

FINANCIAL DISTRICT AND BATTERY PARK CITY WORKSHOP NO. 1: RE ENGAGEMENT JULY 28, 2016, SOUTHBRIDGE TOWERS









6:30 – 6:40pm	Welcome + Opening Remarks (10 mins)			
6:40 – 6:50pm	OneNYC: Our Resilient City (10 mins)			
6:50 – 7:00pm	Project Overview (10 mins)			
7:00 – 7:15pm	Question and Answer (15 mins)			
7:15 – 8:05pm	Key Considerations + Small Group Discussions (50 mins)			
	Work Session 1: Coastal Resiliency Infrastructure Types (30 mins)			
	Work Session 2: Community Priorities (20 mins)			
8: 05 – 8:25pm	Report Back + Questions (20 mins)			
8:25 – 8:30pm	Next Steps + How to Stay Involved (5 mins)			

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VISION

The Lower Manhattan Coastal Resiliency (LMCR) Project aims to reduce flood risk due to coastal storms and sea level rise from Manhattan's Two Bridges neighborhood through Battery Park City. It intends to build the physical, social, and economic resiliency of the area by integrating flood protection into the community fabric through strengthening the City's coastline while improving access to the waterfront and enhancing public spaces.

OneNYC: RESILIENCY

Following Hurricane Sandy, a global conversation on resiliency emerged. Here's what it means to us in New York City.

Our Resilient City

Our neighborhoods, economy, and public services will be ready to withstand and emerge stronger from the impacts of climate change and other 21st century threats

HURRICANE SANDY FINANCIAL DISTRICT



HURRICANE SANDY FINANCIAL DISTRICT



~5' Flood (Sandy)

lower manhattan **COASTAL RESILIENCY**

HURRICANE SANDY THE BATTERY



HURRICANE SANDY THE BATTERY



3'-6' Flood (Sandy)

HURRICANE SANDY BATTERY PARK CITY



HURRICANE SANDY BATTERY PARK CITY

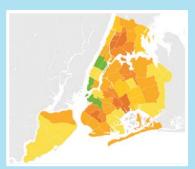


0'-3' Flood (Sandy)

CLIMATE CHANGE / 21ST CENTURY THREATS

...But we know that Sandy is not the only risk we face. As we look towards the future, we must take stock of our current challenges...







Hurricane Sandy

Increasing Inequality

A Growing Population

Aging Infrastructure

CLIMATE CHANGE / 21ST CENTURY THREATS

...And grapple with the impacts of climate change on our city.

The NYC Panel on Climate Change (NPCC) projects increased chronic climate hazards...



By the 2050s:

- + 4.1°F to 5.7°F increase in average temperature
- + 4% to 11% increase in average annual precipitation
- + Sea levels likely to rise 1-2 ft.; maybe 21/2 ft.

By 2100:

+ High-end projections *may* reach 6 ft.

...and increased impact from extreme weather events.

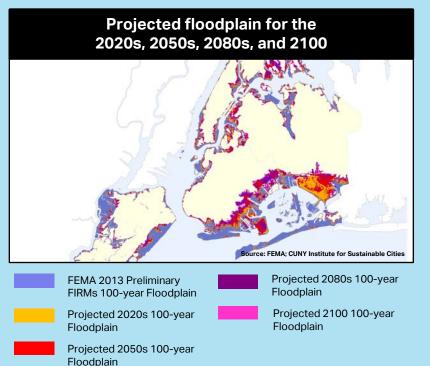


By the 2050s:

- + Number of days in NYC above 90° could triple
- + Number of most intense hurricanes and associated extreme winds may increase **Even today:**
- + 100-year floodplain expanded by 17 square miles (51%) citywide; 2.3 ft. average increase in 100-year flood elevations; will increase with further sea level rise; now encompasses 71,500 structures

SEA LEVEL RISE AND STORM SURGE

The City's 520 miles of coastline is vulnerable to flooding from coastal storms.



