Mapping for Participatory Preservation:

Analyzing Historic Façade Fabric and Collaborative Preservation Opportunities in Red Hook



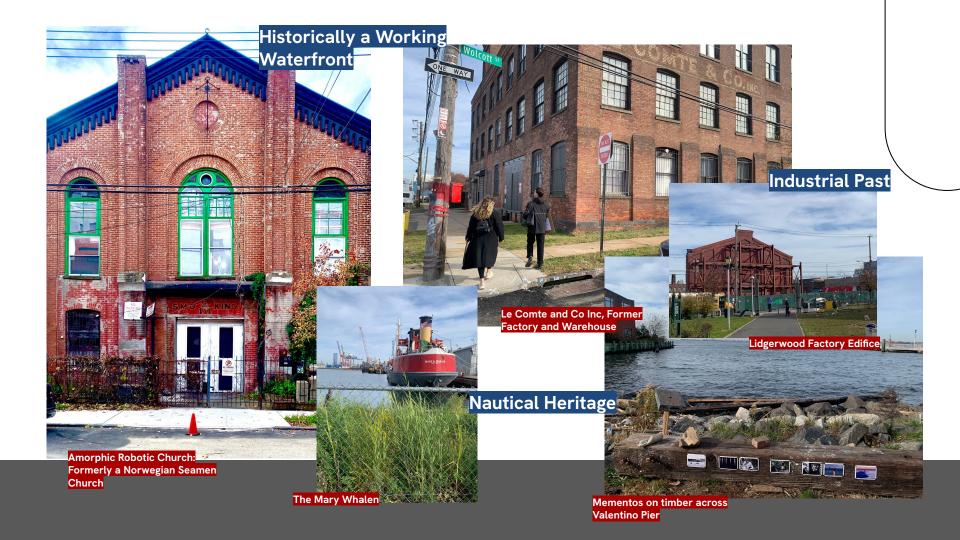
Methodology

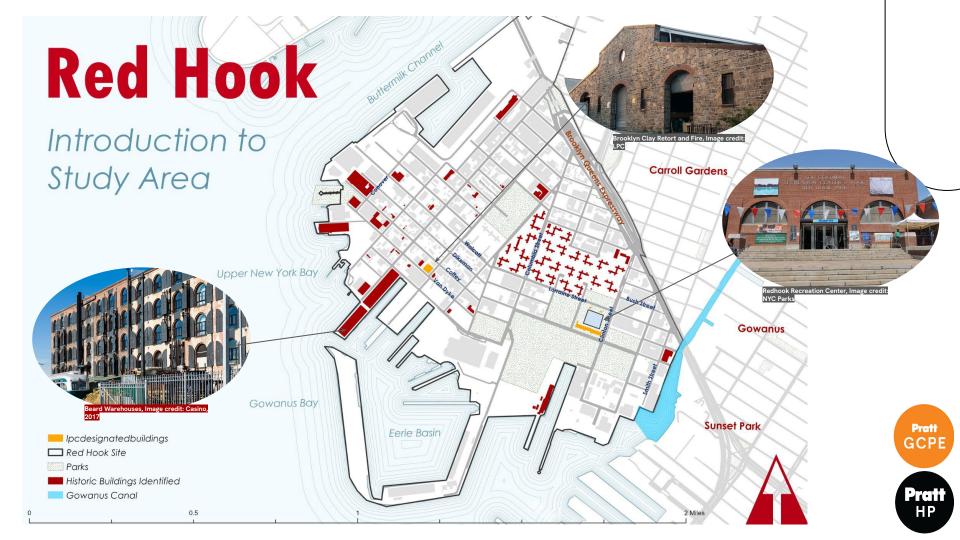
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DATA COLLECTION AND PREPROCESSING

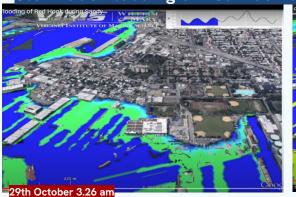
***	Rising Water + Environmental Threats	Rising Water, Heat-intense areas, Permeability, Trees Canopy Coverage, Basement Flooding: How will these factors affect Preservation+Adaptive Re-use Opportunities
~~~	Transportation and Walkability	Proximity to possible historic zones: Transportation buffer-zones
