Recent Developments in Health and Equity Insights for Policy Development

September 2022

EDF
ENVIRONMENTAL DEFENSE FUND®
Finding the ways that work

Health and Equity Insights

Advocacy Tools

Policy Opportunities

Childhood asthma

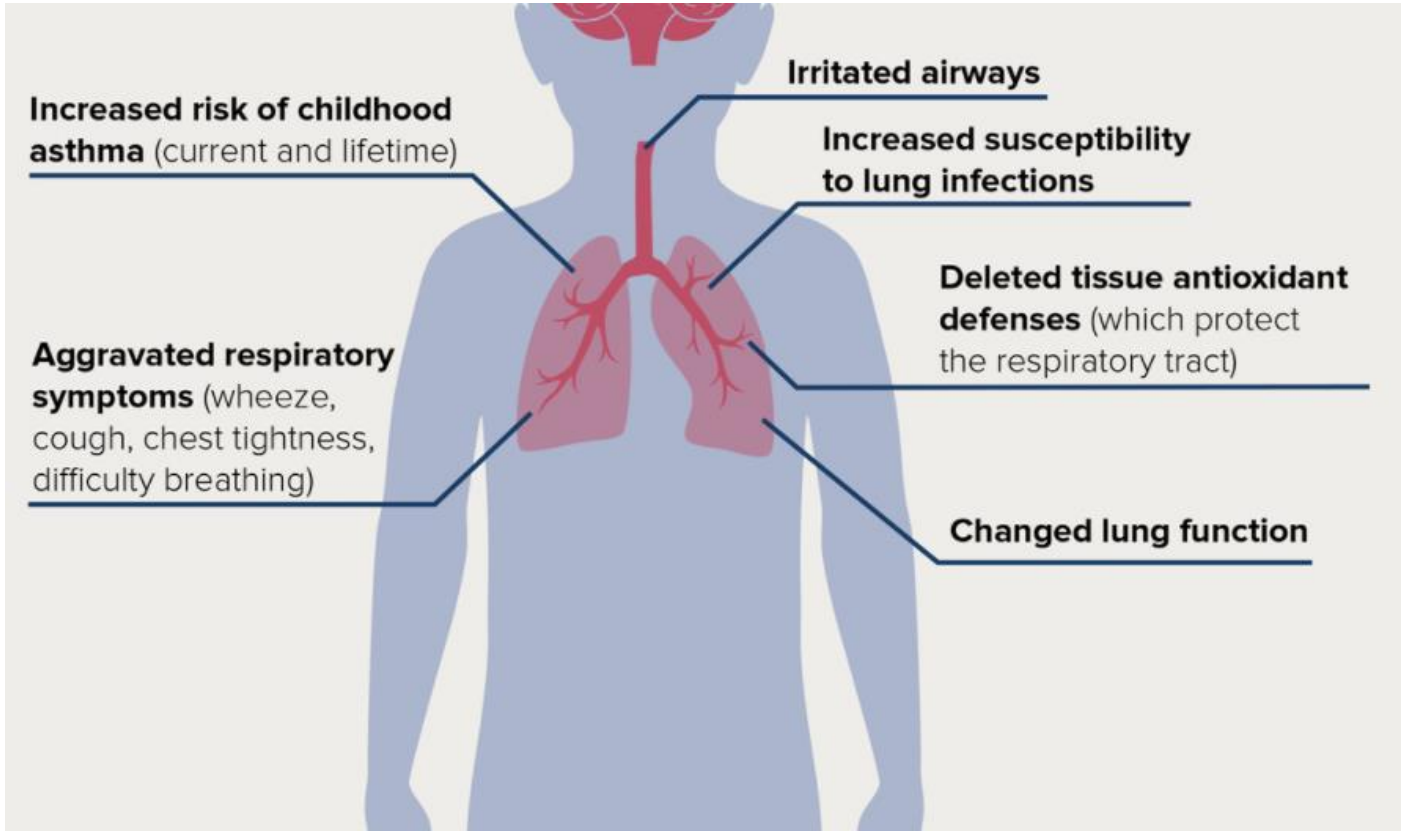
- 1 in 12 children have asthma
- More than half of all children with asthma had >1 asthma attack in 2016
- It is the leading cause of missed school days

African American Children:

- **2X** the prevalence of asthma than white children
- **5 times** more likely to be hospitalized for asthma
- Emergency room visits for asthma attacks were **highest** among young children and non-Hispanic black children

