

EXPANDING THE WATERFRONT PARK

Not Just For Play: The Role of Parks in a Resilient City

NYC Parks Summit
May 24, 2016

Pippa Brashear
Director of Planning & Resilience
SCAPE/ LANDSCAPE ARCHITECTURE PLLC

What is a park?

NYC PARK



NYC PARK



**Anticipate climate change.
explore resilient shorelines.**

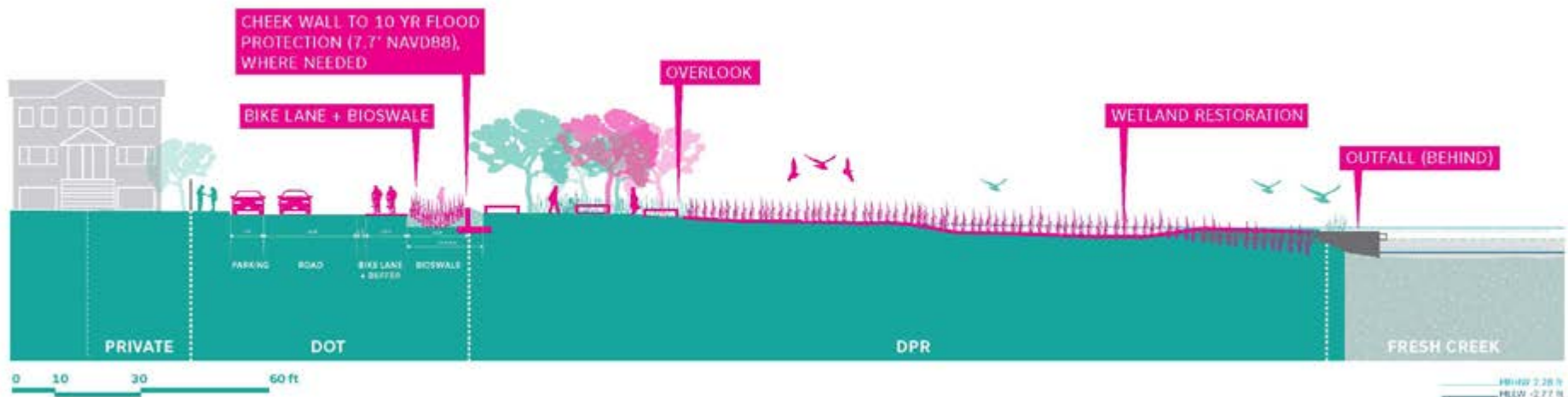
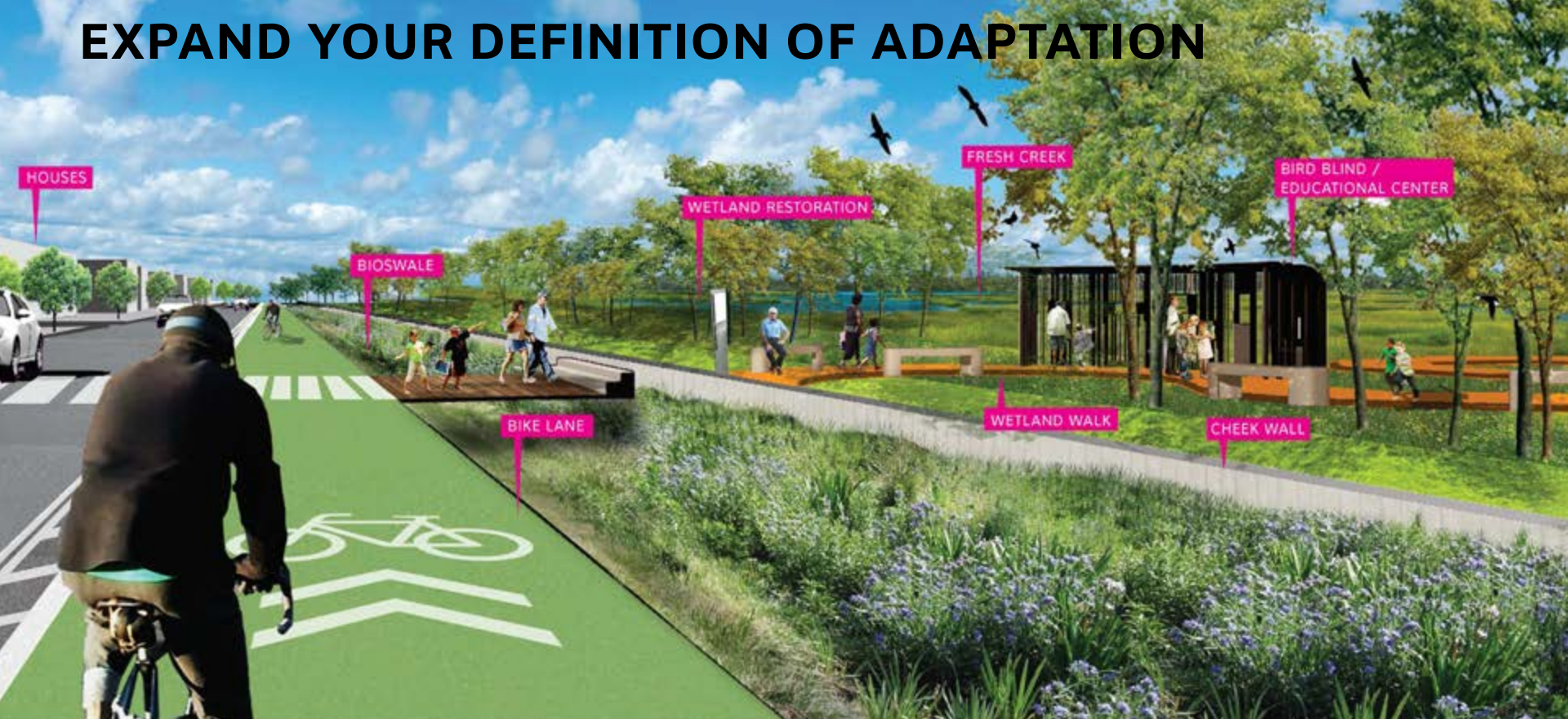
EXPAND YOUR DEFINITION OF SHORELINE