	Participatory Preservation Opportunities	People as infrastructure

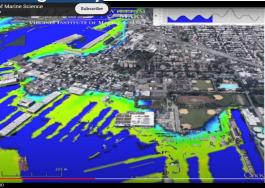


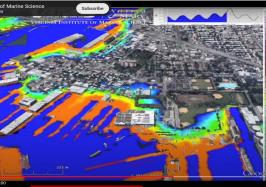




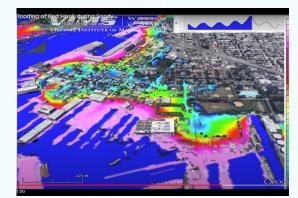
Stormtide Flooding of Red Hook during Sandy

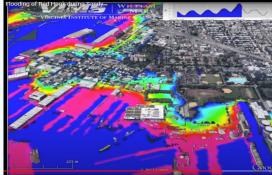


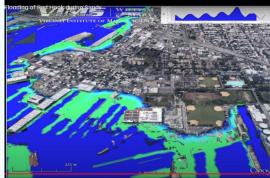




29th October 10:16 pm



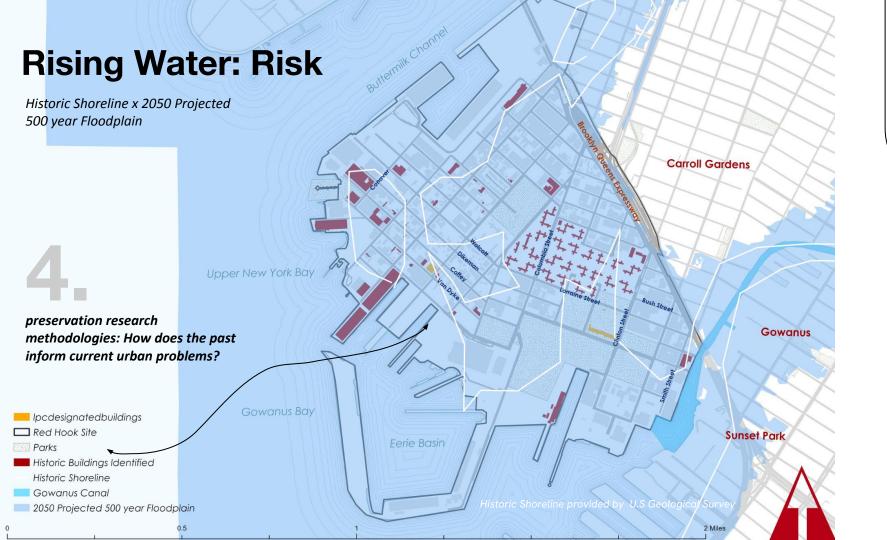




30th October 3.14 am

- 1.5









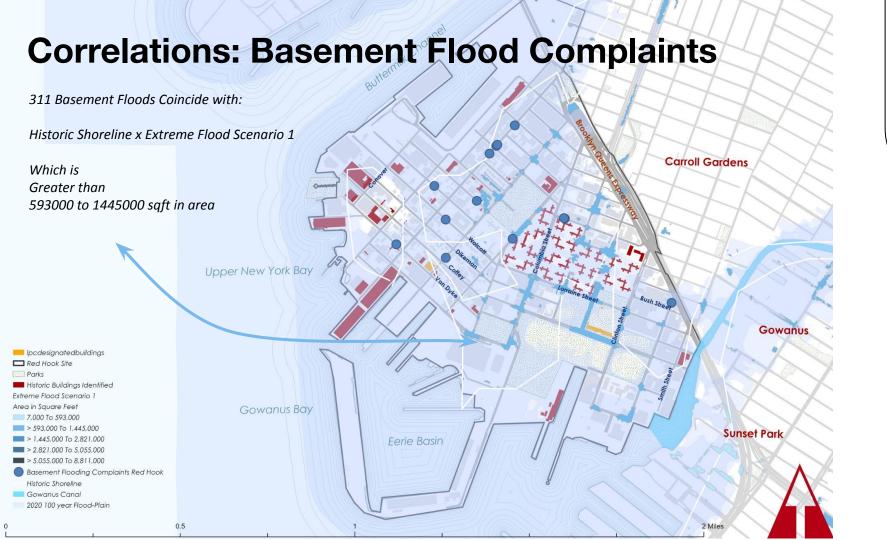






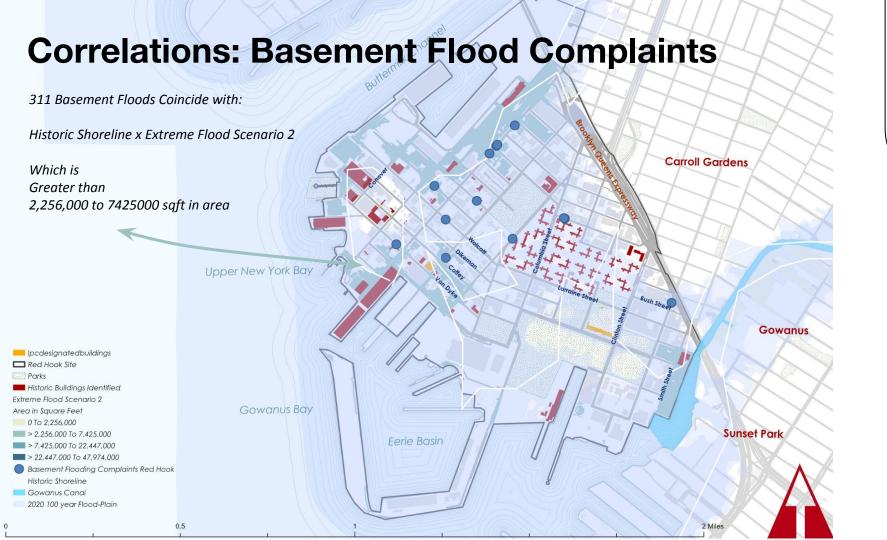






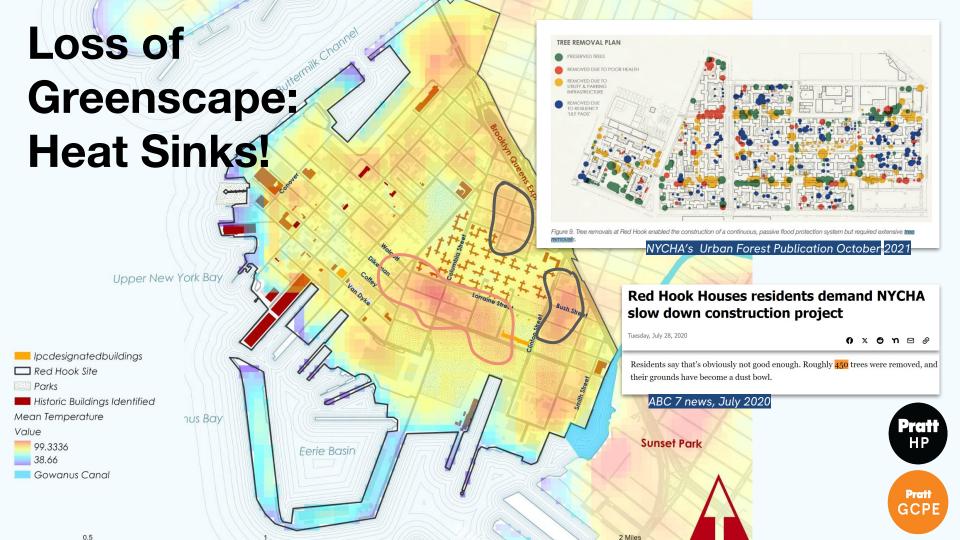




