# NYC Environmental Justice Alliance Resiliency Briefing



April 2020



#### **NYC-EJA Members**





## NYC Climate Justice Agenda 2020

NYC CLIMATE JUSTICE AGENDA 2020

#### A CRITICAL DECADE FOR CLIMATE, EQUITY, & HEALTH



NEW YORK CITY ENVIRONMENTAL JUSTICE ALLIANCE APRIL 2020

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- Reduce Greenhouse Gases and Localized Emissions
- Advance a Just Transition Towards an Inclusive, Regenerative Economy
- Cultivate Healthy and Resilient Communities



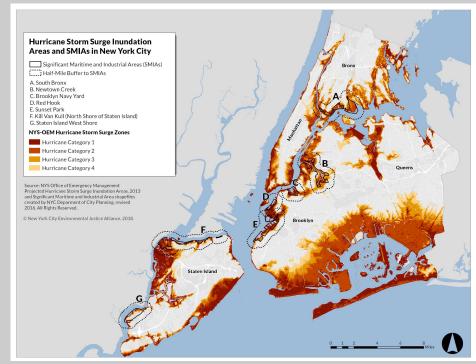
### Waterfront Justice

#### **Climate Risks**

• NPCC 2019 report's projections demonstrate that sea-level rise, tidal patterns, flooding, and storm surge will increasingly threaten NYC's coastlines.

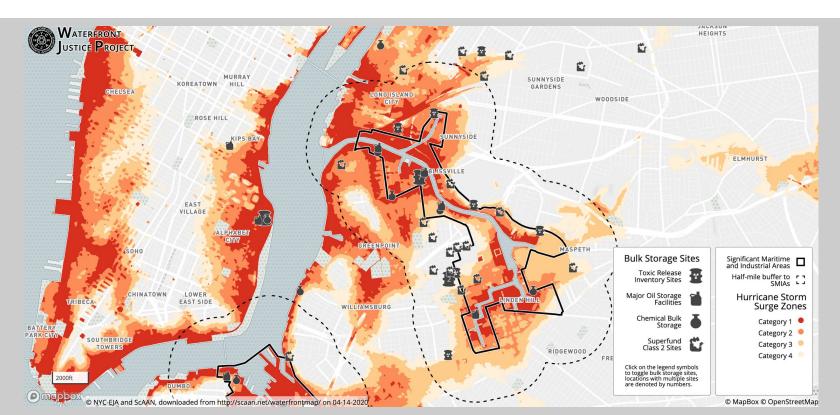
#### Waterfront Justice Project Goals

- Address climate change impacts in the industrial waterfront
- Support community-based research and actions that reduce environmental health risks in Sunset Park & South Bronx





### Waterfront Justice Project Interactive Map





## **Five Borough Resiliency**

#### **Coastal Protections Priorities**

- Prioritize flood-vulnerable communities across the city, including Hunts Point, East Harlem, North Brooklyn, and Sunset Park.
- NYC-EJA recommends incorporating nature-based infrastructure and shoreline interventions as an equitable solution for disproportionate climate vulnerabilities and negative public health outcomes.
- NYC-EJA opposed the \$119 billion sea wall proposal, one of the options put forth by USACE, but are troubled that the study did not receive continued federal funding.
- Coastal resiliency investments should benefit NYC's environmental justice communities every day of the year by maximizing the numerous co-benefits of green infrastructure.





