

CITY OF
MINNEAPOLIS

Climate Change Vulnerability Assessment & Community Engagement

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Minneapolis Office of Sustainability: Kelly Muellman



Introduction and Background

- Project Goals and Objectives: Pam Blixt
- Vulnerability Assessment: Kelly Muellman
- Community Engagement: Jenni Lansing





What is this project?

October 2015:
City of Minneapolis
received grant from
Public Health Institute
Center for Climate
Change and Health

Phase I:
Climate
Change
Vulnerability
Assessment
(Spring 2016)



Phase II:
Community
Engagement

(Fall 2016)



Phase III:
Evaluation
and next
steps

(Spring 2017)





What did Phase I accomplish?

1

Social
vulnerability

- Mapped populations that are inherently more vulnerable
- Mapped cumulative social vulnerability

2

Landscape
vulnerability to
heat

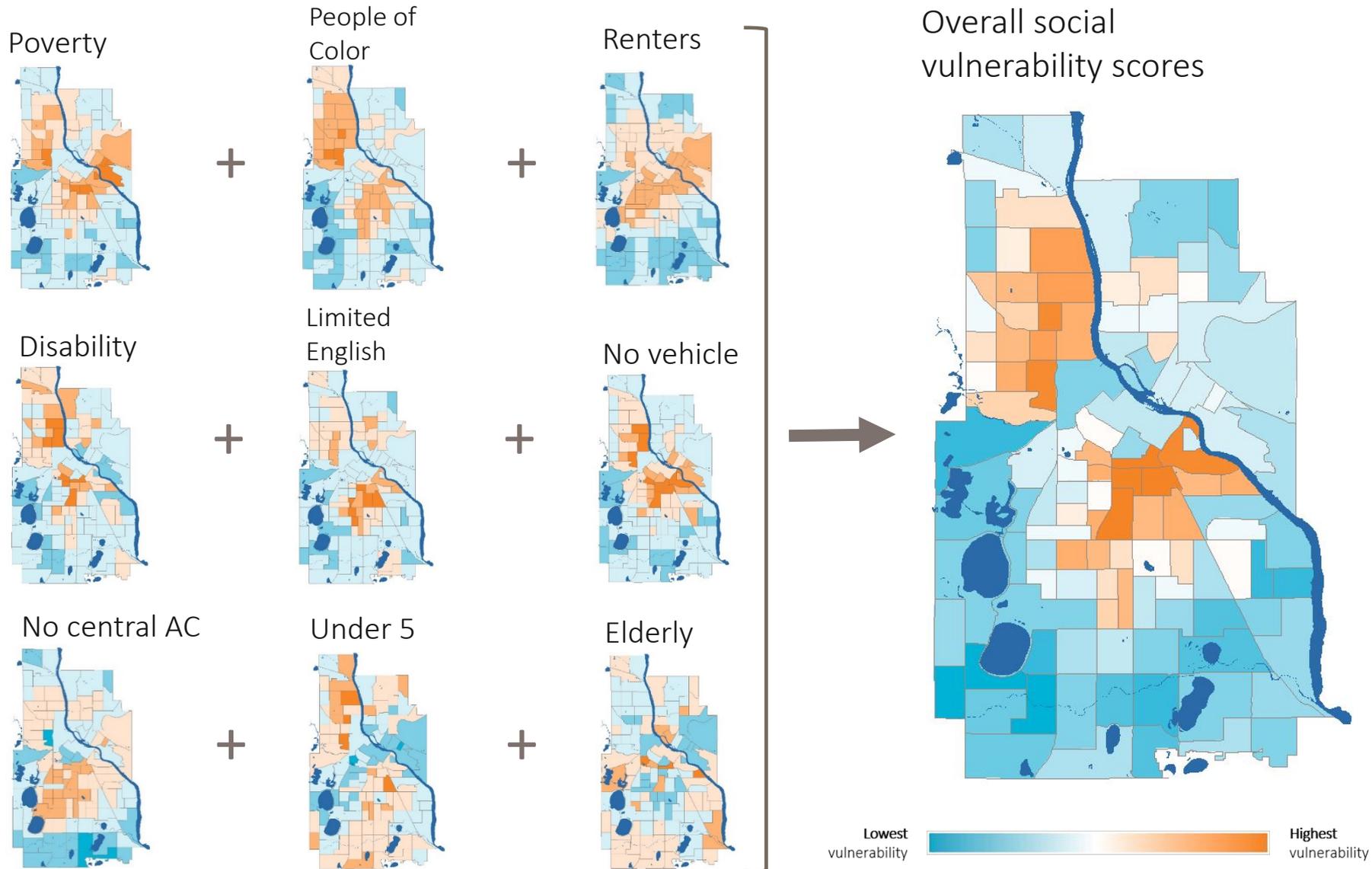
- Mapped urban heat island effect
- Identified opportunity areas: high impervious surface and low vegetation

