

December 2, 2015

A NEW ERA OF WATERFRONTS

Lessons from Research and Practice

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S A S A K I

ARCHITECTURE
civil engineering
graphic design
INTERIOR DESIGN

URBAN **SASAKI** CAMPUS

landscape architecture
PLANNING
strategies
urban design

CEDAR RAPIDS, IOWA



BRIDGEPORT, CT



CINCINNATI, OH



An exhibition curated by
Sasaki Associates
In partnership with the
Boston Architectural College
On view at District Hall
75 Northern Avenue
Boston, MA 02210
April 7–June 13 2014

SEA CHANGE BOSTON examines the city's vulnerabilities
to sea level rise and demonstrates design strategies
for resilience.

SEA CHANGE BOSTON

NEW YORK RISING

MASSAPEQUAS
STONY POINT
RYE



CHANGING COURSE

MANAGED DISTRIBUTARIES

A LAND-BUILDING APPROACH THAT HARNESSSES THE
MISSISSIPPI RIVER'S FULL POTENTIAL



REBUILD BY DESIGN



LESSONS LEARNED

THINK BIGGER

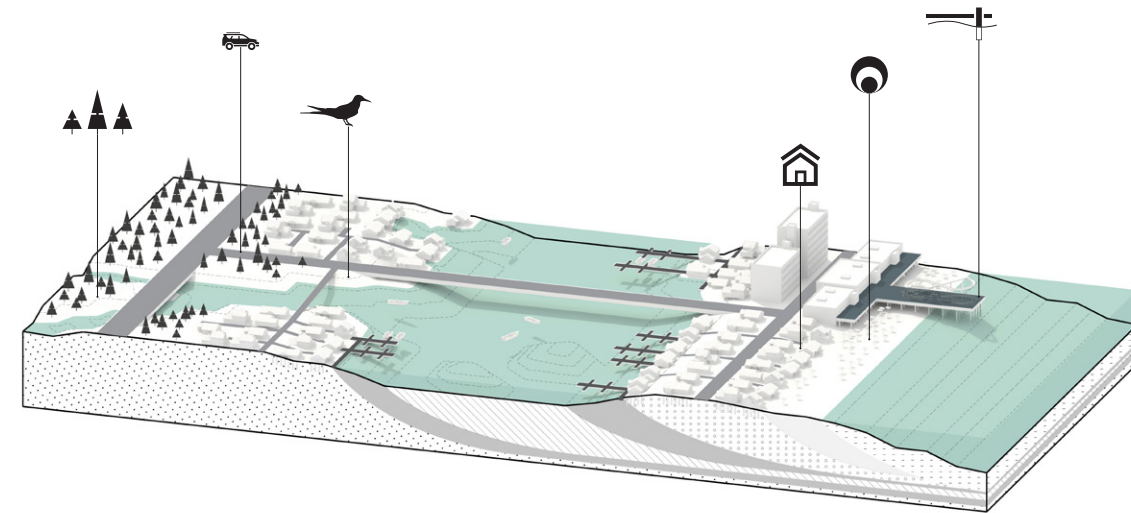
 YOUR ECOLOGIST

EXPECT THE UNEXPECTED

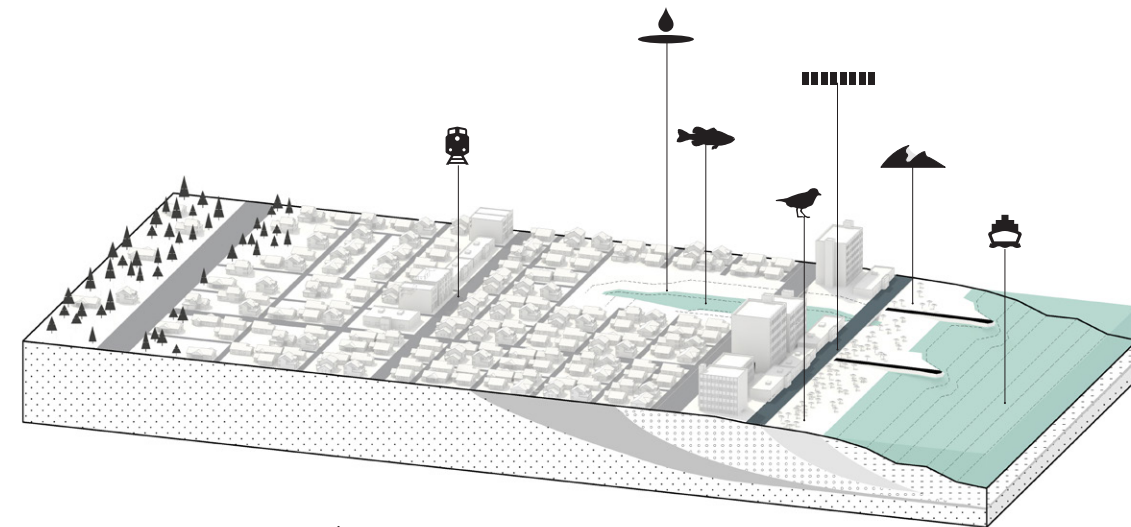
THINK BIGGER
WATER IS REGIONAL

THREE COASTAL TYPOLOGIES

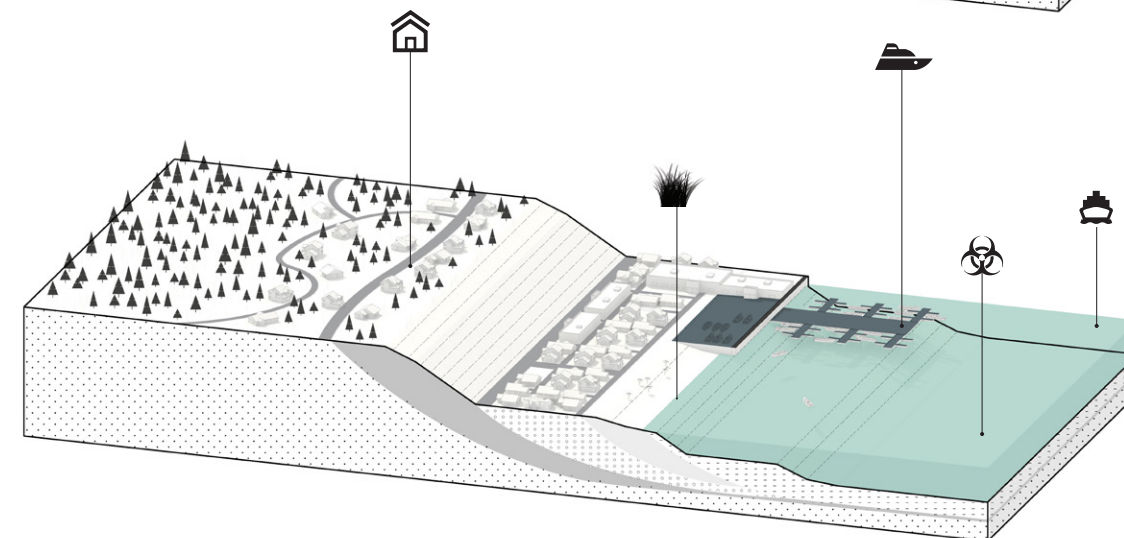
BARRIER ISLAND



HEADLANDS



INLAND BAY



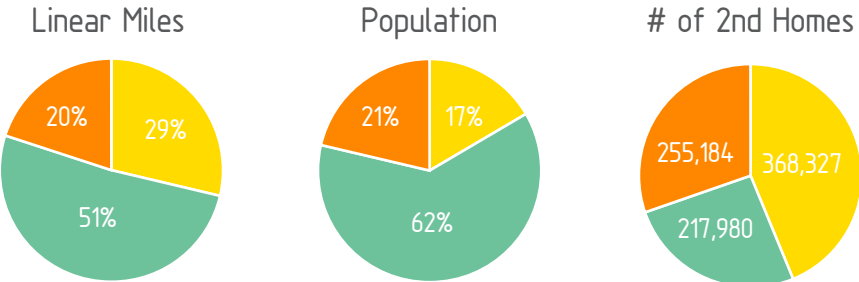
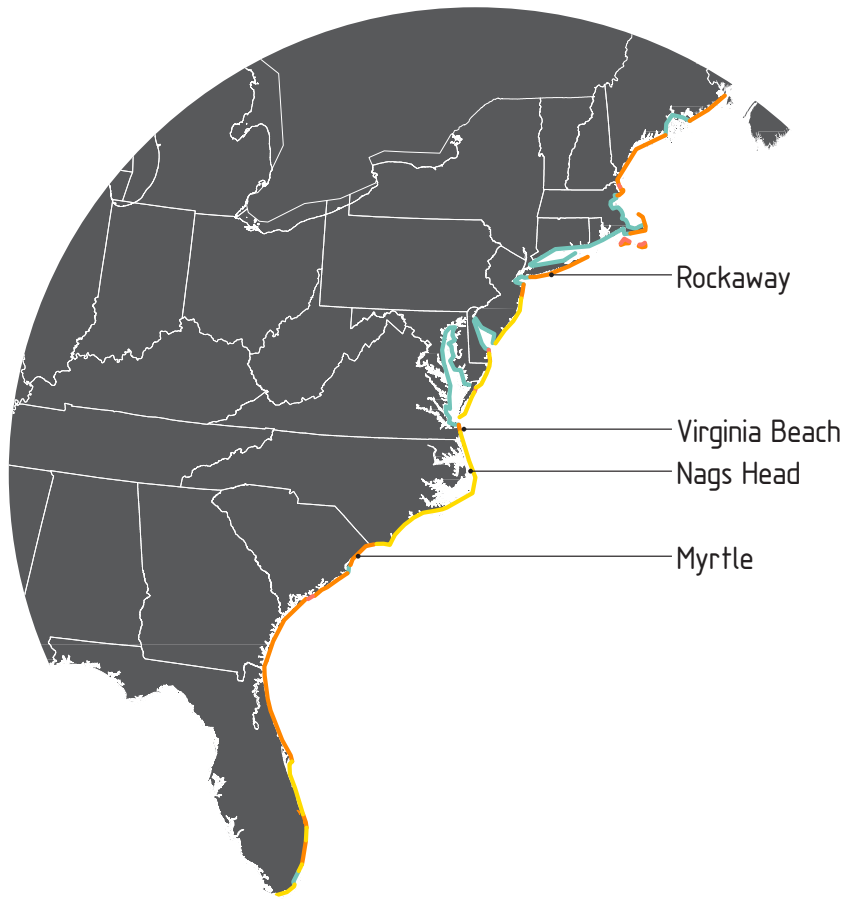
REGIONALLY RELEVANT