CDC

Air pollution's impacts on asthma



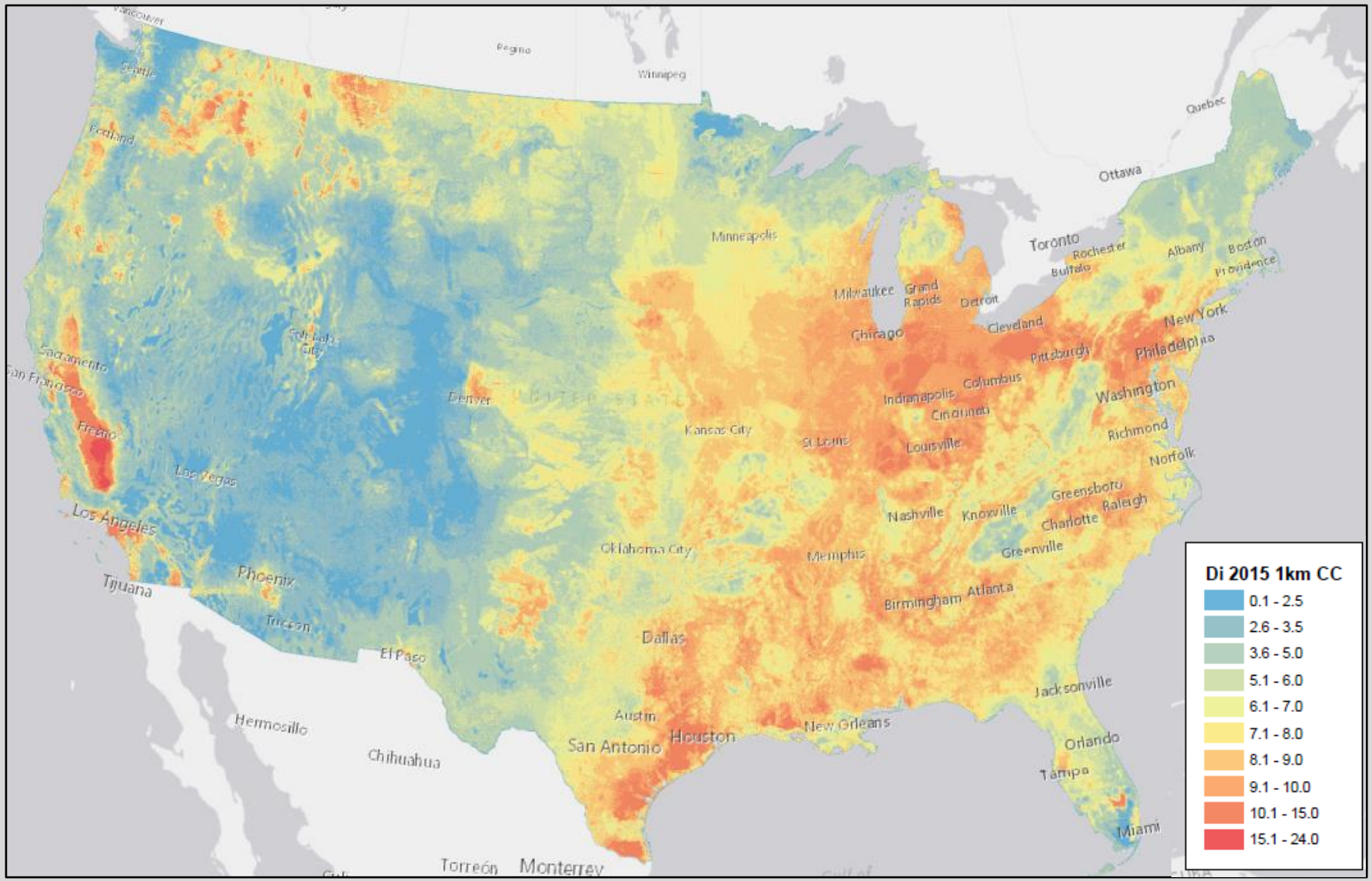
PM2.5

Ozone

NO2

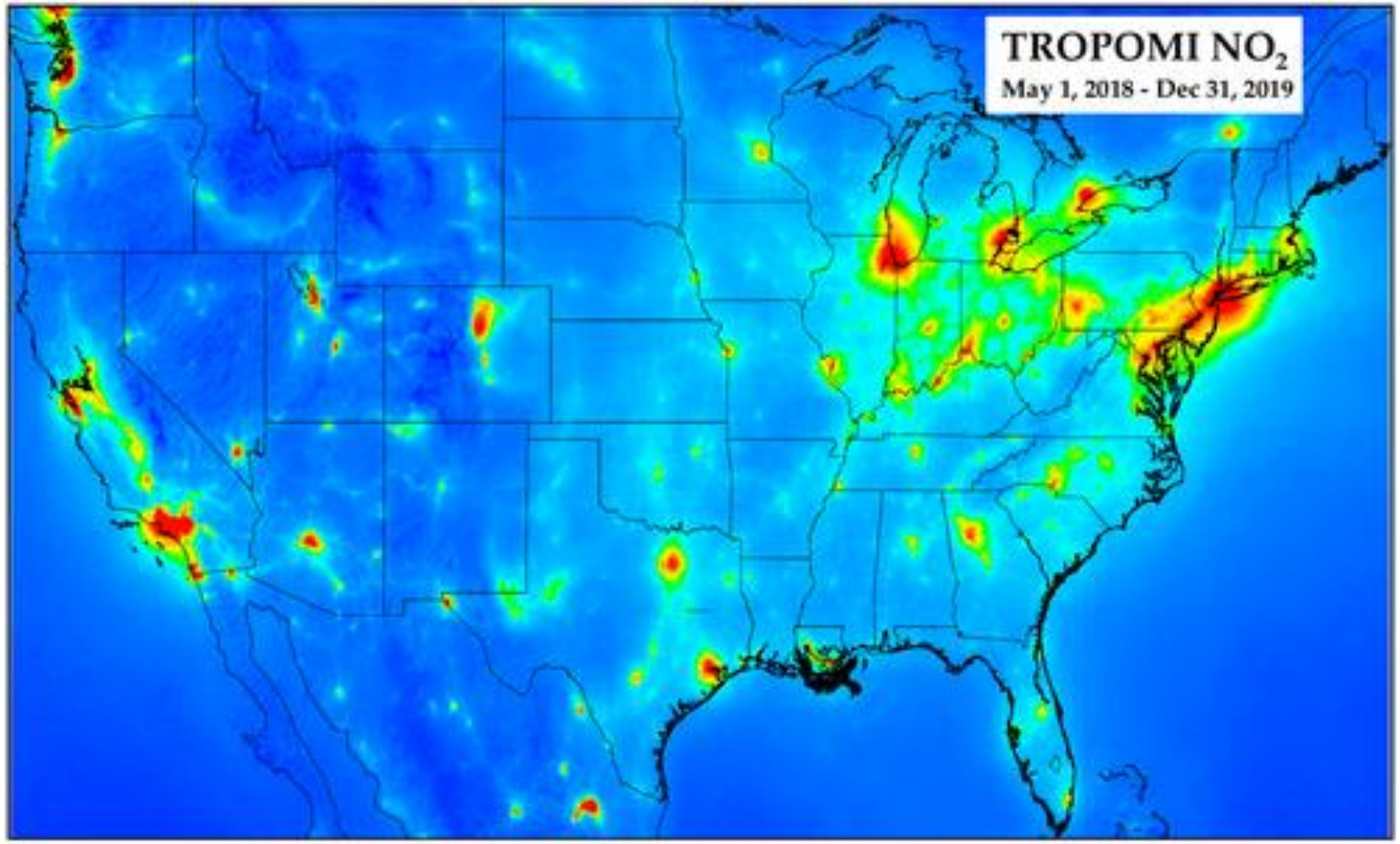
PM2.5 Exposure (2015)

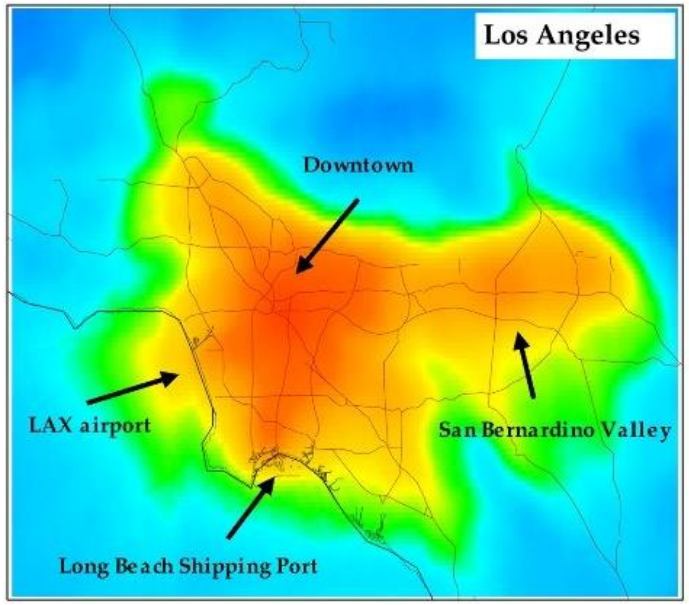
Black, Asian and Hispanic Americans had greater likelihood (**84%, 58%, and 113% higher**, respectively) than others of living in neighborhoods where air pollution levels were above 10 µg/m^3.