3

Landscape
vulnerability to
flooding

- Mapped factors that contribute to flooding
- Mapped low-elevation areas prone to flooding

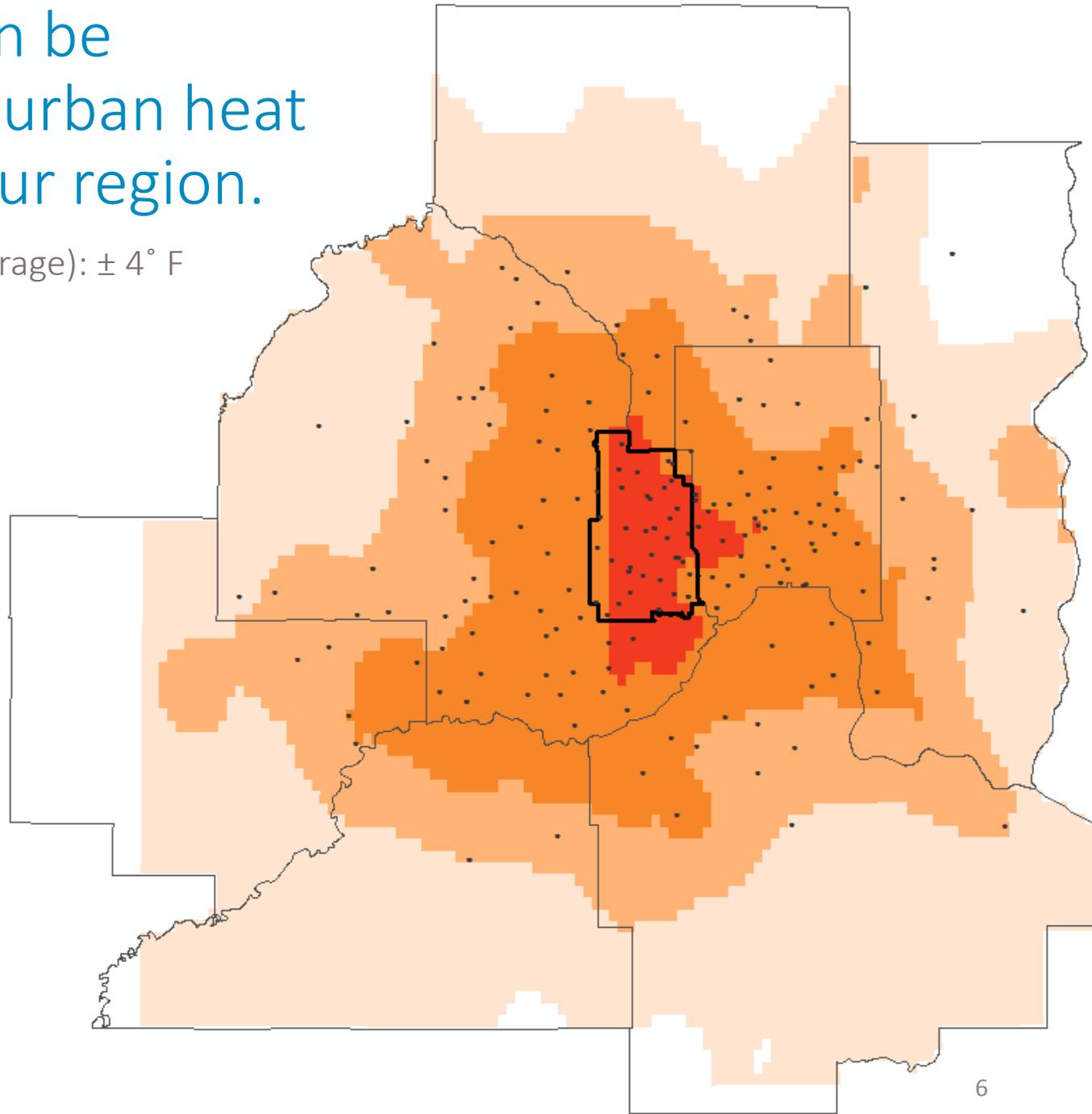
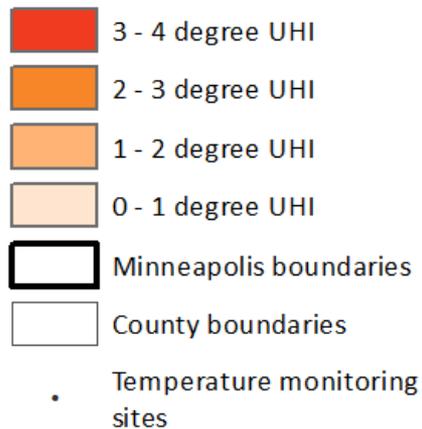
The overall social vulnerability map combines all nine factors together.



