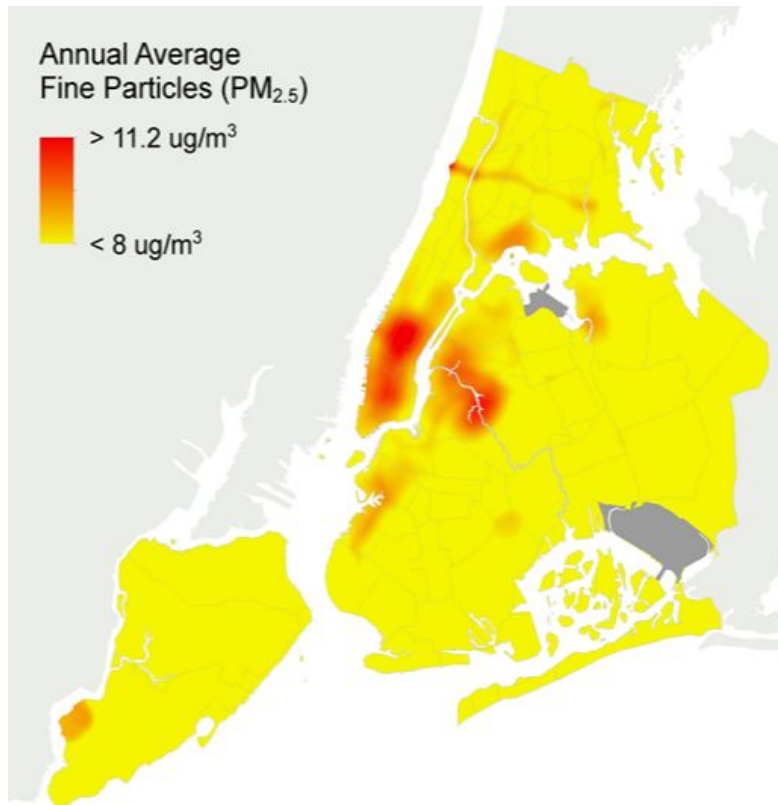


Neighborhood Air Quality and Health Impacts

Sarah Johnson

Executive Director, Air Quality Program

NYC Dept of Health and Mental Hygiene



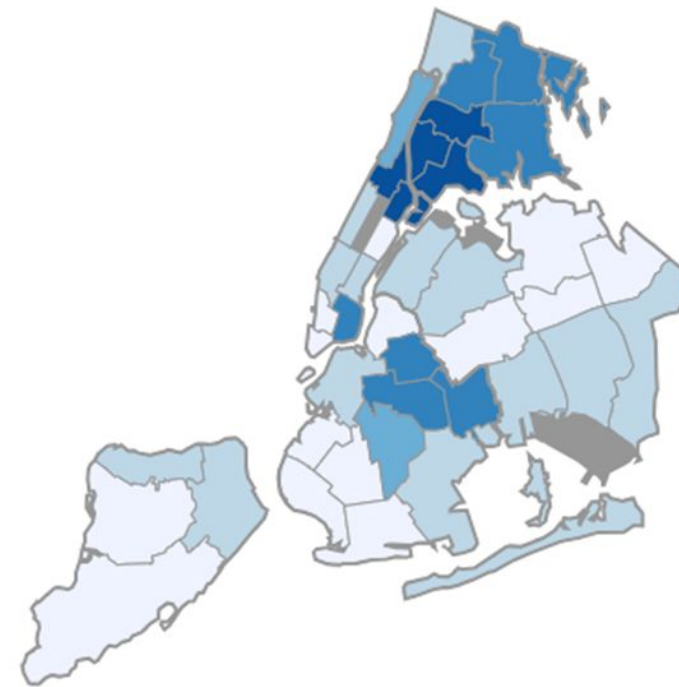
New York City Community Air Survey

PM2.5-Attributable Asthma Emergency Department Visits

PM2.5-attributable asthma ED visits represent part of the health burden imposed by fine particle air pollution.

