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

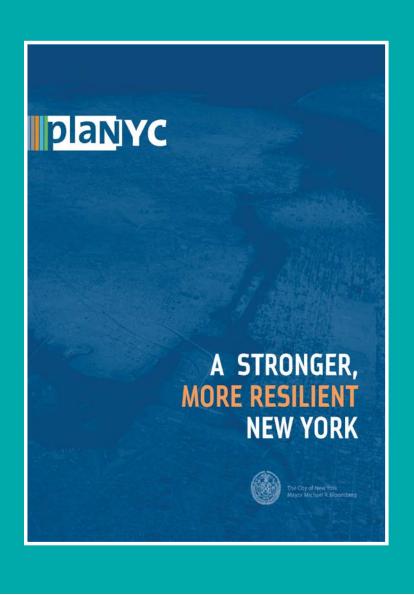






A STRONGER, MORE RESILIENT NEW YORK

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







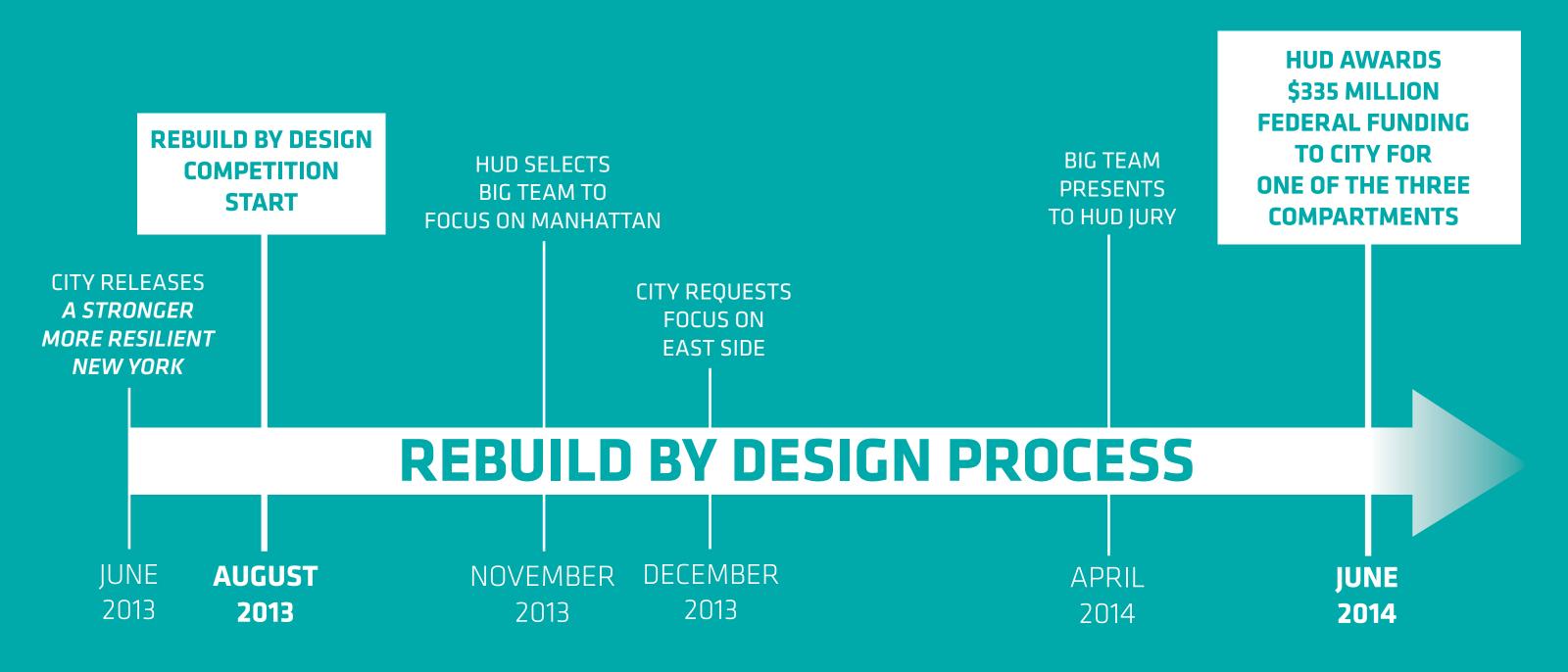


REBUILD BY DESIGN





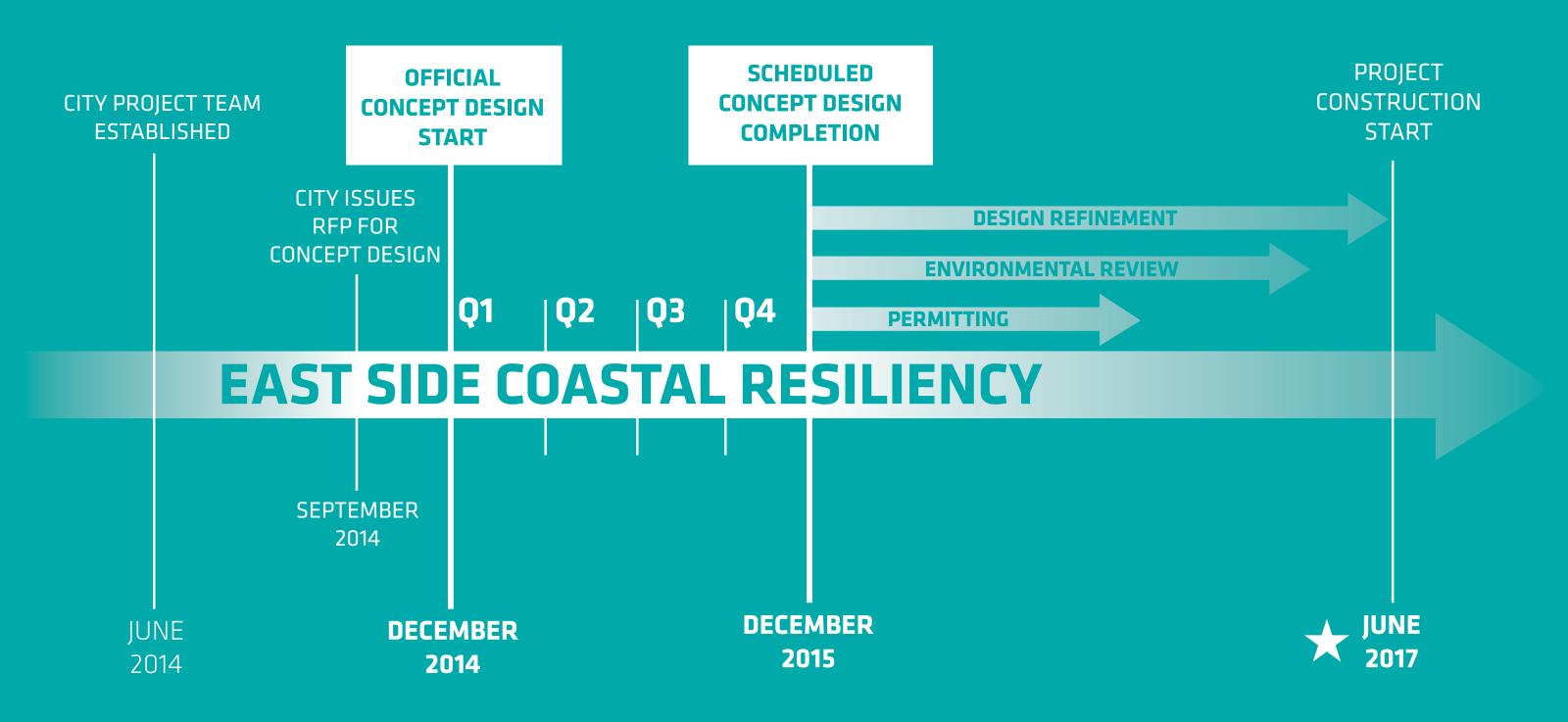