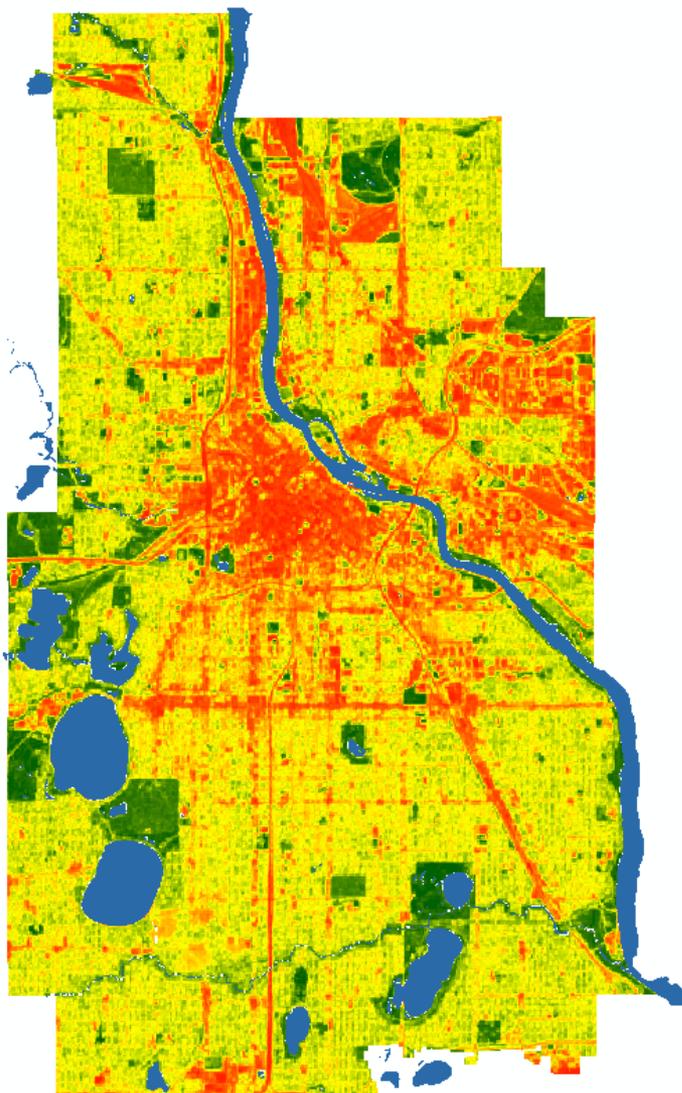
Minneapolis can be considered the urban heat island core of our region.

