EAST SIDE COASTAL RESILIENCY PROJECT

PROJECT ID: SANDRESM1







NEW YORK CITY DEPARTMENT OF DESIGN + CONSTRUCTION
IN PARTNERSHIP WITH THE NEW YORK CITY DEPARTMENT OF PARKS & RECREATION
AND THE MAYOR'S OFFICE OF RECOVERY & RESILIENCY

AGENDA

PROJECT BACKGROUND

- Project Goals A Stronger More Resilient New York
- Past Efforts The BIG-U & Rebuild by Design
- Where We Are Now East Side Coastal Resiliency Project
- What Else is Happening Complementary Processes
- Community Engagement Objectives
- Project Team

PROJECT OVERVIEW

- Where We're Working Project Scope
- Project Schedule
- Design Elements

ONGOING ENGINEERING

- What's There Now Investigating Existing Conditions
- What Happened During Sandy Collecting Data and Existing Knowledge

DESIGN AND PUBLIC ENGAGEMENT

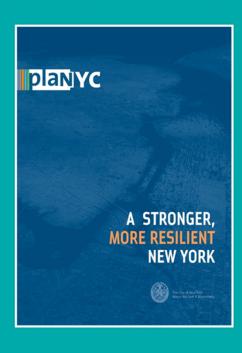
- · Designing with the Community
- Community Engagement Schedule
- Create Concept Design Options through Workshops and Meetings

