RECOVERY TO RESILIENCY

NYCHA'S HURRICANE SANDY RECOVERY PROGRAM
ABOUT NYCHA

PROTECTING PEOPLE & PROPERTY

CASE STUDY: RED HOOK
NYCHA SERVES 1 IN EVERY 14 NEW YORKERS

WITH MORE THAN 607,000* PEOPLE, NYCHA'S POPULATION IS LARGER THAN LAS VEGAS, ATLANTA, OR MIAMI

*NUMBER SERVED BY NYCHA'S PUBLIC HOUSING AND SECTION 8 PROGRAMS
INTRODUCTION

NYCHA RESIDENTS BY THE NUMBERS

- **77,000** seniors
  - 62 years old or older
- **110,000** children
  - Under 18 years old
- **$23,000**
  - Average household income
- **61%**
  - Are employed
  - (of non-disabled, working age adults)
- **41%**
  - On fixed income
  - (Social Security, SSI, Pension, Other)
- **12%**
  - Receive public assistance
- **40%**
  - Of heads of households are 62 years old or older
- **25%**
  - Of NYCHA employees are residents of public housing
INTRODUCTION

FUND GOAL: CHANGE THE WAY NYCHA IS FUNDED

PAY LESS TO NYC

DO A BETTER JOB COLLECTING RENT AND FEES

MAKE MORE USE OF GROUND FLOOR SPACE

REDUCE CENTRAL OFFICE COSTS

OPERATE GOAL: CHANGE THE WAY NYCHA OPERATES

GO DIGITAL AND USE TECH TO UPGRADE SERVICE

LOCALIZE DECISION-MAKING TO ENHANCE CUSTOMERS' SATISFACTION

PURSUE SUSTAINABILITY FOR A CLEANER AND GREENER NYCHA

IMPROVE SAFETY AND SECURITY

OUR VISION FOR NEXTGENERATION NYCHA

SAFE, CLEAN, AND CONNECTED COMMUNITIES

(RE)BUILD GOAL: CHANGE HOW NYCHA LOOKS

USE DATA TO DRIVE CAPITAL DECISIONS

PROVIDE LAND FOR NYC'S AFFORDABLE HOUSING GOALS

MAXIMIZE FEDERAL PROGRAMS TO RENOVATE AND PRESERVE BUILDINGS

CHOOSE AND USE GOOD DESIGN

ENGAGE GOAL: CHANGE HOW NYCHA ENGAGES WITH RESIDENTS

IMPROVE RESIDENT AND COMMUNITY SERVICES WITH A NEW TYPE OF ENGAGEMENT

CREATE A NONPROFIT ORGANIZATION TO FUND SOCIAL SERVICES

CONNECT RESIDENTS TO QUALITY JOB OPPORTUNITIES
ABOUT NYCHA

PROTECTING PEOPLE & PROPERTY

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INTRODUCTION

DEVELOPMENTS DAMAGED BY HURRICANE SANDY

NORTHERN MANHATTAN
East River
Issacs
Metro North Plaza
Ramspeck

DOWNTOWN MANHATTAN
Baruch
Campus Plaza II
Le-Guardia
Liberty
Les Halles V
Biltmore
SoHo
Two Bridges LEIA
Wald

RED HOOK
Gowanus
Red Hook East
Red Hook West

QUEENS
Aqueduct

ROCKAWAYS
Beaches 31st Street
Carleton Manor
Hammond
Oceano Bay (Bayview)
Ocean Bay (Oceanside)
Redfern

CONEY ISLAND
Coney Gardens
Coney Island
Coney Island Site 1B
Coney Island Sites 4 and 5
Coney Island site 8
Coney Island
Fishers
O’Dwyer Gardens
Surfside Gardens
NYCHA'S RECOVERY COSTS AND RESILIENCE INVESTMENTS ARE ESTIMATED TO BE OVER $3 BILLION.
A World of Solutions

CURRENT STATUS - PROCUREMENT

Interactive Sandy Transparency Map

NYCHA Sandy Recovery Website

City of New York, Esri, HERE, DeLorme, NGA, USGS, NPS | Esri, HERE
PROTECTING PEOPLE AND PROPERTY

THE DAMAGE HURRICANE SANDY INFlicted HAS A SILVER LINING: IT PROVIDES NYCHA WITH THE OPPORTUNITY TO REBUILD BETTER AND SMARTER, IMPROVING STRUCTURAL RESILIENCY TO PROTECT RESIDENTS FROM FUTURE DISASTERS AND CLIMATE CHANGE.

1. BUILDING REINFORCEMENT
2. SURGE PROTECTION
3. INFRASTRUCTURE UPGRADES
PROTECTING PEOPLE & PROPERTY
BUILDING REINFORCEMENT

WHAT IS IT?
In building reinforcement, existing structures are retrofitted so they are less susceptible to extreme hot and cold temperatures, high winds and flooding.

WHY IS IT IMPORTANT?
Imperative that NYCHA build back in a way so that its structures can better withstand future storm events.

HOW IS IT ACHIEVED?
Using a variety of strategies to make its buildings more resistant to storm-related damage.
WHAT IS IT? Storm surge is the abnormal rise in coastal water level above the regular tide caused by a severe storm such as a hurricane or nor’easter.

WHY IS IT IMPORTANT? Surge poses a threat to everything in its path: trees, vehicles, equipment, playgrounds, site lighting, buildings and lives.

HOW IS IT ACHIEVED? Site-wide surge protection can only be accomplished through the use of defensive perimeter barriers.
PROTECTING PEOPLE & PROPERTY
INFRASTRUCTURE UPGRADES

WHAT IS IT? Infrastructure upgrades improve the physical components of systems providing essential services to buildings and residents.

WHY IS IT IMPORTANT? Infrastructure upgrades will allow NYCHA buildings and sites to function better for residents.

HOW IS IT ACHIEVED? NYCHA is repairing or replacing vital infrastructure elements at each site.
PROTECTING PEOPLE & PROPERTY
INNOVATIVE DESIGN
ABOUT NYCHA

PROTECTING PEOPLE & PROPERTY

CASE STUDY: RED HOOK
CASE STUDY: RED HOOK

DEVELOPMENTS DAMAGED BY HURRICANE SANDY

NORTHERN MANHATTAN

QUEENS

ROCKAWAYS

DOWNTOWN MANHATTAN

RED HOOK

Red Hook East

Red Hook West

CONEY ISLAND
CASE STUDY: RED HOOK
CASE STUDY: RED HOOK

1 - Earth is lifted to median FFE height

2 - 5% slopes provide barrier free access

3 – Surface programmed for residents

4 – Passive barriers deployed in floods
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CENTER MALL (CONCEPTUAL)
RECOVERY TO RESILIENCY

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