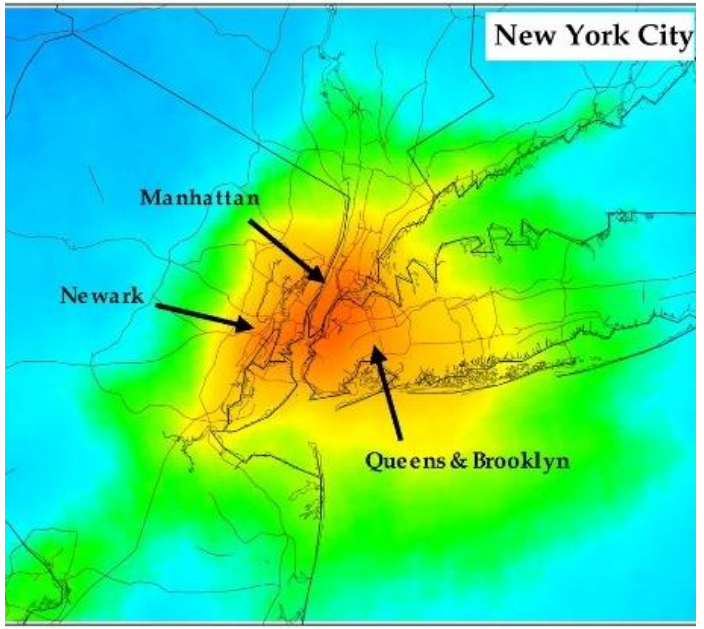


Di et al 2019, EDF blog on IEc report

New satellites enable nationwide NO_2 estimates at 1 × 1 km







Goldberg et al. 2021

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