LOW SALT MARSH
HIGH SALT MARSH
MARITIME SHRUBLAND
MARITIME FOREST
MARITIME MUD FLAT
BEACH
DUNE
SALT PANNE
SALT SHRUBLAND
DUNE SLACK
SUBTIDAL REEF
BARRIER ISLAND



EXPAND YOUR DEFINITION OF ADAPTATION



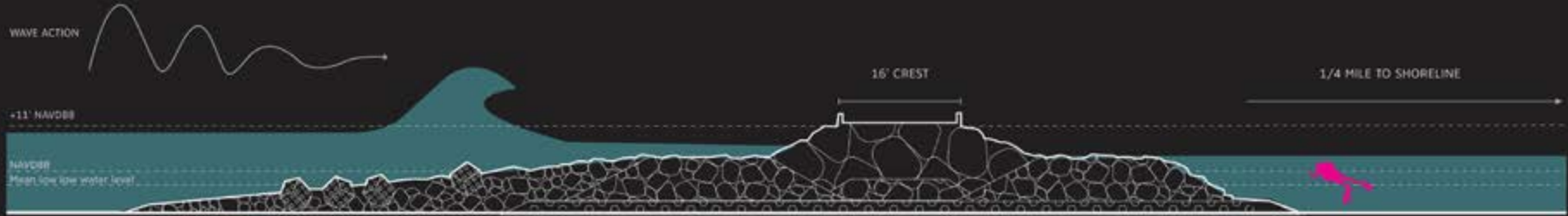
think in layers.
look beyond the land.
design to encourage stewardship.

LIVING BREAKWATERS

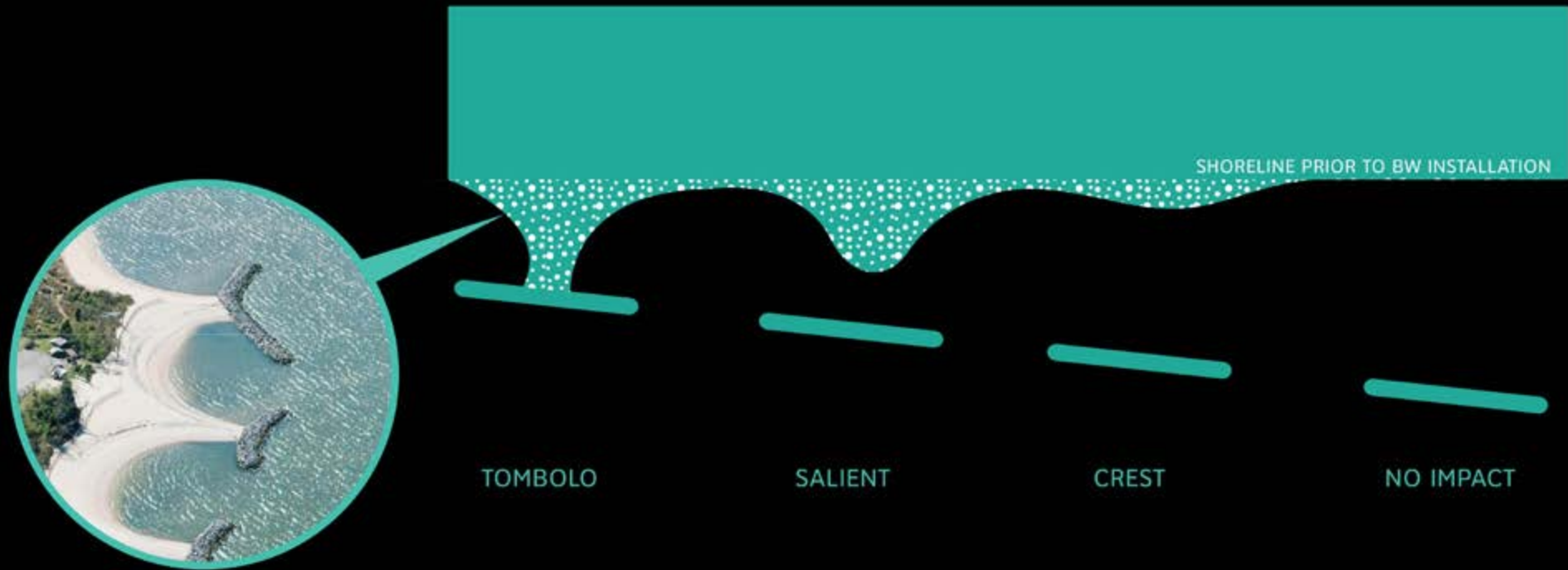
STATEN ISLAND + RARITAN BAY
HUD REBUILD BY DESIGN