QUESTIONS AND ANSWERS



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



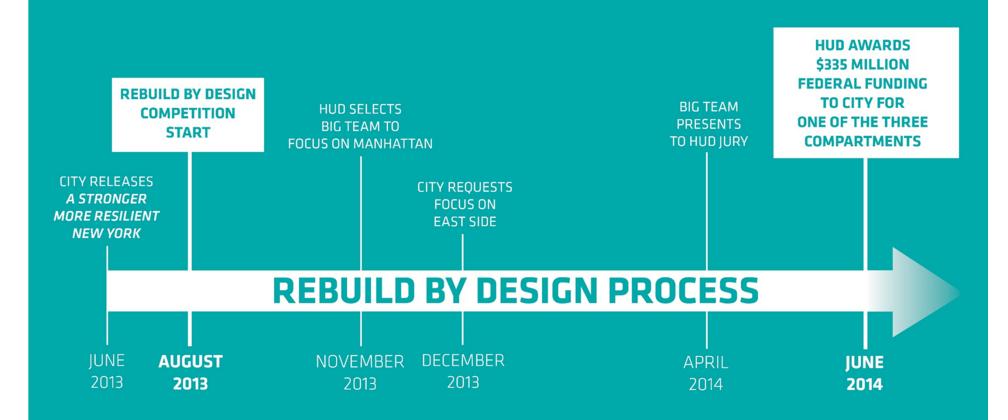


REBUILD BY DESIGN

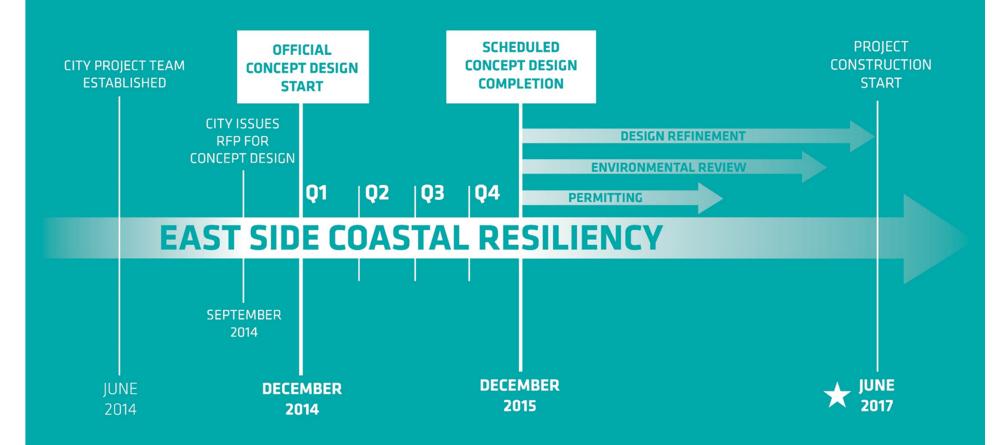




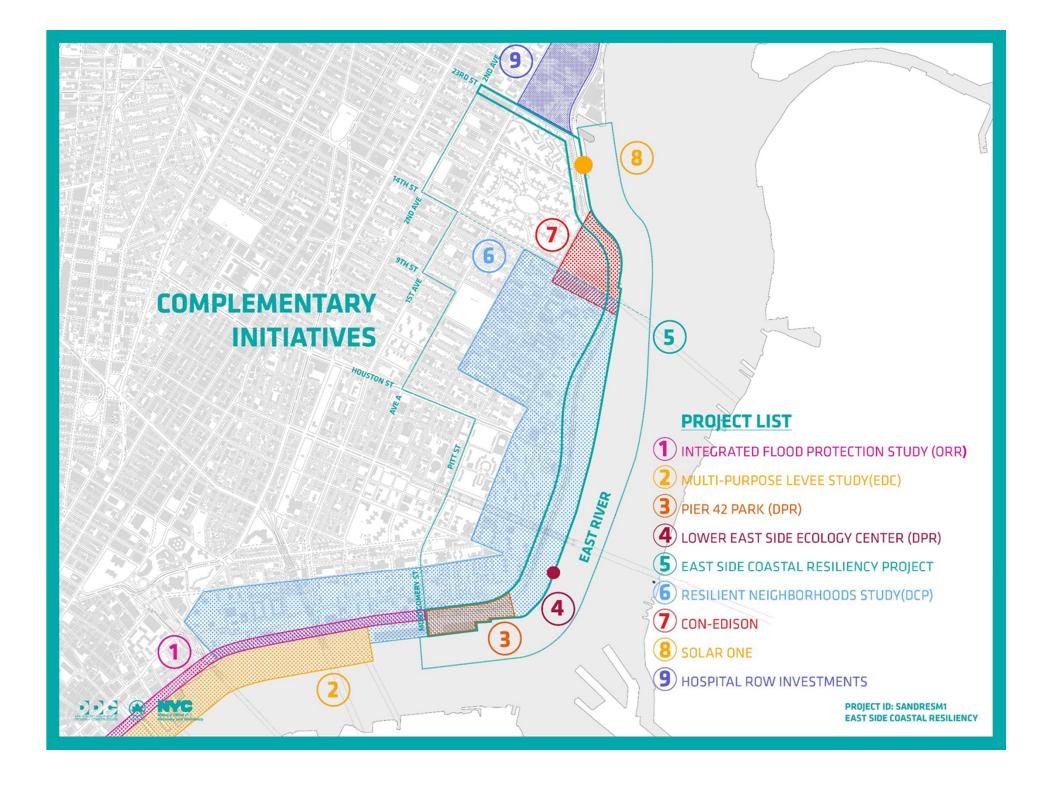












COMMUNITY ENGAGEMENT OBJECTIVES

- · Continue Public Engagement Begun with Rebuild by Design
- Enable and Facilitate Input from Community Stakeholders through Design
- Collaborate with Community to Establish Design Alternatives in Each Project Area
- Discuss & Balance Opportunities with Project Goals
- Make Team Available as a Resource for Community Planning





