Understanding Risk 2016
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A STRONGER, MORE RESILIENT NEW YORK
SIRR REPORT RECOMMENDS MANHATTAN, 8 CONTINUOUS MILES OF INTEGRATED COASTAL PROTECTION!
RESILIENCY INFRASTRUCTURE + PEOPLE!
RESILIENCY INFRASTRUCTURE + PROGRAM

HUD - Rebuild by Design
A TAILORED APPROACH TO TRADITIONAL INFRASTRUCTURE: DIVERSITY!
THE BRIDGING BERM
NEW TOPOGRAPHY AND VISTAS OVER PARK
FLIP-DOWN DEPLOYABLE ART
A NEW BAND OF PUBLIC SPACE ALONG THE WATERFRONT!
THE STORM
PANELS DEPLOYED IN PLACE PRIOR TO EVENT
SOUTH STREET PAVILIONS

FLEXIBLE PROGRAMMING ON FLOODSIDE!
STORM
GATES CLOSED, FURNITURE REMOVED
GATES
VIEWS MAINTAINED TO WATER
STORM APPROACHING...
PREPARATIONS MADE...
Arcadis, proposal for NY Flood protection
A TAILORED APPROACH TO TRADITIONAL INFRASTRUCTURE: DIVERSITY!
WHAT IF, LIKE A SHIP'S HULL, THE CITY'S PROTECTION COULD ACTUALLY BE COMPARTMENTALIZED...
The Big U - Resilient Neighborhoods

Evacuation and preparation could be organized on a community level.

Smart monitoring can identify if particular neighborhoods should be evacuated in the case of a storm event.

Neighboring cells could provide safety to each other in event of breach.

HUD - Rebuild by Design
THE BIG U - RESILIENT NEIGHBORHOODS

PRIVATE/PUBLIC INVESTMENTS COULD BE FLEXIBLY ORGANIZED
THE BIG U - FROM BIG U TO SMALL Us

SMALLER Us MEANS SMALLER AREAS AND MANAGEABLE SCALES
THE BIG U - EAST SIDE COASTAL RESILIENCY (ESCR)

COMPARTMENTS CAN BE DEVELOPED SEPARATELY AS FUNDING BECOMES AVAILABLE

HUD/NDRC

$335,000,000
THE BIG U - EAST SIDE COASTAL RESILIENCY (ESCR)

SMALLER Us ALLOW BETTER COMMUNITY ENGAGEMENT
THE BIG U - EAST SIDE COASTAL RESILIENCY (ESCR)

SMALLER Us GET BETTER SUPPORT FROM LOCAL PLAYERS
THE BIG U - EAST SIDE COASTAL RESILIENCY (ESCR)

SMALL Us BLEND IN BETTER WITH ONGOING EFFORTS

HUD - Rebuild by Design
THE BIG U – BUILDING UP FROM SMALL Us

SMALLER Us GROW INTO LARGER Us AT A MANAGEABLE PACE
THE BIG U - LOWER MANHATTAN COASTAL RESILIENCY (LMCR)
THE BIG U - ACHIEVING GRAND VISION
INCREMENTAL PLANNING AND LONG TERM OPPORTUNITIES

With the momentum and urgency post-Sandy, this easily implementable flood- and stormwater protection is designed as a first step in the longer-term transformation of the (Lower East Side) waterfront.

Design elements anticipate and allow for the accommodation of future needs and opportunities: more extreme weather patterns and continued sea level rise, developments in mobility, changes in environmental law, community- and affordable housing needs.

Many issues are complex and unpredictable, and it is important to have a first project in place soon. The Big-U concept proposes a robust first step and a continued exploration of these long-term needs and opportunities.
ECOLOGY

Improving the waterside ecology and expanding the waterfront park structure by building into the water.

SEA-LEVEL RISE

Anticipating increased design heights of the levee/berm system.

INTEGRATION

Integrating future infrastructural needs on the waterside.
**MOBILITY**

**SUSTAINABILITY**
Re-thinking parking, bike, and passive energy infrastructure.

**TRANSIT**
Enhancing transit such as light-rail or BRT systems.

**FDR**
Integrating a buried F.D.R. into a berm and increasing waterfront parkspace.