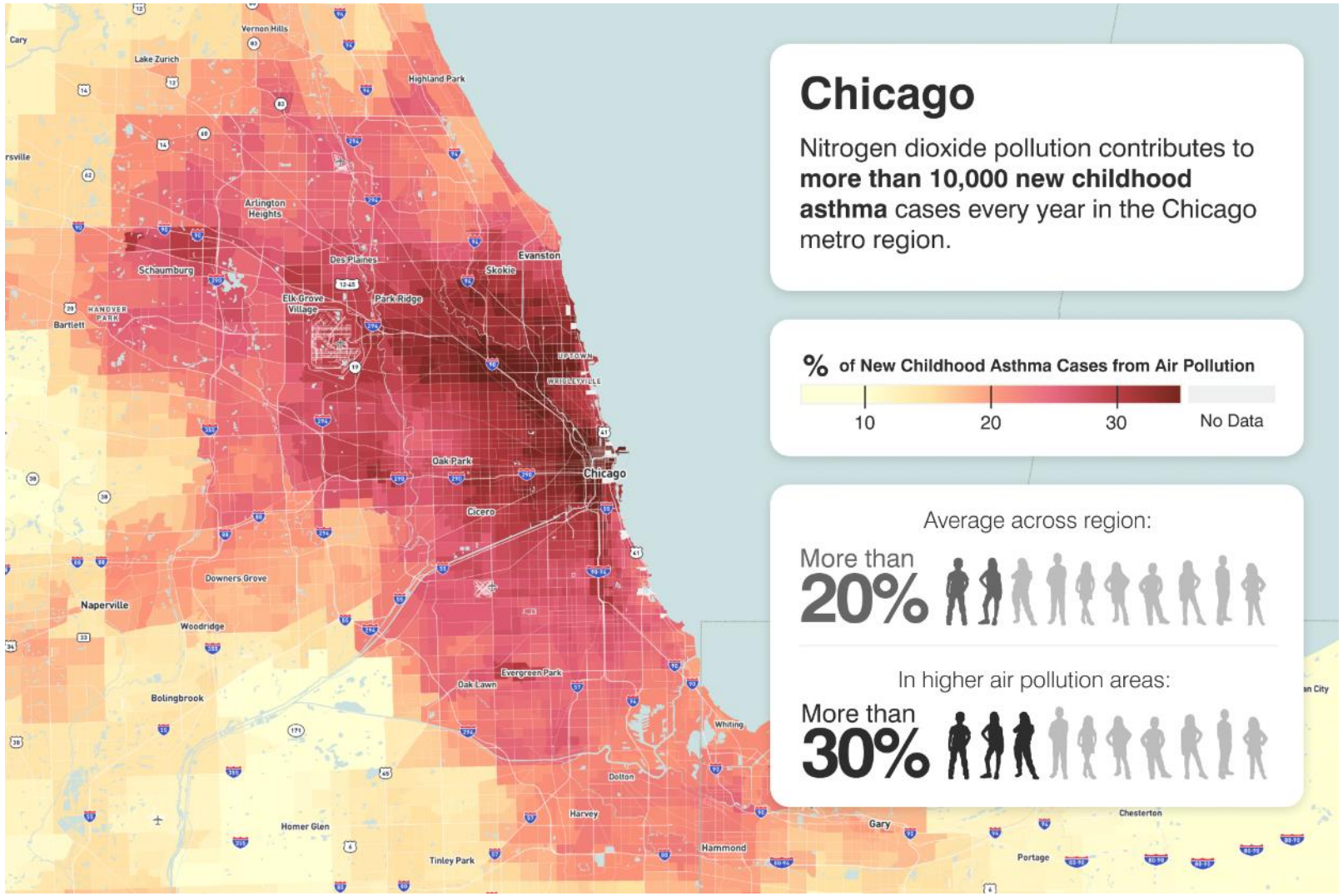
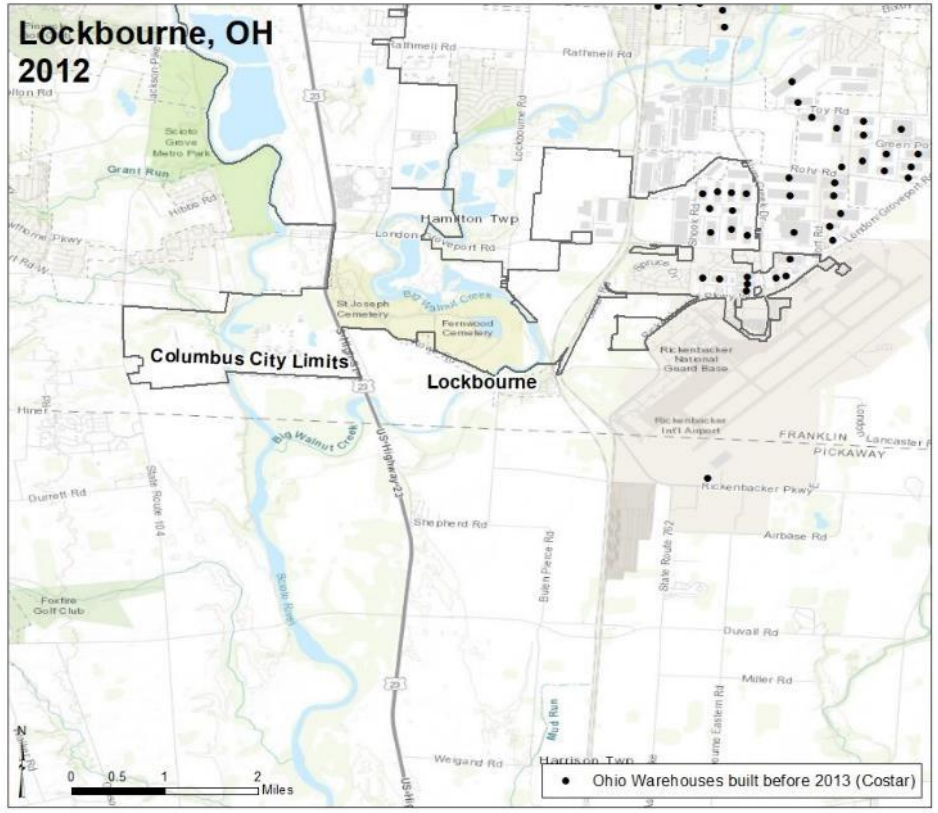
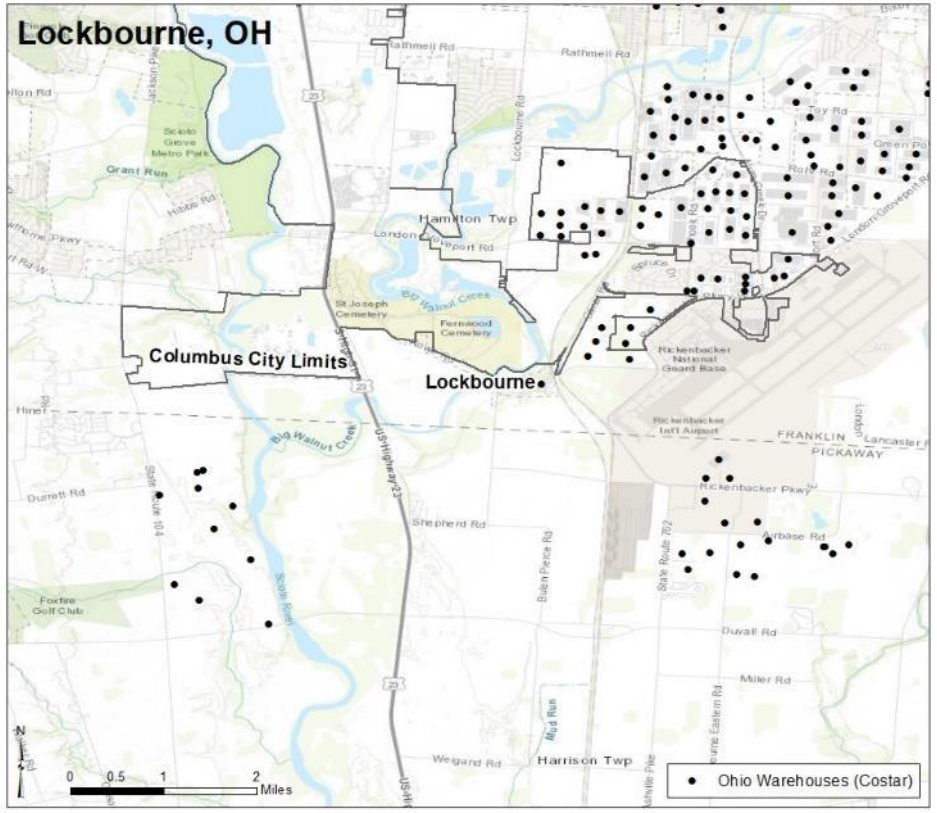
Science now ties new cases of children's asthma to traffic related air pollution