100-YEAR FLOODPLAIN*						
	2013 PFIRMs	2050s Projected	Change (%)			
Residents	400,000	808,900	102%			
Jobs	290,800	555,700	91%			
Buildings	71,500	118,000	65%			
1-4 Family	57,400	89,000	55%			
Floor Area (Sq Ft.)	534M	855M	42%			

^{*} Numbers are rounded for clarity

Over 171,000 Buildings And 1.2 Million New Yorkers Projected To Live In The Floodplain By 2100.

OneNYC: OUR FOUR VISIONS

On April 22nd, 2015 Mayor Bill de Blasio released a new long-term strategic plan to address our most pressing challenges.



OneNYC: OUR RESILIENT CITY

This plan builds on existing efforts and strengthens and expands the City's commitment to a multilayered approach to resiliency.



Every city neighborhood will be safer by strengthening community, social, and economic resiliency



The city's buildings will be upgraded against changing climate impacts



Infrastructure systems across the region will adapt to enable continue services



New York City's coastal defenses will be strengthened against flooding and sea level rise

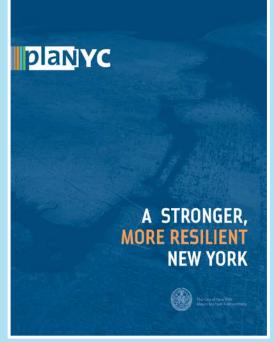
PLANNING EFFORTS

Building off of recommendations from previous resiliency plans

REBUILD BY DESIGN













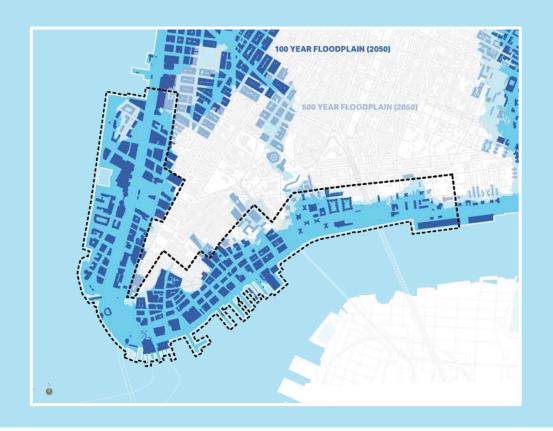
PROJECT OVERVIEW

Purpose of Study:

- Develop long-term strategy and feasible concept design for all of Lower Manhattan
- 2. Prioritize project concepts toward implementation and conduct advanced planning when possible
- 3. Engage with community on core design principles and priorities

Study Funding:

+ \$7.25M CDBG-DR (\$3.75M GOSR; \$3.5M NYC)



IMPLEMENTATION FUNDING IN PLACE



East Side Coastal Resiliency Funding Secured:

\$335 million (CDGB-DR) \$170 million (City Capital) Project Budget : \$505 million

Lower Manhattan Coastal Resiliency Implementation:

Two Bridges

Funding Secured:
\$176 million (CDGB-NDR)
\$27 million (City Capital)

Project Budget: \$203 million

Manhattan Tip

Funding Secured:

\$108 million (City Capital)