BARRIER ISLAND

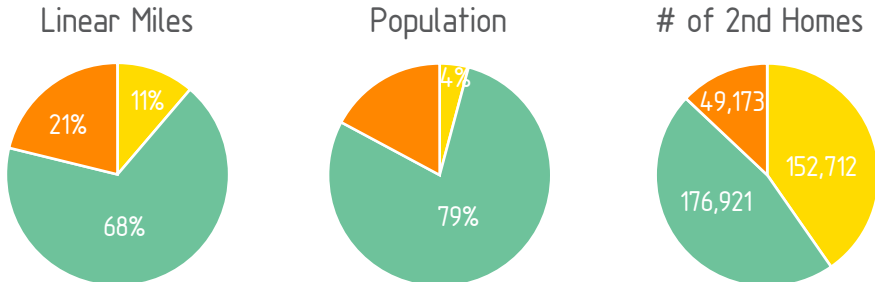
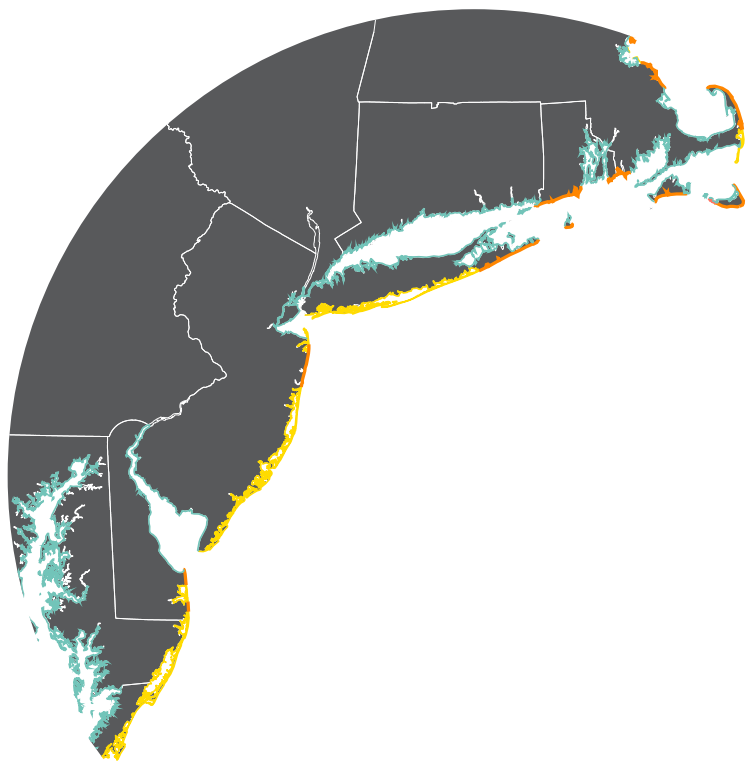
HEADLANDS