June/July/August 2012 (average): $\pm 4^\circ$ F

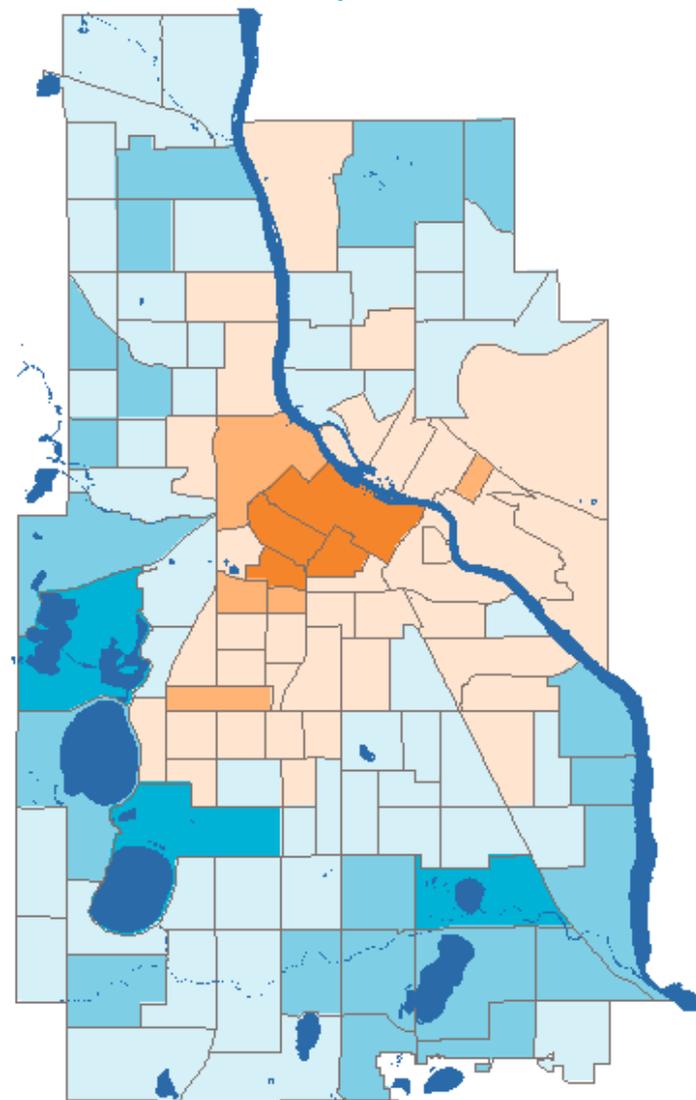
**Urban heat island effect:
June/July/August 2012
(degrees F)**



Locations with **low vegetation** and **high impervious surface** are key places to focus urban heat island adaptation efforts.



Lowest landscape vulnerability to heat  **Highest** landscape vulnerability to heat



Lowest landscape vulnerability to heat  **Highest** landscape vulnerability to heat



What will happen in Phase II?

1

Community Designations

- Longfellow
- Near North
- Phillips

2

Community Partner Workshop

- September 12th
- State and local presenters
- Training and collaboration

3

Community Outreach

- Community outreach events will take place Fall 2016



What will happen in Phase III?

- Project evaluation with support from Macalester College
- Final report summarizing the results of the community outreach
- Presentation to project stakeholders