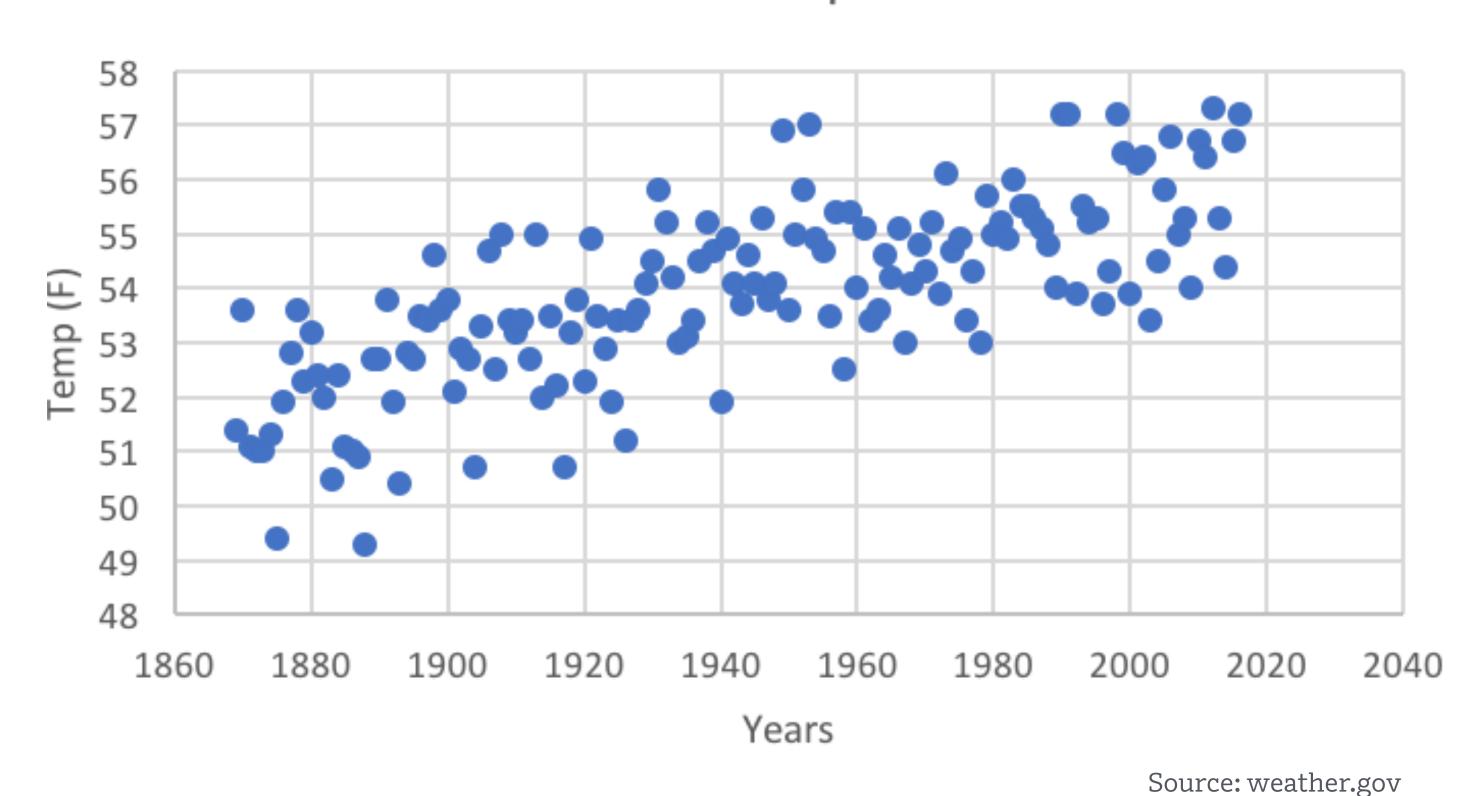
How does climate change affect low-income neighborhoods in NYC?