INLAND BAY

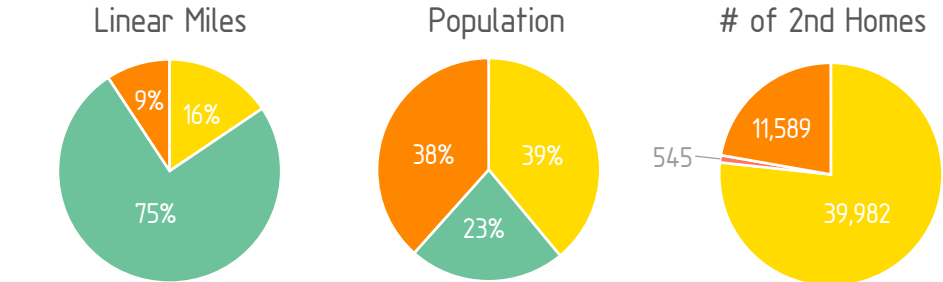
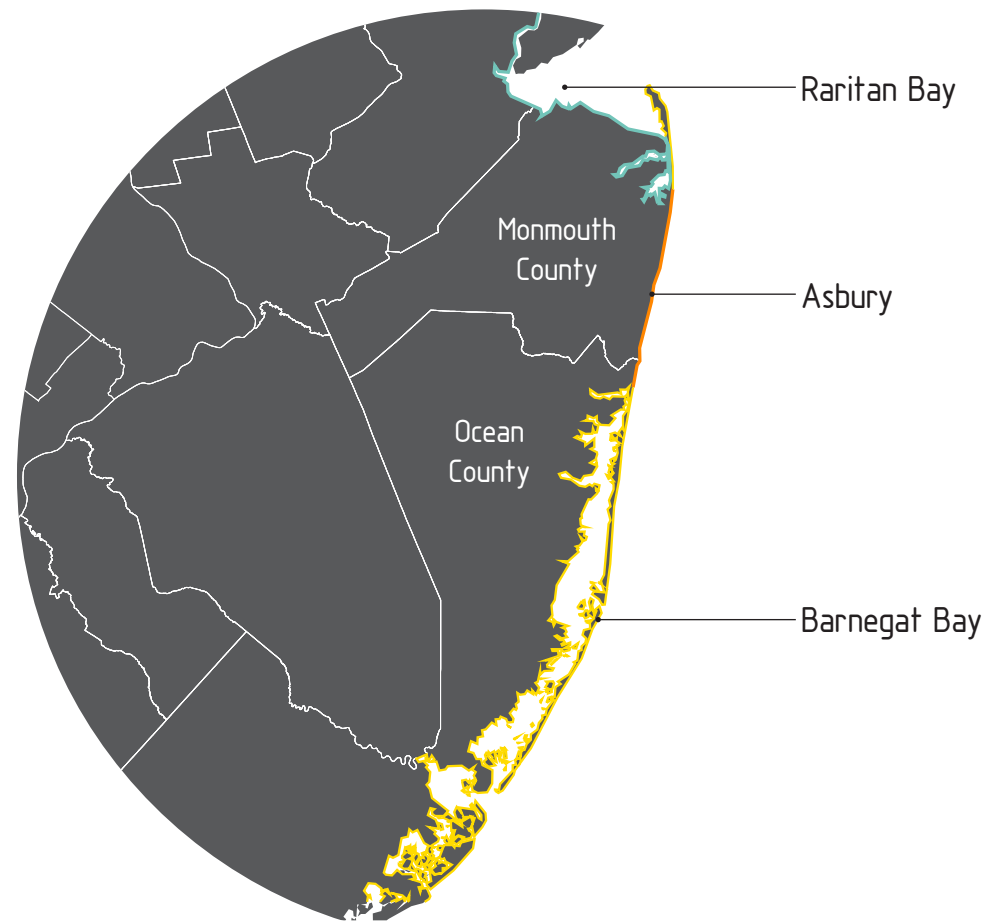
ATLANTIC SEABOARD