### **Benefits of Green Infrastructure to Environmental Justice Communities**

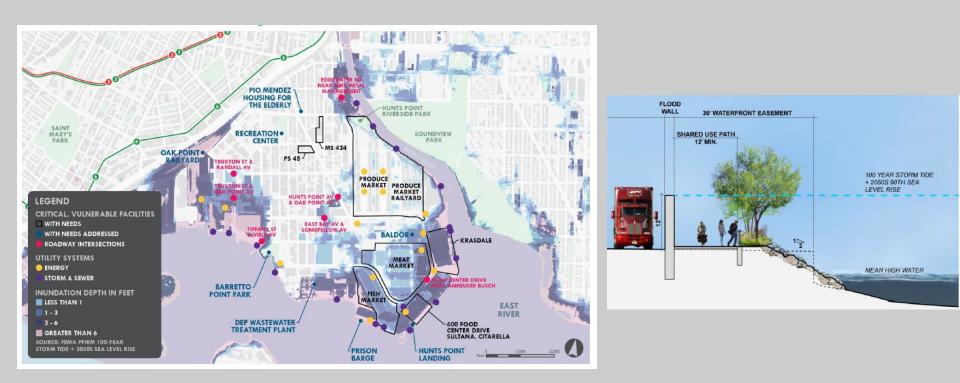
#### **Green Infrastructure Equity**

- Advocate for strong and timely ecologically-grounded coastal protections and resiliency investments
- Advance nature-based solutions in EJ communities, including: stormwater management, street trees, community gardens, bioswales, and open space.
- Improving the water quality of waterways
- Mitigating urban heat island effect
- Improving air quality
- Enhancing coastal resiliency
- Reducing energy demand
- Fostering community cohesion (recreational space/ education)
- Creating local workforce development opportunities

HUNTS POINT, NEW YORK			
The City of New York and the Hunts Point community have an important oppo while conserving precious tax dollars in the process. A long-standing focus or management, transportation, power, costail resiliency and other services of the rich welland, shoreline, and forest ecosystems that thrived here hist commerce hub for New York City, community members not only struggle v many related effect like persistent filoding, air pollution, and noise.	heavily engineered in has left Hunts Point w prically. Today, though	frastructur with only s Hunts Poi	e for wat cant trac nt is a vi
THE OPPORTUNITY The Note Fort community is practicity loaking to interdeduce nature based obtaines to help induce pressing environment if challenges. Its persistent floating, while also providing tread community benefits like access to parks and recreation, there are quality, and protection from enterme hand. Knature based solutions have proven to be cost-effective for many relatives challenges throughout the work protection. The other protection are concerning in history form - and in many communities around the country - has been participation. Natural infrastructures and the concerning of the country - has been participation. Natural infrastructures the country of the country - has been participation. Natural infrastructures the country of the country - has been participation. Natural infrastructures the country of the country - has been participation. Natural infrastructures the country of the country - has been participation. Natural infrastructures the country of the country - has been participation. Natural infrastructures the country of the country - has been participation. Natural infrastructures the country of the country - has been participation. Natural infrastructures the country of the country - has been participation. Naturation in the country - has been participation. The	A TREE IS NO Infrastructure that of challenges while built table highlights the val based on information Street Tree Map.	f many typ can address ding quality lue of trees i	es of nat s commu r of life. 1 n Hunts Po
than an afterthought. Reintroduction of nature requires collaboration, creativity, and a new way of thinking about our communities and about nature's role in our future.	Street Tree Map. The Annual Value of T	rees in Hun	ts Point
A PROMISING START, BUT ONLY A START	BENEFIT P		VALUE IN IUNTS POIP
Following the devastation of Hurricane Sandy, the Rebuild-by-Design competition was launched to award federal funding for resilience-building projects. The Hunts Point	INTERCEPTION BEDUCED BUILDING	\$9	\$29,6
residents eagerly engaged and produced the Hunts Point Lifelines proposal, which ultimately received a total of \$45M in combined federal and local matching funds.	COOLING COSTS	\$84	\$286,0
These dollars have been invested in an energy pilot project that will increase the resiliency of critical facilities through a local tri-generation microgrid for the Hunts	AIR POLLUTION	\$6	\$21,8
Point Food Distribution Center, and rooftop solar and energy storage for two public schools. While this project will benefit the commercial hub and community at large,	CARBON SEQUESTRATION	\$2	\$6,7
the severe flood risk remains, as do many other challenges within the community.	TOTAL		