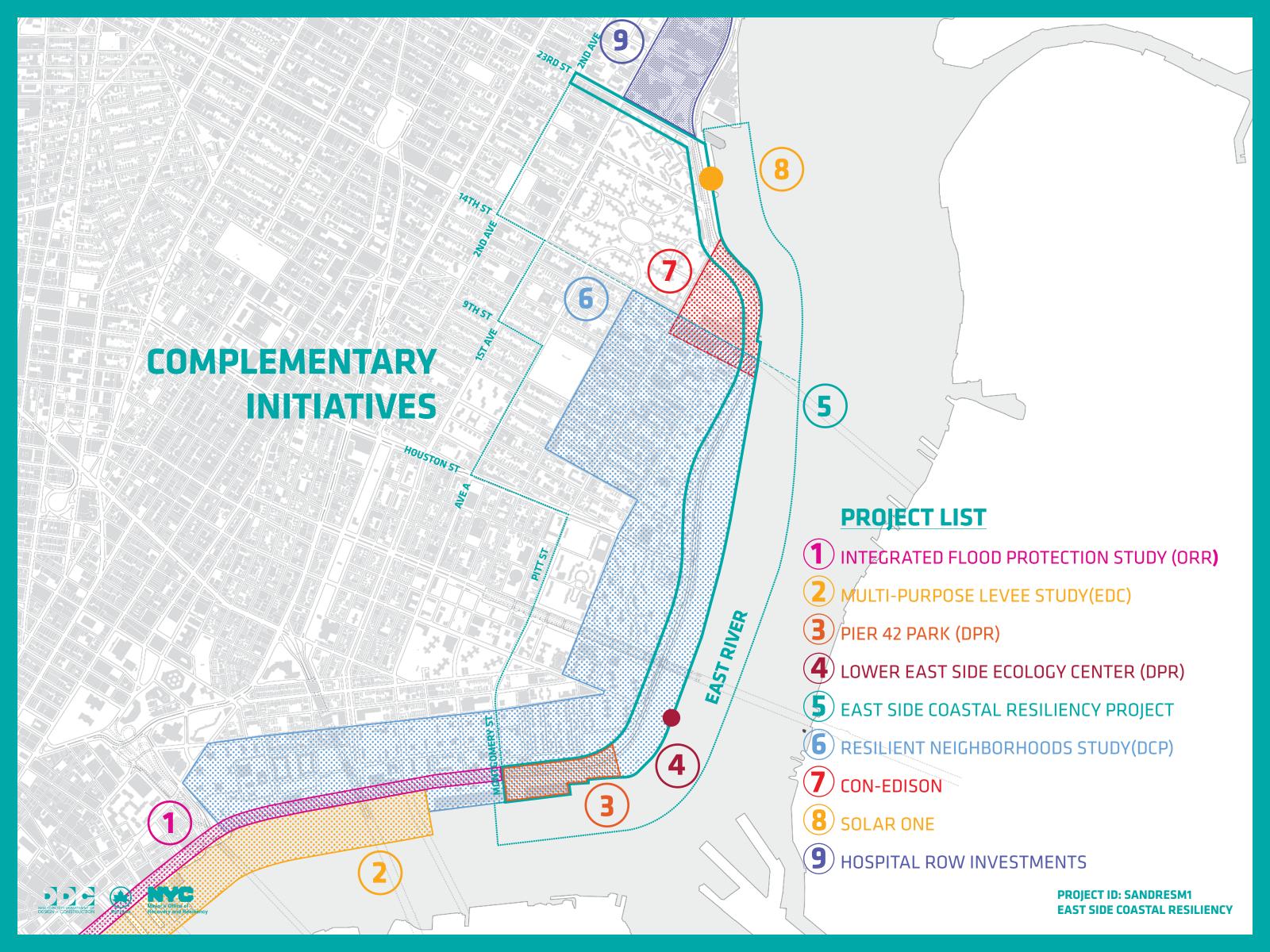












COMMUNITY ENGAGEMENT OBJECTIVES

- 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

CITY DDC / DPR / ORR MANAGING LEAD AKRF

ENGAGEMENT

URBAN DESIGN

BIG

LEAD

STARR WHITEHOUSE

LANDSCAPE ARCHITECTURE

ONE ARCHITECTURE