SANDY AFFECTED AREAS

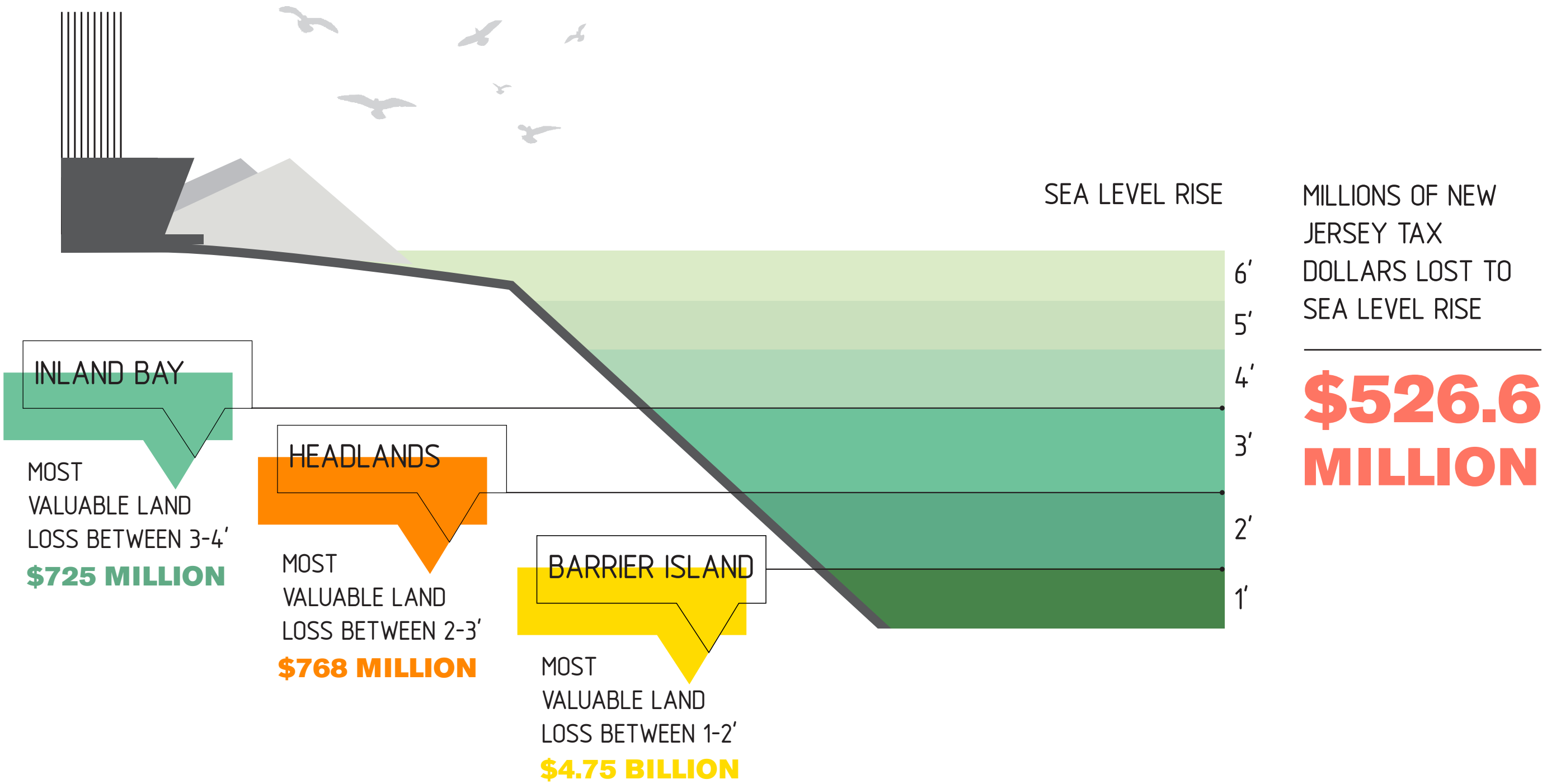


NEW JERSEY SHORE



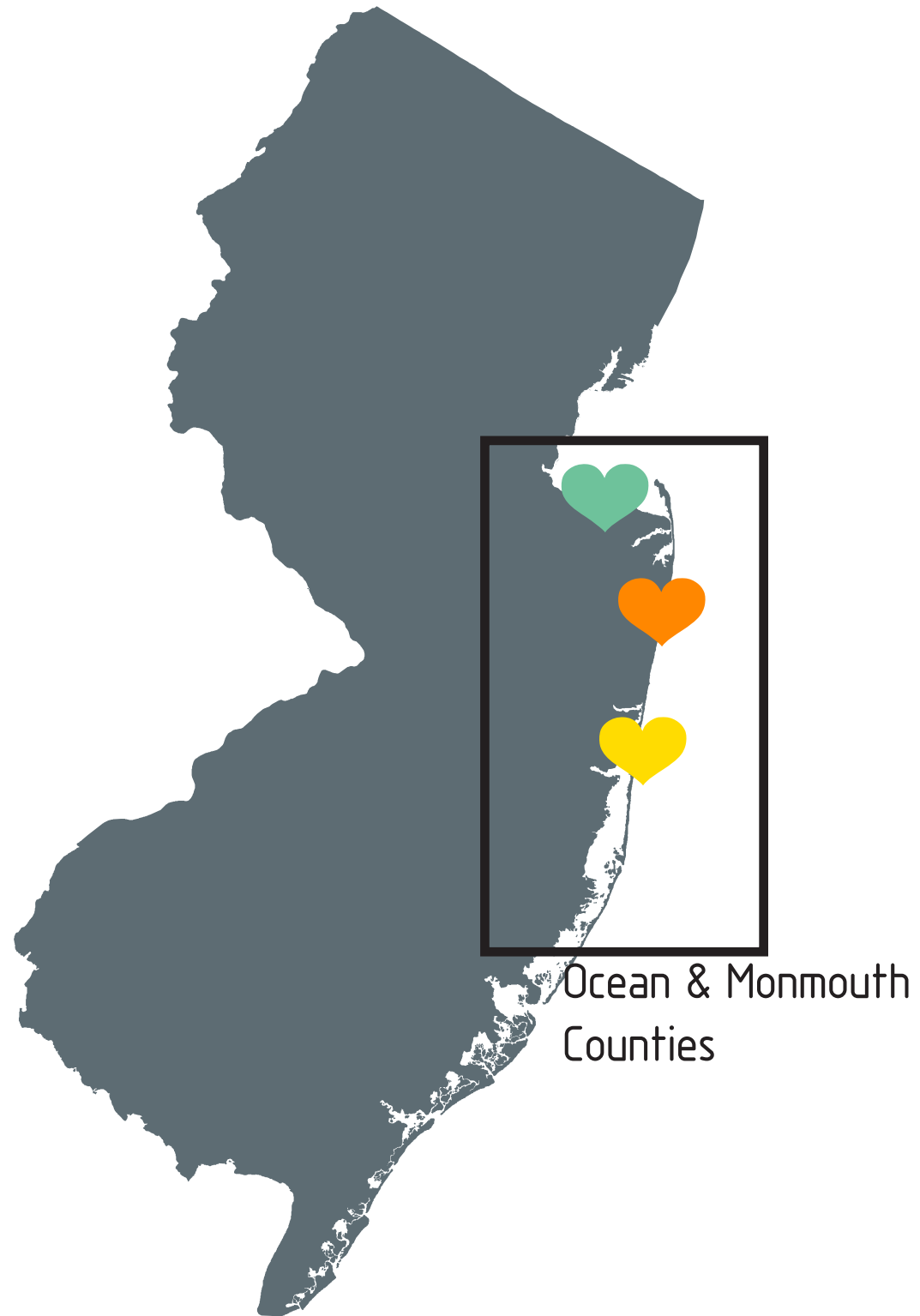
SHORE IS AT RISK

VARIED DYNAMICS OF SEA LEVEL RISE AND LAND



A RESILIENT JERSEY SHORE

THREE CATALYSTS TO DRIVE INNOVATION IN RESILIENCY



INLAND BAY



HEADLANDS



BARRIER ISLAND



 **YOUR ECOLOGIST**
NATURE IS SMART



VIEWS TO MANHATTAN