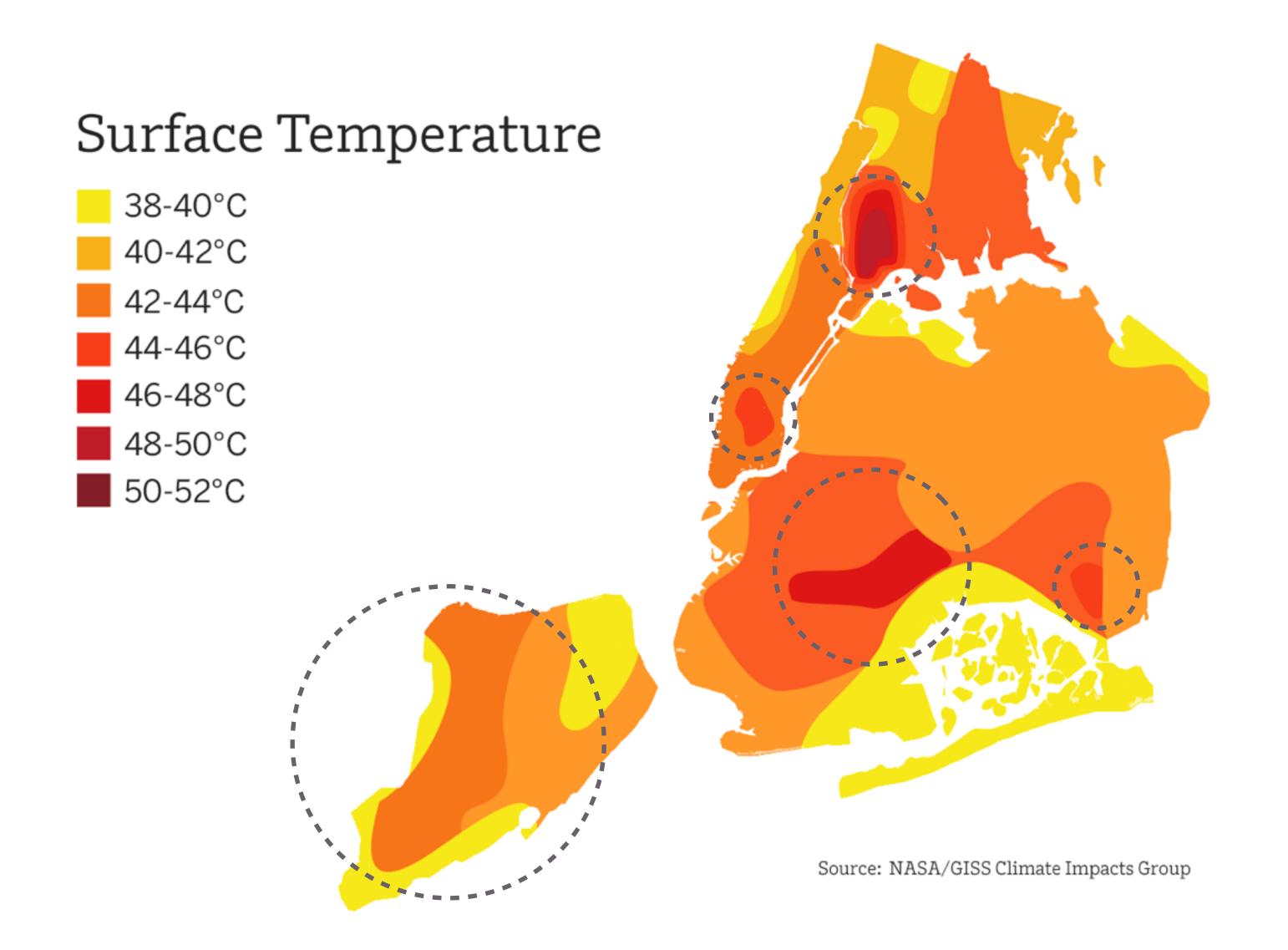
annual temperature in NYC is rising

NYC Annual Temperature



How are different neighborhoods in NYC affected by rising temperatures?

