Using Community Science to Support Diverse Communities: An Environmental Justice Perspective

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COLLEGE OF NATURAL RESOURCES AND ENVIRONMENT FISH AND WILDLIFE CONSERVATION VIRGINIA TECH...

Background



Historic Inequalities

Community Science



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What words do you associate with **Environmental Justice?**

Waiting for responses ...





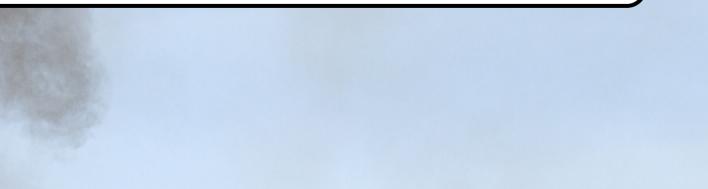
Definitions

Environmental Injustice

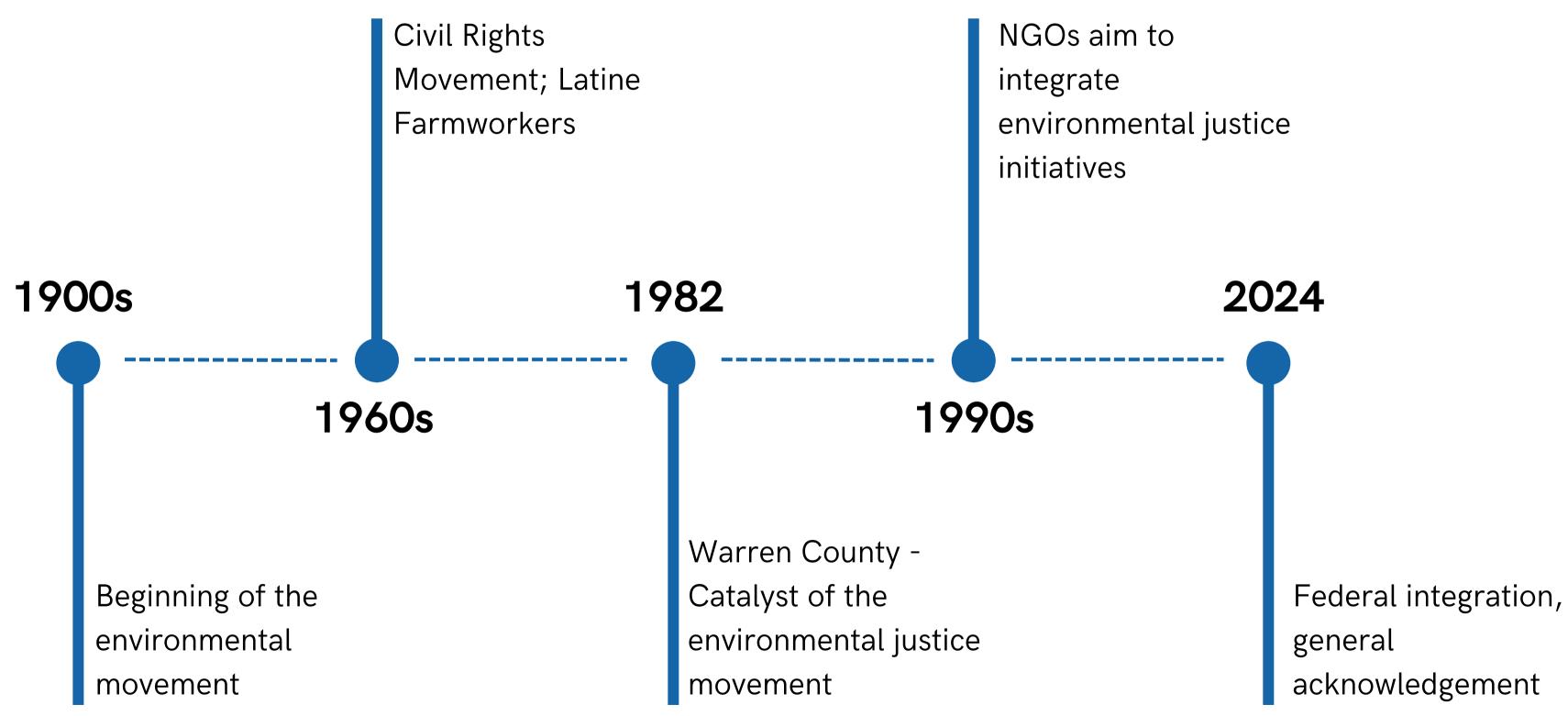
When poor and/or marginalized communities are harmed by land uses from which they do not benefit