“WHEN IT RAINS,
IT FLOODS...”

STORM SURGE

STORM SURGE

ONE PROPERTY
OWNER, IFF

“WE NEED TO
MAKE ROOM
FOR WATER”

NATCO LAKE

“NATCO LAKE?
WHAT NATCO LAKE?”

**PARTNERSHIPS IN
BIO-REMEDIATION OF
CONTAMINATED LAND**

**INNOVATIVE
STORMWATER
INFILTRATION**

NATCO LAKE RENEWED

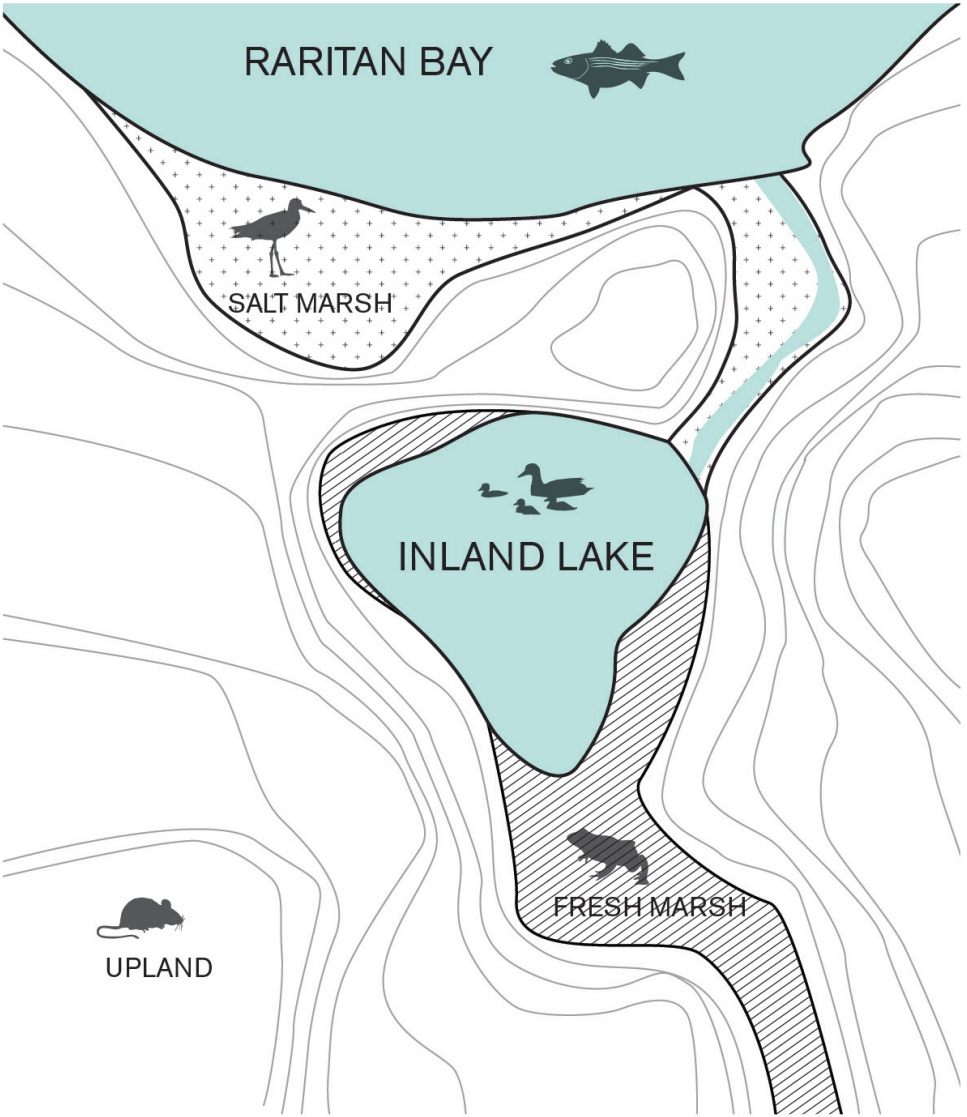
**CREATE MORE
SPACE FOR FUTURE
WETLANDS**