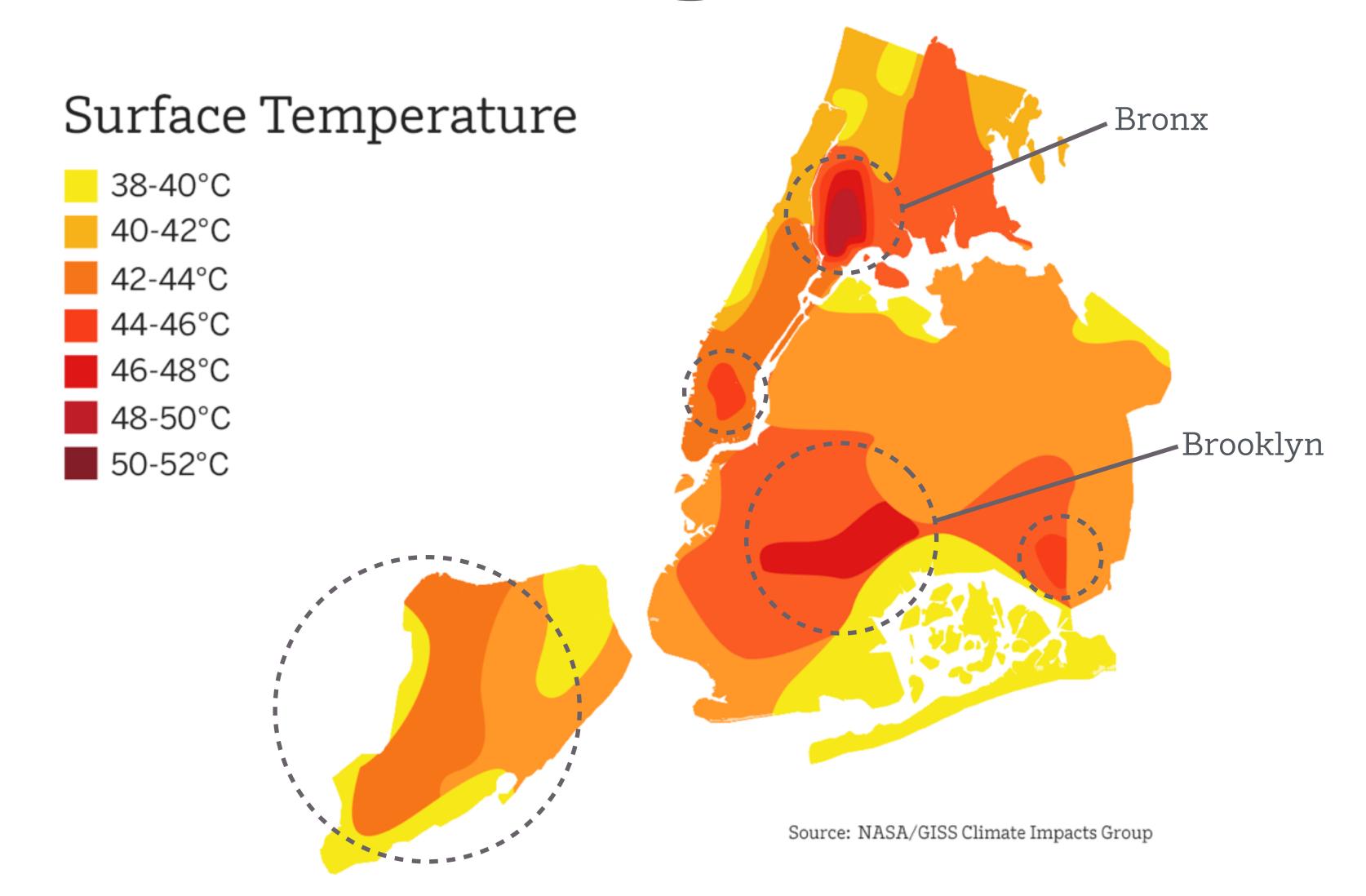
Urban Heat Island effect



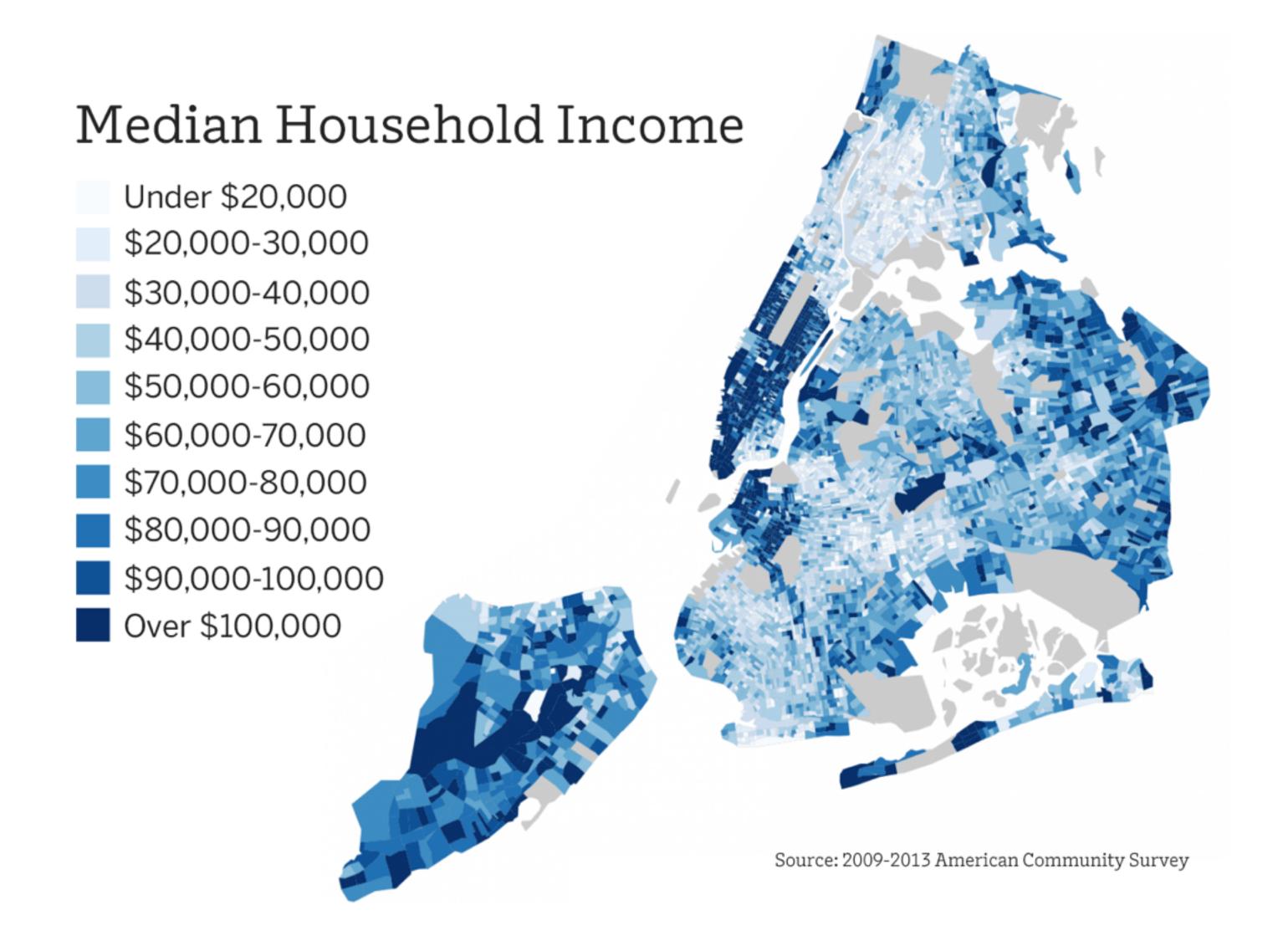
What is Urban Heat Island effect?

- Found in environments with concrete buildings, roads, pavements, & sidewalks
- Environment absorbs heat from the sun & re-emits that energy as heat
- Not enough vegetation/trees to alleviate heat
- Resulting in higher temperature averages, especially in summer months

the hottest neighborhoods?



how it correlates to income level?



How does Urban Heat Island effect impact low-income neighborhoods?

Excessive exposure to high heat can cause:

- increased rates of heat stress
- heat stroke
- heat-associated mortality (due to cardiovascular or respiratory causes during hot weather)

Low-income people are especially vulnerable because:

- Lack of public access to air conditioners
- More urban development
- Poor housing quality

What can we do?

Adding more green spaces to low-income neighborhoods

A study in Chicago shows:

- the city's trees filtered 234 tons of particulate pollution
- · cleansed the air of 98 tons of nitrogen dioxide
- · 93 tons of sulfur dioxide
- 17 tons of carbon monoxide
- Vegetated areas provide relief from the heat island effect caused by heat-trapping quality of asphalt, concrete, & building materials

Need for more data!

Not enough sufficient data to measure economic & ecological benefits green spaces specific to NYC

How would addressing the effects of Urban Heat Island effect improve the quality of life of low-income neighborhoods?

urban farming







a youth garden education program teaching school-aged kids the importance of nutrition, gardening, cooking, and healthy eating.