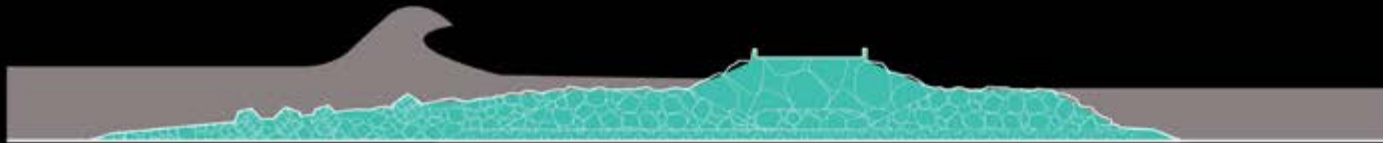
BREAKWATERS REDUCE WAVE ACTION



BREAKWATERS BUILD BEACHES



HABITAT BREAKWATERS



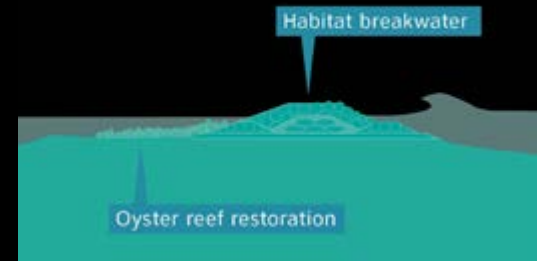
DO:

- REDUCE EROSION
- LESSEN WAVE IMPACTS
- PROVIDE HABITAT
- ENCOURAGE RECREATIONAL FISHERIES
- BUILD BEACHES

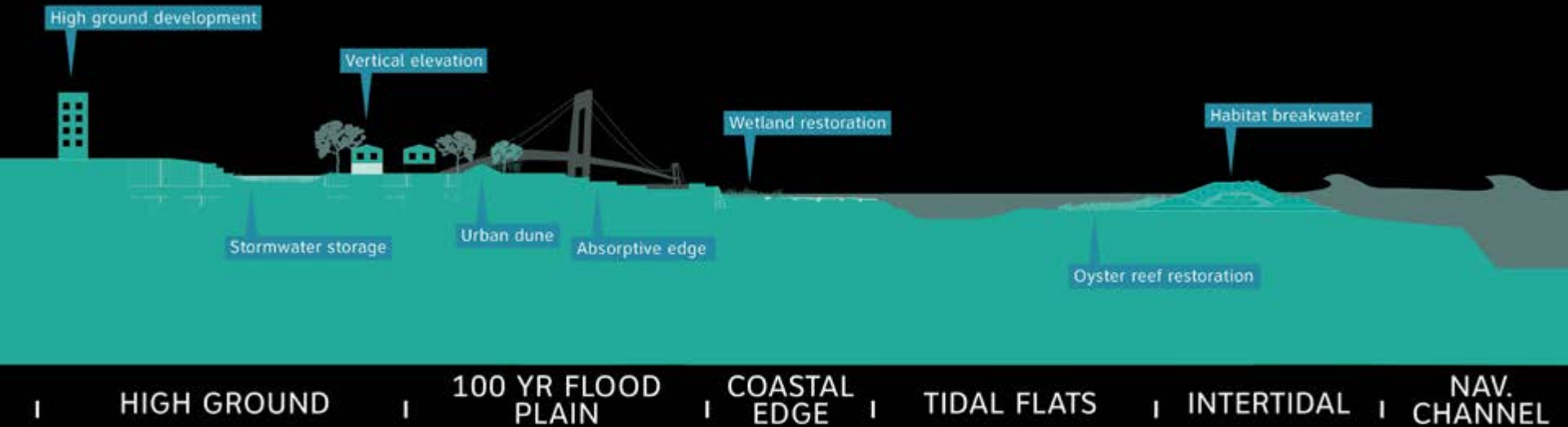
DO NOT:

- KEEP OUT FLOOD WATER

IT IS NOT JUST A LIVING BREAKWATER ...