ECOLOGICAL ENGAGEMENT

EVOLUTION: HABITAT ENGINE

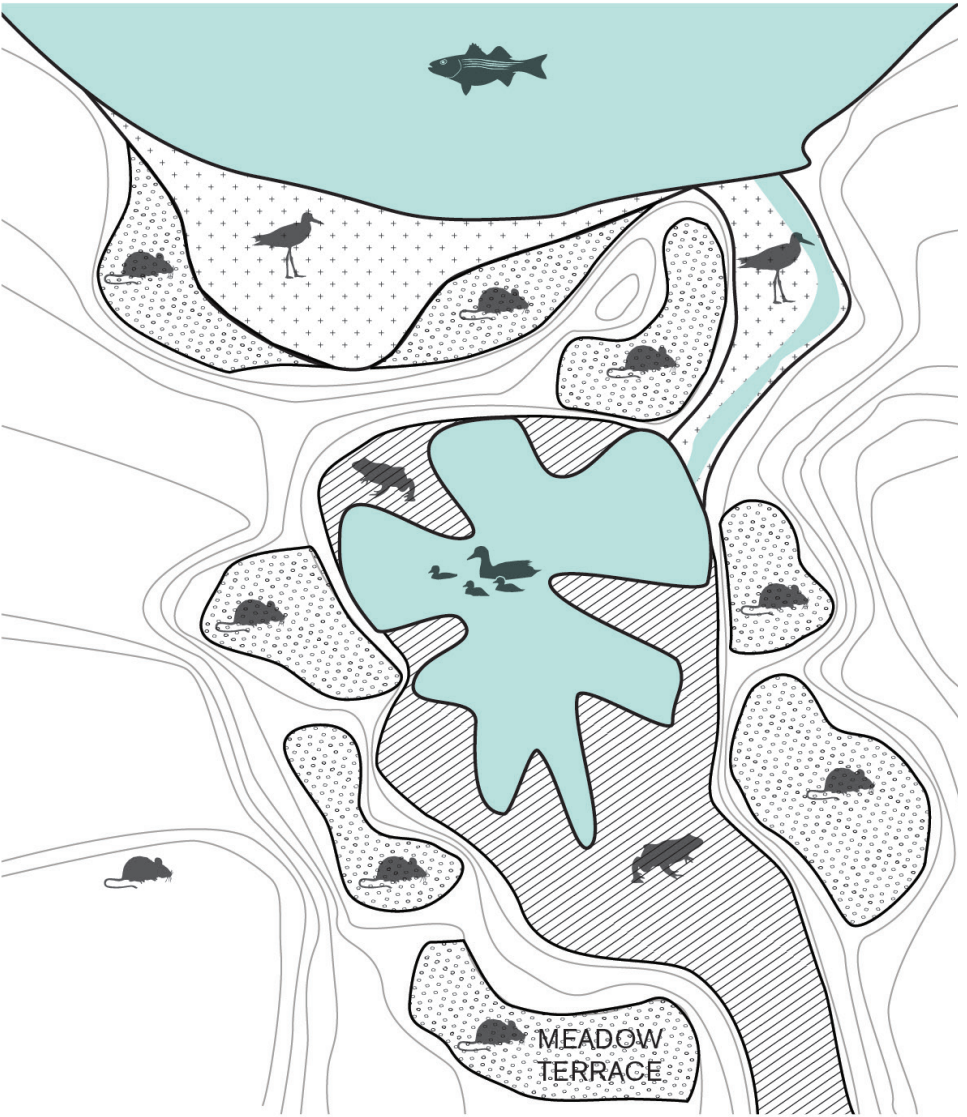
EXISTING CONDITIONS - LIMITED HABITAT

Limited palette of habitats, no space for habitat migration in the case of sea level rise.