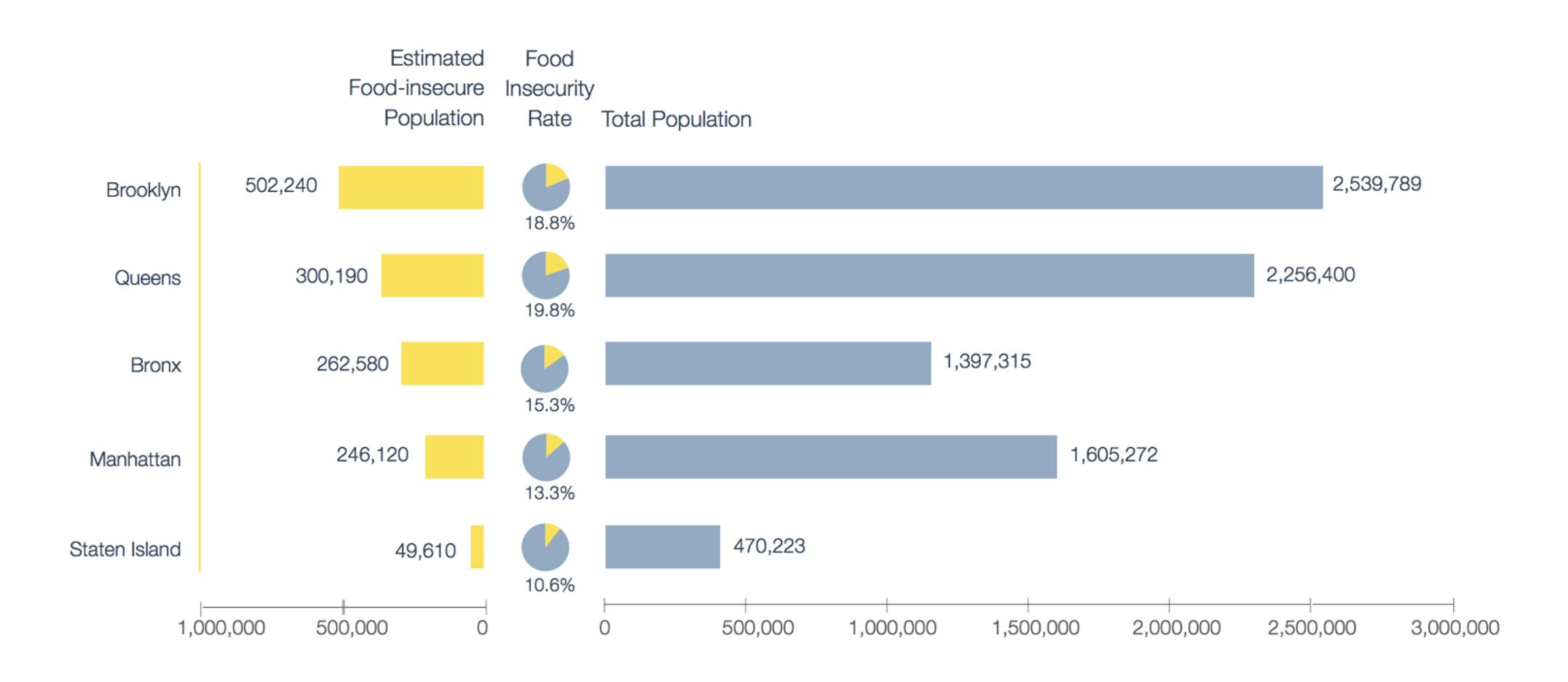
a comprehensive program that teaches people about urban farming, nutrition, and managing a farmers market

Why urban farming?

Food Insecurity

A lack of access to adequate nutritional foods for all members of a household. Families that fit in this category worry about food running out before buying more, eating less than what's recommended, and not being able to buy balanced meals

Food insecurity in NYC



Urban agriculture impacts:

- Increase food security
- Comprehensive nutritional education through farming
- Job creation and economic empowerment
- Decrease in health risks
- Minimizing need for transportation from other farms outside of the regions

What else can we do?

- Provide more data that shows the positive benefits for urban farming
- Work with established organizations, expanding their programs to other urbanized areas in NYC and beyond
- Create an online platform that helps connect these organizations. To share their proven methods of success & can encourage people to mobilize in their own communities