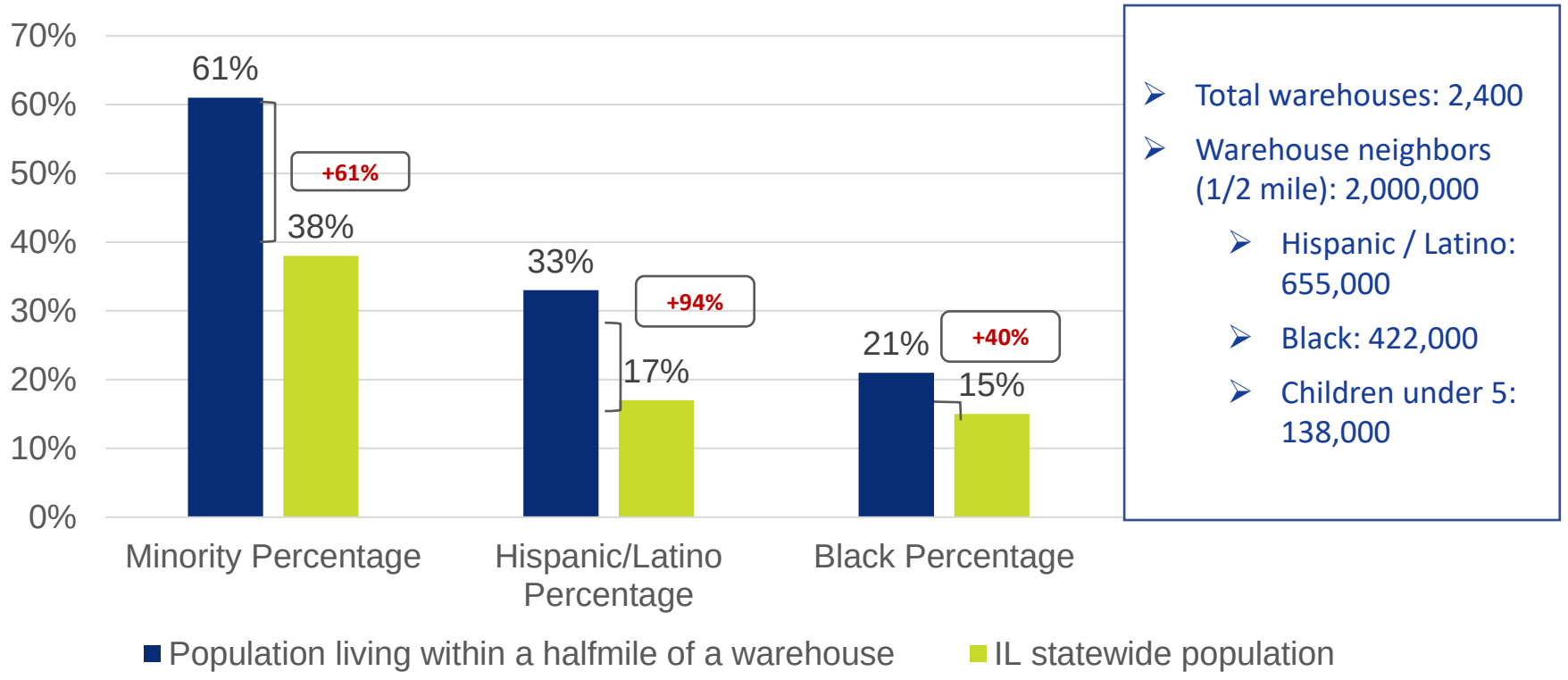


Warehouses are expanding their footprint





Black, Hispanic and Latino residents are over-represented around warehouses



Health and Equity Insights