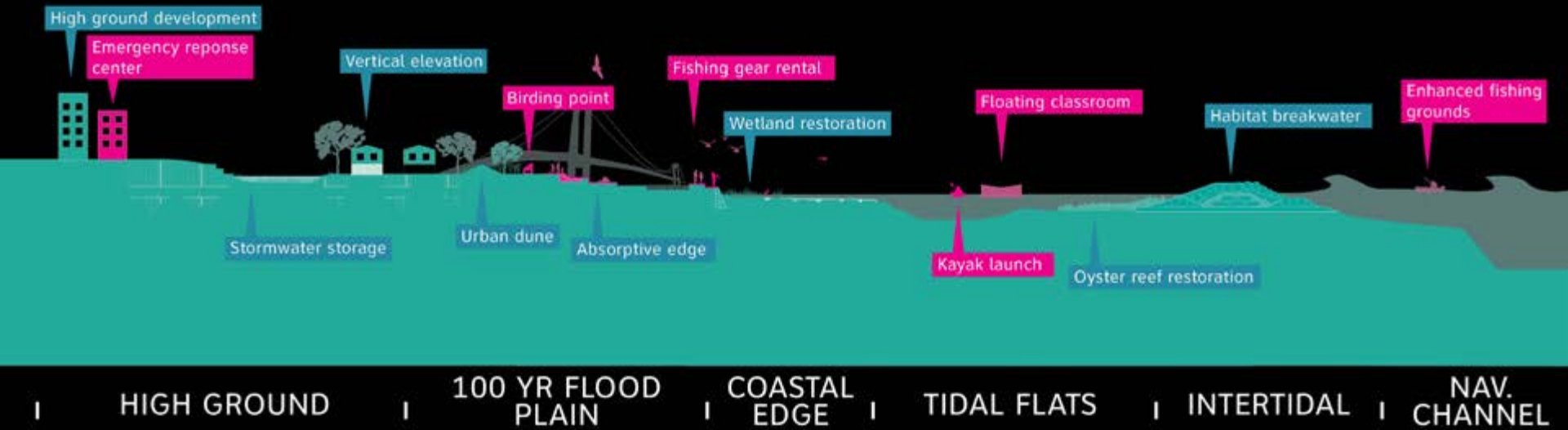


... IT IS A LAYERED APPROACH ...

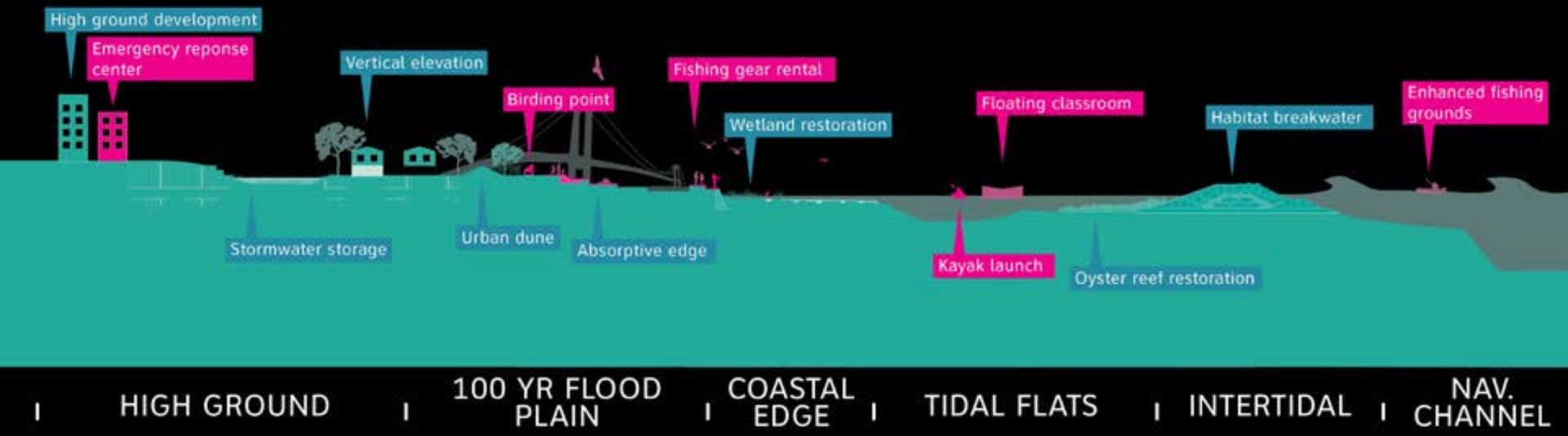


... ..

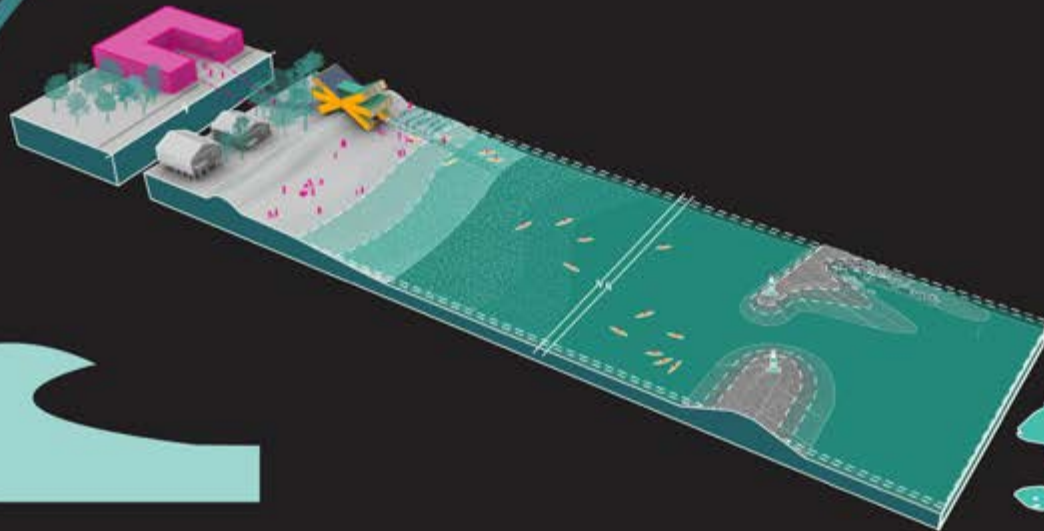
... THAT BUILDS A CULTURE OF RESILIENCE.