COMMUNITY

ENGAGEMENT

URBAN DESIGN

BIG

LEAD

STARR WHITEHOUSE

LANDSCAPE ARCHITECTURE

ONE ARCHITECTURE

PLANNING

IAMES LIMA P+D

PUBLIC POLICY

FITZGERALD & HALLIDAY

COMMUNITY ENGAGEMENT

ENGINEERING DESIGN

ARCADIS

FLOOD PROTECTION + MODELING

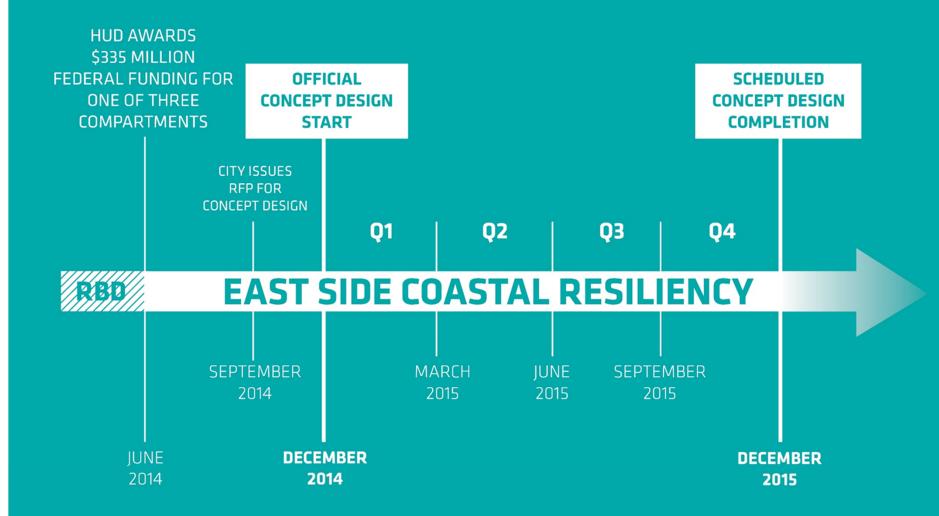
CH2MHILL

MARINE ENGINEERING

MATHEWS NIELSEN

LANDSCAPE ARCHITECTURE







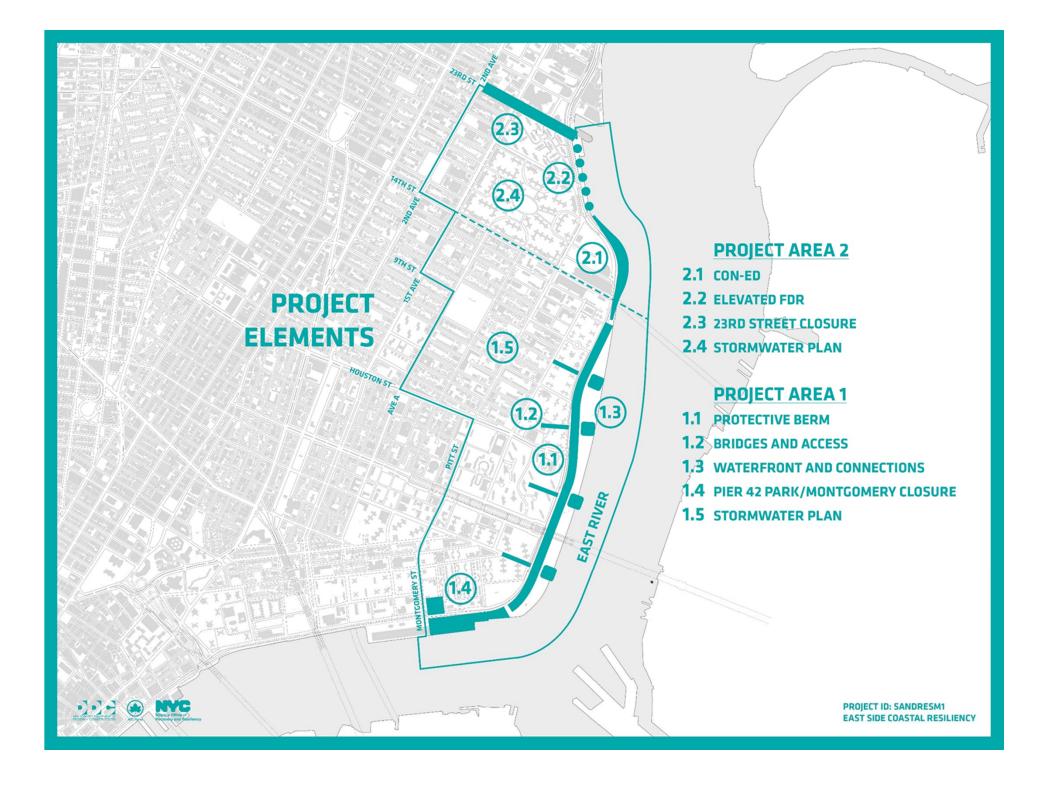


MAJOR DELIVERABLES











BELOW GROUND INVESTIGATION

