

to our conversation on:

# CLIMATE JUSTICE: WHY IT MATTERS & WHAT YOU CAN DO



# TONIGHT'S CONVERSATION IS BROUGHT TO YOU BY:







for a greater Richmond









# The Geography of Climate Inequity

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David and Jane Cohn Scientist, Science Museum of Virginia

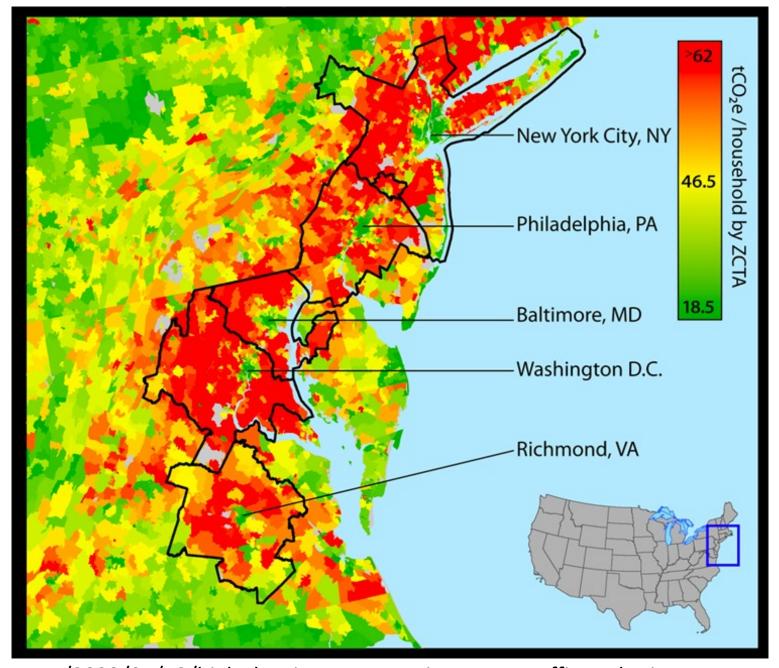
Affiliate Faculty, Wilder School for Government and Public Affairs, Virginia Commonwealth University

Chapter Lead, Fifth National Climate Assessment, Southeast

With a lot of help from a lot of other amazing people

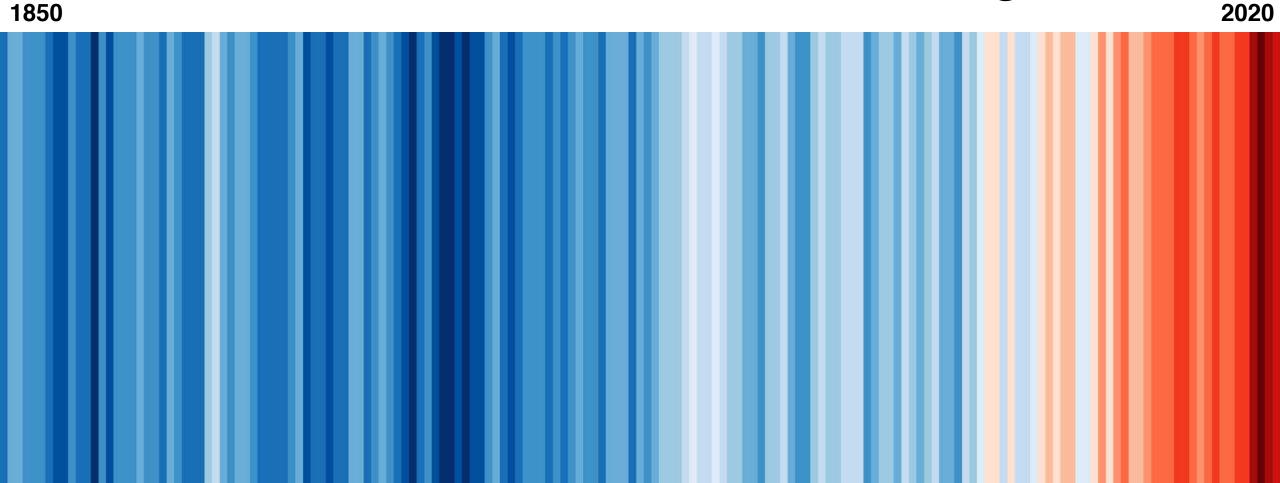


Dense, transit-oriented neighborhoods have the lowest carbon footprints!



https://coolclimate.berkeley.edu/maps

### Human-caused climate change



## What is climate *injustice*?



### What is climate *resilience*?

A region resilient to climate change will have:



### What is climate *resilience*?

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Participatory and integrated processes that bring together stakeholders across sectors and jurisdictions to cultivate shared ownership of resilience-building strategies.