THINK IN LAYERS



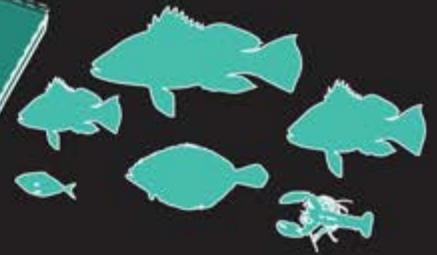
CULTURE

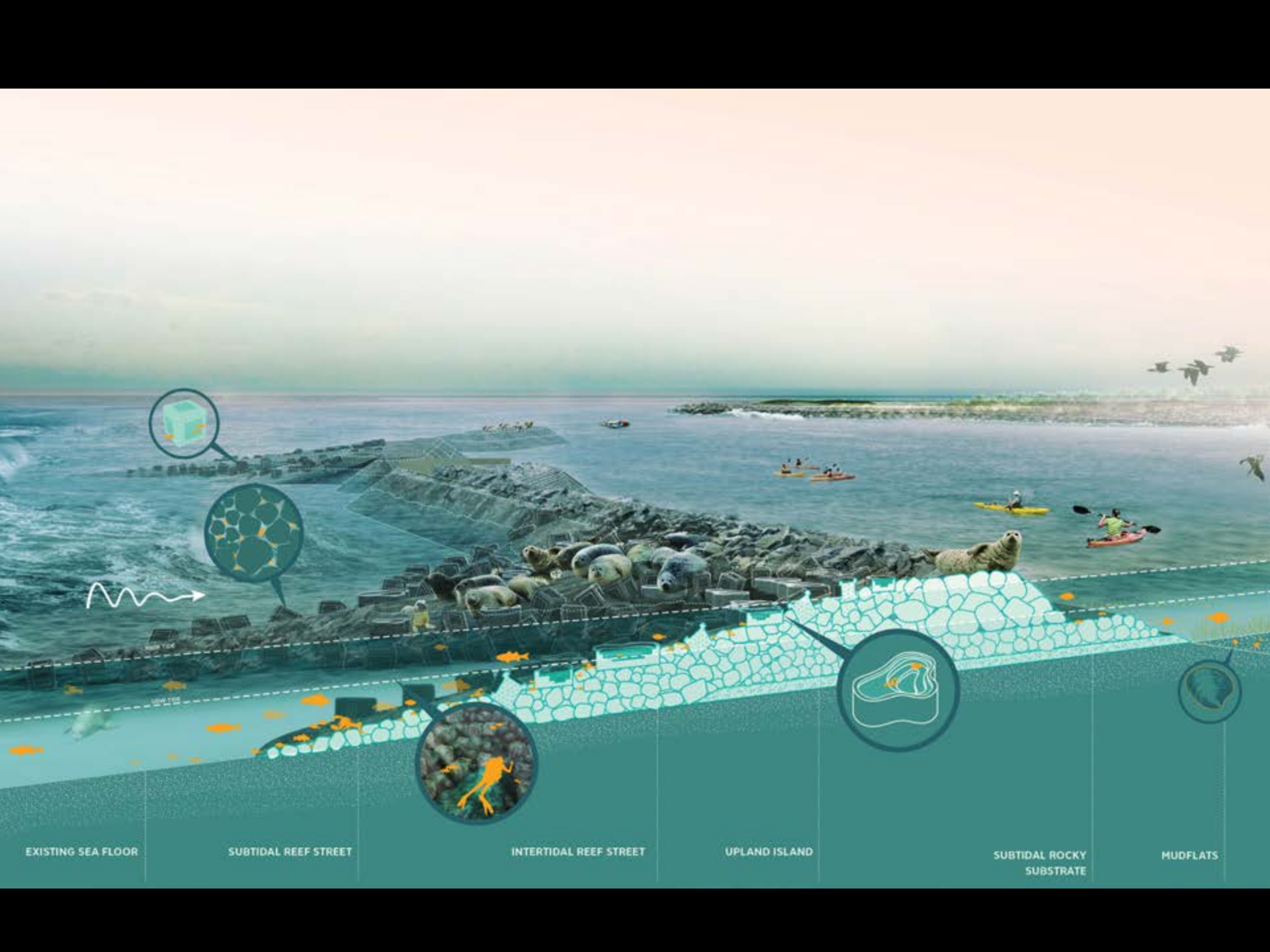


RISK REDUCTION



ECOLOGY





EXISTING SEA FLOOR

SUBTIDAL REEF STREET