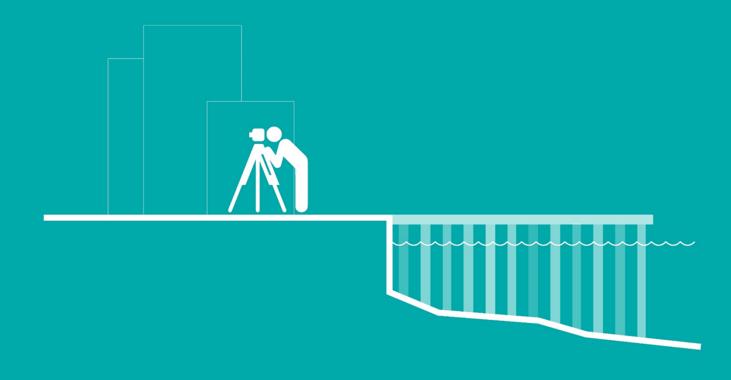
(AFFILIATED INITIATIVE DDC)

AUGUST 2014 - JULY 2015









LAND SURVEY

(AFFILIATED INITIATIVE DDC)

SEPTEMBER 2014 - FEBRUARY 2015



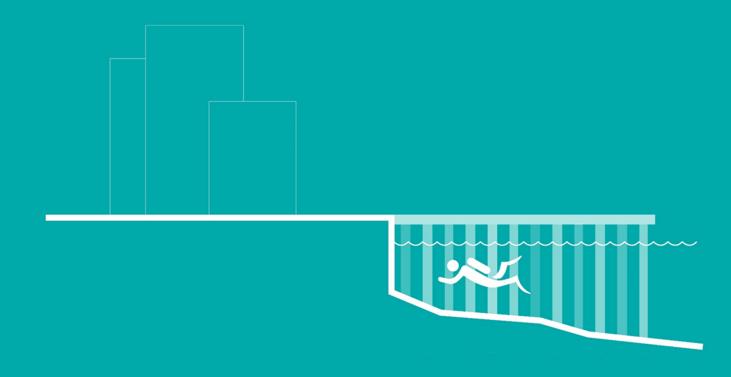






Q1 + Q2: SITE ANALYSIS / NEW DATA COLLECTION



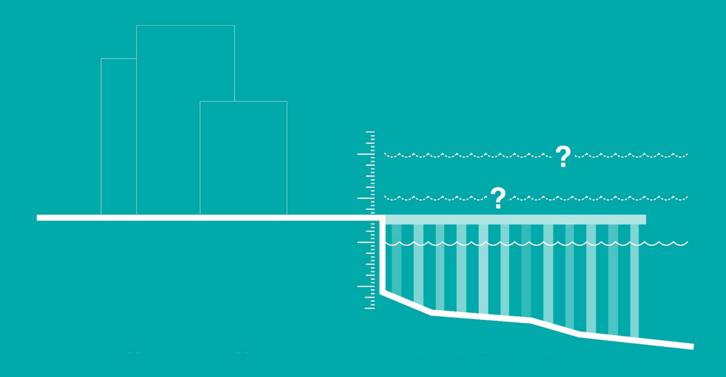


Q1: UNDERWATER INSPECTION OF WATERFRONT STRUCTURES

JANUARY - MARCH 2015







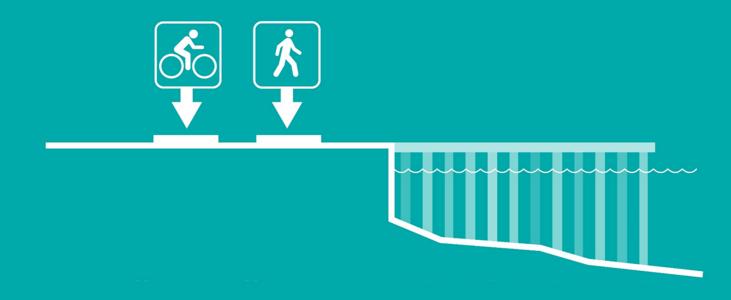
Q1 + Q2: HYDROLOGY AND FLOOD RISK ASSESSMENT





