

# East Side Coastal Resiliency Project

March 19, 2015







## A STRONGER, MORE RESILIENT NEW YORK



#### **AGENDA**

## What will we discuss tonight?

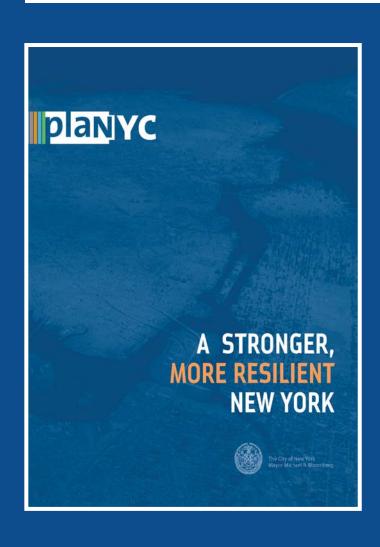
- Overview
- Design and Public Engagement
- Current Progress
- Next Steps
- Q & A

## Overview

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#### A STRONGER, MORE RESILIENT NEW YORK

The City's 257 initiatives comprise a comprehensive, citywide plan to reduce the risk of extreme weather and climate change

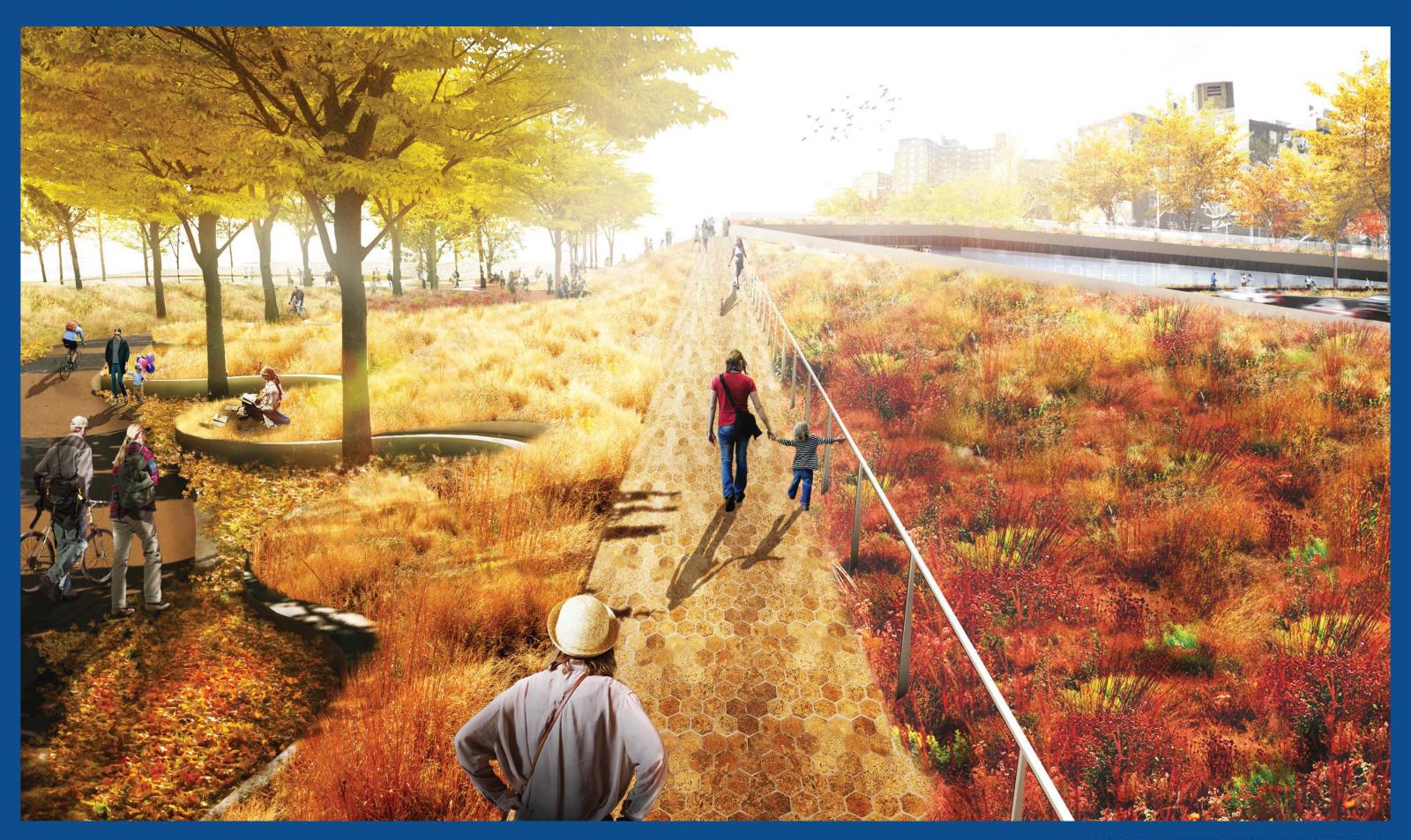


- Strengthen Coastal Defenses
- Upgrade Buildings
- Protect Infrastructure and Services
- Make Neighborhoods Safer and More Vibrant

Coastal Protection Initiative 21:
Install an integrated flood protection system in Lower Manhattan,
including the Lower East Side