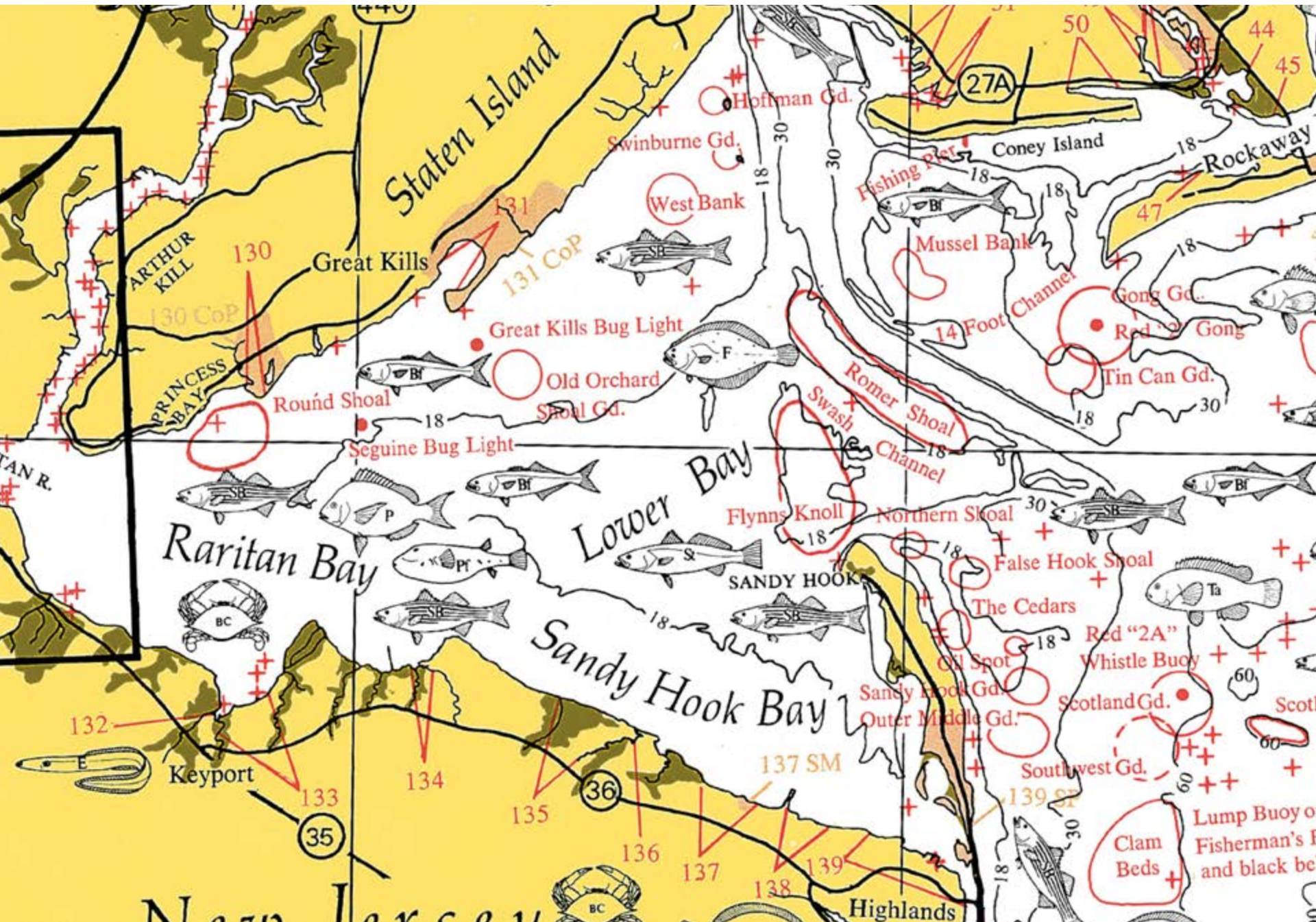
INTERTIDAL REEF STREET

UPLAND ISLAND

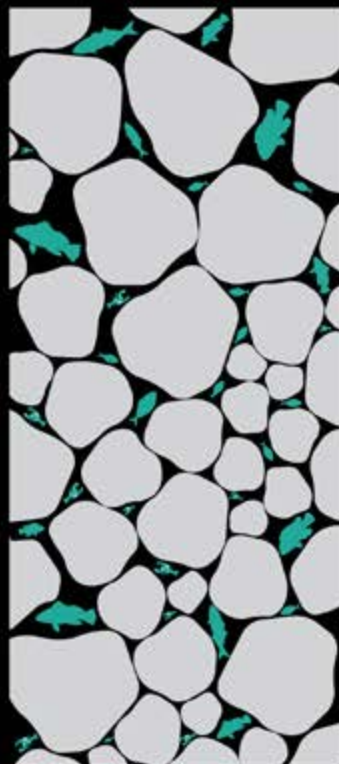
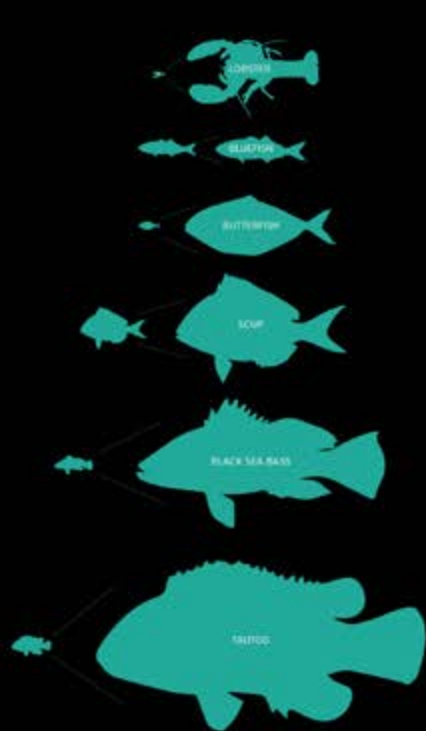
SUBTIDAL ROCKY SUBSTRATE