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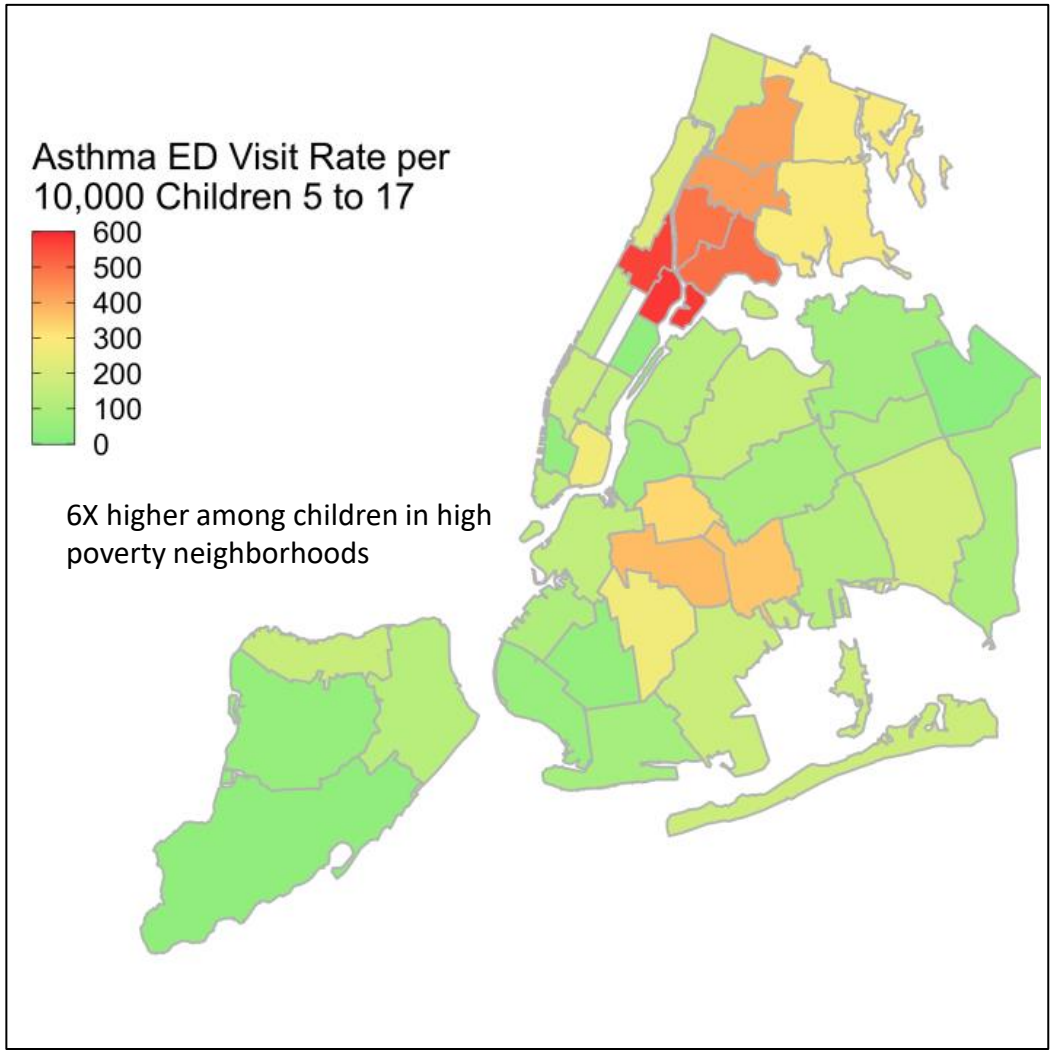
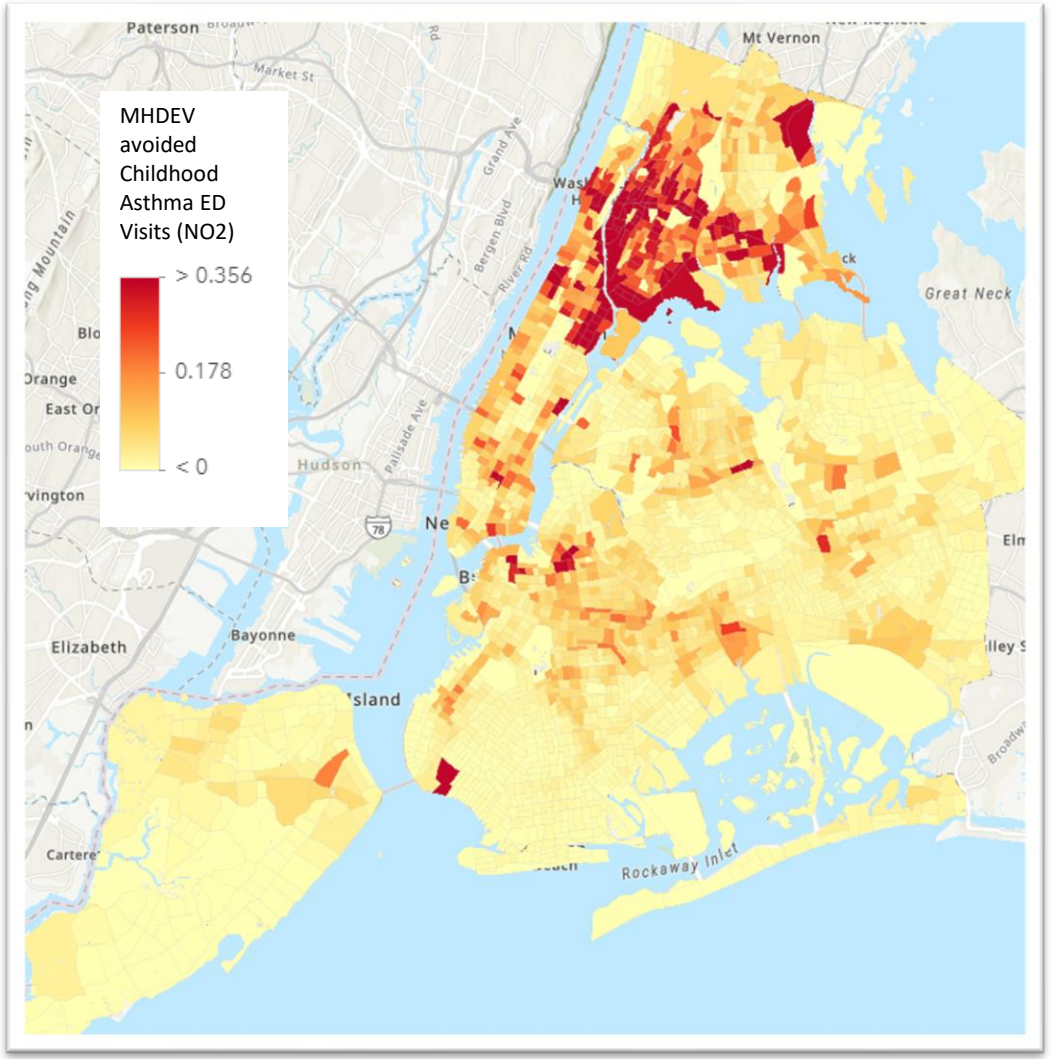
1. Achieve new policies
2. Influence implementation of recent policies
3. Build consensus around future policies