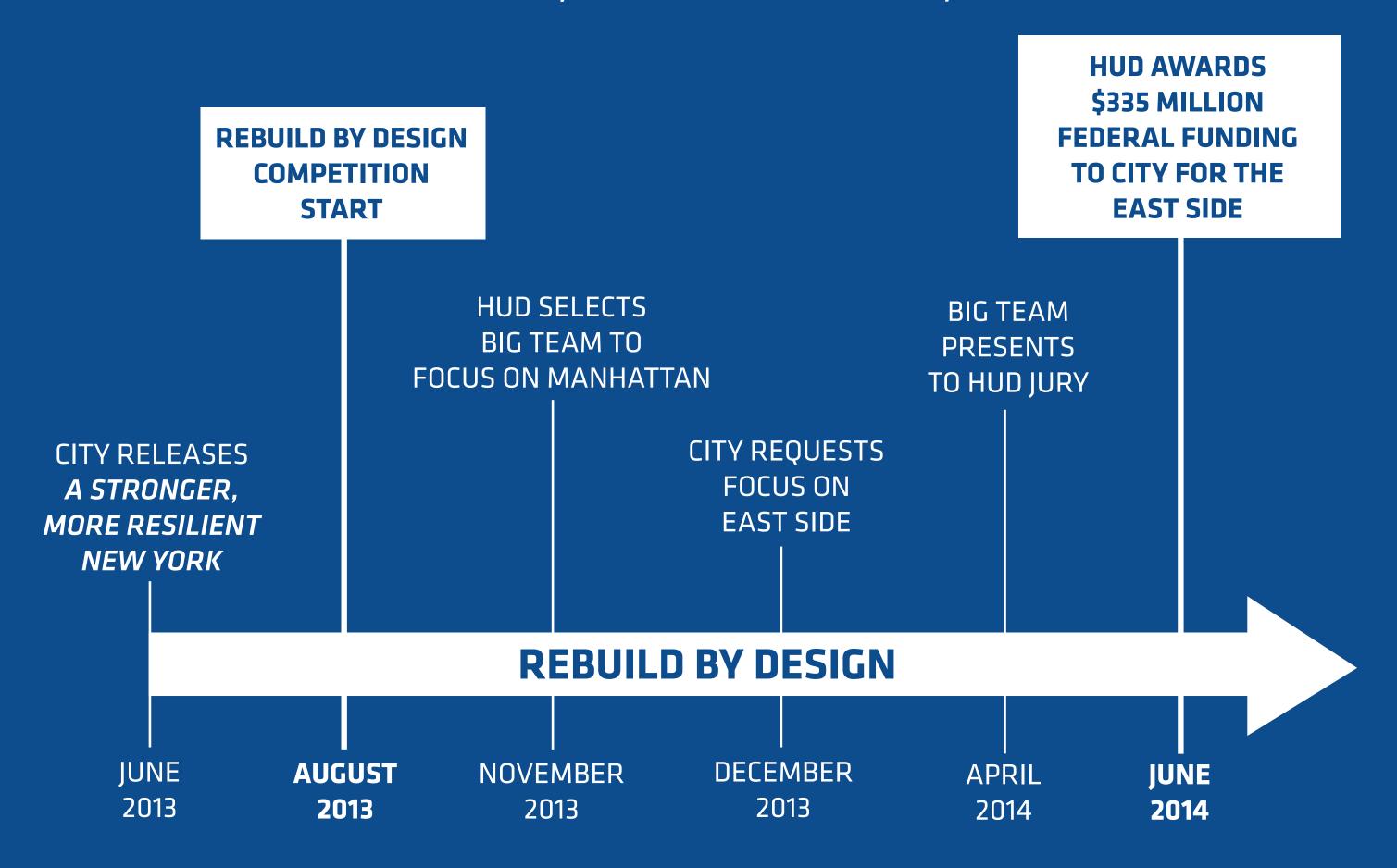
## **REBUILD BY DESIGN COMPETITION**

The RBD proposal focused on flood protection for the East Side of Manhattan



#### **COMPETITION TIMELINE**

RBD was a 9-month ideas competition administered by HUD



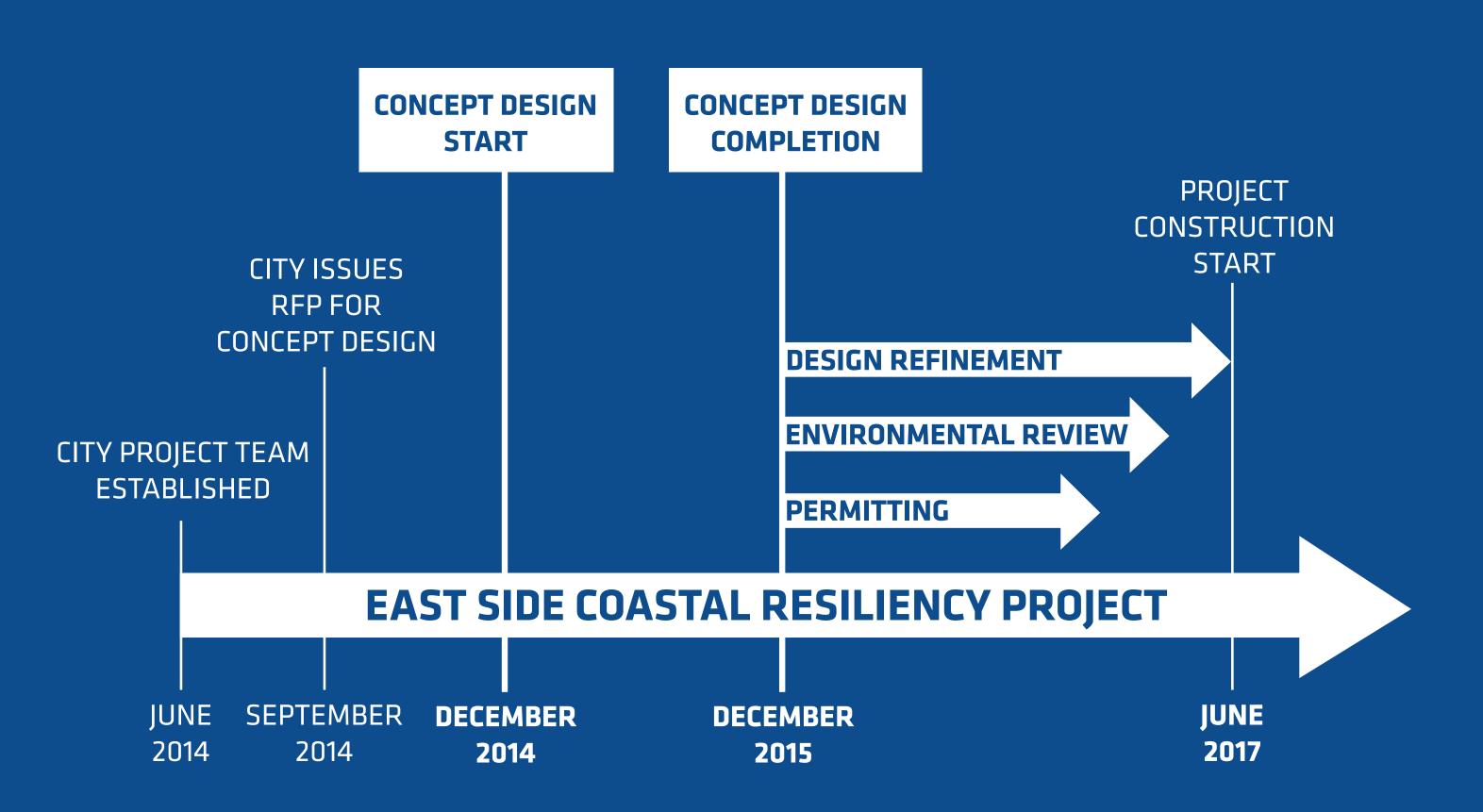
## **PROJECT LOCATION**

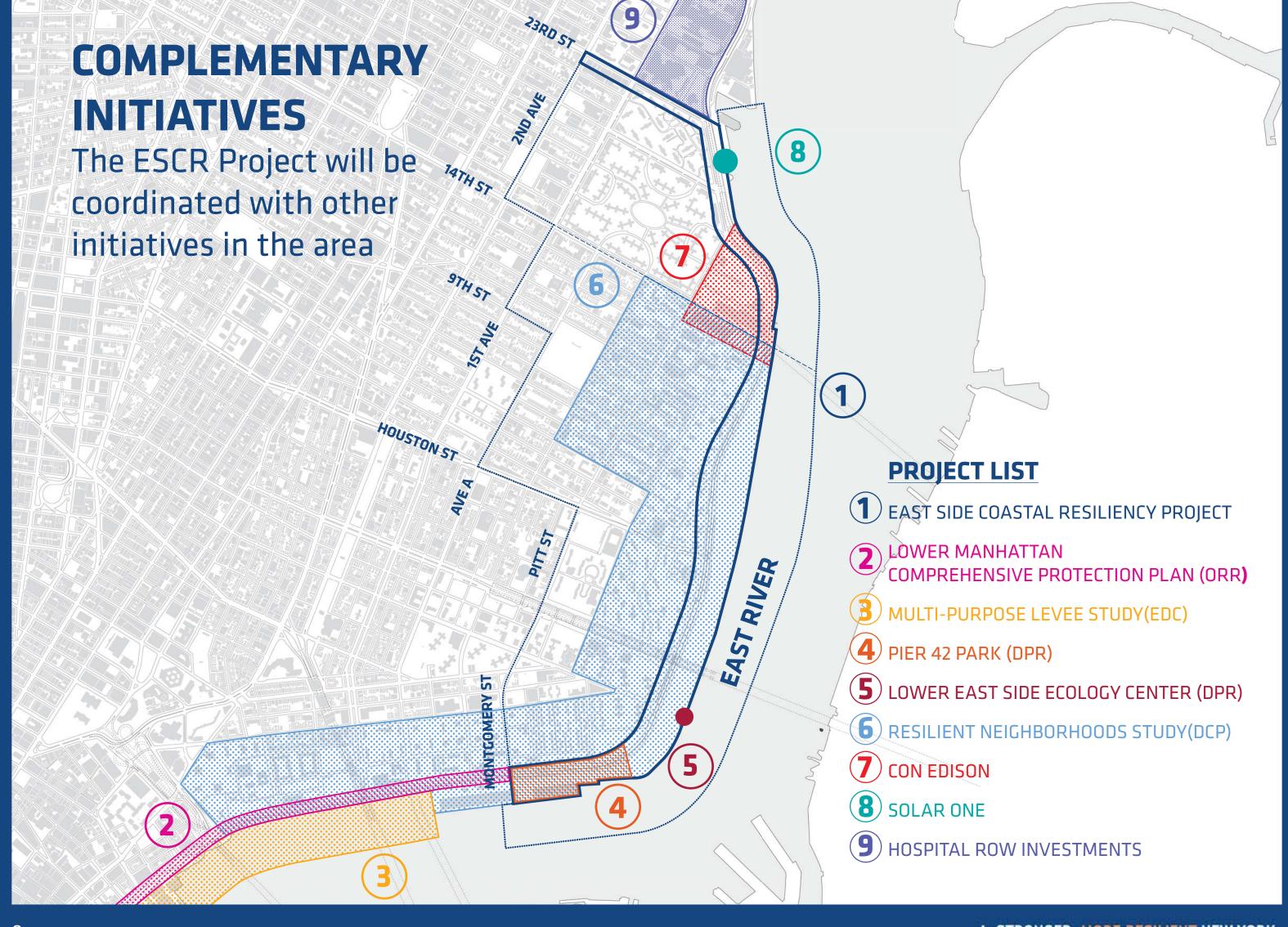
The City received HUD funding for the area from E. 23rd St. to Montgomery St. and we are using City and State funds to advance planning south of Montgomery St.



## PROJECT TIMELINE

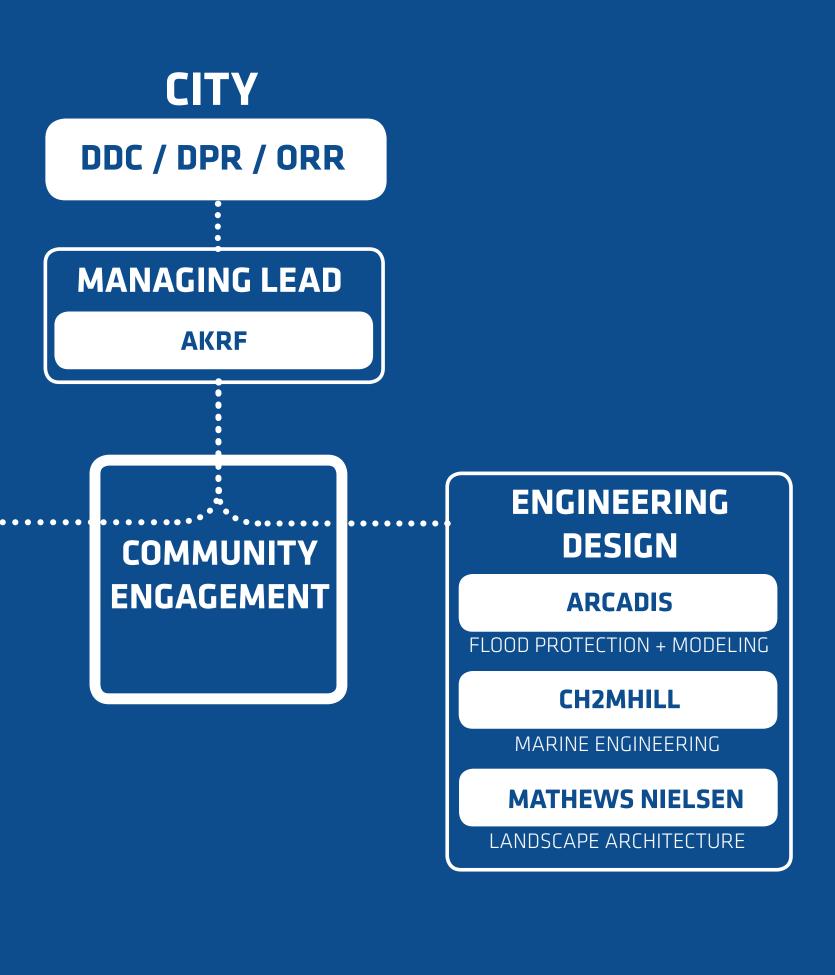
The ESCR Project is on an ambitious timeline, with construction anticipated in 2017