### What is climate *resilience*?

A region resilient to climate change will have:



in communities that bear the brunt of climate impacts.

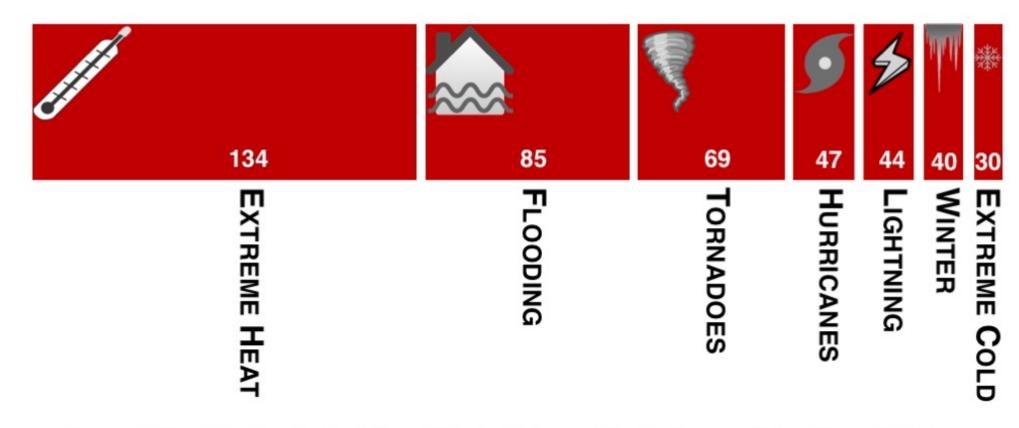
# Already experiencing & expecting a: hotter, wetter, sneezier and wheezier climate



# DEADLIEST WEATHER-RELATED HAZARDS

AVERAGE NUMBER OF PEOPLE KILLED PER YEAR (1988-2017)