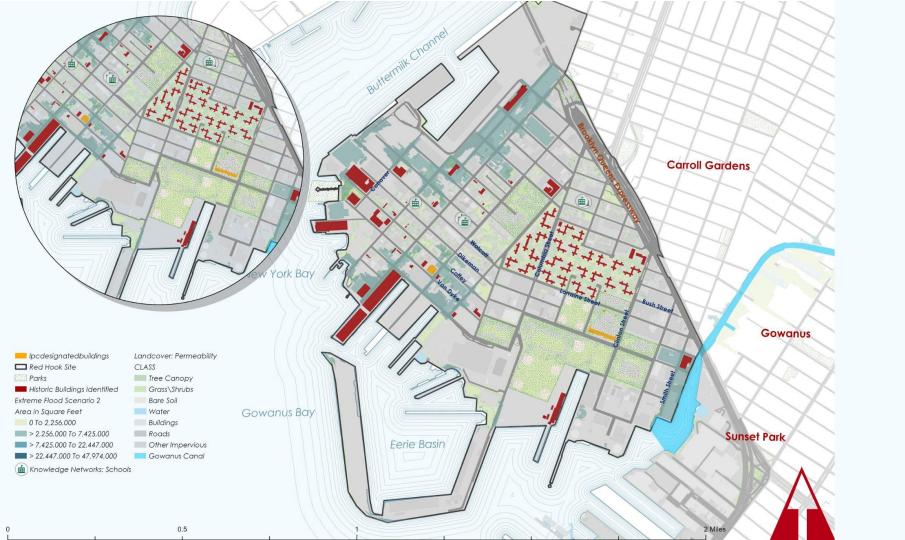












### 5 Years After Sandy: Vulnerable Red Hook Is Booming, Right at the Water's Edge

This growing Brooklyn neighborhood, flooded during Superstorm Sandy, is now confronting the threat of future storms and sea level rise.

By Bryan Walsh for The Bridge October 26, 2017

### A Commitment to the Waterfront

In the aftermath of Sandy, Mayor Bloomberg made it clear that, whatever the city would do to strengthen its defense, it would not pull back from the water.

"We cannot and will not abandon our waterfront," he said. "It's one of our greatest assets. We must protect it, not retreat from it." And that, ultimately, is what the city has tried to do, in fits and starts, in the five years since Sandy. So has the construction sector—many of the new condos and other developments being built along New York's waterfront, including in Red Hook, will have their own protections against rising seas and floods.

"We're living in a world in which technology has changed how construction can happen," says Carlo Scissura, the president of the New York Building

But as the years have passed, some of the momentum around the most ambitious efforts has been lost. Take the biggest project to come out of Sandy: the Big U.