#### **TEAM STRUCTURE**

The city has hired a team of technical and design professionals to coordinate with local input



**BIG** 

LEAD

**STARR WHITEHOUSE** 

LANDSCAPE ARCHITECTURE

**ONE ARCHITECTURE** 

PLANNING

**JAMES LIMA P+D** 

PUBLIC POLICY

FITZGERALD & HALLIDAY

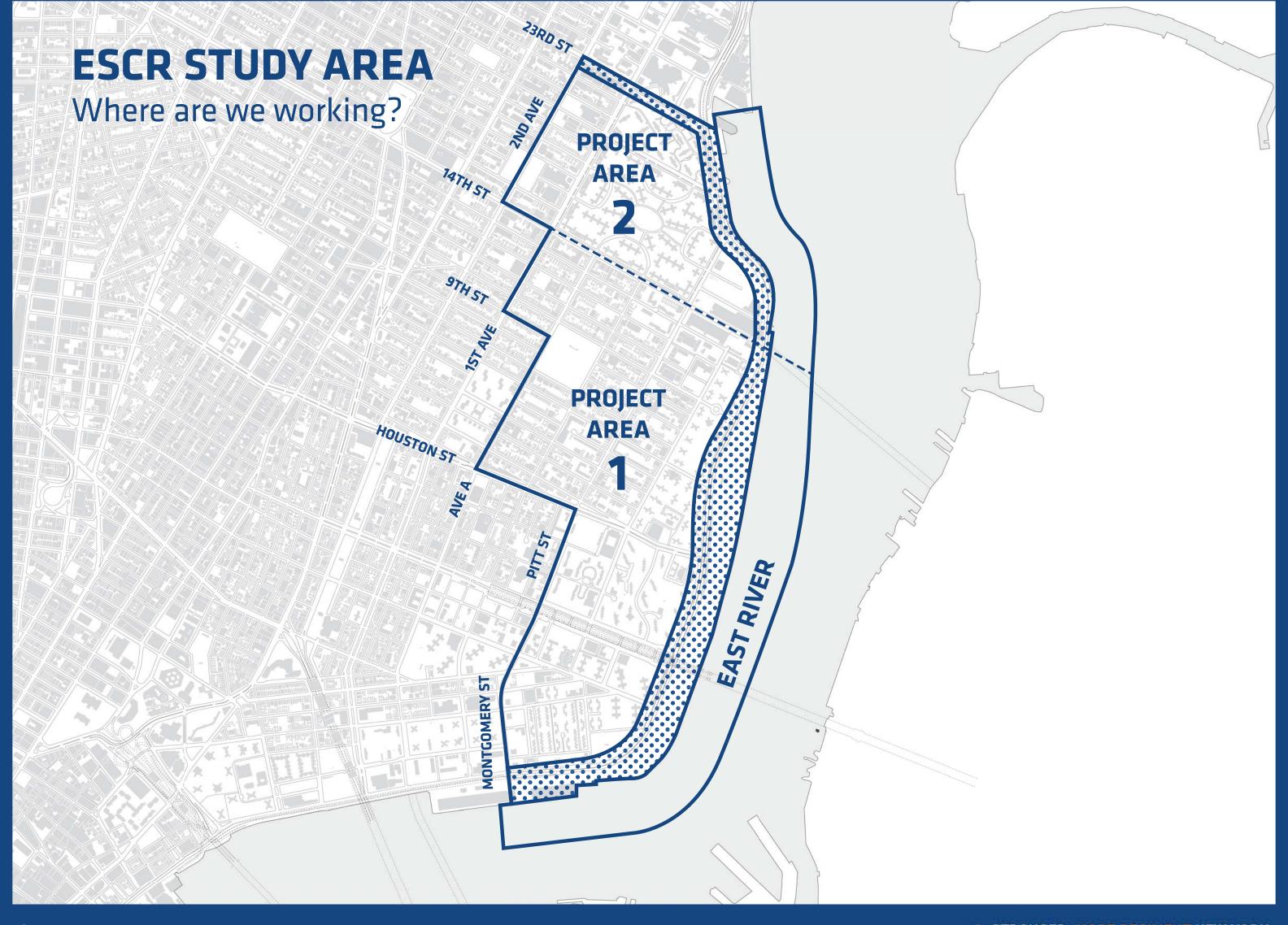
COMMUNITY ENGAGEMENT

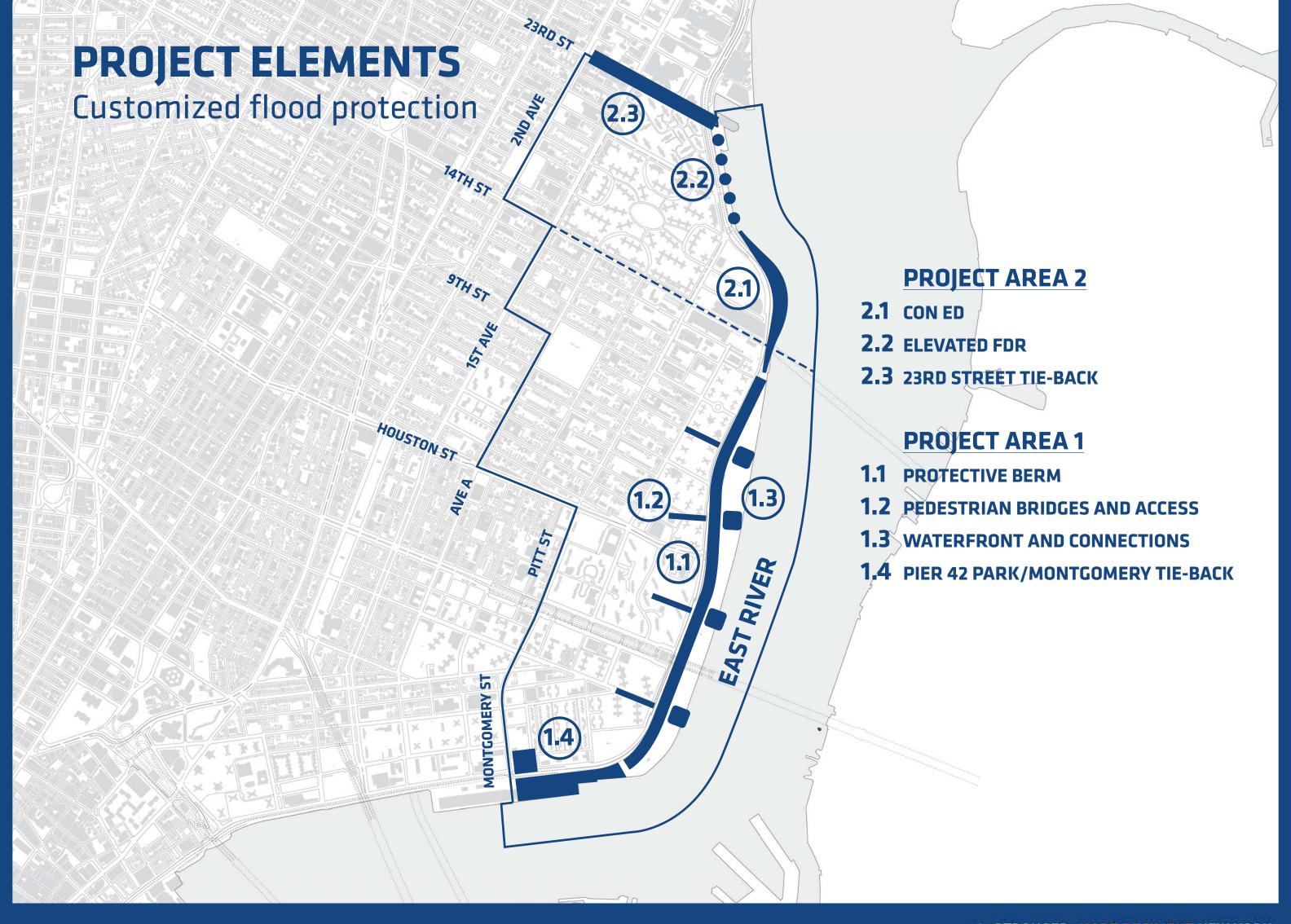
#### **COMMUNITY ENGAGEMENT GOALS**

Working with East Side residents and stakeholders is important to the ESCR project

