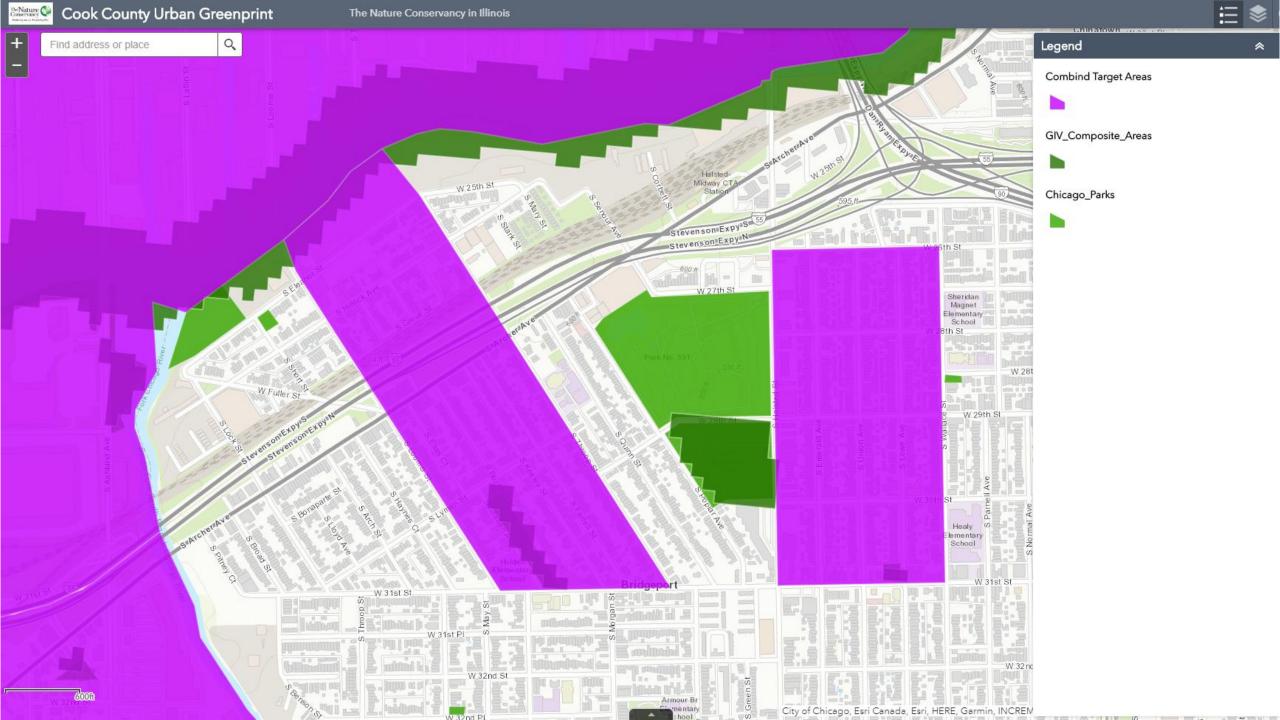


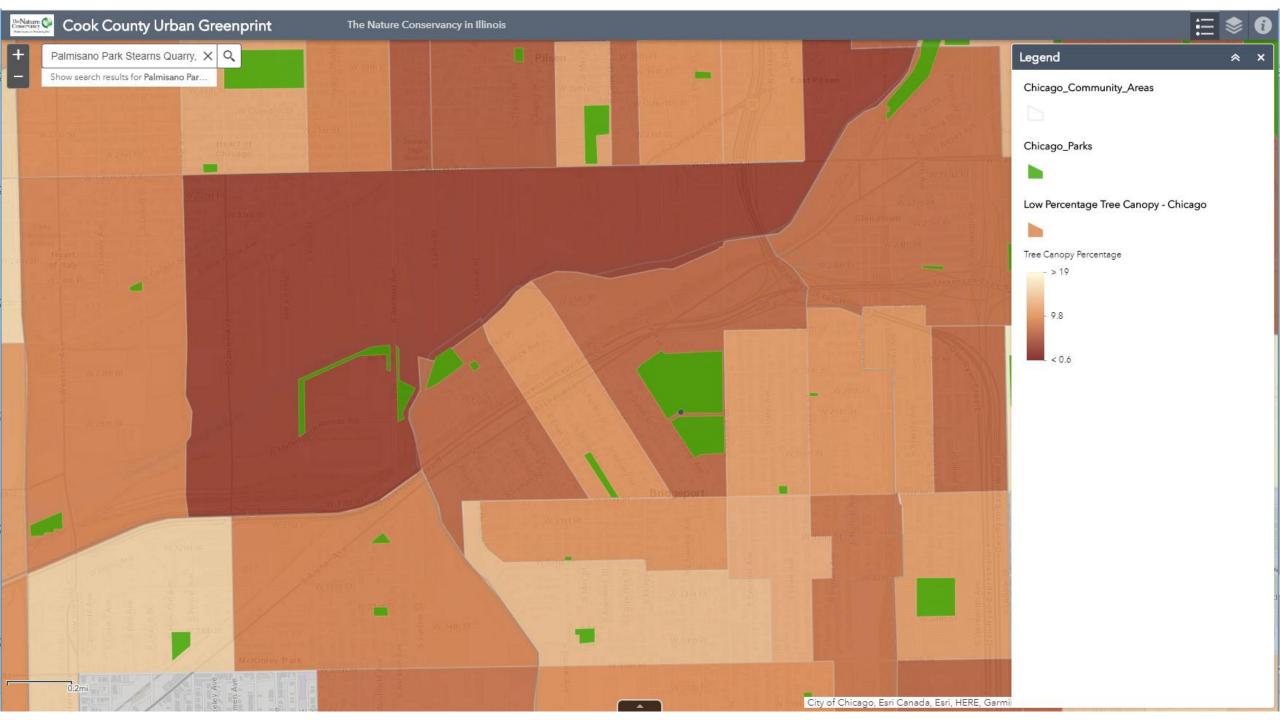