MUDFLATS

EXPAND WHO YOU ARE DESIGNING FOR



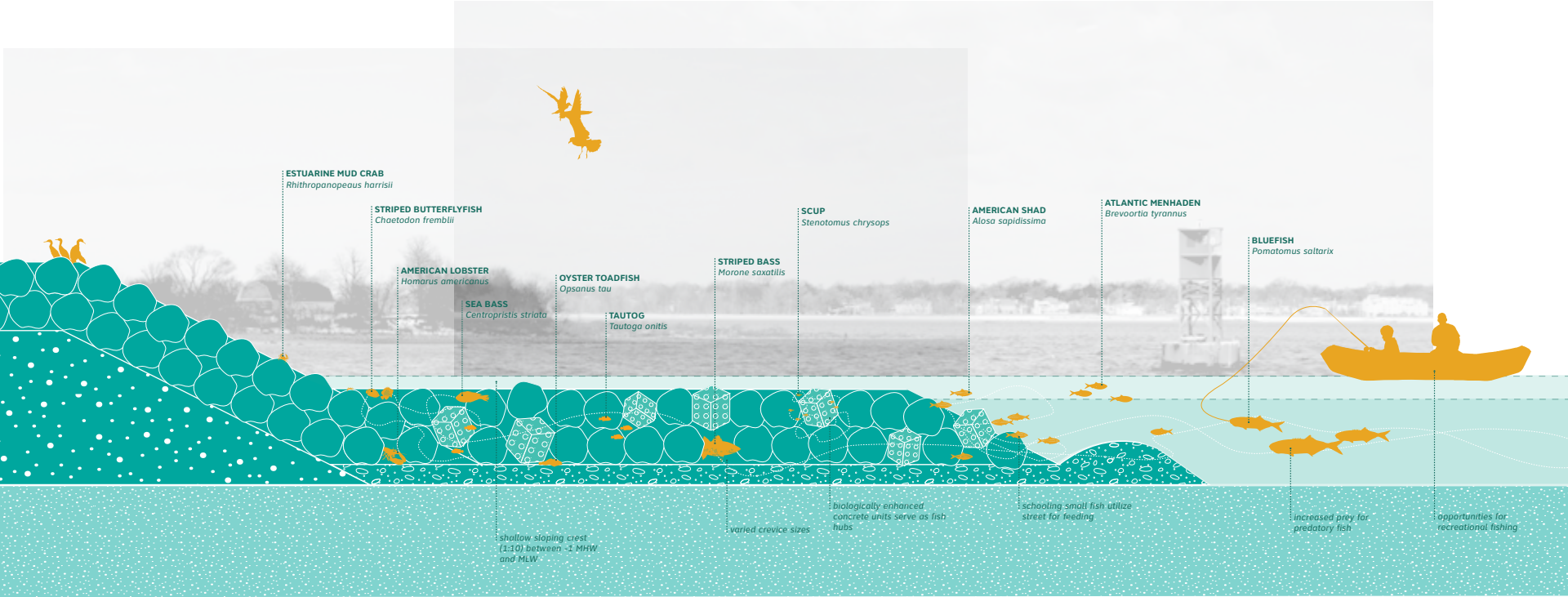
CREATE NICHES



NEW SURVEYS



DESIGN FOR HABITAT

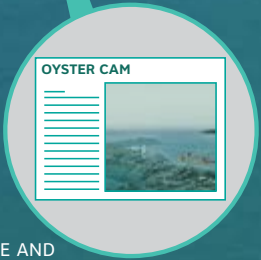
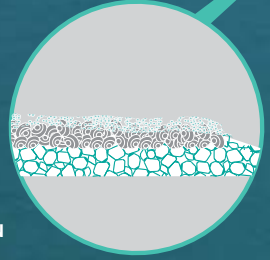
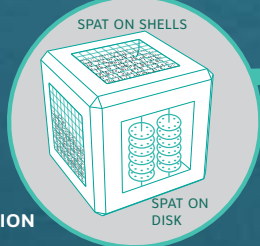
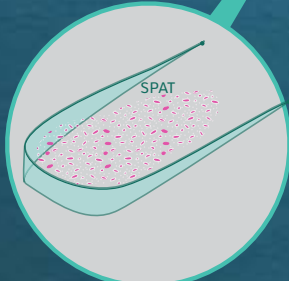
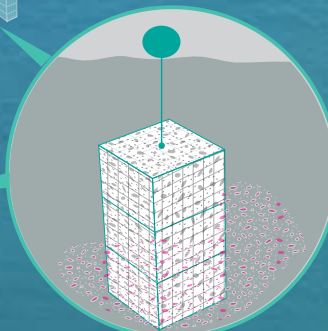
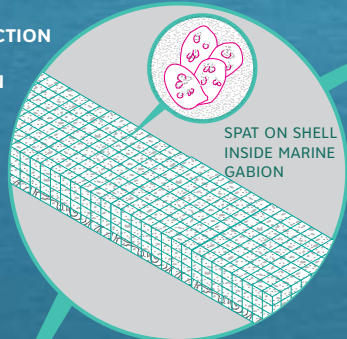