- Listen to input from East Side residents
- Collaborate on design options with East Side community
- Explore opportunities and trade-offs together

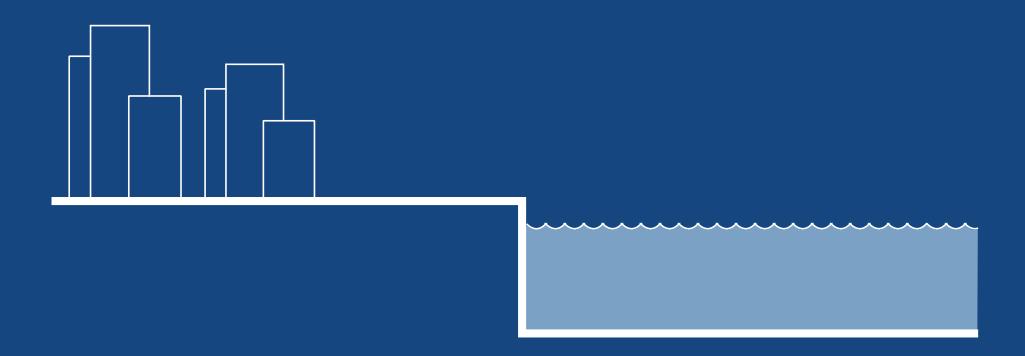
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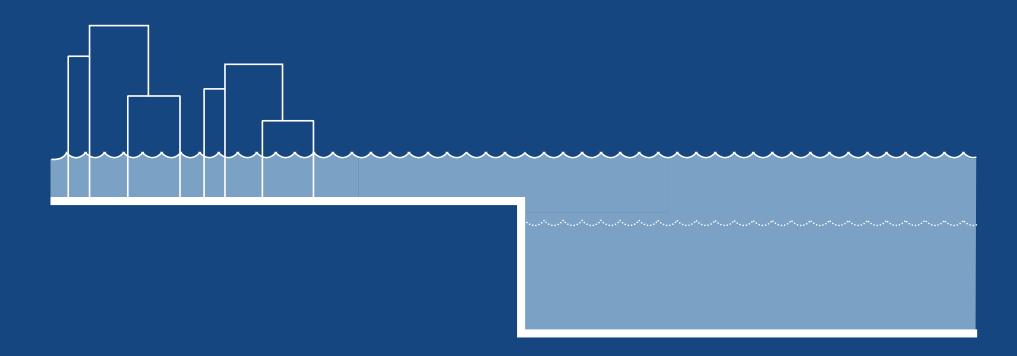
## WHAT HAPPENED DURING SANDY?

**Normal River Conditions** 



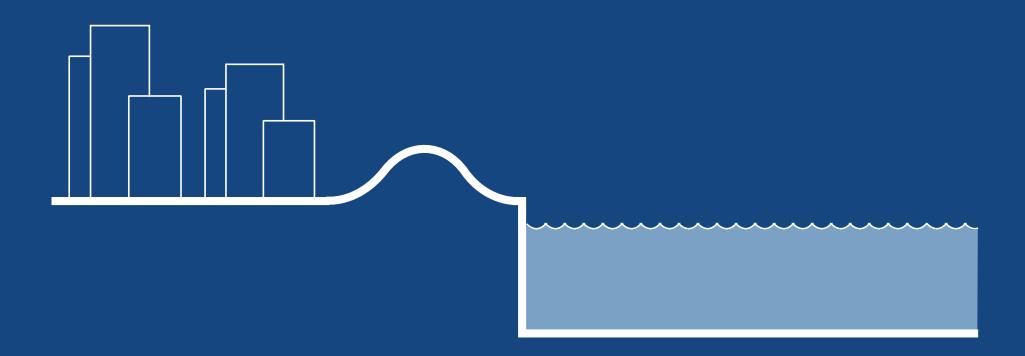
## WHAT HAPPENED DURING SANDY?