PLANNING

JAMES LIMA P+D

PUBLIC POLICY

FITZGERALD & HALLIDAY

COMMUNITY ENGAGEMENT



CH2MHILL

ENGINEERING

MARINE ENGINEERING

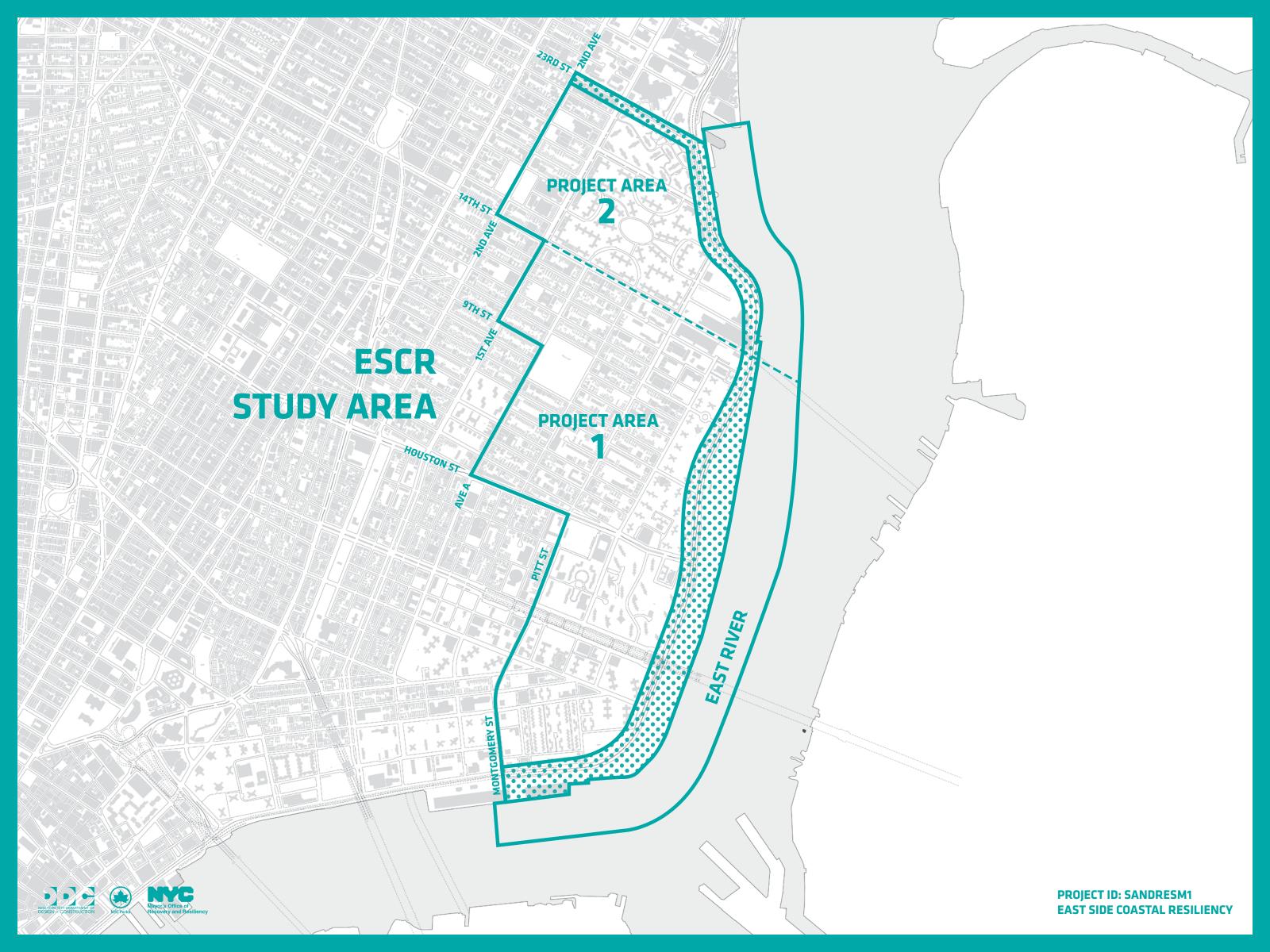
MATHEWS NIELSEN

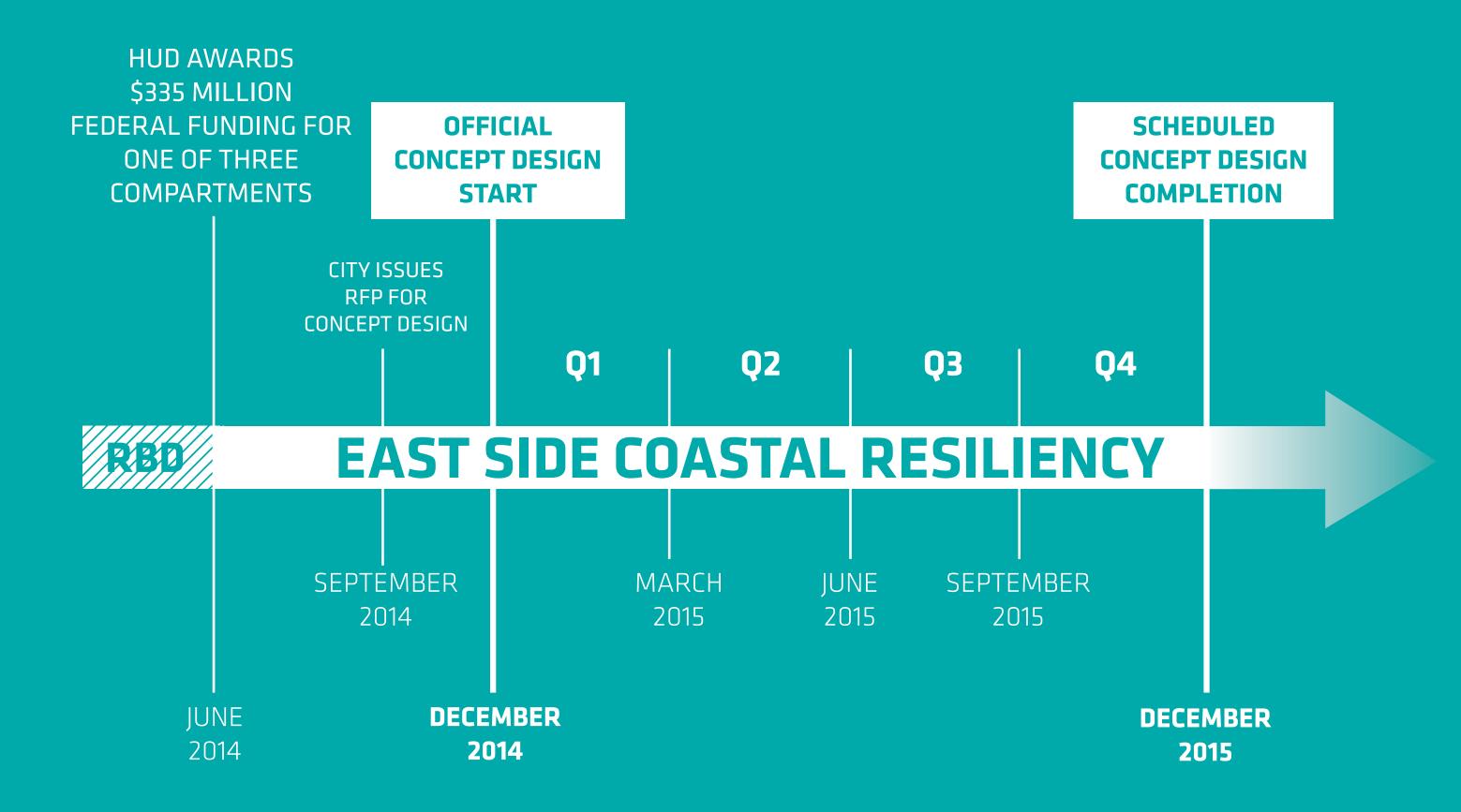
LANDSCAPE ARCHITECTURE







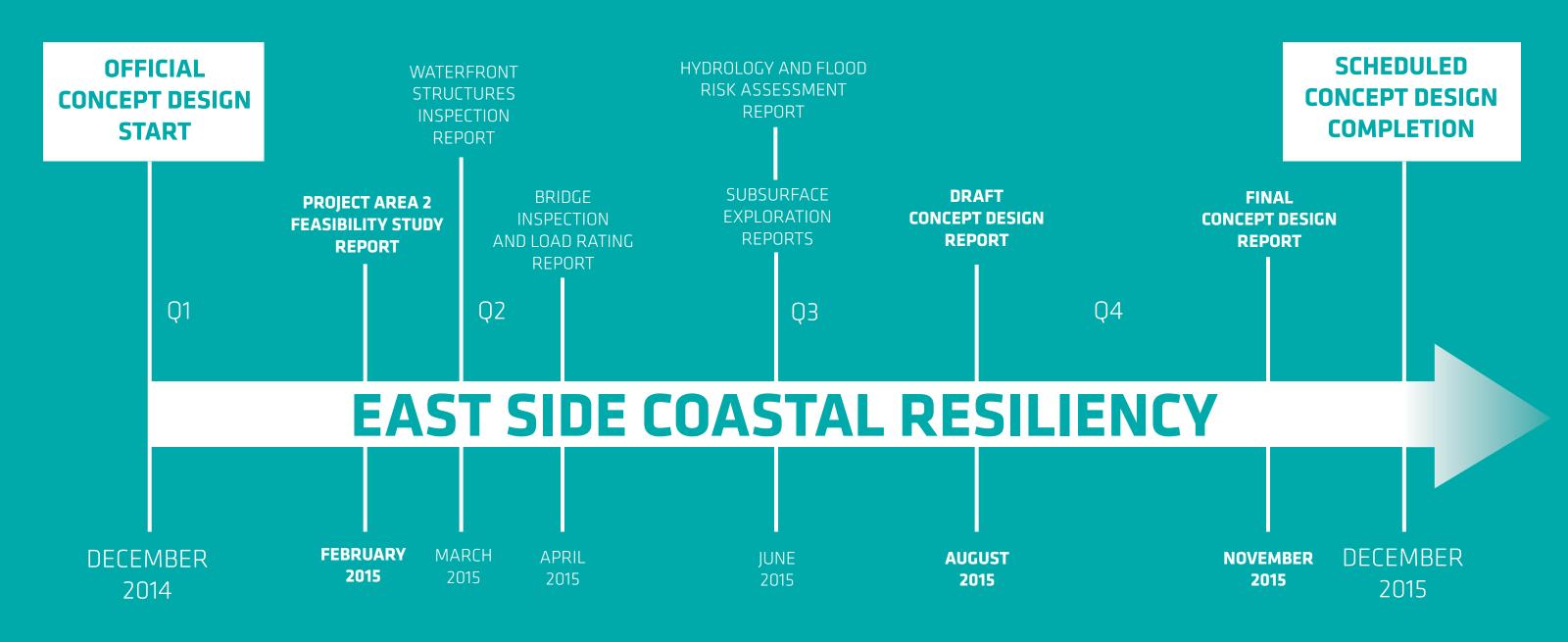