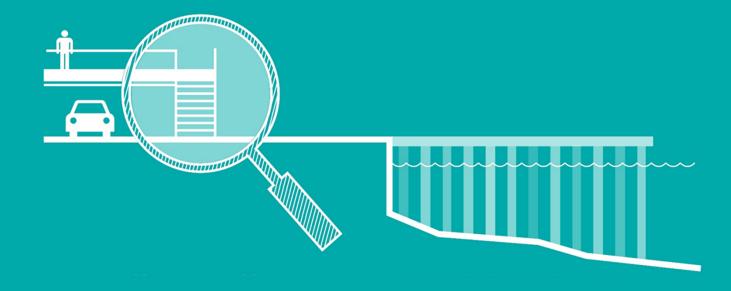
Q1 + Q2: SUBSURFACE EXPLORATION PROGRAM





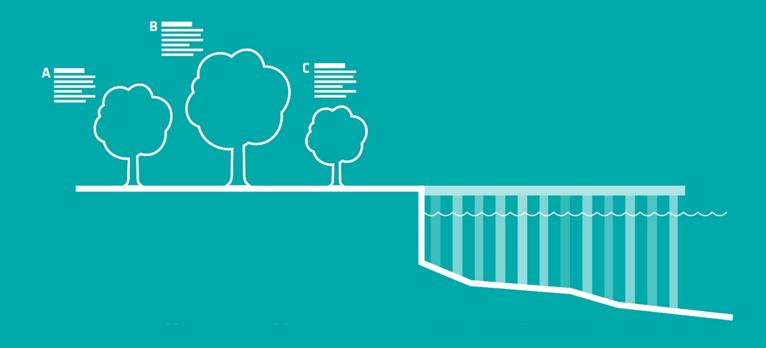
Q1 + Q2: PEDESTRIAN AND BICYCLE TRAFFIC STUDIES





Q1 + Q2: BRIDGE INSPECTIONS





Q1 + Q2: TREE INVENTORY





Q1: REVIEW AND INTEGRATION OF RELEVANT STUDIES

DECEMBER 2014 - MARCH 2015



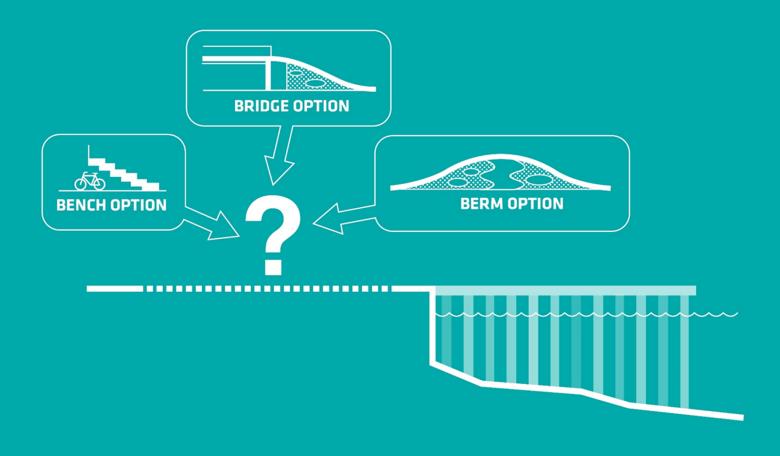






CONTINUAL PUBLIC INPUT





Q2+Q3+Q4: CONCEPT DESIGN DEVELOPMENT

MARCH - DECEMBER 2015



KEY ISSUES IDENTIFIED BY THE COMMUNITY DURING RBD

PEDESTRIAN BRIDGE CONNECTIONS

- Locations
- Landing Design
- Bridge Design

EAST RIVER PARK BIKEWAY/WALKWAY AND RECREATIONAL FACILITIES

- Addressing narrow segments
- Allowance for Emergency and Maintenance Access
- Programming and Connections