Select another data display.

Summarize Show Disparities Chart Over Time **Map** Link Data Options Print Export Link



Estimated Annual Rate- Children 0 to 17 Yrs Old (per 100,000 children), 2015-2017



Areas with the most emissions sources are not the ones with the greatest air-pollution related health impacts

Truck traffic in NYC causes 63% of the PM2.5-related premature deaths from on-road vehicle emissions while only representing 6% of VMT within NYC

Asthma ED visits related to PM2.5 levels from truck traffic are 10 times higher in low income than high income neighborhoods

- Carbon reduction efforts can reduce air pollution but need to be focused on reducing combustion in specific neighborhoods to maximize health benefits

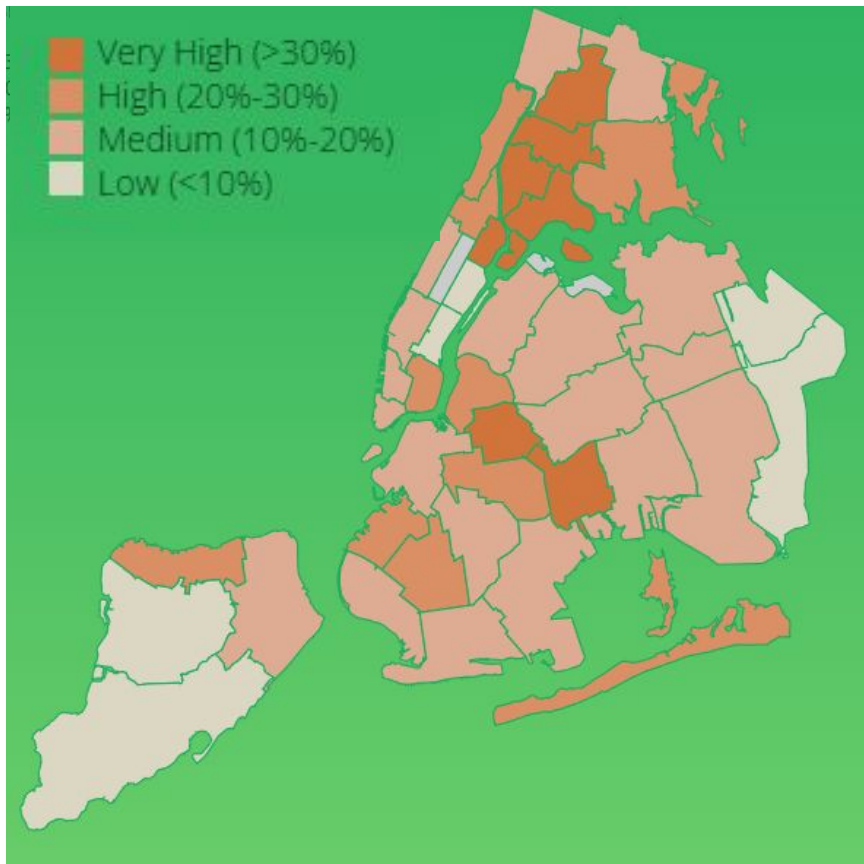
→ Electrification eliminates combustion

→ Electrification challenging in lower income and mixed-use communities