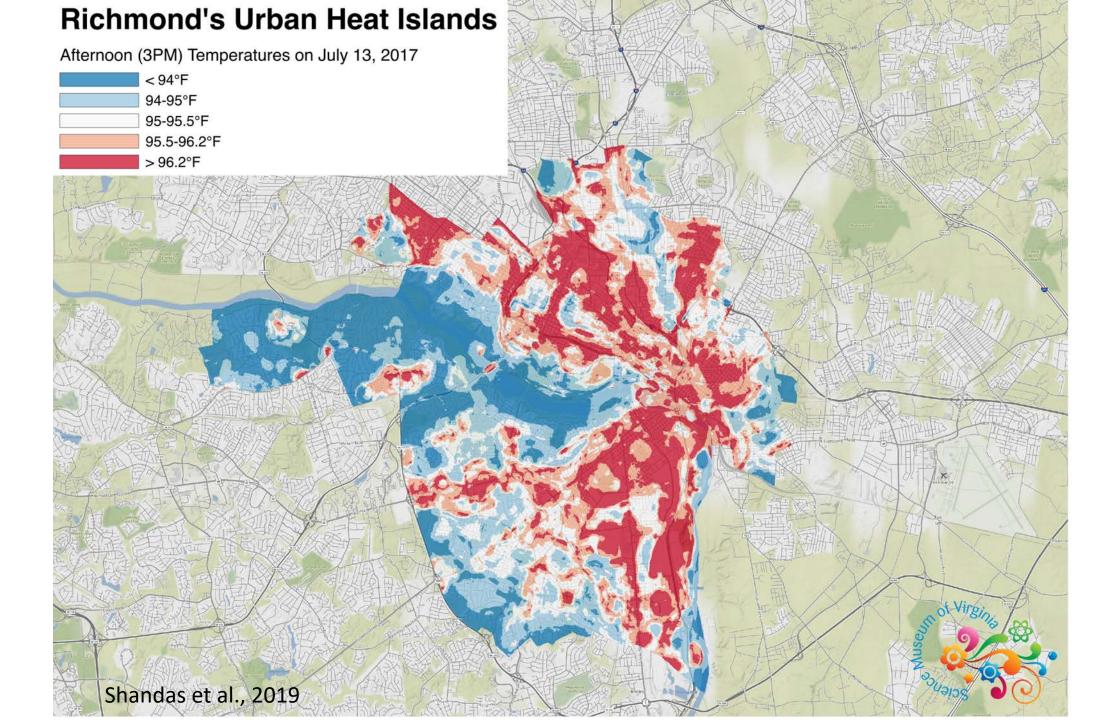






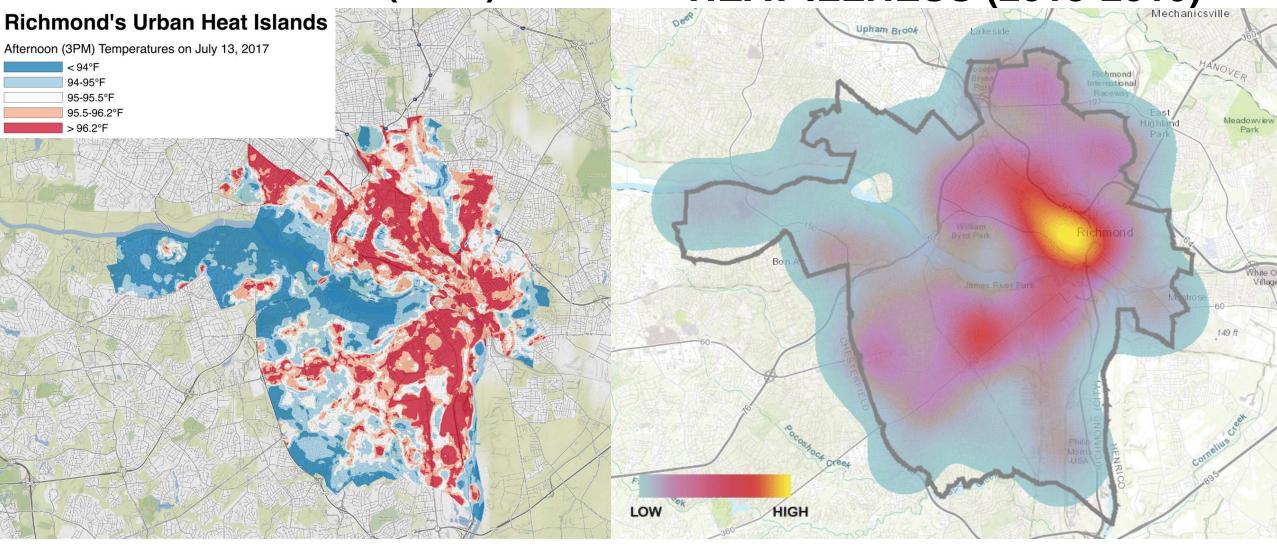






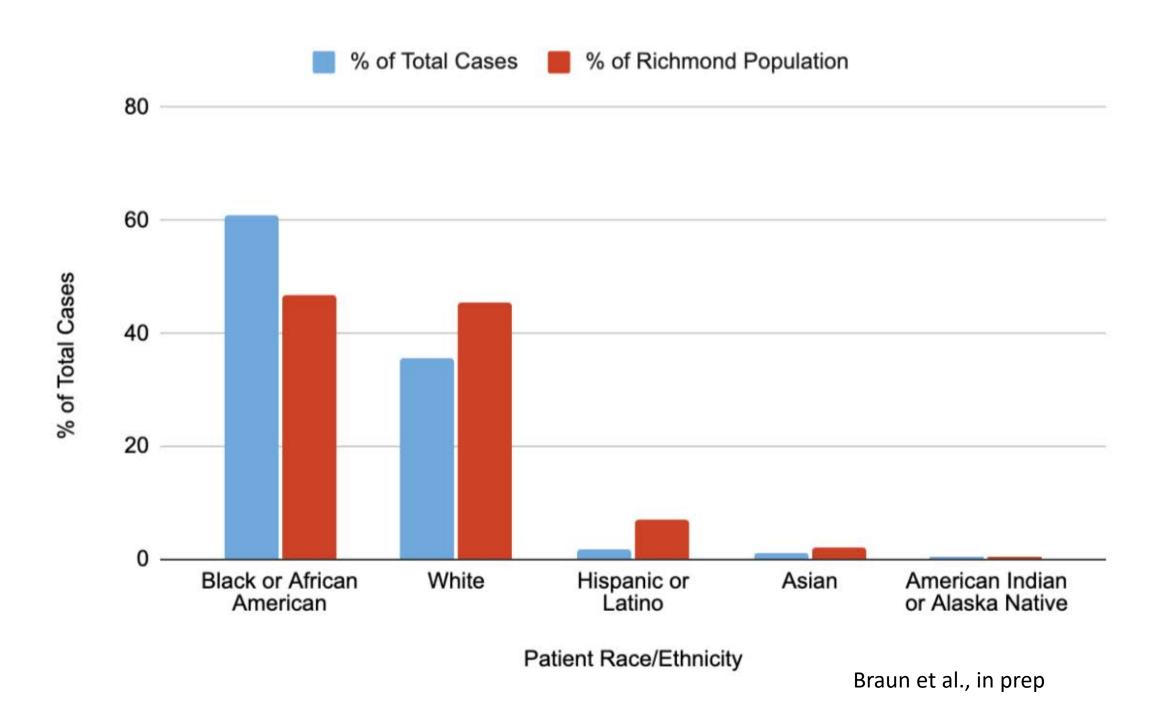