WATERFRONT VIEW CORRIDORS

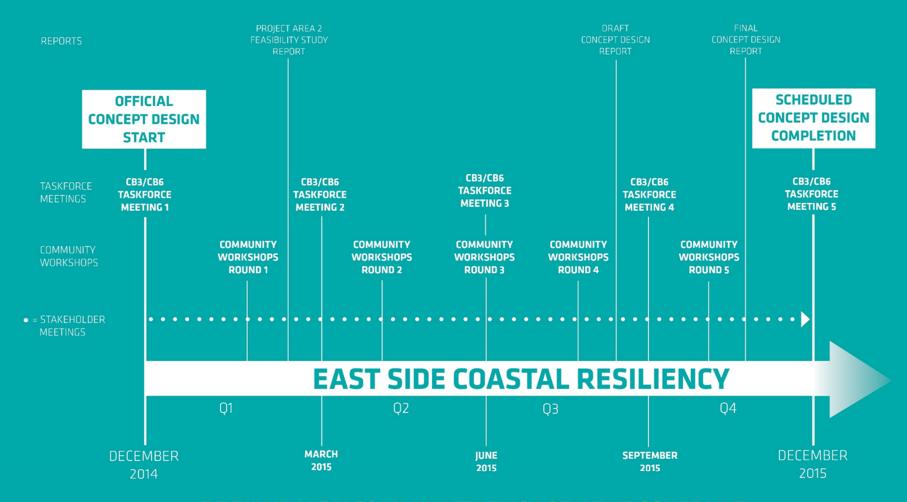
- Height and Width of Flood Protection Elements
- Finishes

PARK ECOLOGY

- Planting Plans
- Trees
- Upland Connections

NEW ISSUES...





PRELIMINARY COMMUNITY ENGAGEMENT SCHEDULE



ENGAGE COMMUNITY/ STAKEHOLDERS

2 COORDINATE WITH FEASIBILITY ANALYSIS

3 DETERMINE INPUT TO CONCEPT DESIGN

PRESENTATIONS AND

COMMUNITY-TEAM-CITY

- OVERARCHING DESIGN PRINCIPLES AND OBJECTIVES
- WHERE THE DESIGN COMPETITION WORK LEFT OFF
- KEY DESIGN OBJECTIVES FOR PROJECT AREAS ONE AND TWO
- ENGINEERING OBJECTIVES
- CONCEPT DESIGN ISSUES, INCLUDING NEED TO CONSIDER ALTERNATIVES

WORKSHOPS AND MEETINGS COMMUNITY

- INPUT THROUGH ENGAGEMENT SESSIONS
- PUBLIC AND STAKEHOLDER
 NEEDS
- PRIORITIES FOR CONSIDERATION IN CONCEPT DESIGN

INTERNAL MEETINGS TEAM

- · OPTIONS AND ALTERNATIVES
- · ENGINEERING FEASIBILITY
- BENEFIT/COST IMPLICATIONS
- TARGETED DESIGN CONCEPTS

COORDINATION AND UPDATE MEETINGS CITY

- DESIGN RECOMMENDATIONS
- DESIGN OBJECTIVES FOR PROJECT AREA
- EVALUATE COMMUNITY
 PRIORITIES VS. OPPORTUNITIES
 AND CONSTRAINTS

FINAL CONCEPT DESIGN

COMMUNITY-TEAM-CITY

- BALANCE COMMUNITY PRIORITIES WITH OPPORTUNITIES AND CONSTRAINTS
- · RISK MITIGATION
- URBAN IMPACT + QUALITY OF LIFE
- COST



COMMUNITY ENGAGEMENT / CONCEPT DESIGN







HOUSING?

GROUP

ORGANIZATIONS COMMUNITY GROUPS CITY AGENCIES

ENVIRONMENT?