Project Budget: TBD

TEAM STRUCTURE

CITY

ORR/EDC

LEAD CONSULTANT

AECOM

CB1 RESILIENCY
TASK FORCE

AGENCY PARTNERS

NYCDPR NYCDEP NYCDOT NYCHA NYCDCP NYSGOSR

NYCDDC

COMMUNITY ENGAGEMENT

JUSTICE & SUSTAINABILITY ASSOCIATES

CB1 AND CB3 TASK FORCES ENGAGEMENT LEAD

HESTER STREET COLLABORATIVE

RESIDENTS AND CBOS

JAMES LIMA PLANNING + DEVELOPMENT

BUSINESSES, OWNERS

URBAN DESIGN

AECOM DESIGN

PLANNING + DESIGN

BIG

DESIGN

ONE ARCHITECTURE

PLANNING

ENGINEERING

AECOM

ENVIRONMENTAL + ENGINEERING LEAD

DEWBERRY ENGINEERS

WATER MODELING

MJ ENGINEERING & SURVEYING

SURVEY

JERSEY BORING & DRILLING

GEOTECHNICAL

ILC DOVER

ENGINEERING

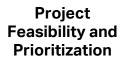
PROJECT LOGIC & ACTIVITIES

Build Off Previous Planning & Design

- Existing Conditions
- * Mapping
- Site Conditions
- + Assessments

Develop Comprehensive Concept Design

- Hydrological Mgmt Strategies
- Drainage and Sewer
- * Ecological/Environmental
- + O&M
- * Economic Analysis
- * Regulatory Framework
- Determine Design Flood Elevations



Feasibility, Prioritization and Phasing

Near Term Scoping for Implementation

- Detailed schematic design
- + Surveying, Geotech, Sampling
- + Environmental Review and Permitting



PROJECT PROCESS

FINAL DESIGN & IMPLEMENTATION

DESIGN AND ENGINEERING

COMMUNITY INPUT

Build Off Previous Planning & Design

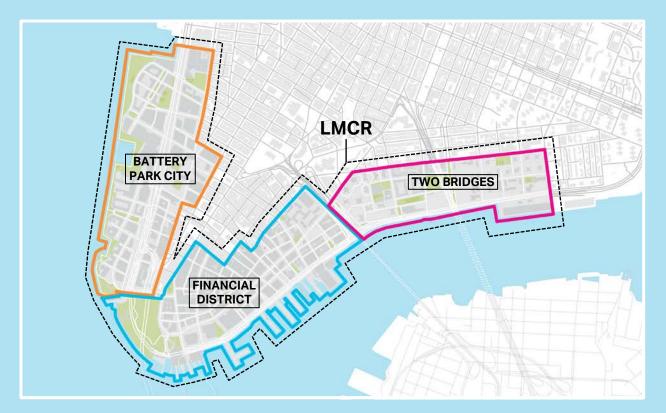
Develop Comprehensive Concept Design Project Feasibility and Prioritization Near Term Scoping for Implementation