Environmental Justice

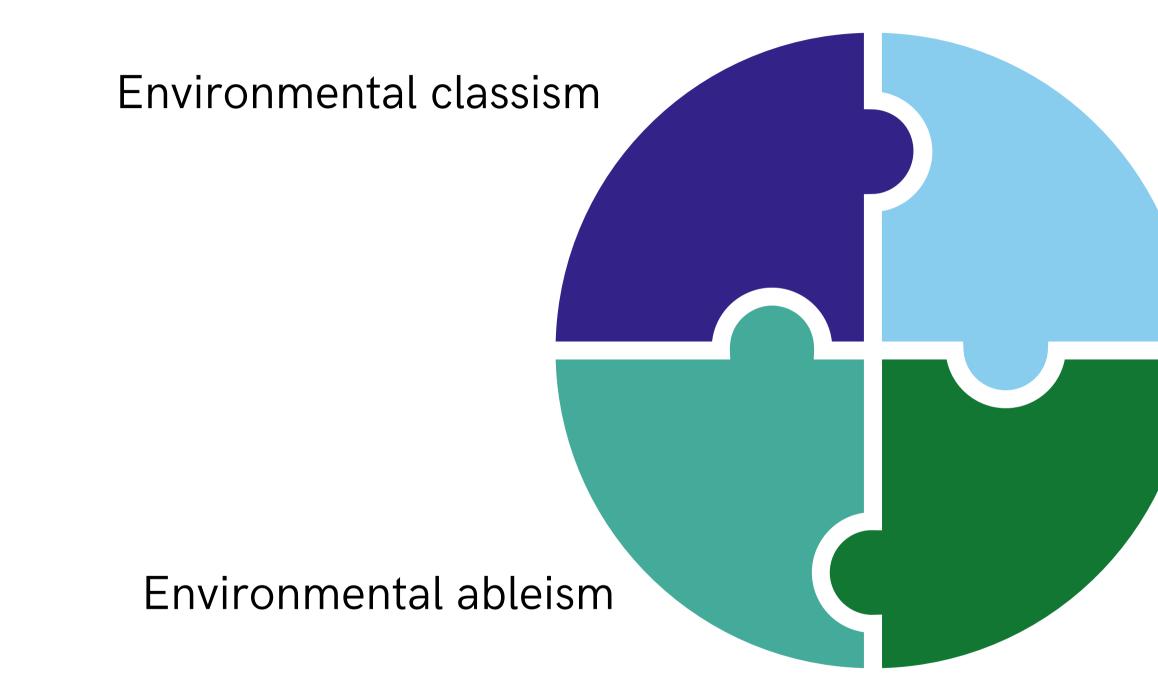
A social movement that focuses on the fair distribution of environmental benefits and burdens



History of Environmental Justice







Environmental racism

Environmental sexism



Breakout Activity

injustice? Any within your work? environmental injustices?

- Discuss:
- 1. What are some examples of environmental
- 2. How might these injustices impact certain groups?
- 3. What can you do in your position to address

 - https://bit.ly/r2rswg



Environmental Justice Examples

Redlining

Discriminatory housing practices in the 1930s impact life for certain Americans today

Volunteer data collectors and community science projects are homogeneous, missing key spatial areas