Storm Surge Flooding



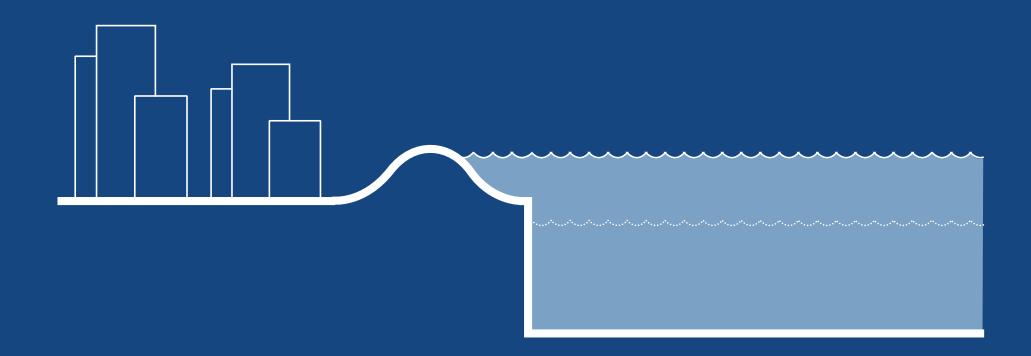
## BERM / LEVEE

**Normal River Conditions** 



## BERM / LEVEE

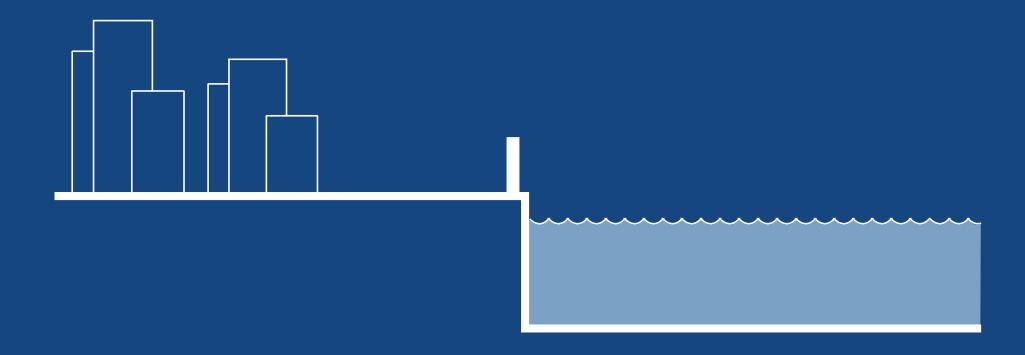
Storm Surge Flooding





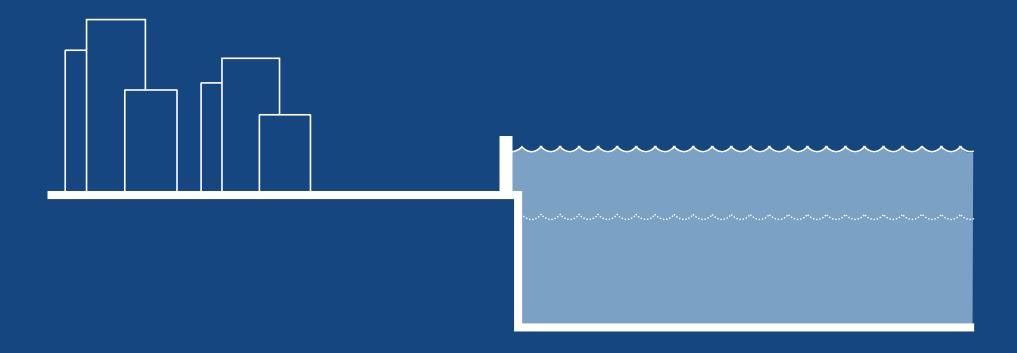
## **FLOOD WALL**

#### **Normal River Conditions**



## **FLOOD WALL**

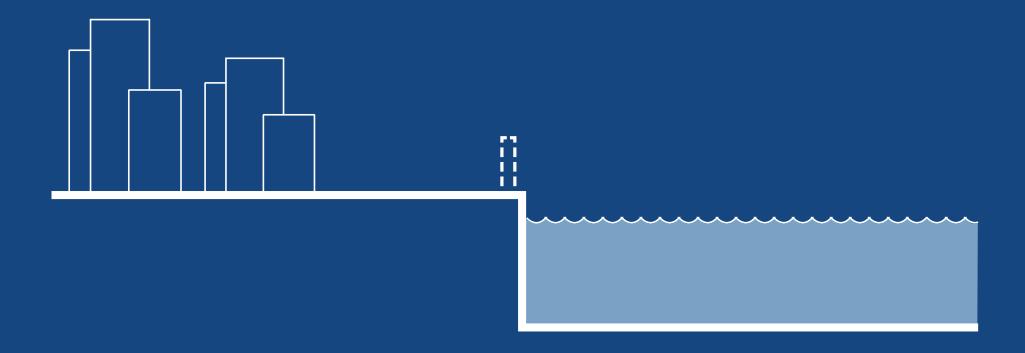
Storm Surge Flooding





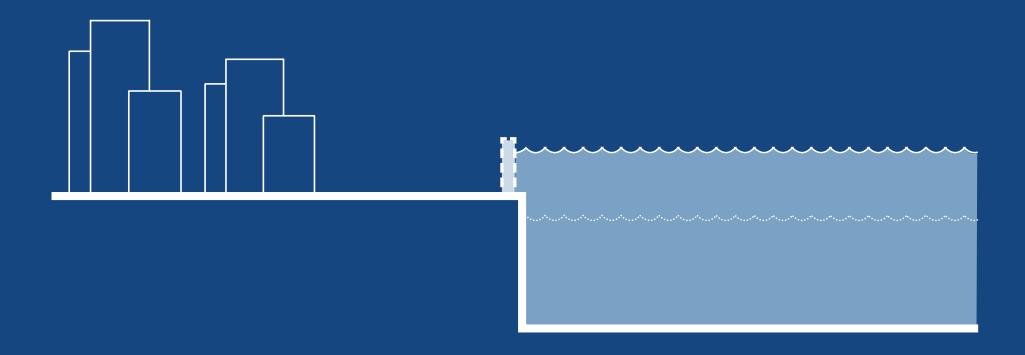
## **DEPLOYABLE**

#### **Normal River Conditions**



## **DEPLOYABLE**

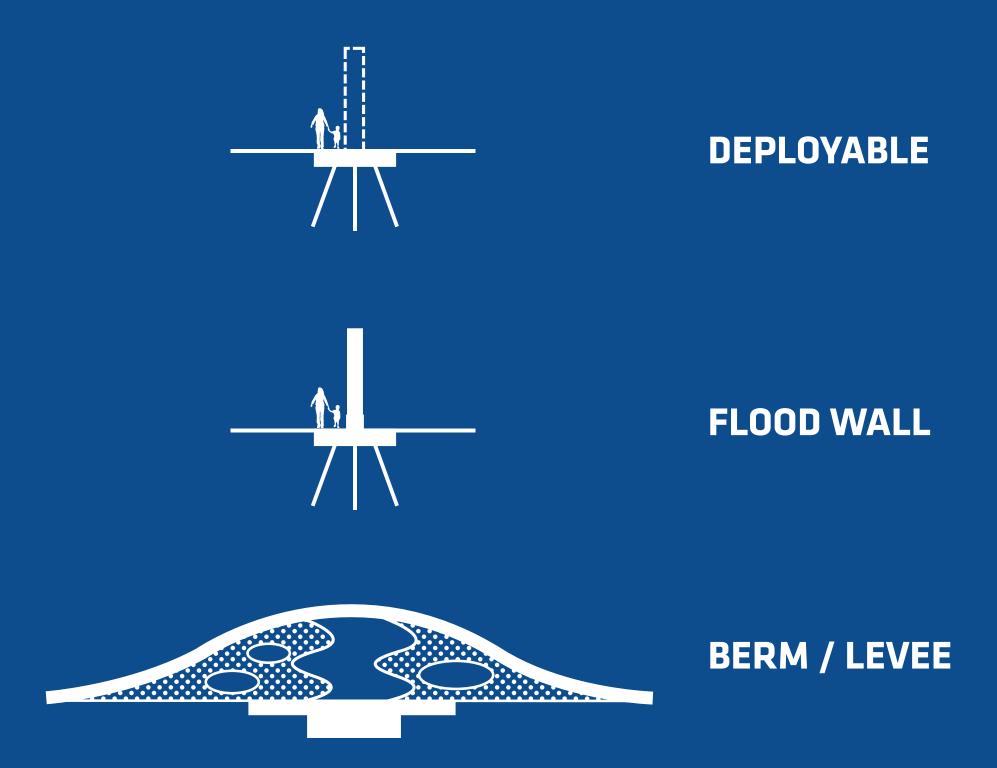
Storm Surge Flooding





## **TYPES OF FLOOD PROTECTION**

The options for resiliency have different degrees of reliability



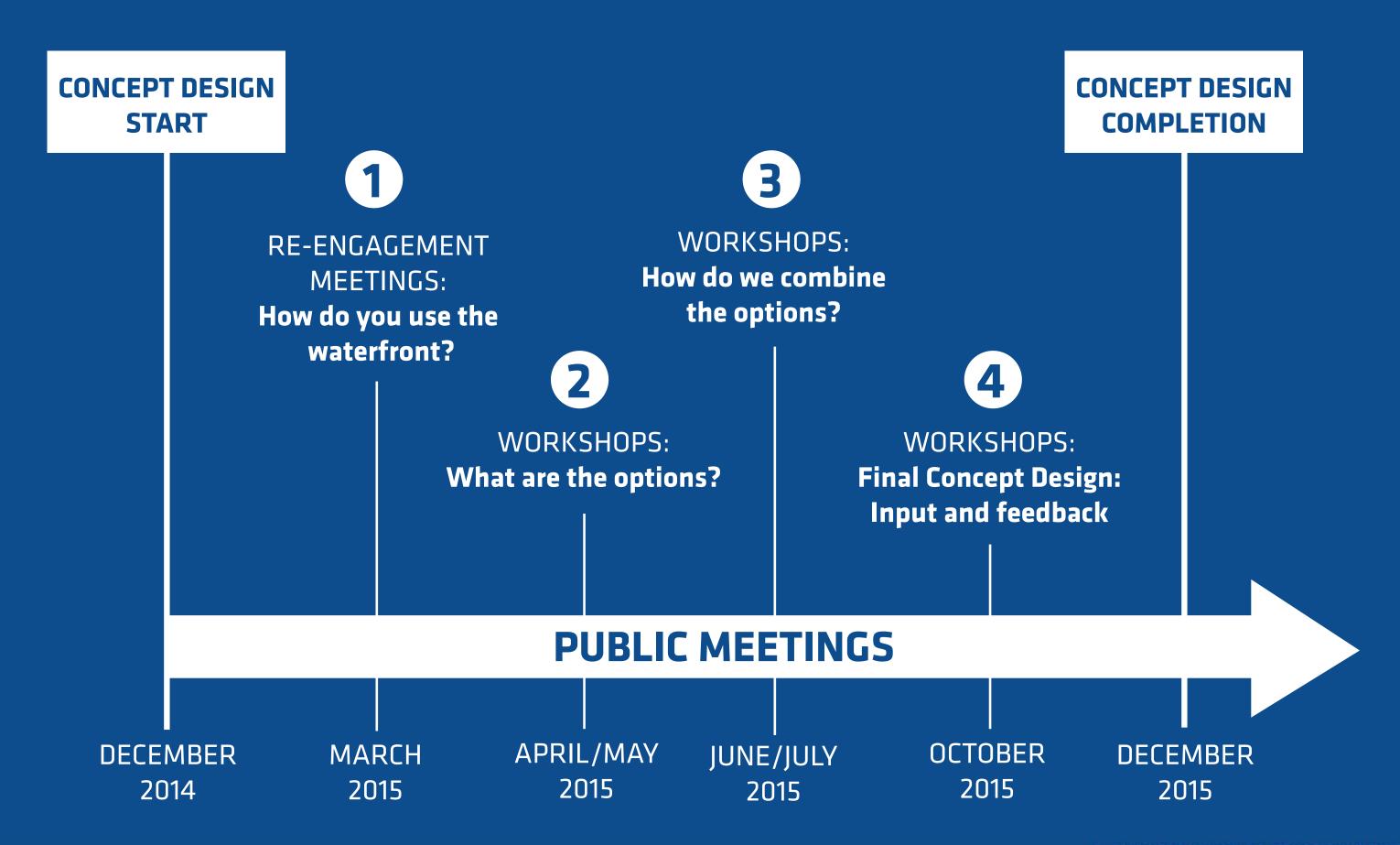
## **SOCIAL INFRASTRUCTURE**

Resiliency infrastructure can double as infrastructure for people



#### **COMMUNITY ENGAGEMENT TIMELINE**

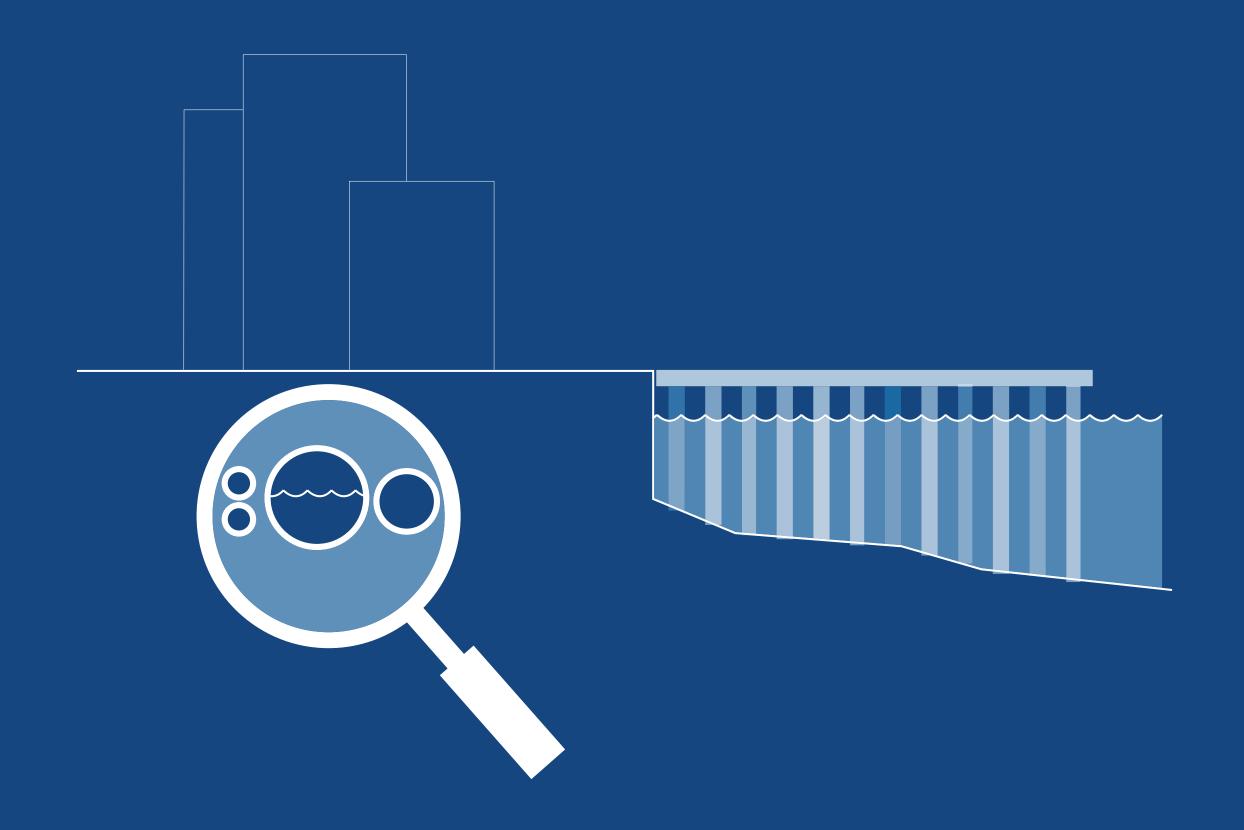
Meetings with East Side residents and stakeholders throughout the year