ENVIRONMENTAL REVIEW

PERMITTING

LOWER MANHATTAN COASTAL RESILIENCY PROJECT

PLANNING STUDY AREA





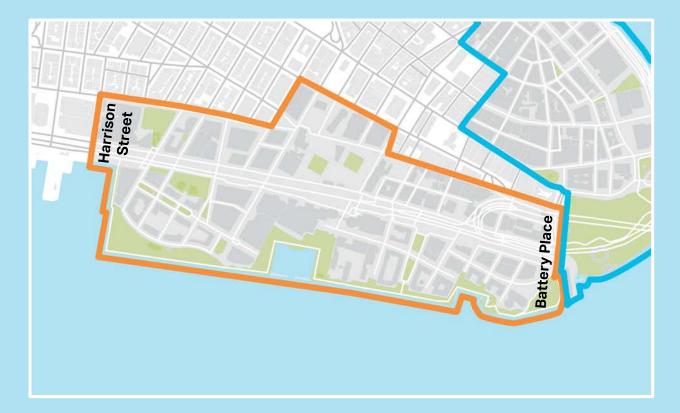
FINANCIAL DISTRICT STUDY AREA







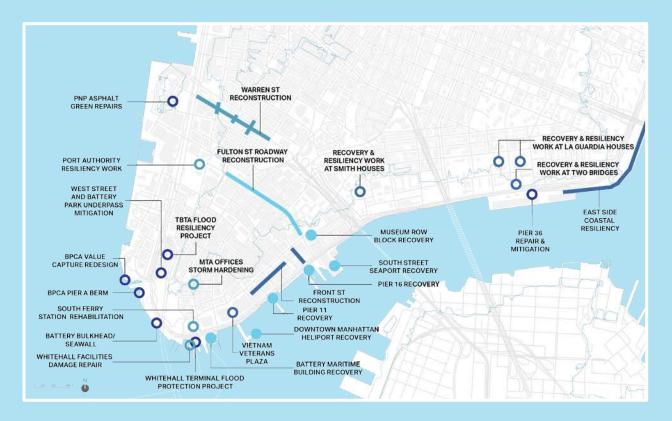
BATTERY PARK CITY STUDY AREA





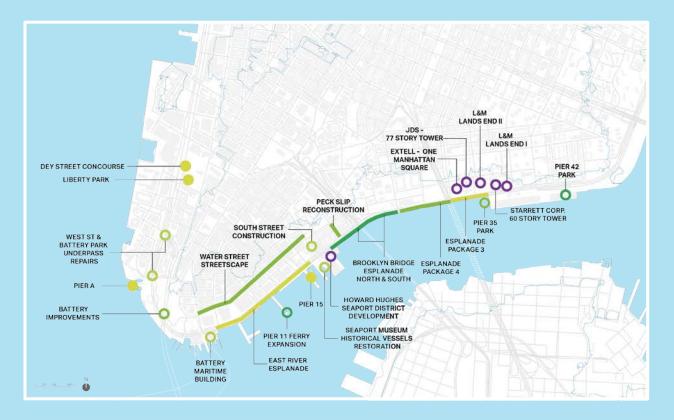


ADJACENT RESILIENCY PROJECTS



- PLANNED
- **DESIGN PHASE**
- CONSTRUCTION PHASE
- COMPLETED

ADJACENT WATERFRONT IMPROVEMENT PROJECTS



- PLANNED
- **DESIGN PHASE**
- CONSTRUCTION PHASE
- COMPLETED
- PLANNED PRIVATE DEVELOPMENT



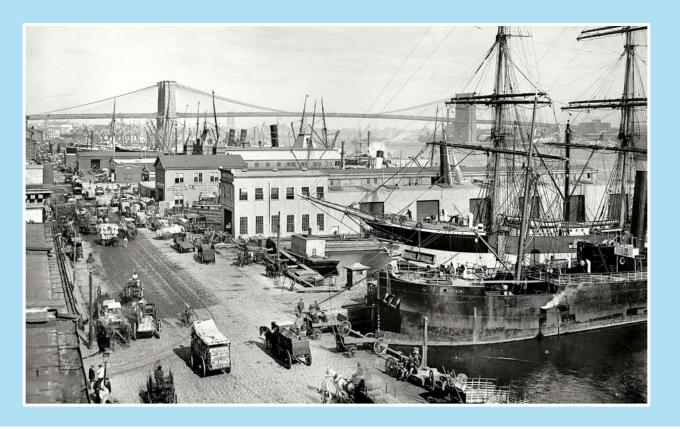
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DOWNTOWN MANHATTAN



1900 1928

EAST RIVER PORTS



1900 1901

PIER 15



2010 2011

lower manhattan **COASTAL RESILIENCY**

BATTERY PARK CITY



THE BATTERY IMPROVEMENTS



SOUTH STREET



SOUTH STREET UNDER THE FDR



1980 1982

EAST RIVER ESPLANADE UNDER THE FDR



ENGAGEMENT PROCESS

COLLABORATIVE PROCESS HOW ARE WE GOING TO WORK TOGETHER?



ENGAGEMENT METHODS – MEETING TYPES



- + Community Workshops
- + Informal Engagement
- + Stakeholder Interviews
- + Focus Groups
- + Surveys
- + Walking/Biking tours