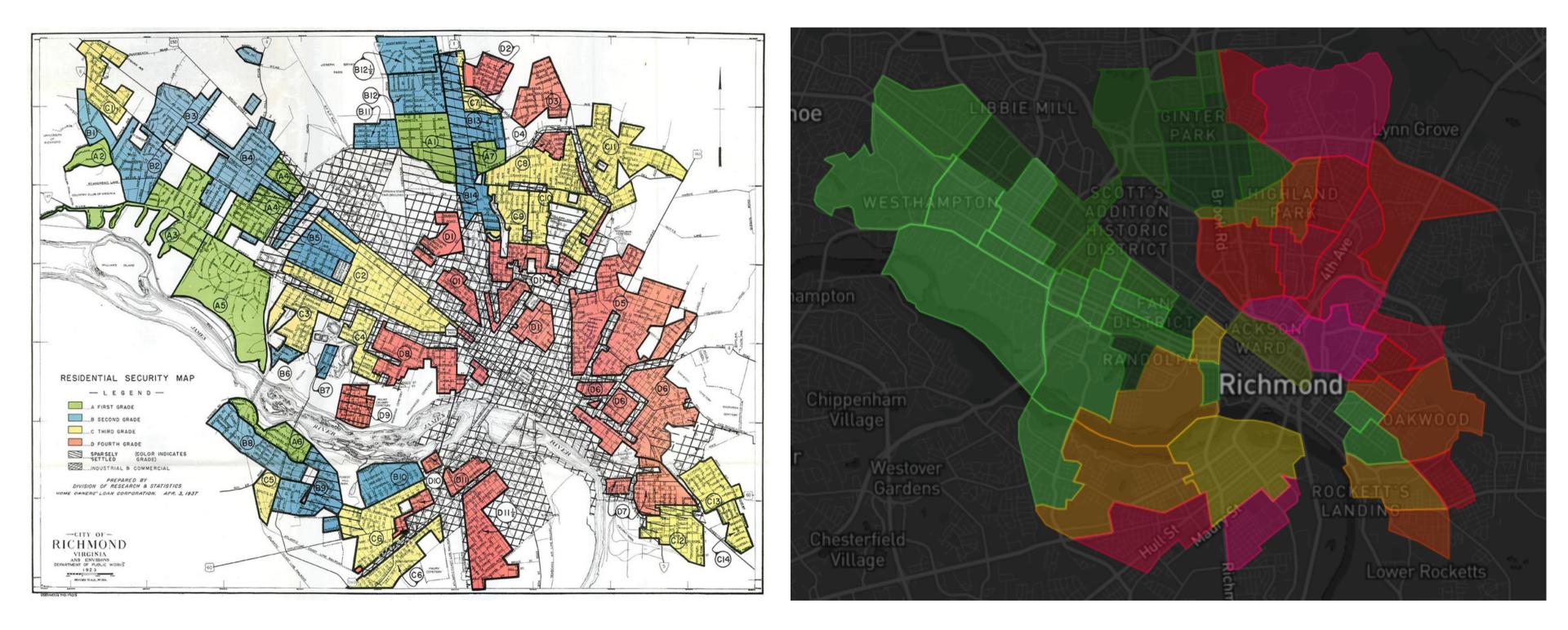
Community Science



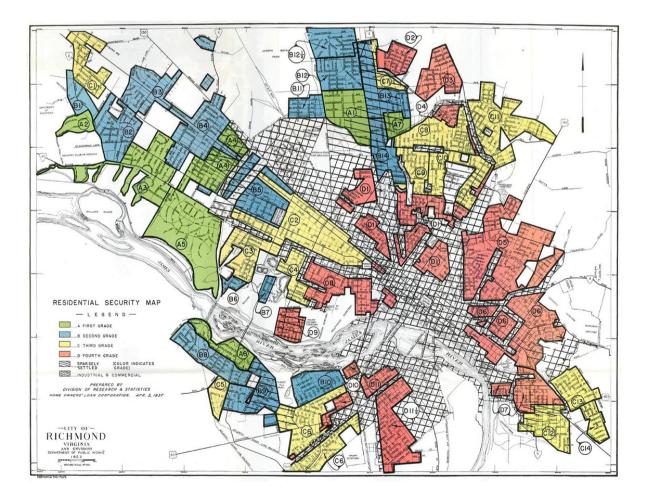
Video Link Here

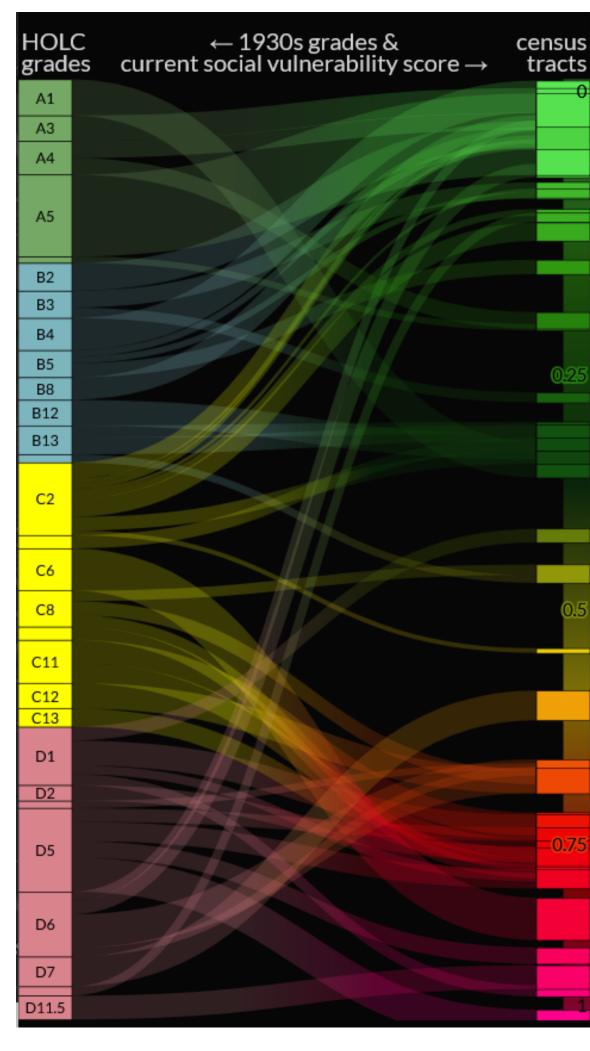
1930s HOLC Grade

CDC Social Vulnerability Index