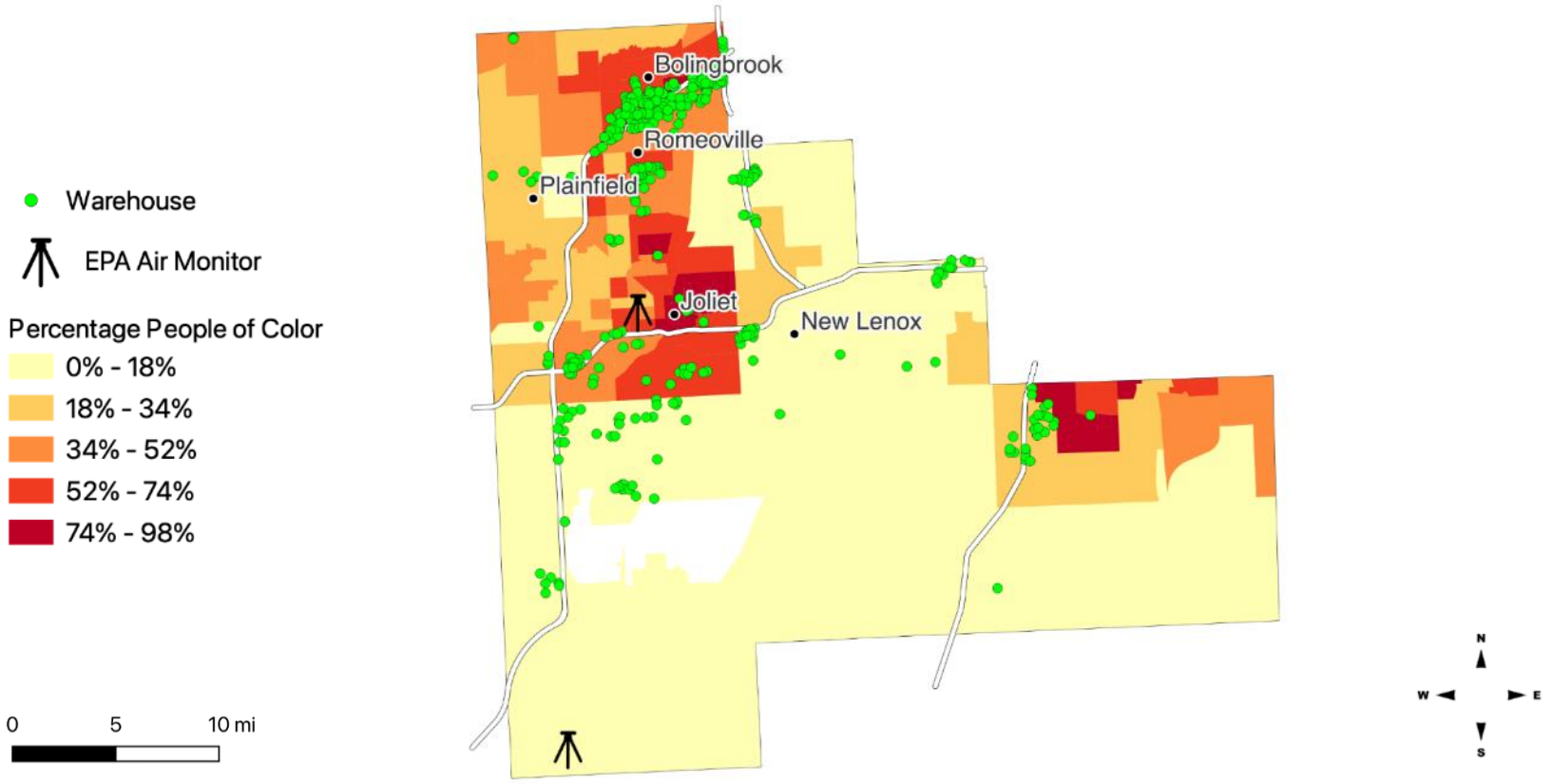
Fine scale health analysis shows disproportionate burden and location of federal policy benefits





Do not cite or distribute publicly Arunachalam, Buonocore et al. *In preparation.*

Potential state policies combine more monitoring with Indirect Source Reviews



Health and Equity insights can guide federal program spending

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