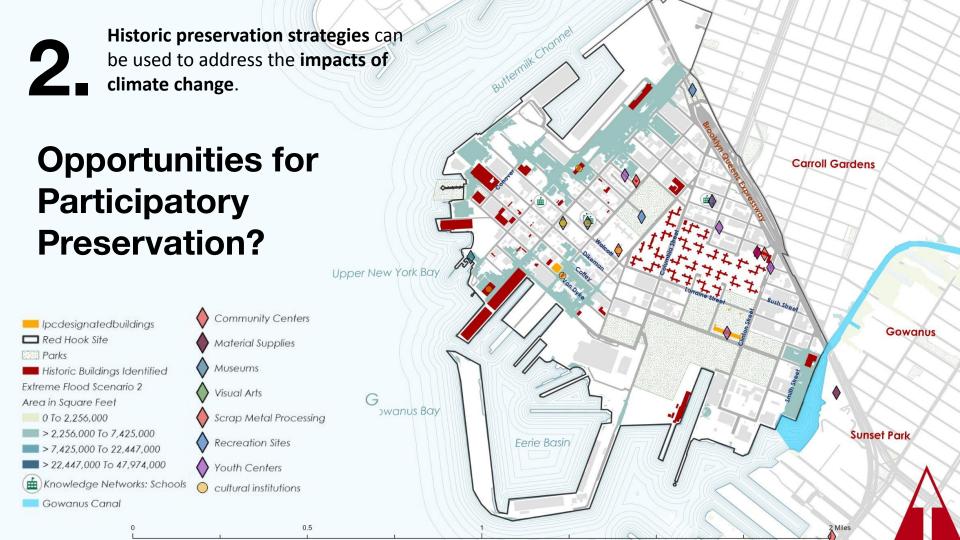


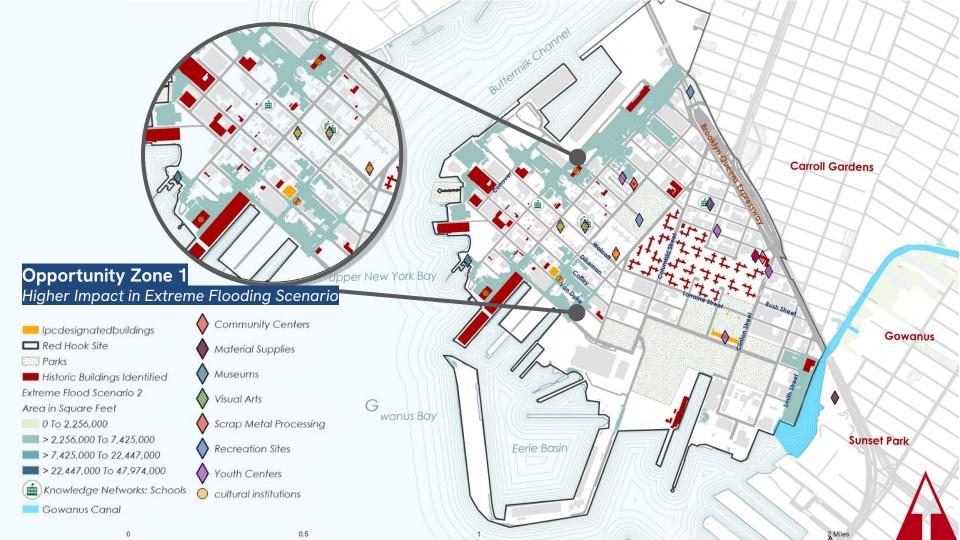
The Big U project is being designed to expand parks along the waterfront to help buffer low-lying areas of Manhattan from storm surges. Credit: Rebuild by Design

Commitment to the Waterfront?

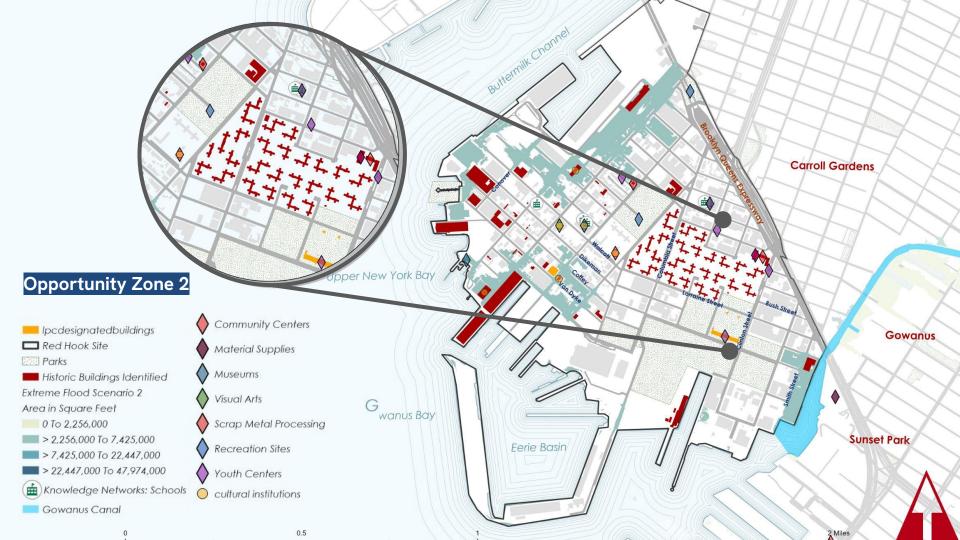
A drone's-eye view of the Red Hook area of Brooklyn. Credit: Lucas McGowen via The Bridge

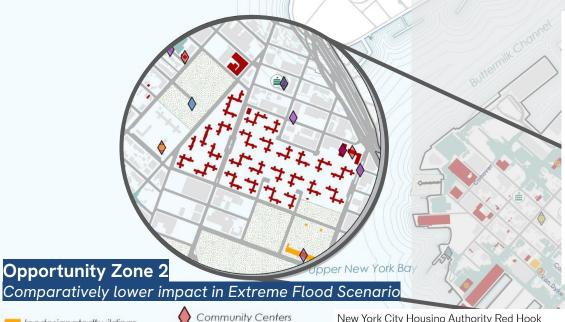
Existing buildings, even decades-old brownstones, can be renovated in ways that make them less vulnerable to frequent floods, by moving boilers and electrical equipment above flood levels. (New or "substantially











New York City Housing Authority Red Hook Houses - Sandy Resiliency & Renewal Program

The Red Hook Houses: Housing Brooklynites **During the Great Depression** 

When NYCHA was founded in 1934, one of their first proposals for Brooklyn was a housing project in Red Hook.