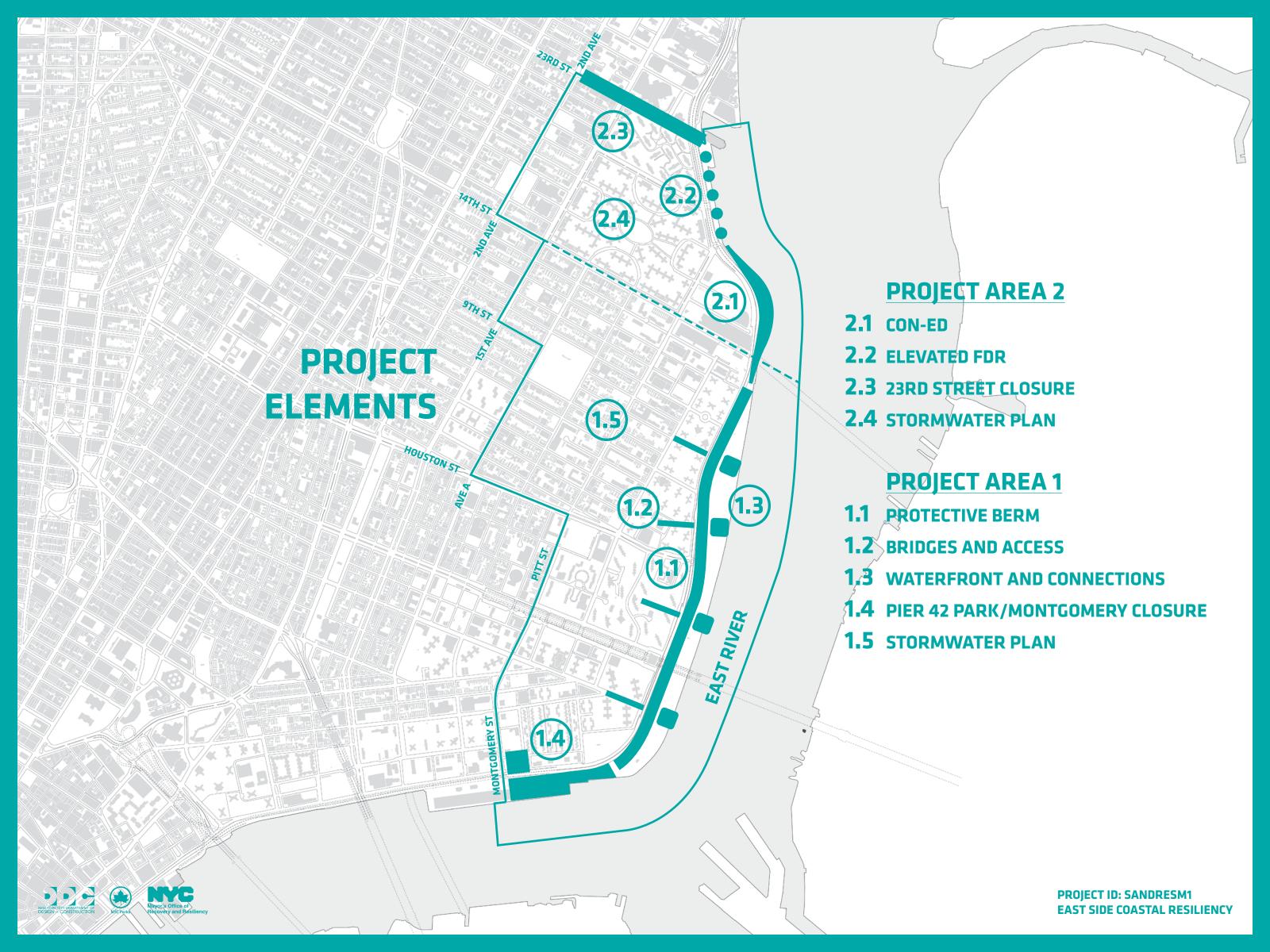


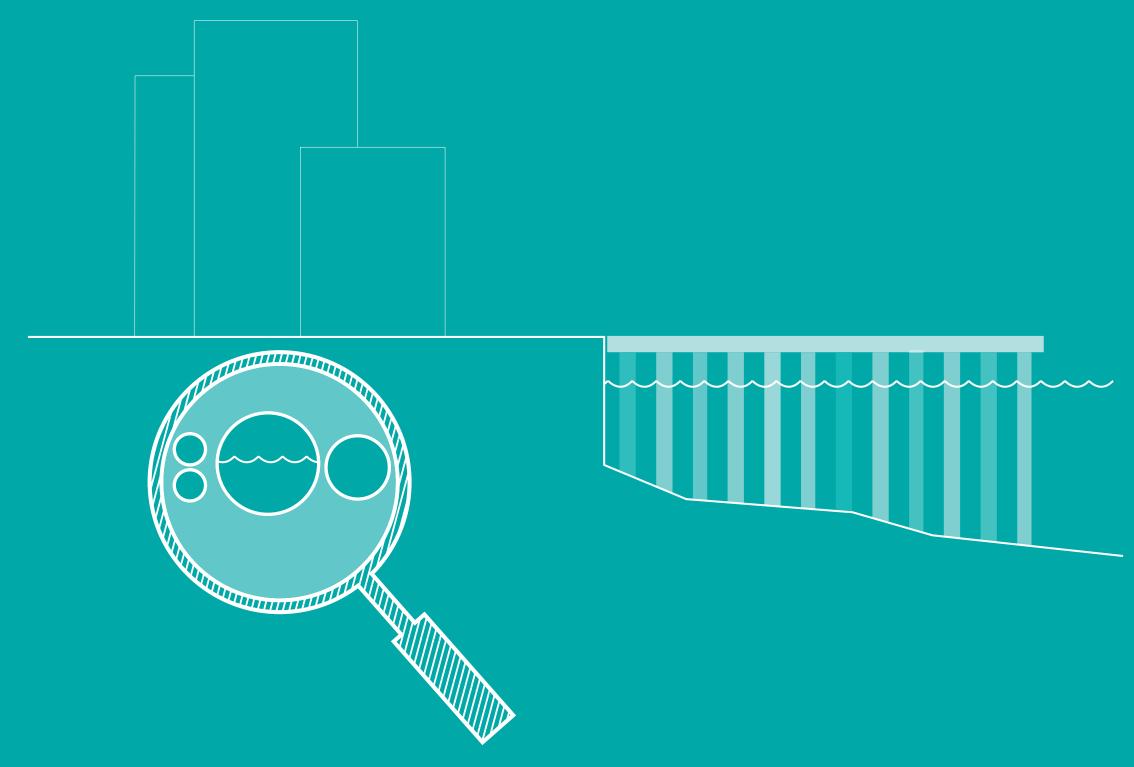
MAJOR DELIVERABLES











BELOW GROUND INVESTIGATION

(AFFILIATED INITIATIVE DDC)

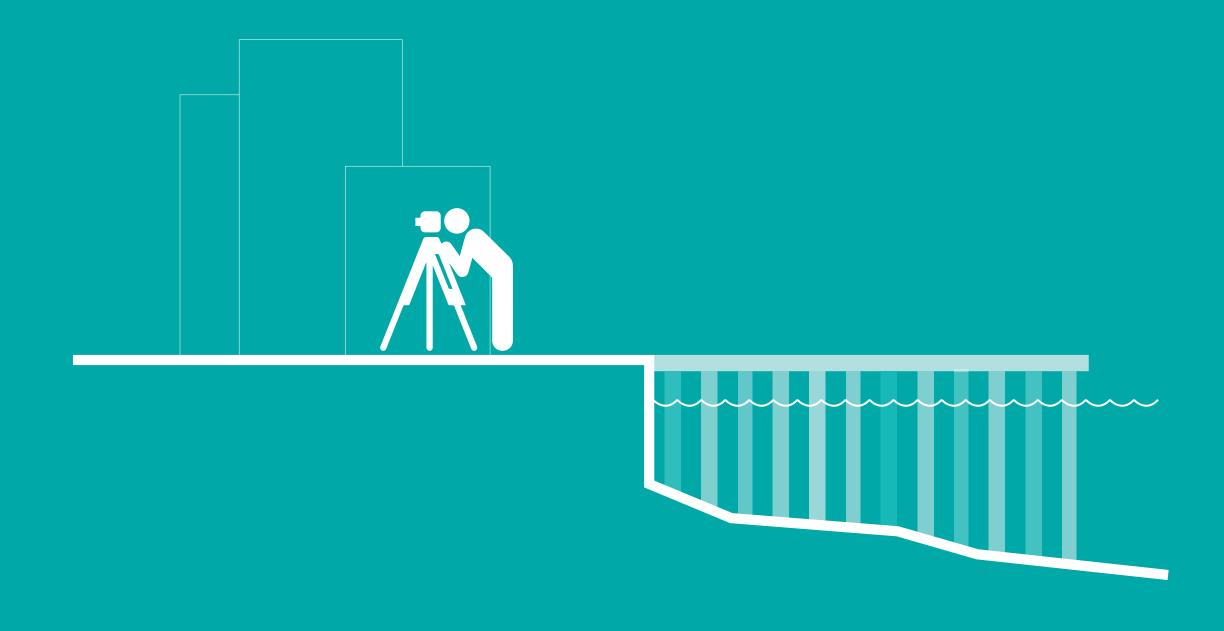
AUGUST 2014 - JULY 2015











LAND SURVEY

(AFFILIATED INITIATIVE DDC)