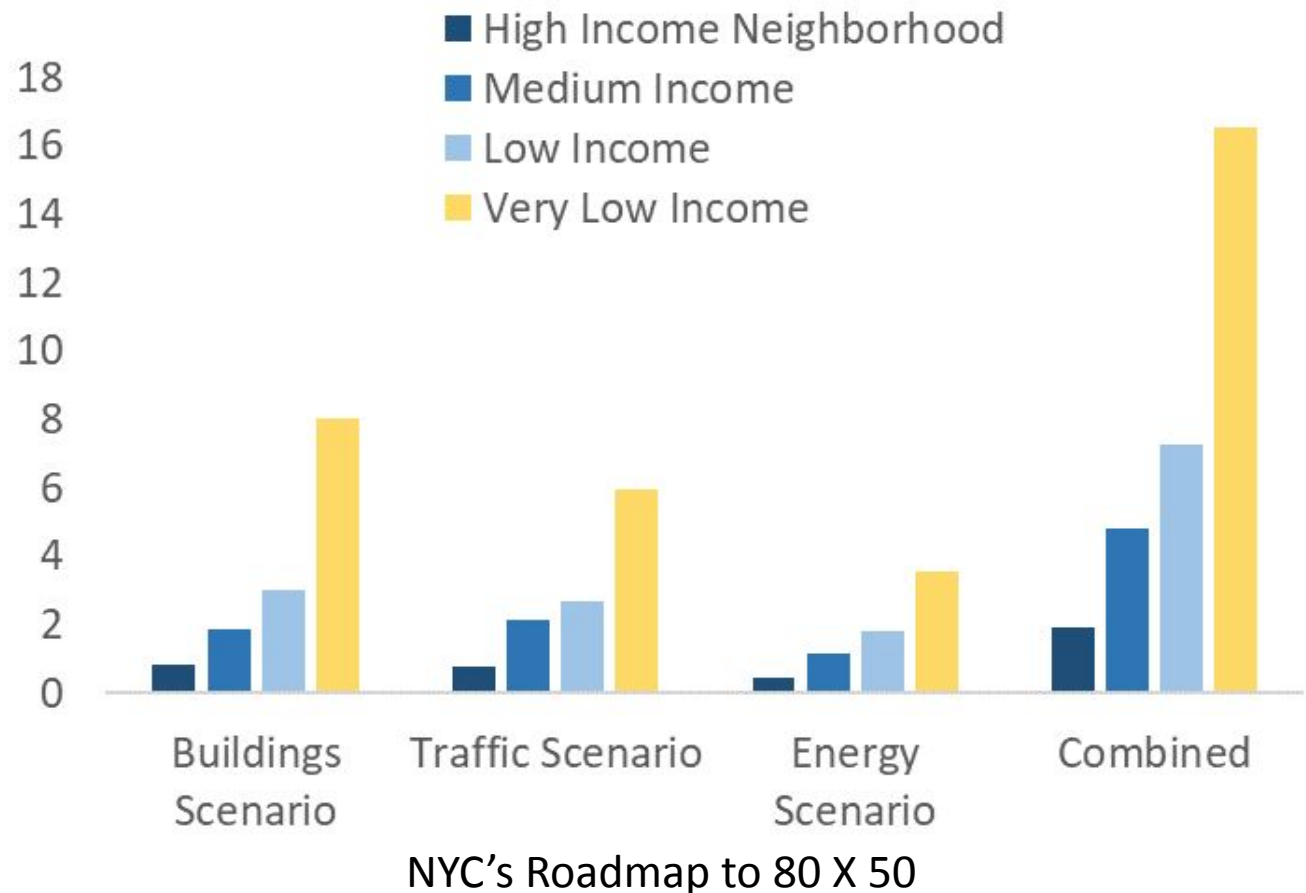
- Historical disinvestment in infrastructure
- Limited power to regulate truck fleets and traffic
- Cost to provide required power supply and ensure grid reliability
- Expansion of distribution centers: need to balance increased job opportunities with exposure to more truck traffic

We risk implementing sustainability programs that miss the opportunity to reduce hospitalizations and deaths

Percent of residents below Federal poverty level



Annual Avoided Asthma ED visits, ages 0-17, per 100,000



A critical action to collectively take in the 12 months is to focus:

political will, private industry, and resources on reducing combustion (buildings, diesel truck traffic, diesel non-road equipment) in the neighborhoods that have the highest health impacts:

South Bronx

Northern Manhattan