Red Hook Houses, Brownstoner article, Suzanne Spellen

Gowanus

### Hurricane Recovery Fails the Financially Vulnerable

Based on a decade of data from Hurricane Sandy, two New York City planners explore the inequities of disaster mitigation and recovery — and what needs to change to prevent climate gentrification.

**APA,** 2022 Article

KPF Architects, visualisation 2016, not implemented

Ipcdesignatedbuildings

Red Hook Site

Parks

Historic Buildings Identified

Extreme Flood Scenario 2

Area in Square Feet

0 To 2,256,000

> 2.256,000 To 7,425,000

> 7,425,000 To 22,447,000

> 22,447,000 To 47,974,000

(math) Knowledge Networks: Schools

Gowanus Canal

0.5

Material Supplies

Recreation Sites

Youth Centers

cultural institutions

Scrap Metal Processing

Museums

Visual Arts

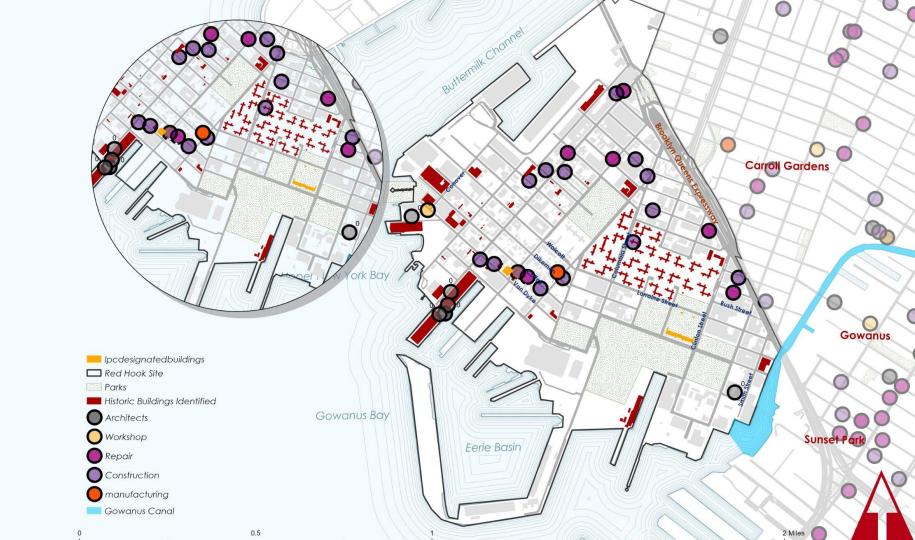
Here's a hard truth: no one really knows how to adapt to the coming climate-related floods.