SEPTEMBER 2014 - FEBRUARY 2015







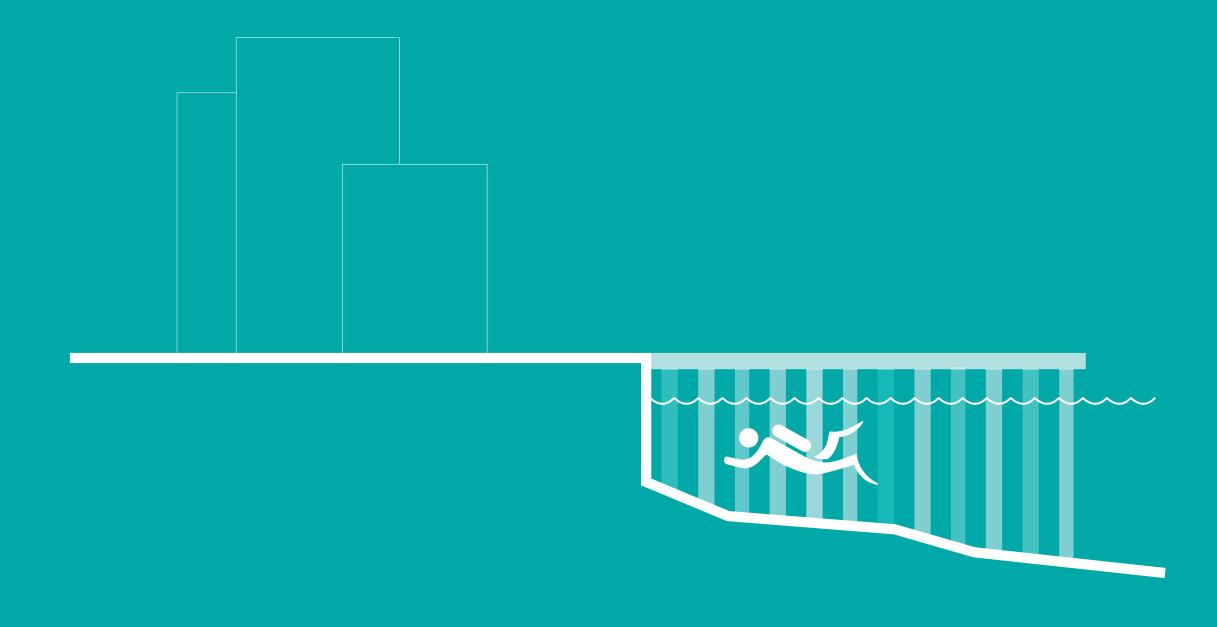


Q1 + Q2: SITE ANALYSIS / NEW DATA COLLECTION









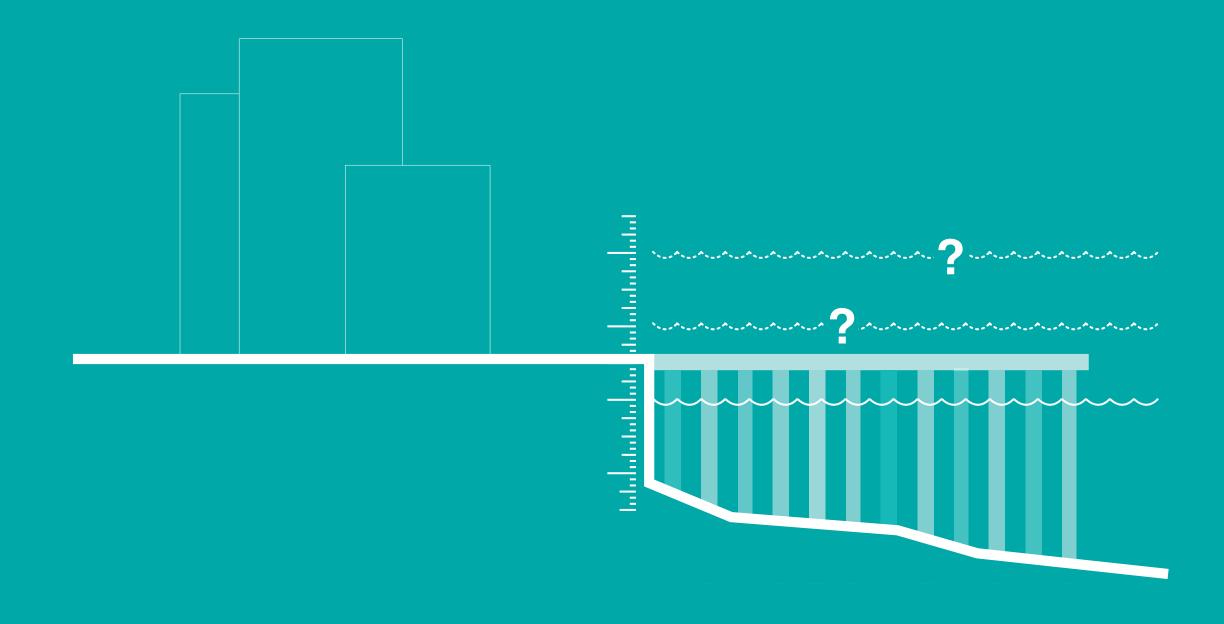
Q1: UNDERWATER INSPECTION OF WATERFRONT STRUCTURES