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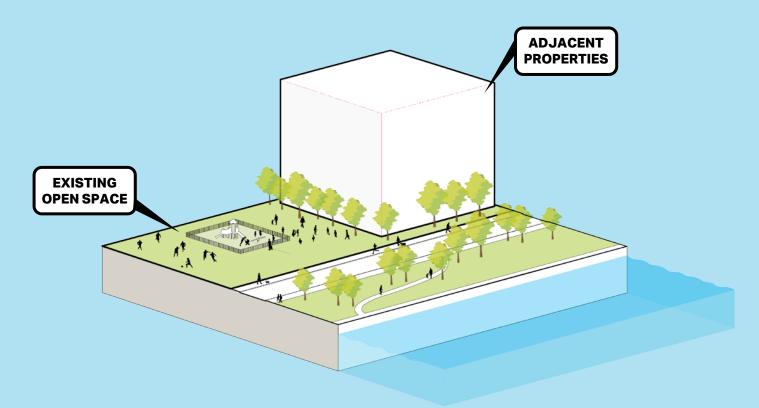
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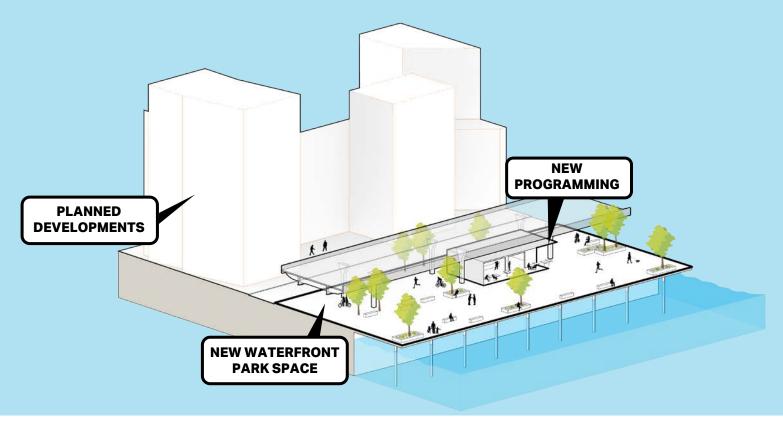
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KEY CONSIDERATIONS