**EXTREME HEAT (2017)** 

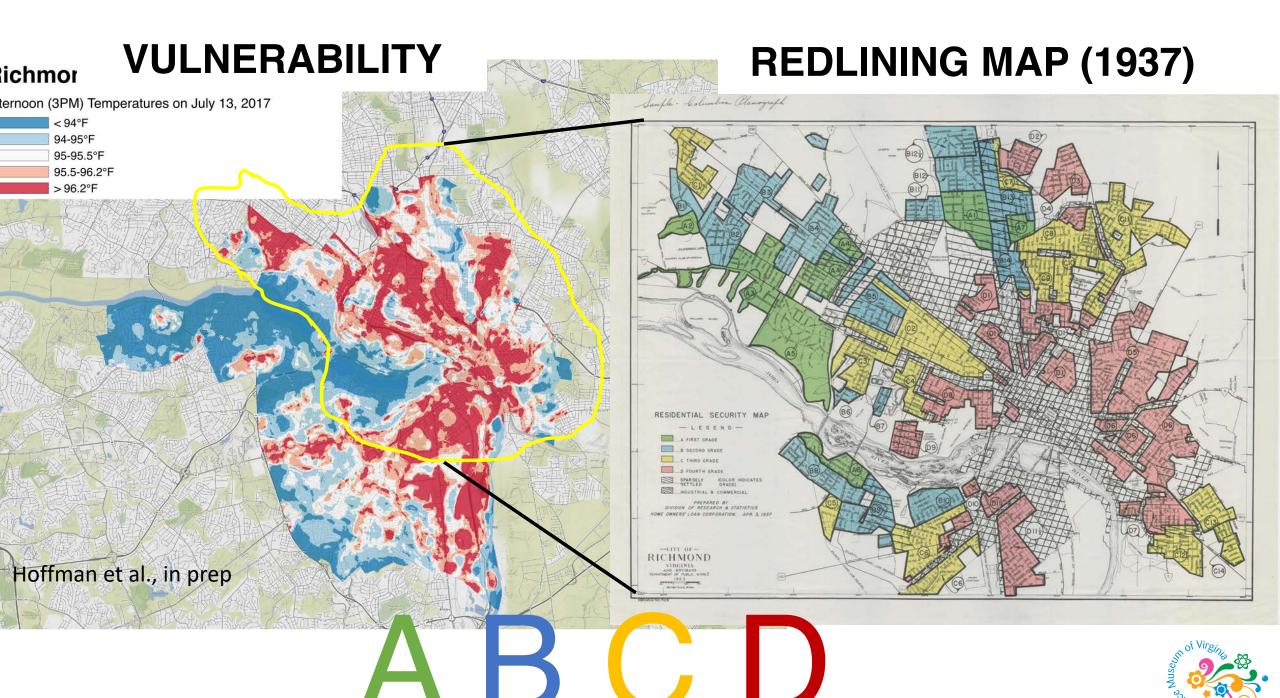
AMBULANCE RESPONSES FOR HEAT ILLNESS (2015-2019)