GROUP

ORGANIZATIONS COMMUNITY GROUPS CITY AGENCIES

GROUP

ORGANIZATIONS COMMUNITY GROUPS CITY AGENCIES

PLANNING?

GROUP

ORGANIZATIONS COMMUNITY GROUPS CITY AGENCIES

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ORGANIZATIONS COMMUNITY GROUPS CITY AGENCIES

GROUP

ORGANIZATIONS COMMUNITY GROUPS CITY AGENCIES

POLICY?

GROUP

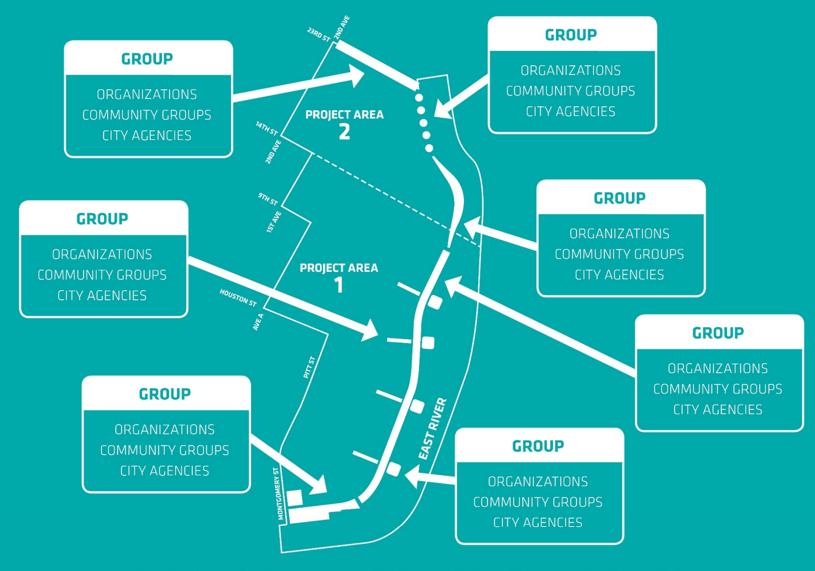
ORGANIZATIONS COMMUNITY GROUPS CITY AGENCIES

KEY COMMUNITY / STAKEHOLDERS WORKING GROUPS









KEY COMMUNITY / STAKEHOLDERS WORKING GROUPS













OFFICIAL **CONCEPT DESIGN** START

SCHEDULED **CONCEPT DESIGN COMPLETION**

U	RBAN	
D	ESIGN	

Q1	Q2	Q3	Q4
STAKEHOLDER MTGS	STAKEHOLDER MTGS	STAKEHOLDER MTGS	STAKEHOLDER MTGS
INITIAL ENGAGEMENT MTGS	ENGAGEMENT MTGS/ DESIGN WORKSHOPS	DESIGN WORKSHOPS	SHARE DESIGN RESULTS
	IMAGINE ALTERNATIVES ESTABLISH PRIORITIES	PRESENT ALTERNATIVES RECEIVE FEEDBACK DISCUSS PRIORITIES	SHOW EFFECT OF FEEDBACK SHOW COST-RISK COMPARISONS OPERATIONS AND MAINTENANCE

COMMUNITY ENGAGEMENT

ENGINEERING DESIGN

DATA GATHERING INSPECTION & TESTING (STRUCTURAL, GEOTECHNICAL, UTILITIES, TRAFFIC) HYDROLOGY STUDIES FLOOD/RISK ASSESSMENT PROJECT AREA 2 FEASIBILITY STUDY	FINAL HYDROLOGY AND FLOOD RISK REPORT COMPLETE FEASIBILITY STUDY PROJECT AREA 2 DEVELOP PROJECT AREA 1 AND 2 ALTERNATIVES	REFINE ALTERNATIVE DRAFT CONCEPT DESIGN REPORT	FINAL CONCEPT DESIGN COST-RISK-IMPACT ANALYSIS OPERATIONS & MAINTENANCE ANALYSIS

DECEMBER 2014

DECEMBER 2015









QUESTIONS / DISCUSSION