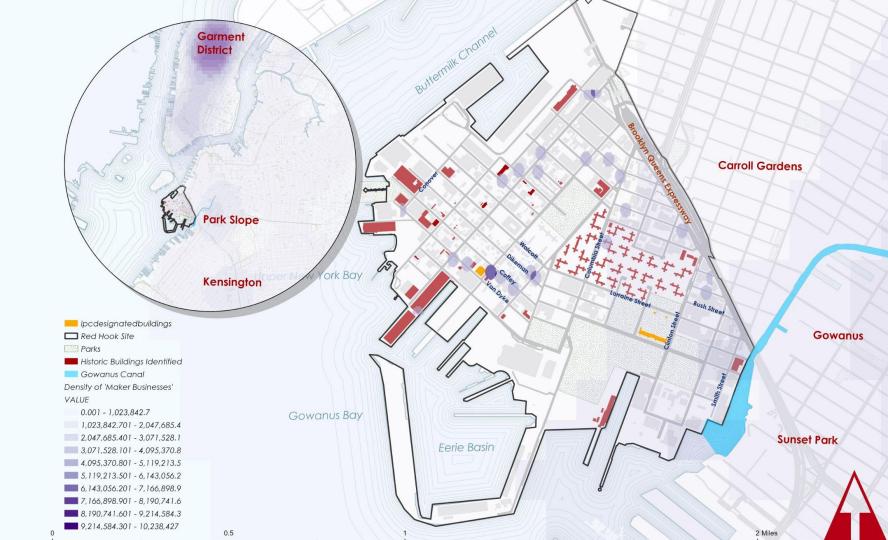
So much of urban planning, or any kind of planning, is built on the past. But as climate change accelerates, the past no longer provides an accurate map to the future—even a past event as recent as Sandy.

"The solutions of the past won't protect us from the future," Ovink warns. To survive a wetter and warmer tomorrow, neighborhoods like Red Hook will need to be creative and flexible, and they'll need help from the city and the federal government. But most of all, they'll need to depend on themselves.

3.

Identify points of convergence between historic preservation, cultural landscape conservation and natural environment conservation.





# **Red Hook**

Assessing
Participatory
Preservation:
Opportunities

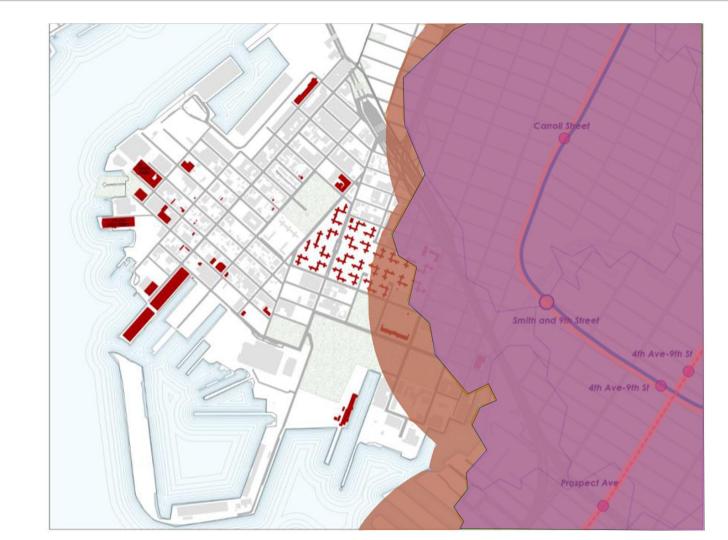
### Walkability/ Subways

- □ Red Hook Site
- Parks
- Red Hook Buildings
- Historic Buildings Identified
- Subway Stations