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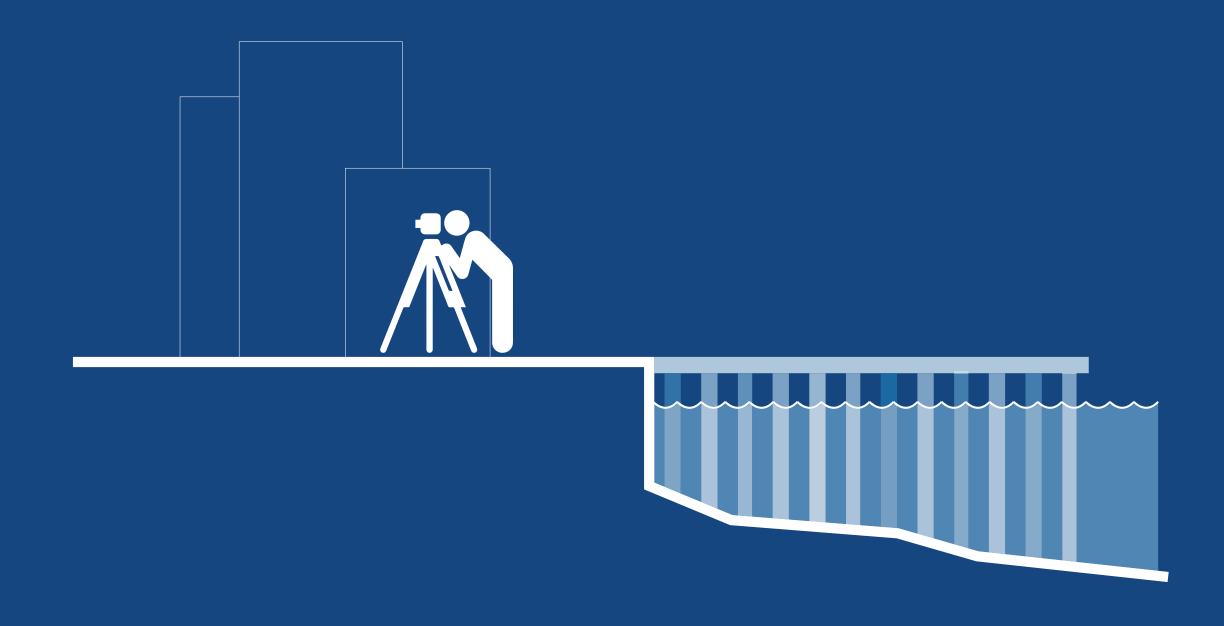
## **INVESTIGATING BELOW GROUND**