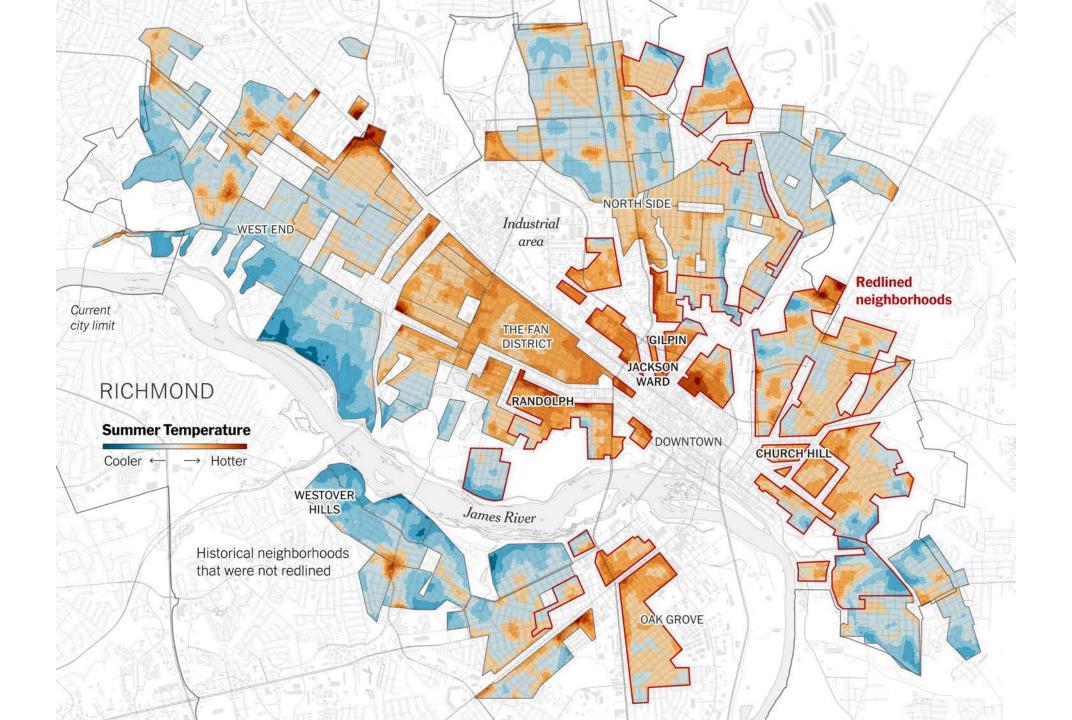
Shandas et al., 2019

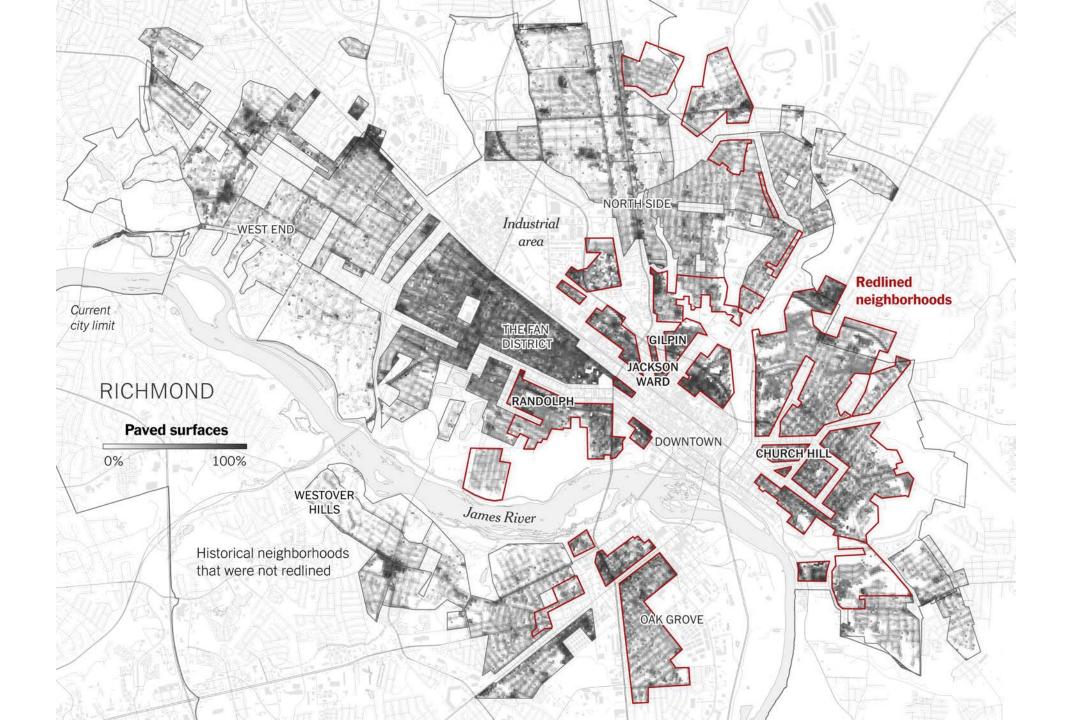
Data: Richmond Ambulance Authority