- Smith and 9th Street Station
- -SubwayRoutes2017
- F Line
- -G Line
- D Line
- -N Line

Walksheds

Cutoff

- 0.5 Cutoff Range: 0 0.5
- SubwayStations_Half a Mile Buffer

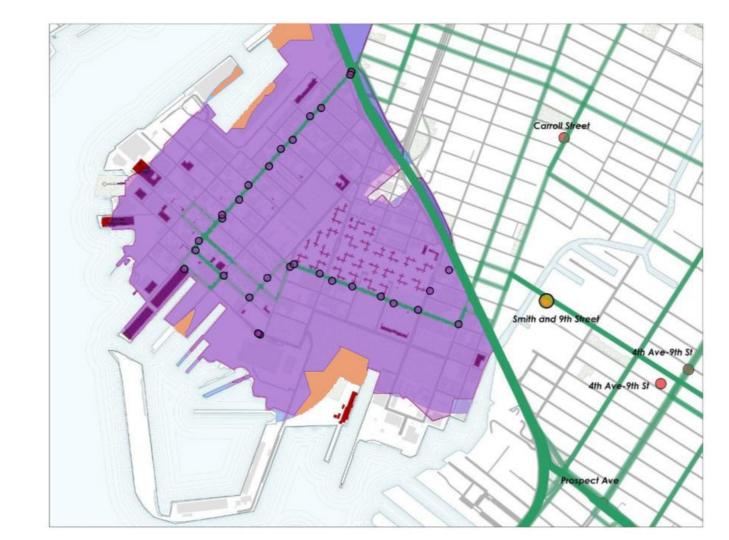


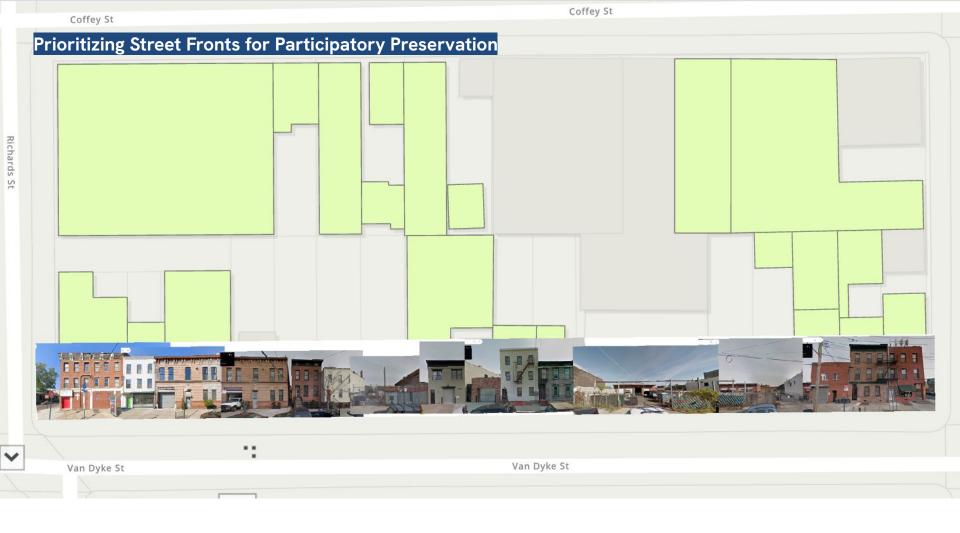
# **Red Hook**

Assessing
Participatory
Preservation:
Opportunities

### Walkability/ Bus

- Red Hook Site
- Parks
- Red Hook Buildings
- Historic Buildings Identified
- Subway Stations
- Bus Routes
- Smith and 9th Street Station
- Bus Stops
- Walkability Difference Bus





methodology to assess **possibilities** of unconventional adaptive re-use

learning from the past



'greenwall' well before the new-fangled notions of 'green infrastructure' existed. Facades/ Roofs as green

sponges?

A shack near Columbia Street in 1933. Photo by P.L. Sperr via New York Public Library: One wonders at the potential of looking at these vernacular self-built structure and the use of a