August 2014 - July 2015



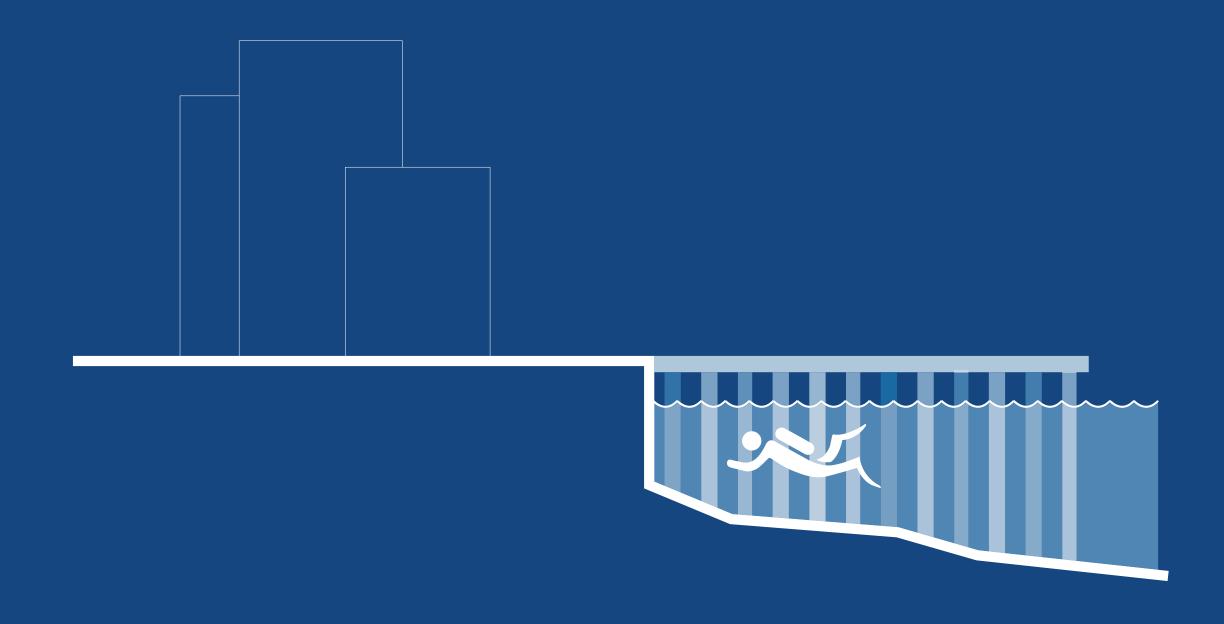
## **SURVEYING THE LAND**

September 2014 - March 2015

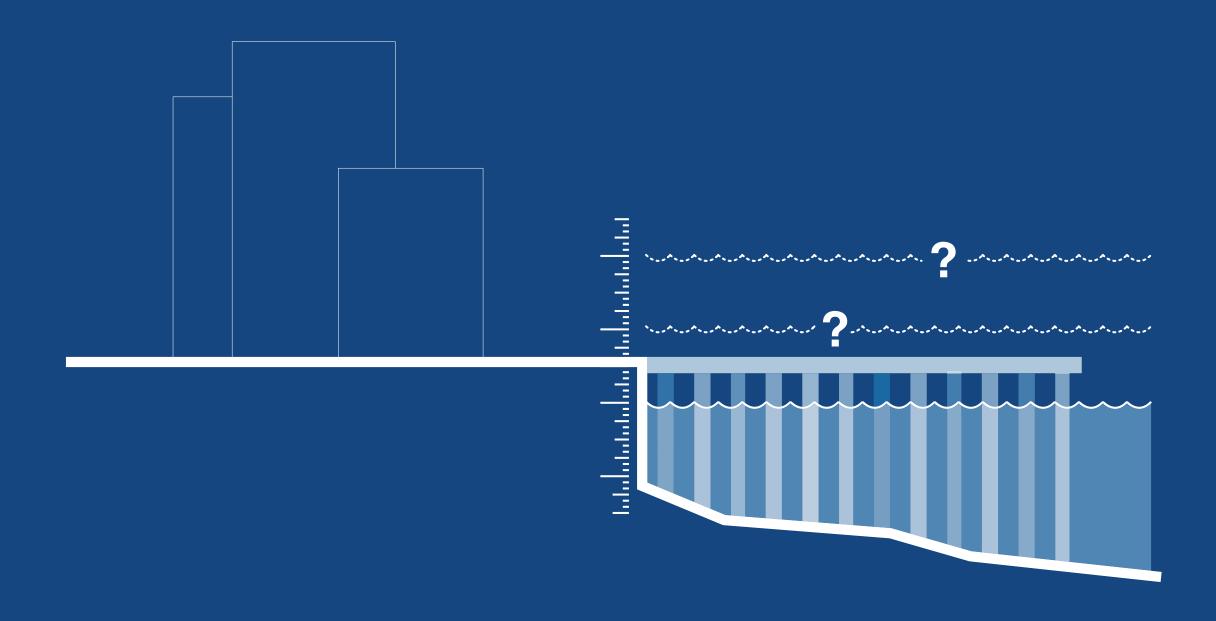


## INSPECTING WATERFRONT STRUCTURES

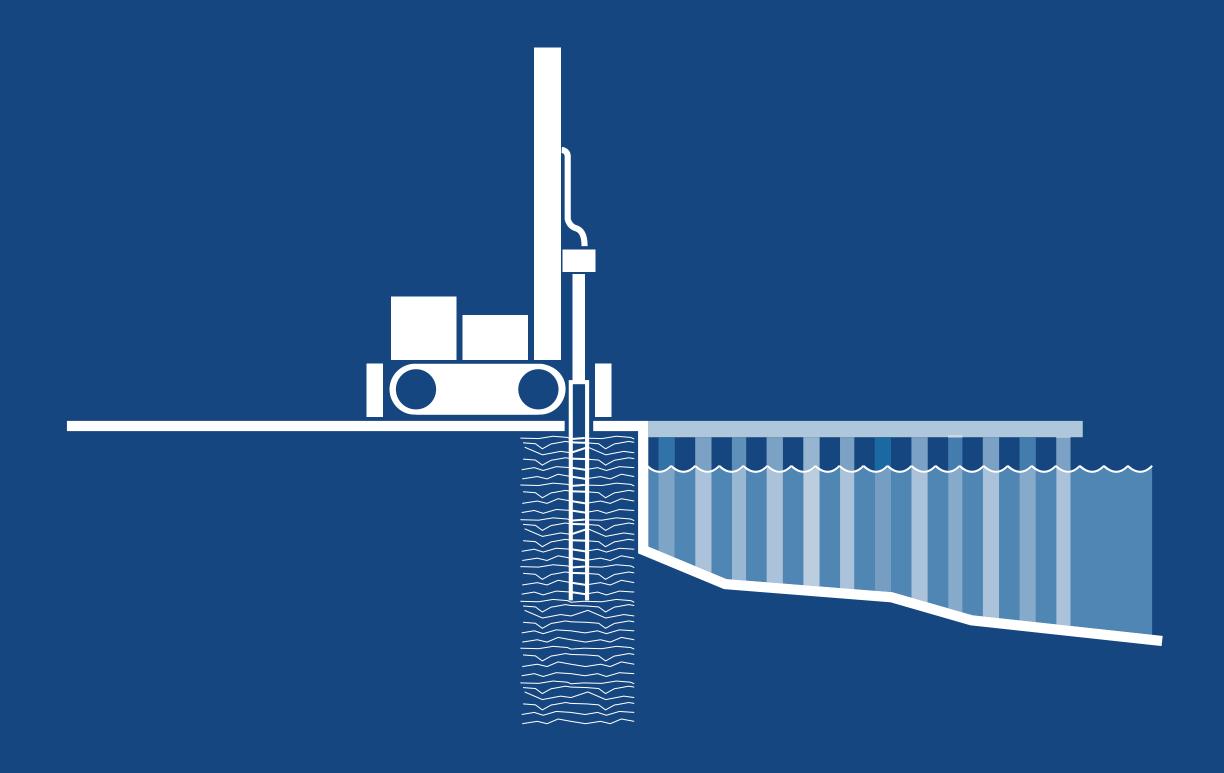
January - March 2015



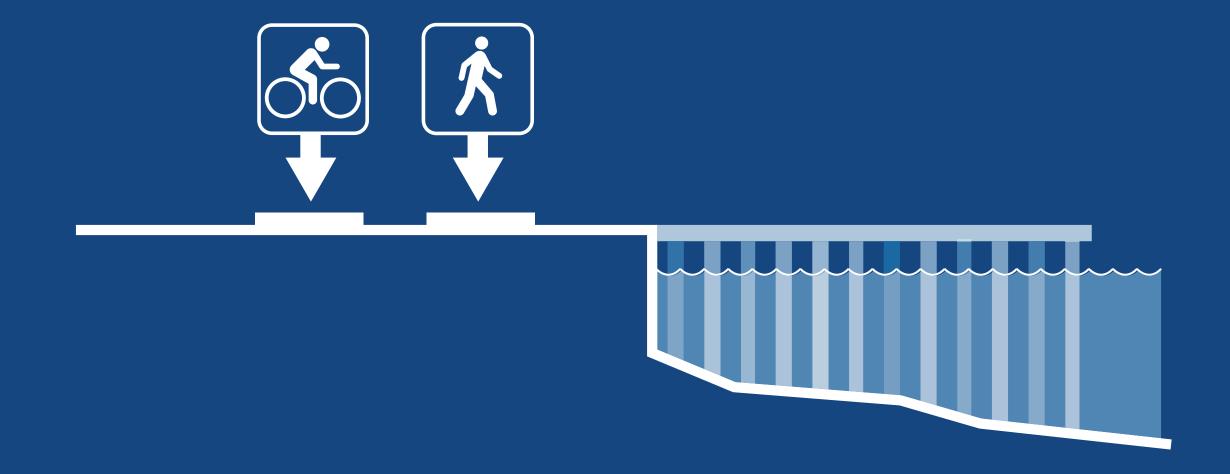
## **EXAMINING FLOOD RISK AND WATER FLOW**