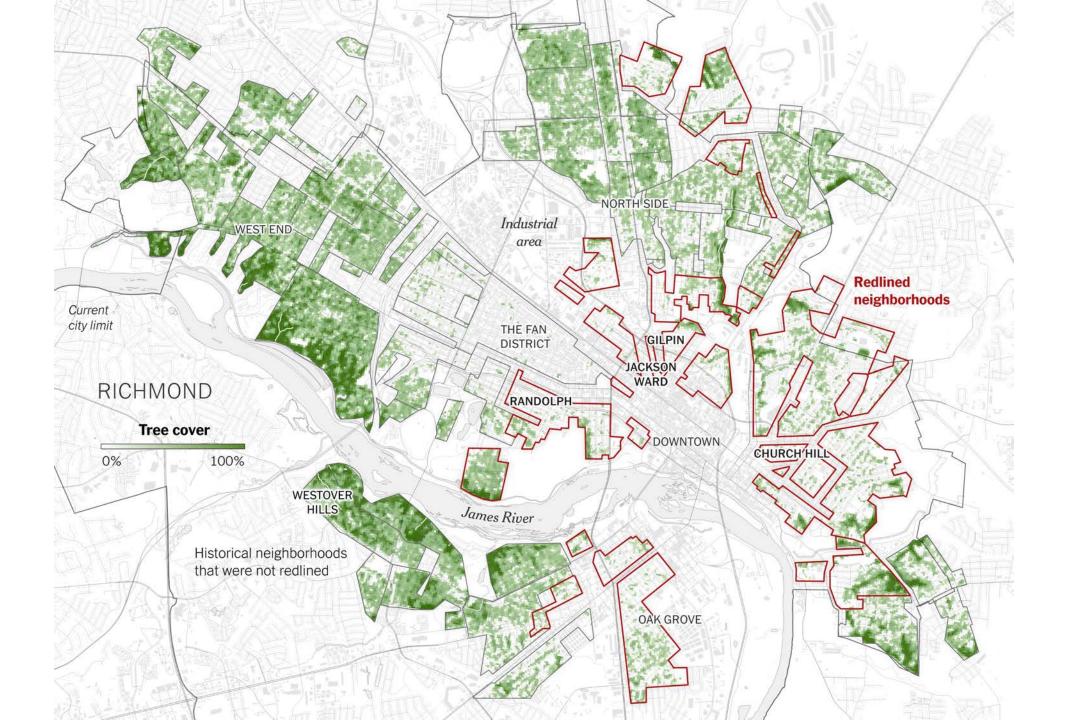


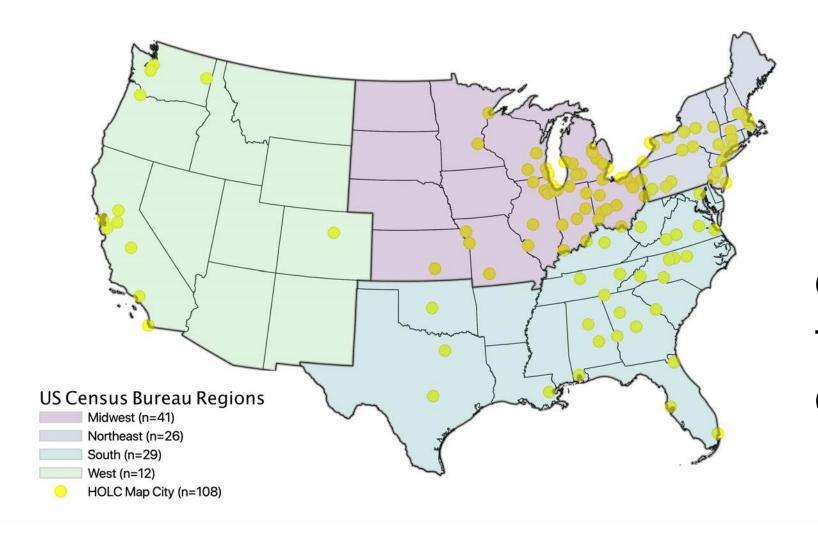












In 94% of the cities studied, this pattern was observed.