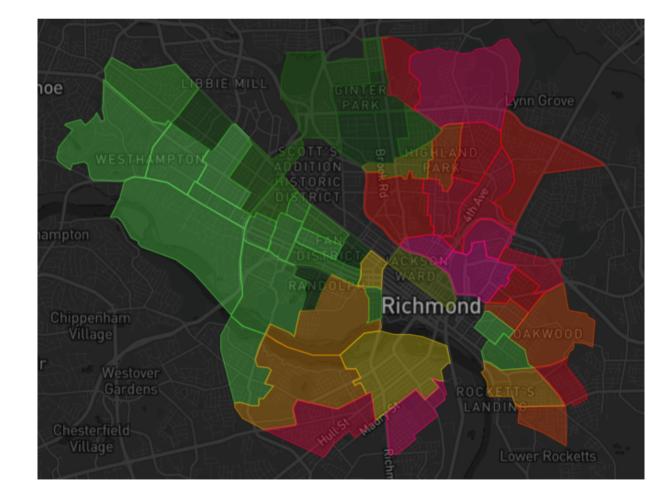


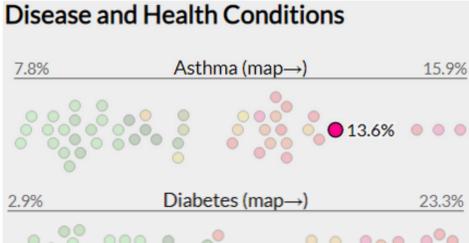
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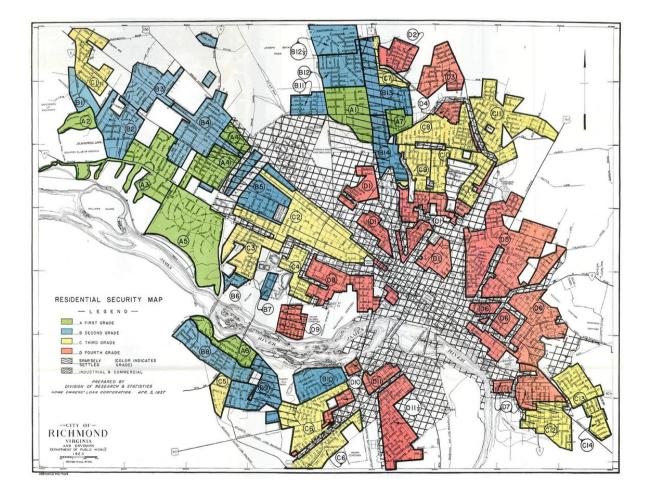