## **TESTING THE SOIL**



## STUDYING PEDESTRIAN AND BICYCLE USAGE

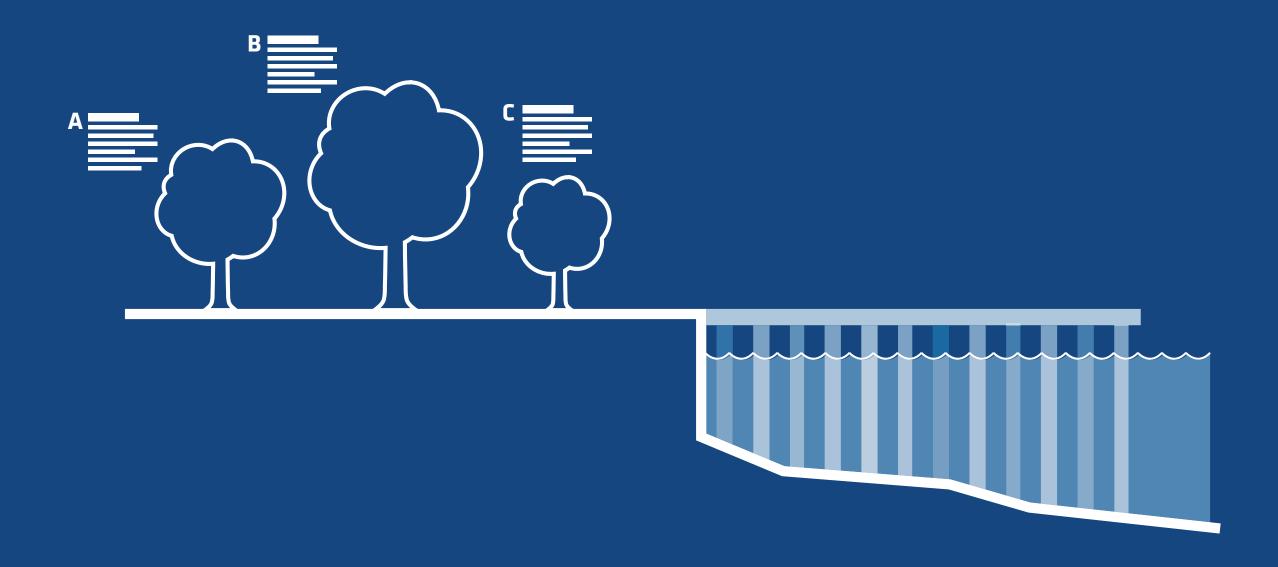


## **INSPECTING BRIDGES**



# MAKING AN INVENTORY OF EXISTING TREES

January - July 2015



# REVIEWING AND LEARNING FROM EXISTING STUDIES

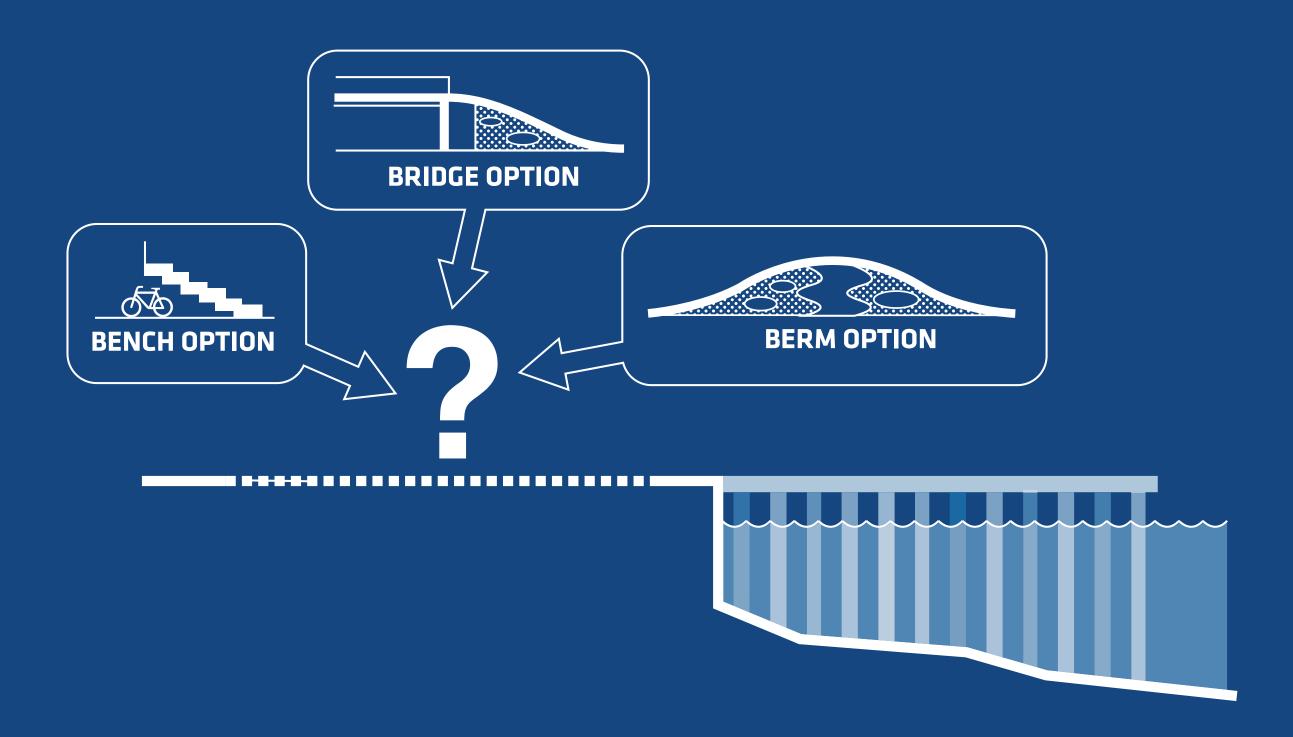
December 2014 - July 2015



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# **DEVELOPING DESIGN OPTIONS**

March - December 2015



# **EVALUATION CRITERIA**

There are many factors to consider when assessing resiliency options











#### **ONGOING PUBLIC ENGAGEMENT**

Workshops like tonight's are just one way to participate in the ESCR project

STAKEHOLDER MEETINGS

TASKFORCE MEETINGS

COMMUNITY WORKSHOPS





### KEY ISSUES IDENTIFIED BY COMMUNITY DURING RBD

#### PEDESTRIAN BRIDGE CONNECTIONS

- Locations
- Bridge Design

#### **BIKEWAY/WALKWAY**

- Narrow Segments
- Emergency and Maintenance Access

#### WATERFRONT VIEW CORRIDORS

- Height and Width of Flood Protection Elements
- Look and Feel

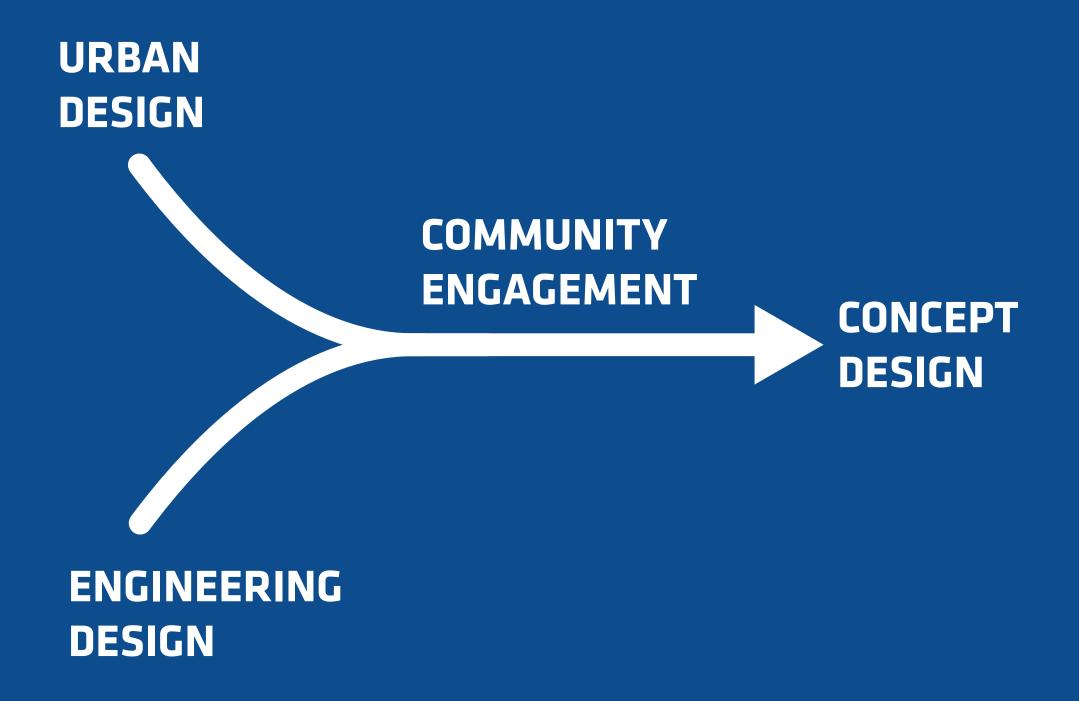
#### **PARK ECOLOGY**

- Plants & Trees
- Upland Connections

#### **NEW ISSUES...**

## **COLLABORATION**

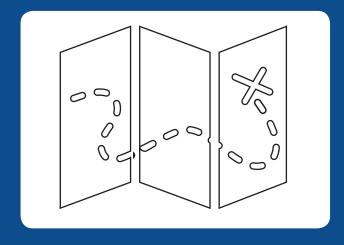
Local knowledge with technical expertise leads to one concept design for the project



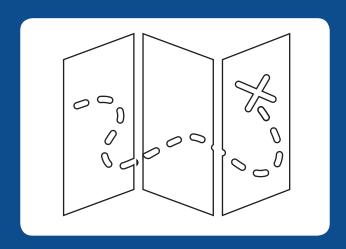
# HANDS-ON ACTIVITY: HOW DO YOU USE THE WATERFRONT?

# MAP YOUR NEIGHBORHOOD!

EAST RIVER PARK / PROJECT AREA 1

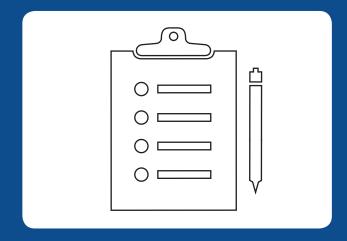


STUYVESANT COVE PARK /
PROJECT AREA 2



# **SHARE YOUR THOUGHTS!**

**SURVEY** 



# SIGN IN AT THE FRONT DESK TO STAY IN TOUCH AND HEAR ABOUT UPCOMING MEETINGS AND ANNOUNCEMENTS!

FOR MORE INFORMATION ABOUT

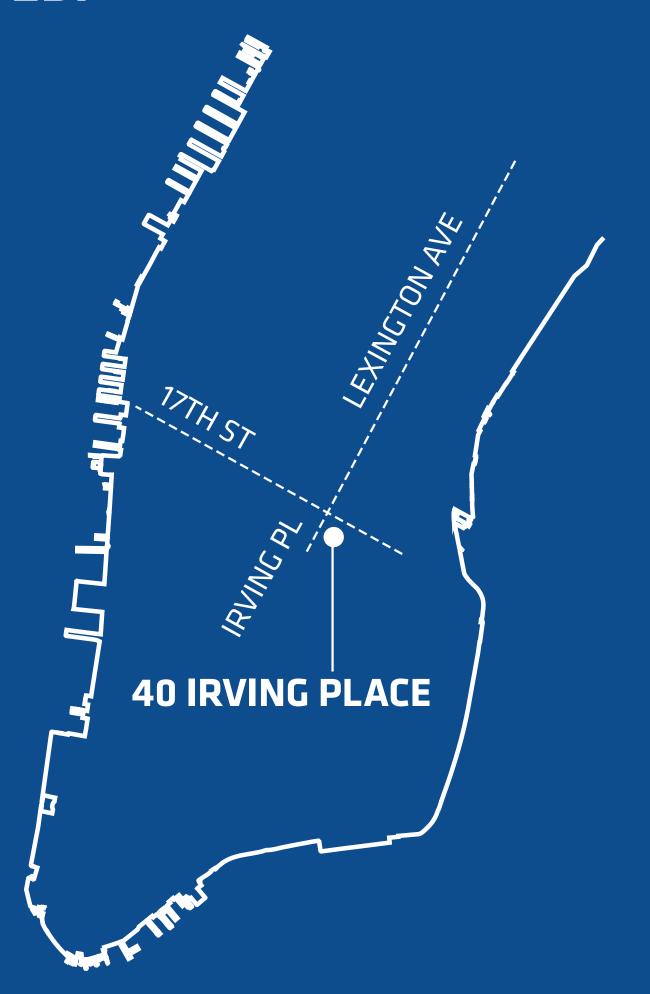
THE EAST SIDE COASTAL RESILIENCY PROJECT EMAIL US AT:

nycresiliency@cityhall.nyc.gov

# THIS MEETING WILL BE REPEATED:

MARCH 23rd AT WASHINGTON IRVING HIGH SCHOOL 40 IRVING PLACE

**TELL YOUR FRIENDS!** 



# THE NEXT COMMUNITY TASKFORCE MEETING WILL BE HELD:

APRIL 7th
UNIVERSITY SETTLEMENT CORNERSTONE
CAMPOS PLAZA
611 EAST 13TH ST.

**HOPE TO SEE YOU THERE!** 





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# **QUESTIONS / DISCUSSION**



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Mayor's Office of Recovery and Resiliency