# So what do we do now?



#### Solutions

Heat mitigation

Reducing the built and environment's contribution to urban heat



#### Heat management

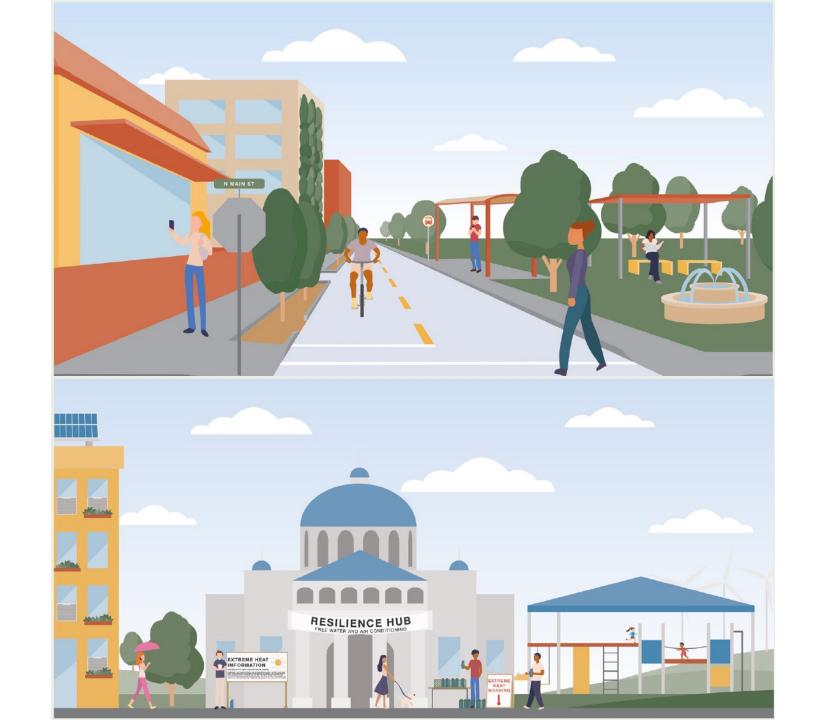
Preparing and responding to chronic and acute heat risk