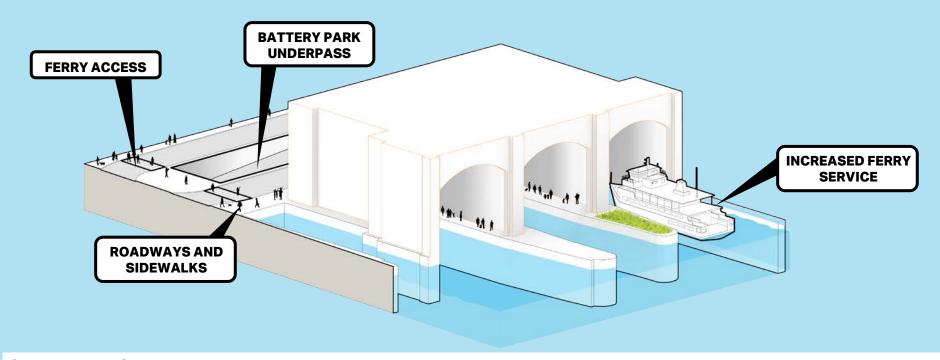
ADJACENT USES



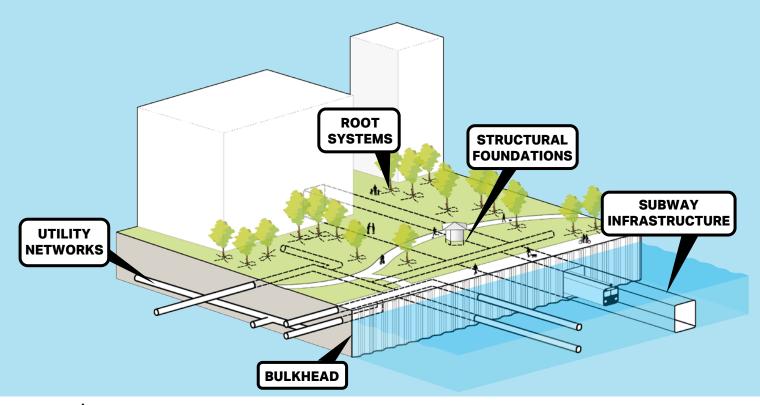
NEW AND PLANNED IMPROVEMENTS



CIRCULATION AND TRANSPORTATION

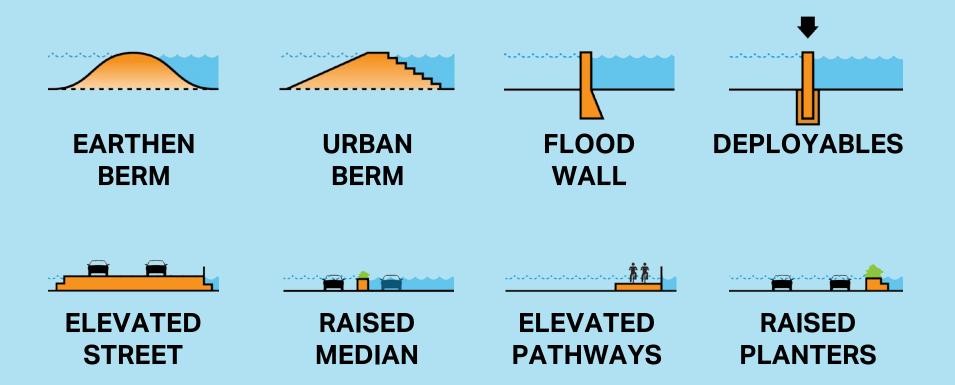


UNDERGROUND



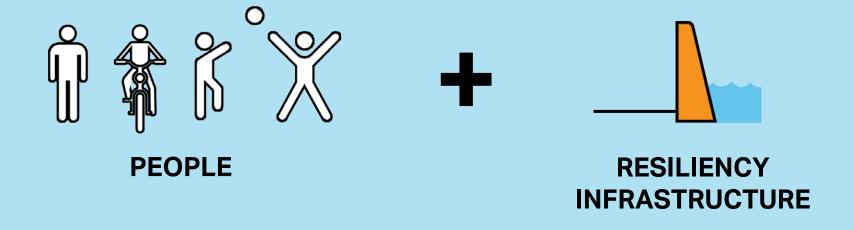
TYPES OF COASTAL RESILIENCY INFRASTRUCTURE

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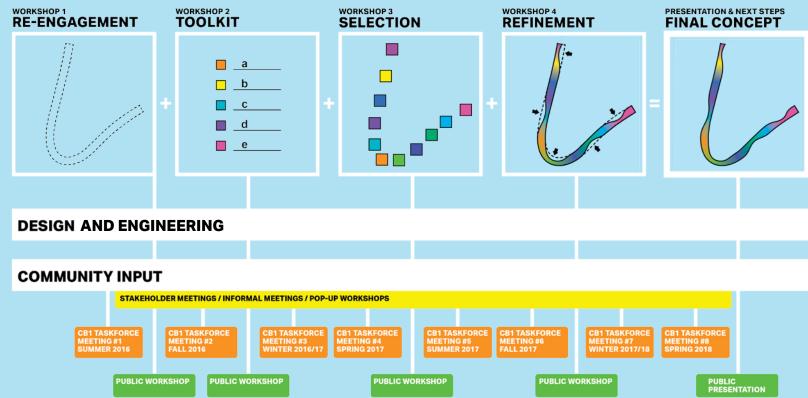


SOCIAL INFRASTRUCTURE

HOW DOES RESILIENCY INFRASTRUCTURE BENEFIT PEOPLE?



ENGAGEMENT TIMELINEOPPORTUNITIES TO PARTICIPATE



FINAL DESIGN MPLEMENTATI

SMALL GROUP DISCUSSIONS

HOW WILL YOUR INPUT SHAPE THE PROJECT?

WORK SESSION 1: 30 minutes

Coastal Resiliency Infrastructure Types – Priorities and Concerns

WORKSHEET 1:

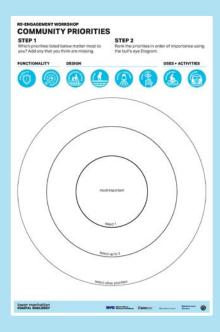


HOW WILL YOUR INPUT SHAPE THE PROJECT?

WORK SESSION 2: 20 minutes

Community Priorities

WORKSHEET 2:





STAY IN TOUCH













By Mail 253 Broadway – 14th Floor

in person

nycresiliency@cityhall.nyc.gov

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