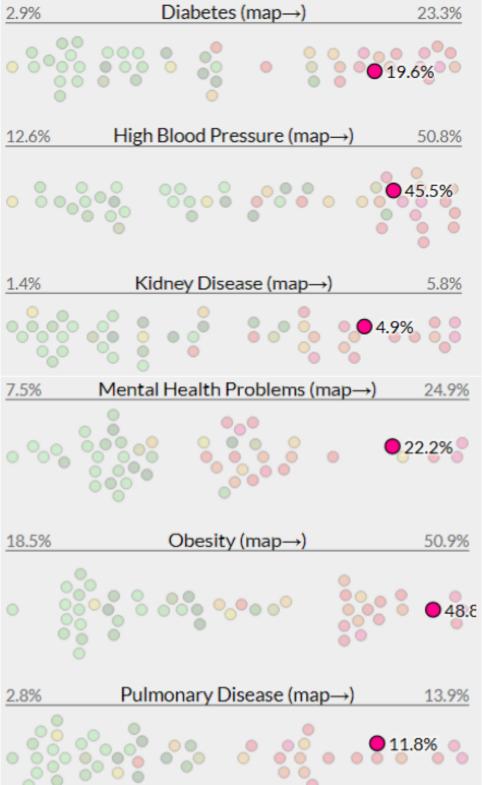
CDC Social Vulnerability Index



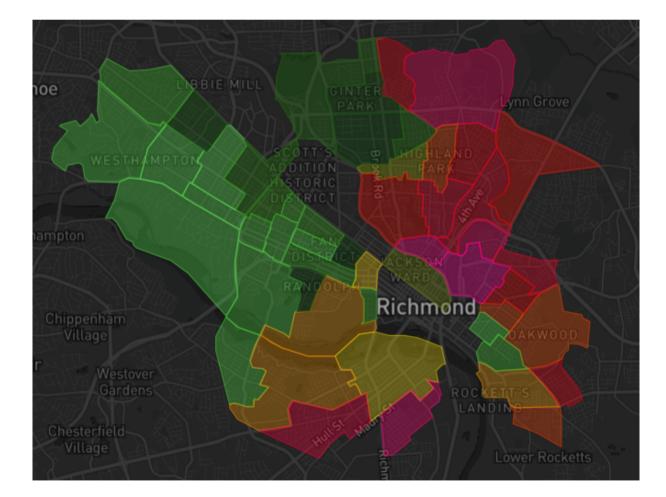


1930s HOLC Grade





CDC Social Vulnerability Index



Black-throated Gray Warbler (Setophaga nigrescens)

California 👌

Lars Y Pomara

Ornithological Applications, duad044, https://doi.org/10.1093/ornithapp/duad044 Published: 11 October 2023 Article history v

Evaluating the use of semi-structured crowdsourced data to quantify inequitable access to urban biodiversity: A case study with eBird

Aaron M. Grade, Nathan W. Chan 🖾, Prashikdivya Gajbhiye, Deja J. Perkins, Paige S. Warren 🖾

Published: November 9, 2022 • https://doi.org/10.1371/journal.pone.0277223

Historical racial redlining and contemporary patterns of income inequality negatively affect birds, their habitat, and people in Los Angeles,

Eric M Wood ™, Sevan Esaian, Christian Benitez, Philip J Ethington, Travis Longcore,



Community Science

Kirtland's Warbler (*Setophaga kirtlandii*)

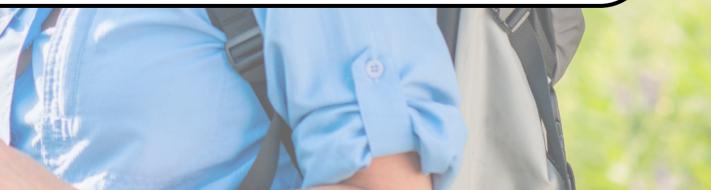
Community Scientists

Engaged Supporters

White, affluent, highly educated, and live in neighborhoods of lowest environmental justice concern

Live in areas of highest environmental justice concern and are often not encouraged to participate

Unconcerned Public



Background

Series of conversations to understand support and encouragement for Black, Indigenous, and Minnesotans of color

Methods

Two sets of focus groups with

- Outdoor program practitioners (n=13)
- Program participants (n=11)

Discussing outdoor/conservation activities and best support tools to engage in these activities.



Findings

Expansive conservation and community science actions



Findings

Community invested and focused



Applications and Next Steps

Mutual partnerships



Tangible Support







To consider...

1. How does environmental justice impact your species and associated working groups? 2. Do you use/anticipate using participatory science in your group? What about habitat conservation? What environmental justice issues might occur across these aspects?