JANUARY - MARCH 2015







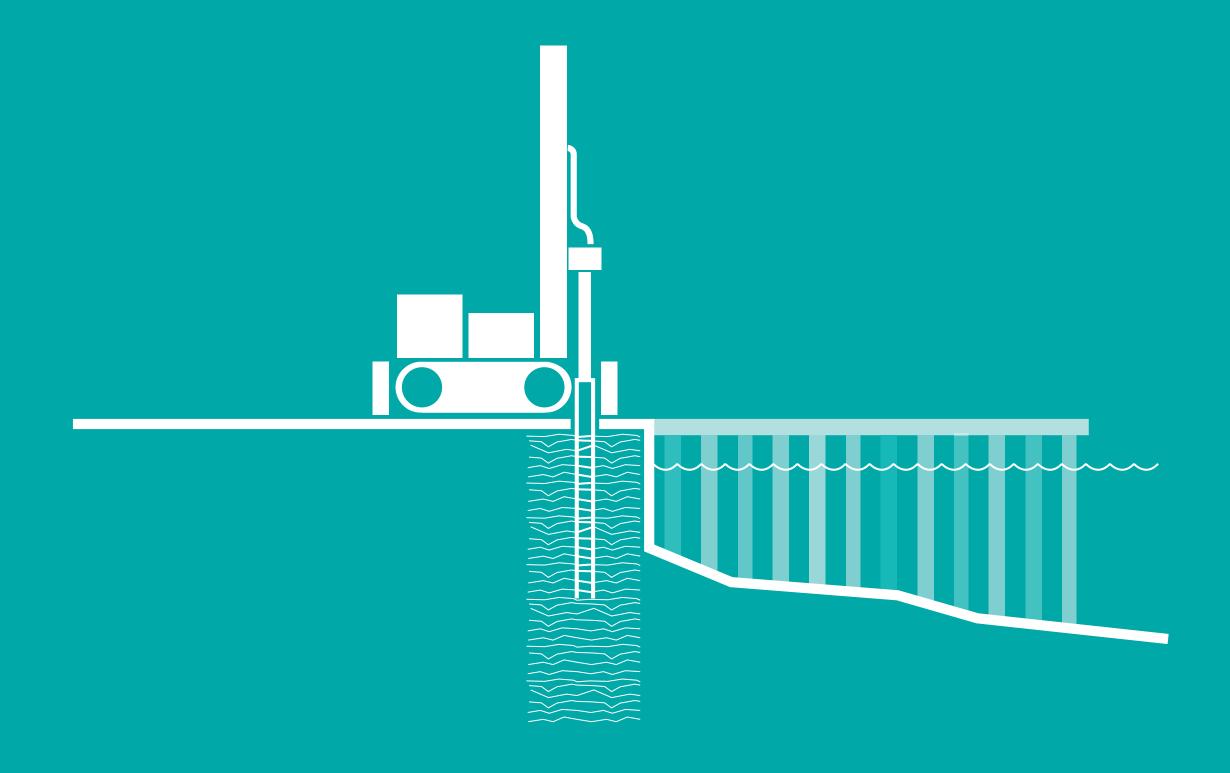


Q1 + Q2: HYDROLOGY AND FLOOD RISK ASSESSMENT







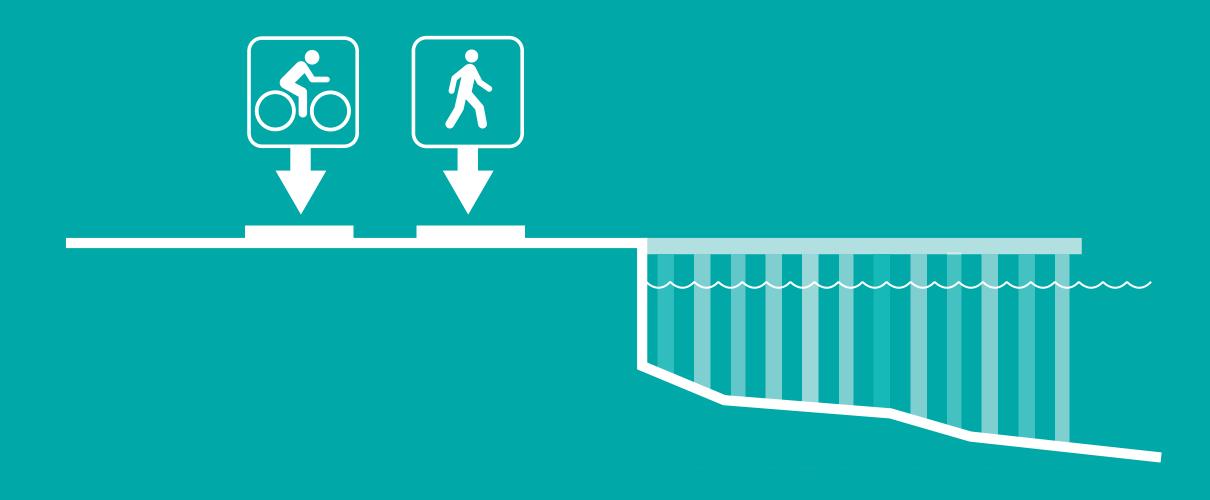


Q1 + Q2: SUBSURFACE EXPLORATION PROGRAM







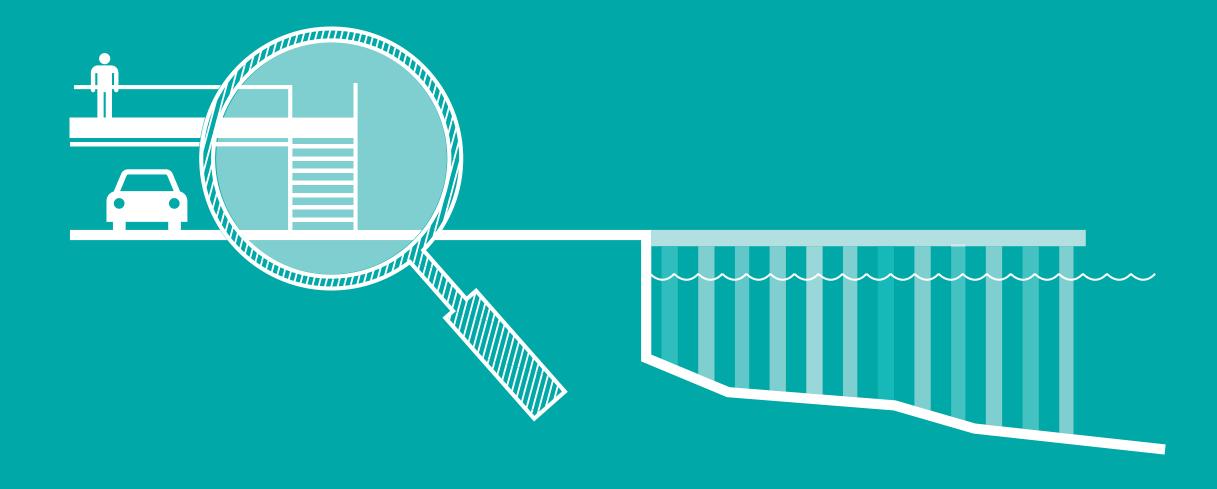


Q1 + Q2: PEDESTRIAN AND BICYCLE TRAFFIC STUDIES







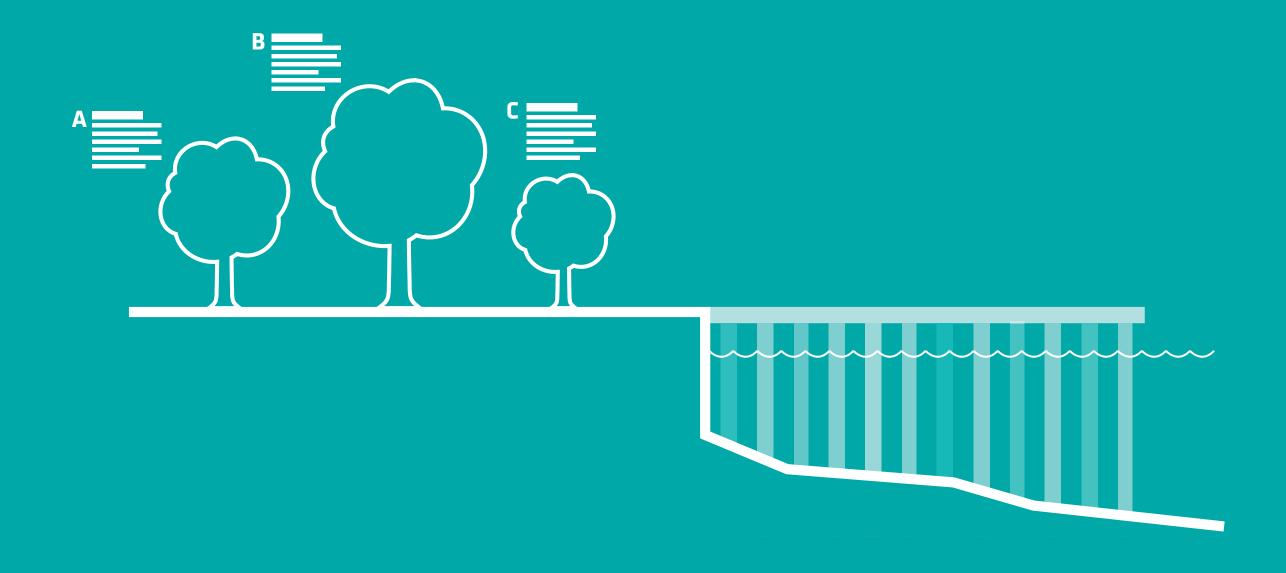