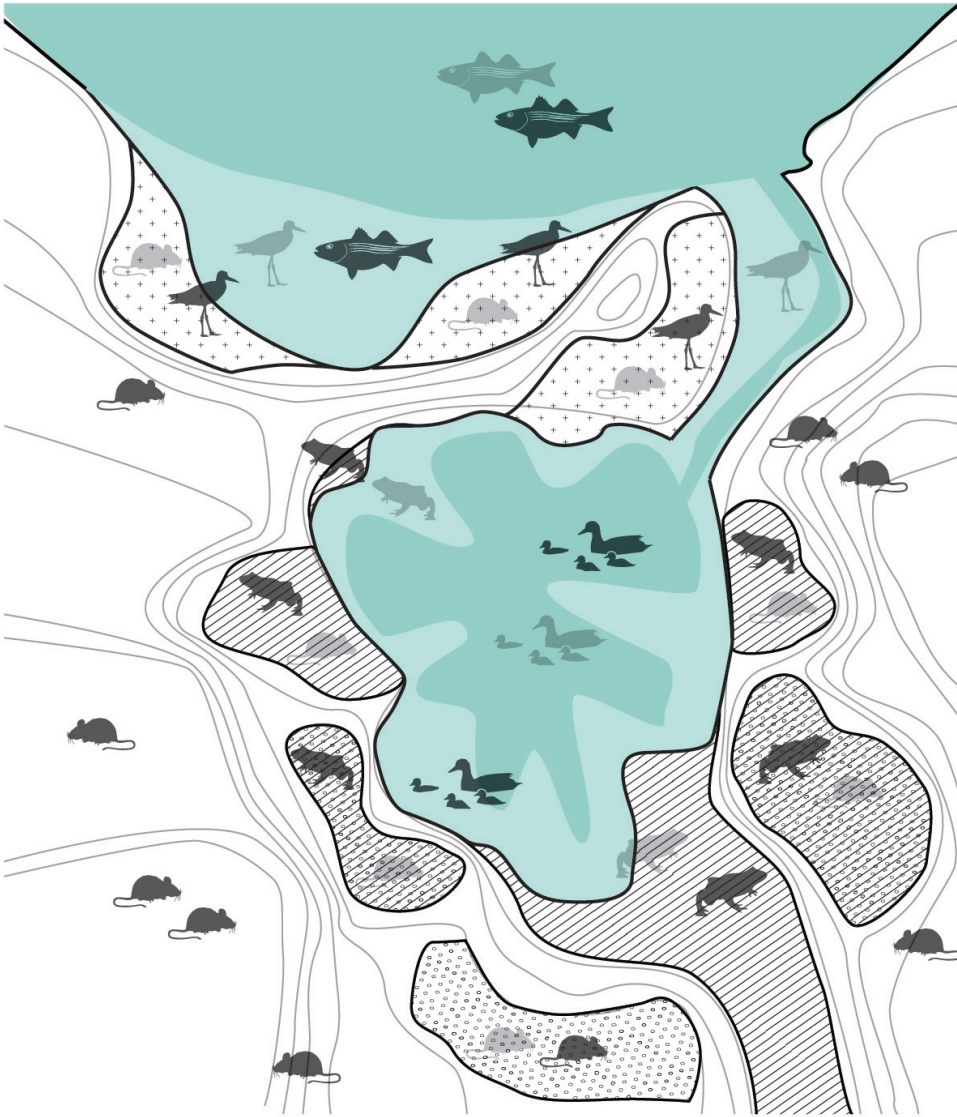
20 YEARS - CREATE ADDITIONAL HABITAT

Carve habitat terraces adjacent to existing habitat, creating space for water to take over salt marsh/wetland & salt marsh/wetland to take over meadows as sea level rises.



50 YEARS - SEA LEVEL RISES, HABITATS MIGRATE

Sea level rises, flooding salt marshes and some freshwater wetland. Terraces provide new salt marsh and wetland habitat for species to move into.





NATCO LAKE COASTAL PARK

EXPECT THE UNEXPECTED
PEOPLE WILL SURPRISE YOU.

Rank your priorities using the stars below: 5 is the highest ranking and you have 25 stars total.

- [illegible]

Color shows the impact of your priorities on risk of damage from future disasters

ASBURY PARK TODAY

VULNERABLE INFRASTRUCTURE



DEAD ECOLOGIES



OVERSIZED SUMMER INFRASTRUCTURE



DIVIDED URBAN FABRIC, DIVIDED CULTURE





REBUILD
BY
DESIGN

Rebuild One City
Unifying a Resilient Asbury Park, March 22, 2014