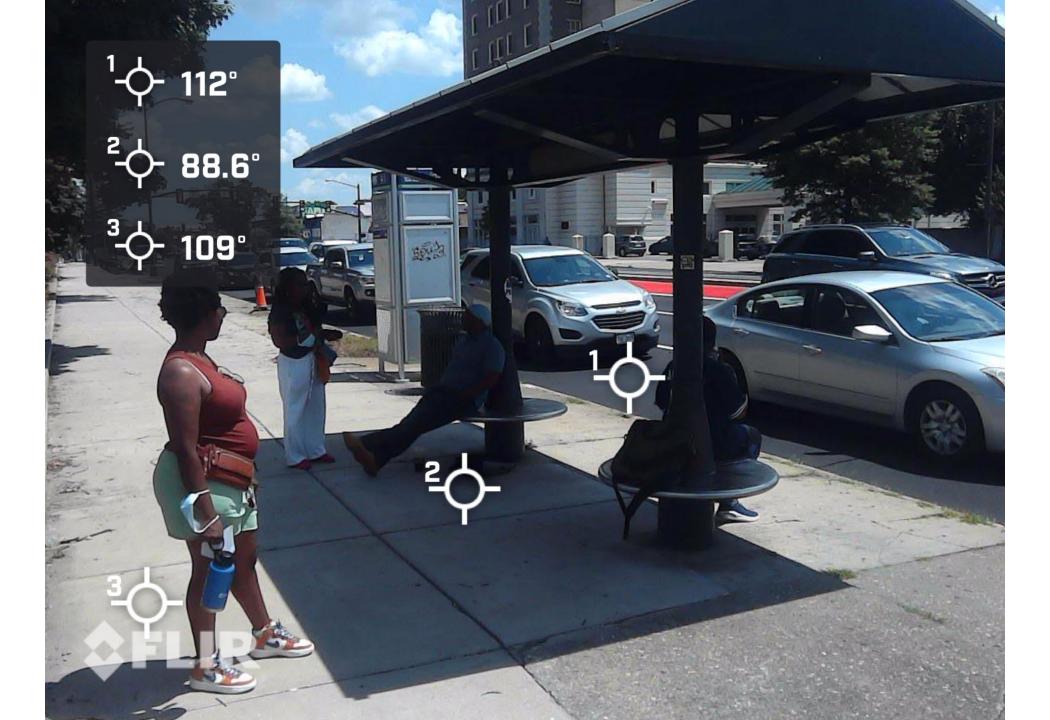


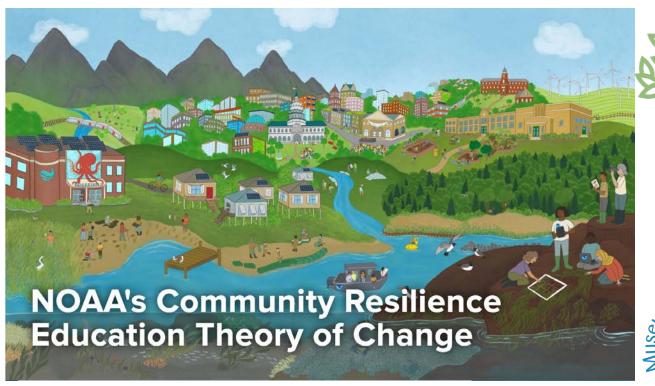


Heat-resilient communities











City of Richmond









Connect





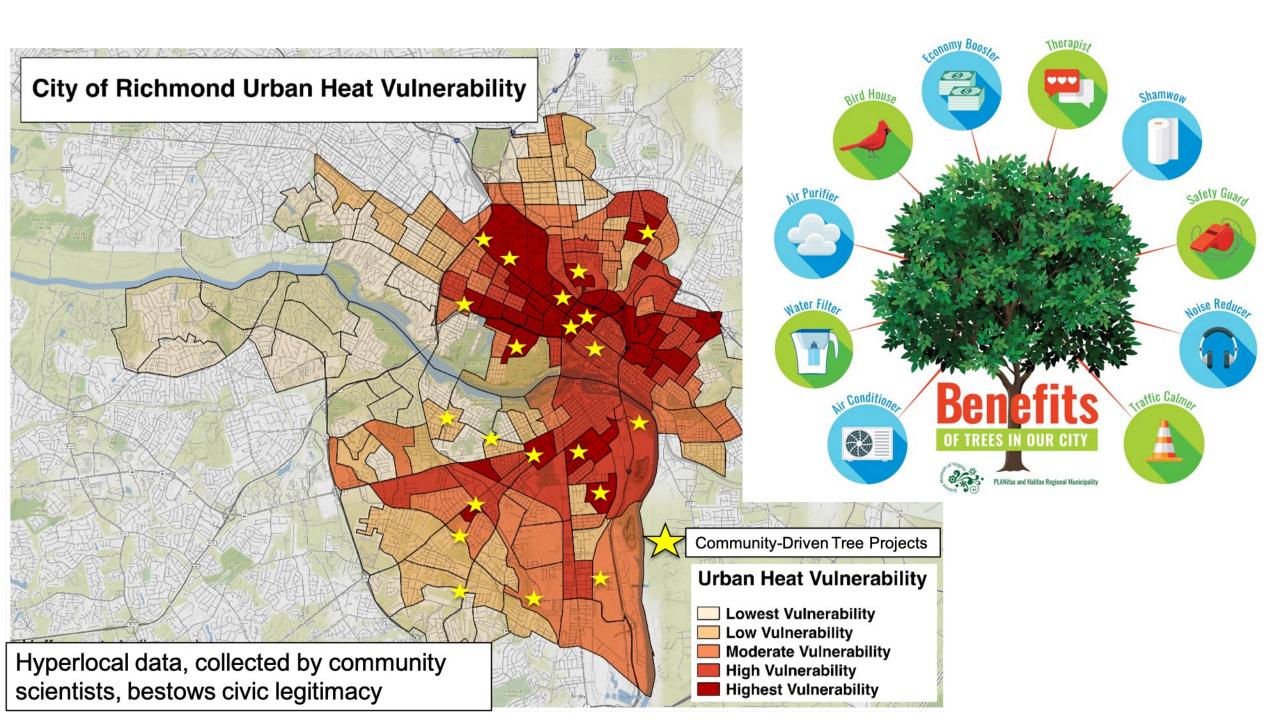


#### **12 ABOUT TOWN**

# Mayor Stoney announces 5 new green spaces in Richmond's southside



Mayor Levar Stoney (Source: NBC12)











# Thanks!

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