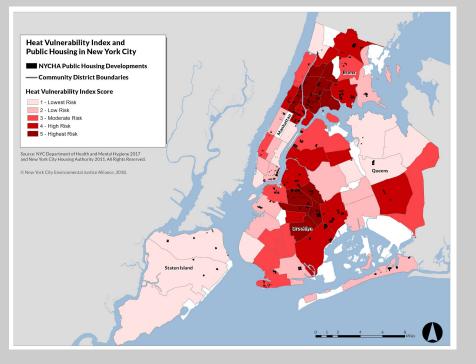


### **Hunts Point Resiliency**





### **Extreme Heat & Community Preparedness**



- Over half of NYCHA residents live in the city's most heat vulnerable neighborhoods
- Advocate for heat mitigation and community preparedness investments in heat-vulnerable communities
- Support the development of neighborhood level community preparedness plans
- Ensure that NYC is prepared for extreme heat by ensuring accurate heat mortality data, making cooling center locations available prior to events, and create a dedicated funding stream for extreme heat community preparedness.



### **Street Trees and Extreme Heat Mitigation**

- Trees have the ability to store and absorb carbon emissions that are driving the climate crisis, and absorb harmful co-pollutants like particulate matter that affect respiratory health.
- Trees provide cooling by mitigating the urban heat island effect through evapotranspiration and shading.
- We continue to urge that the City expand the Cool Neighborhoods NYC street tree commitment, and renew the successful MillionTreesNYC program to increase urban canopy coverage and ensure the long-term maintenance and health of the city's urban forests.



#### HOW A HEALTHY AND EQUITABLE URBAN FOREST CAN HELP COMMUNITIES THRIVE

#### New York City's Urban Forest and Why It Matters

In a city filled with concrete and pollution from auto (or vehicle) exhaust, heatwaves and other environmental risks, our trees play an essential role in New York City, New York City's urban forest encompasses every tree in the city, including those along streets and greenways, in public parks, community gardens, cemeteries, yards, and other spaces, both publicly and privately owned.

According to the U.S. Forest Service, there are nearly seven million trees across the five boroughs,<sup>1</sup> but we

anticipate there is space to systemic inequalities and improve the quality of life for New York plant and maintain more, and an opportunity to improve City's most vulnerable residents, care of this valuable resource often part of environmental which can directly benefit the justice communities. As we face health and wellbeing of all New the increasingly challenging and dangerous reality of climate Yorkers. change locally, New York The urban forest provides

The urban forest provides multiple benefits that include improving human health, environment, mitigating climate change impacts, and increasing community resilience, particularly in communities that generally lack green and open space. When trees are planted



and maintained equitably, the

urban forest can help address



#### **Just Nature NYC**

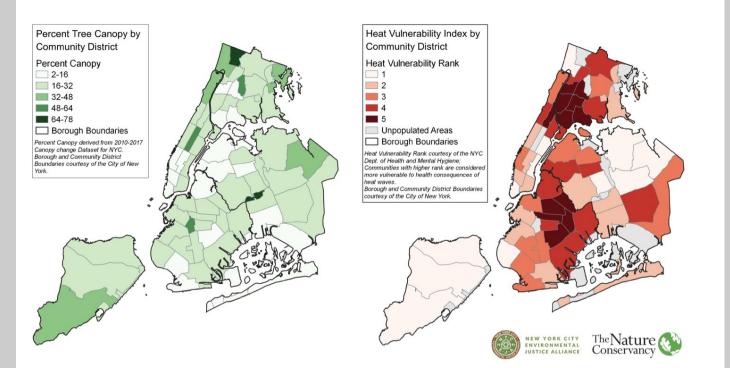


Figure 1. Maps of Tree Canopy Coverage (left) and Heat Vulnerability (right) by NYC Community District.



#### **Integrated Climate Resiliency**



# **Thank You!**