Q1 + Q2: BRIDGE INSPECTIONS









Q1 + Q2: TREE INVENTORY









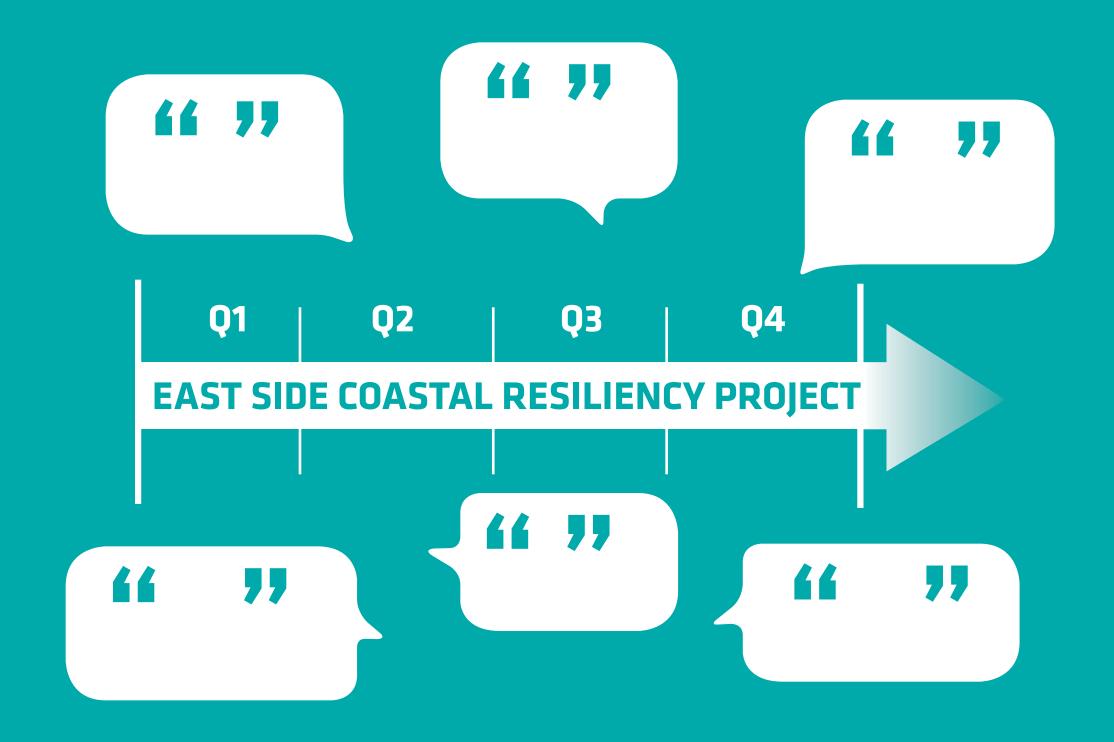
Q1: REVIEW AND INTEGRATION OF RELEVANT STUDIES

DECEMBER 2014 - MARCH 2015









CONTINUAL PUBLIC INPUT







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

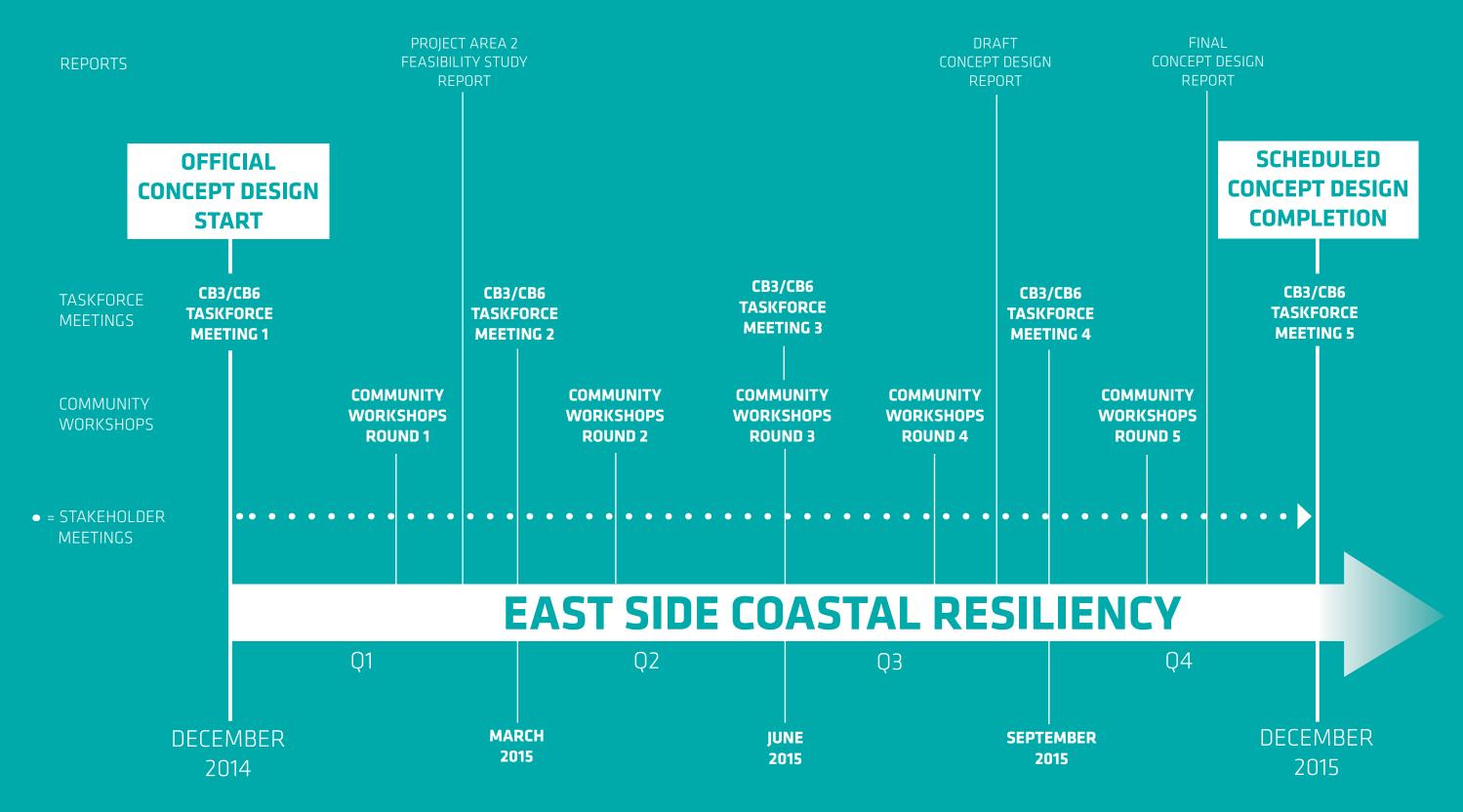
- Planting Plans
- Trees
- Upland Connections

NEW ISSUES...