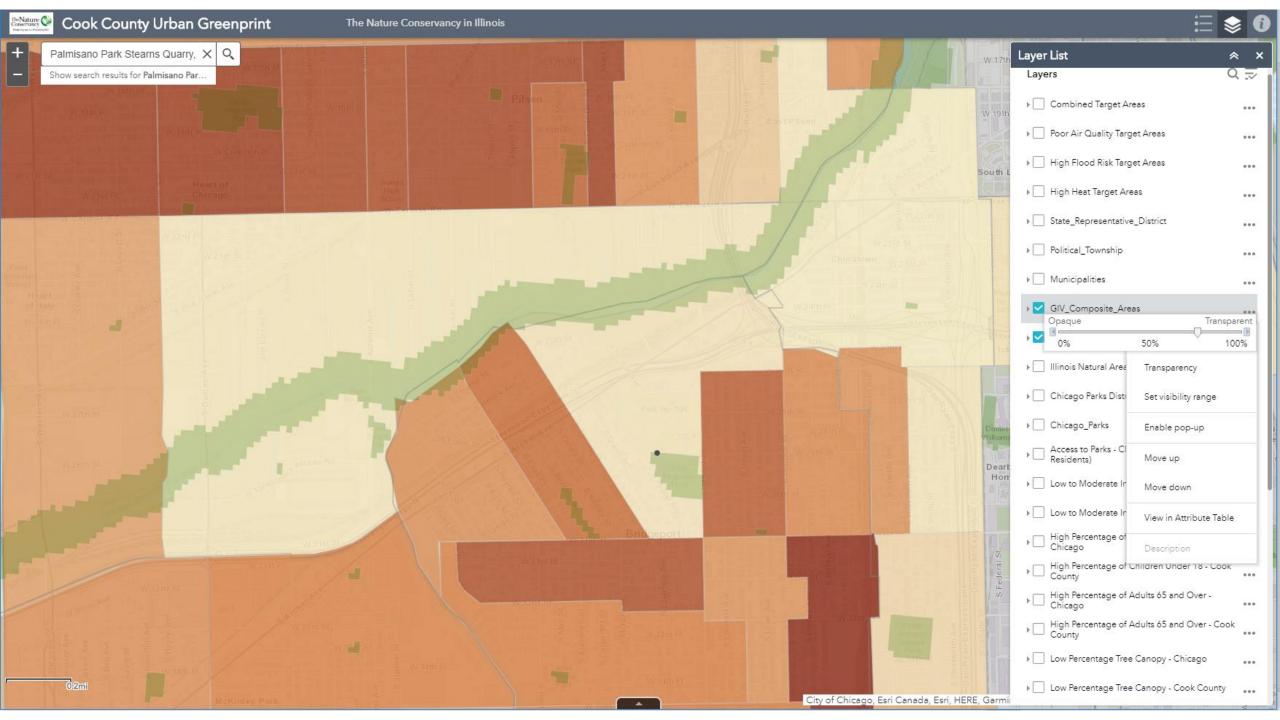


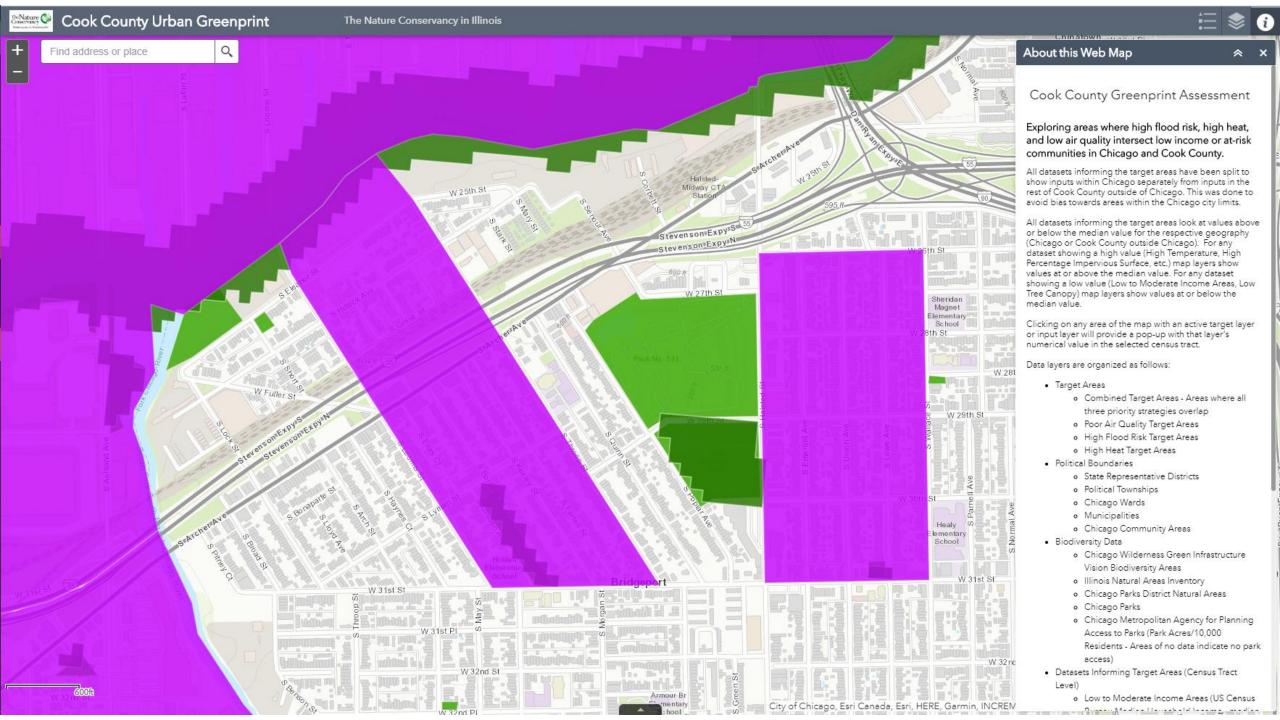














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