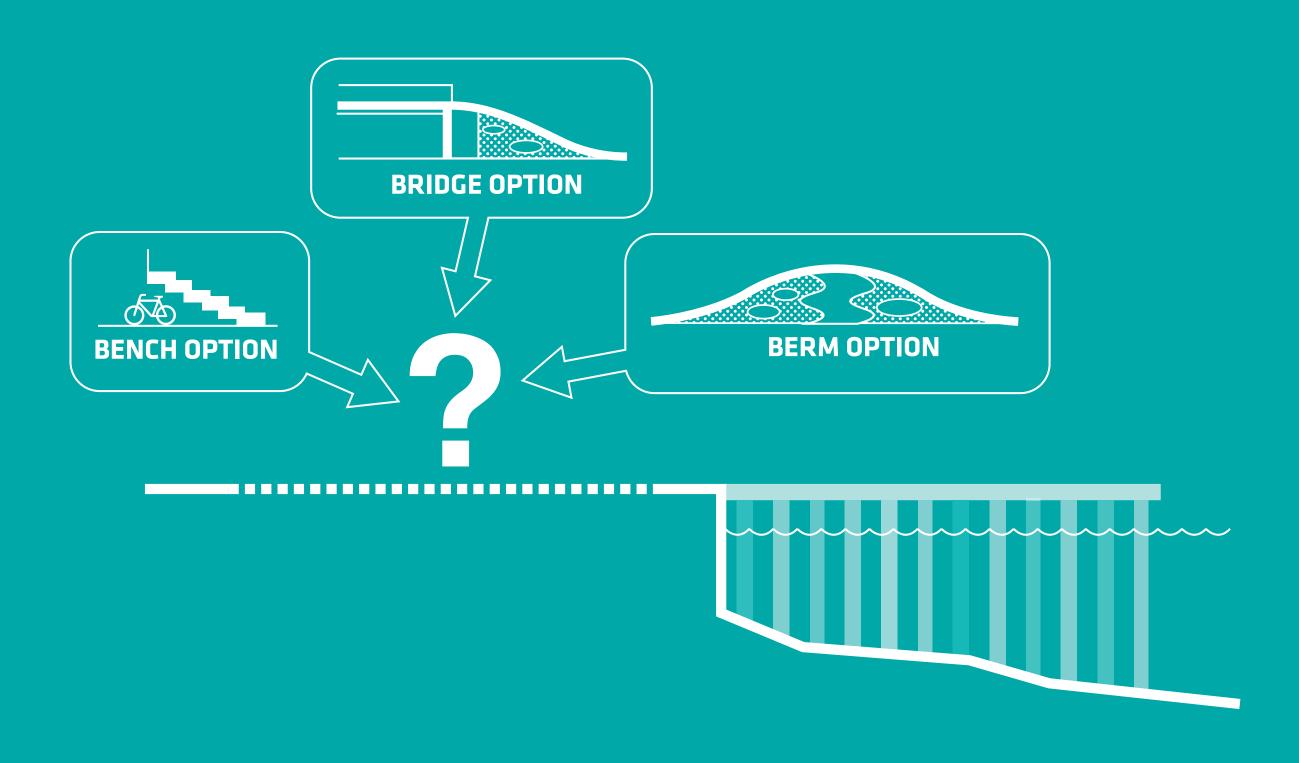


PRELIMINARY COMMUNITY ENGAGEMENT SCHEDULE









Q2+Q3+Q4: CONCEPT DESIGN DEVELOPMENT

MARCH - DECEMBER 2015







1 ENGAGE COMMUNITY/ STAKEHOLDERS

2 COORDINATE WITH FEASIBILITY ANALYSIS

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
- 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

GROUP

ORGANIZATIONS
COMMUNITY GROUPS
CITY AGENCIES

GROUP

ORGANIZATIONS
COMMUNITY GROUPS
CITY AGENCIES

POLICY?

GROUP

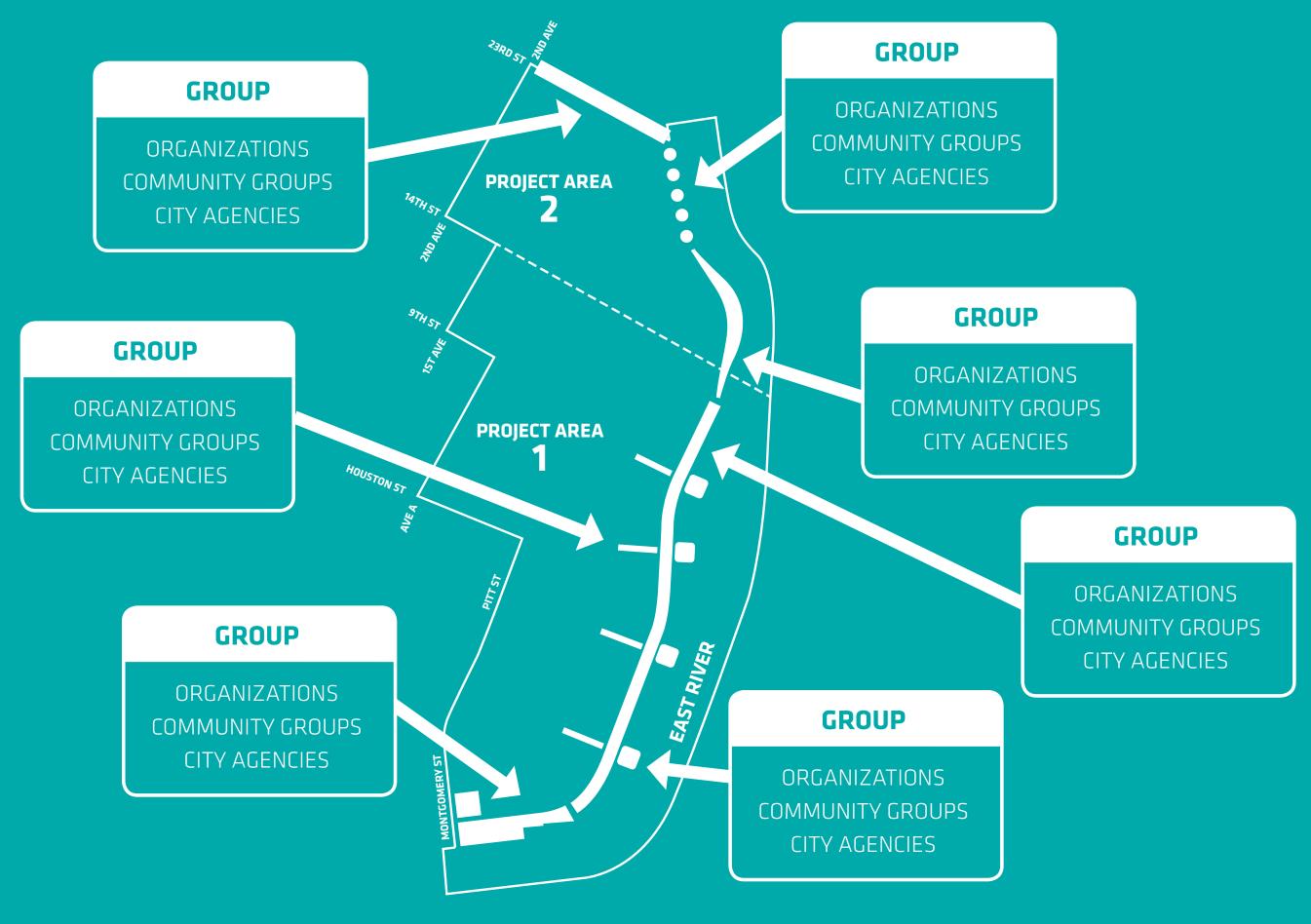
ORGANIZATIONS
COMMUNITY GROUPS
CITY AGENCIES

KEY COMMUNITY / STAKEHOLDERS WORKING GROUPS









KEY COMMUNITY / STAKEHOLDERS WORKING GROUPS















URB	AN
DES	GN

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,	FINAL HYDROLOGY AND FLOOD RISK REPORT	REFINE ALTERNATIVE DRAFT CONCEPT	FINAL CONCEPT DESIGN COST-RISK-IMPACT ANALYSIS
	COMPLETE EFACIBILITY		ODED ATIONIC C MAINTENANCE
UTILITIES, TRAFFIC)	COMPLETE FEASIBILITY	DESIGN REPORT	OPERATIONS & MAINTENANCE
	STUDY PROJECT AREA 2		ANALYSIS
HYDROLOGY STUDIES			
FLOOD/RISK ASSESSMENT	DEVELOP PROJECT AREA		
	1 AND 2 ALTERNATIVES		
PROJECT AREA 2			
FEASIBILITY STUDY			

DECEMBER 2014

DECEMBER 2015









QUESTIONS / DISCUSSION