MATERIALS FOR HABITAT



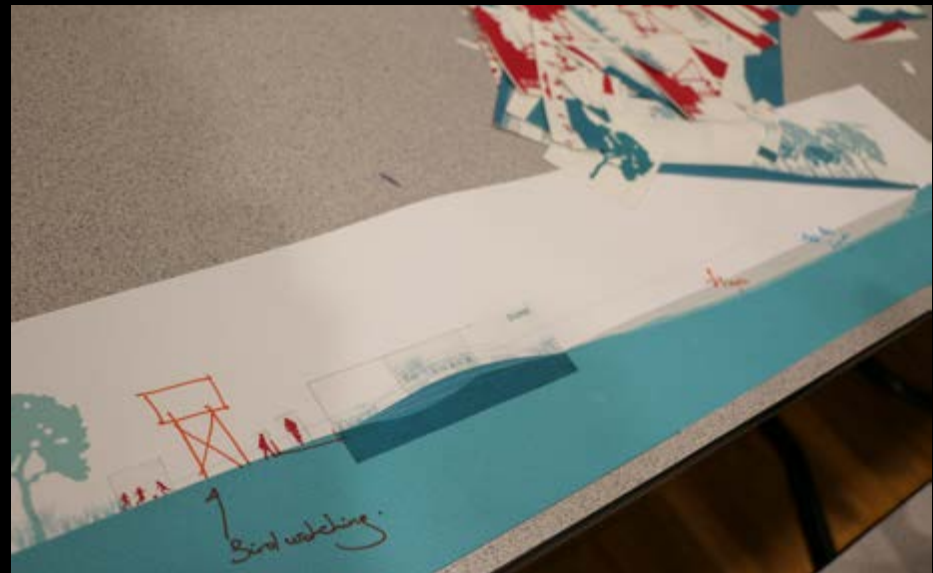
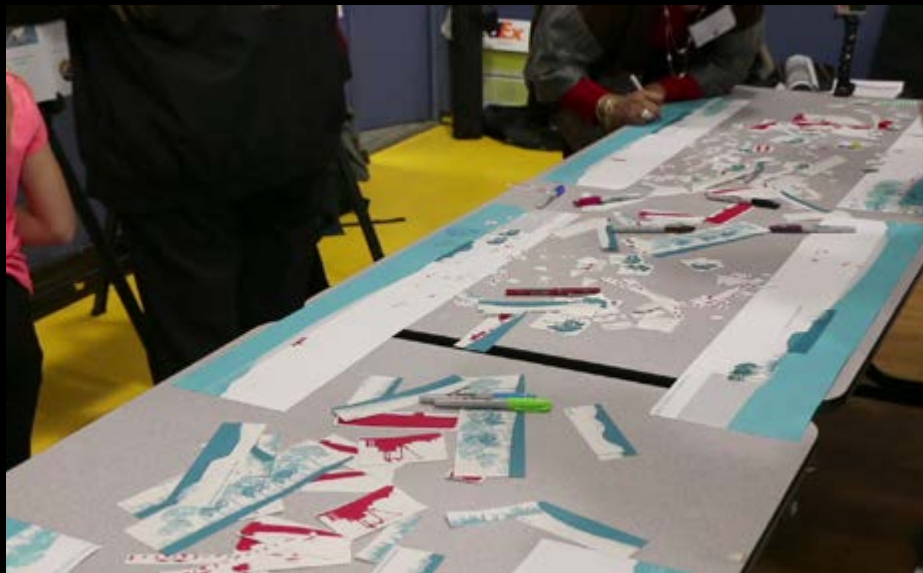
OYSTER RESTORATION TECHNIQUES

NO ACCESSIBLE OYSTER RESTORATION AT OCCUPYABLE BREAKWATERS



BILLION OYSTER PROJECT







STEP 1: PICK A PLACE ON THE MAP

ON THE BEACH

ON THE DUNE

ON THE BEACH

FURTHER UPLAND



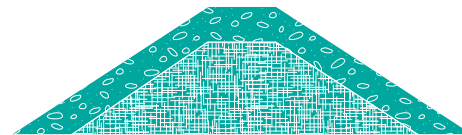
STEP 2: PICK YOUR BREAKWATER



4' CREST ELEVATION

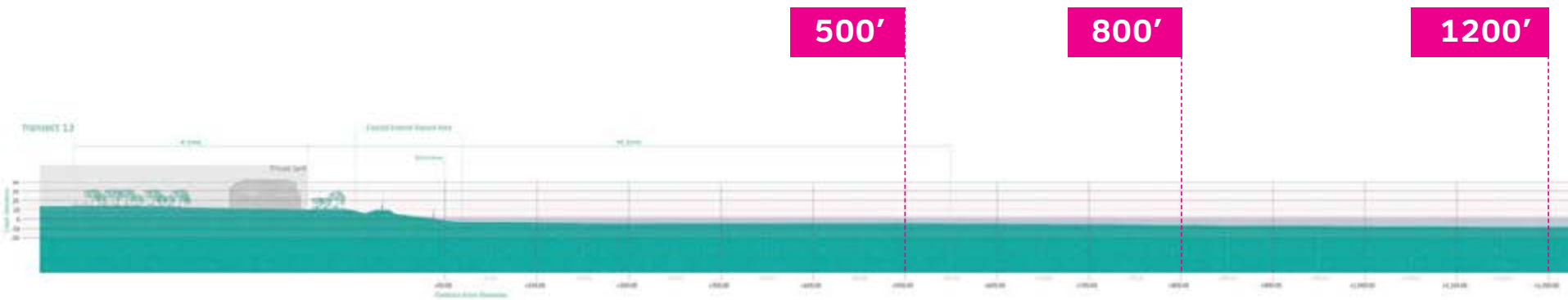


10' CREST ELEVATION



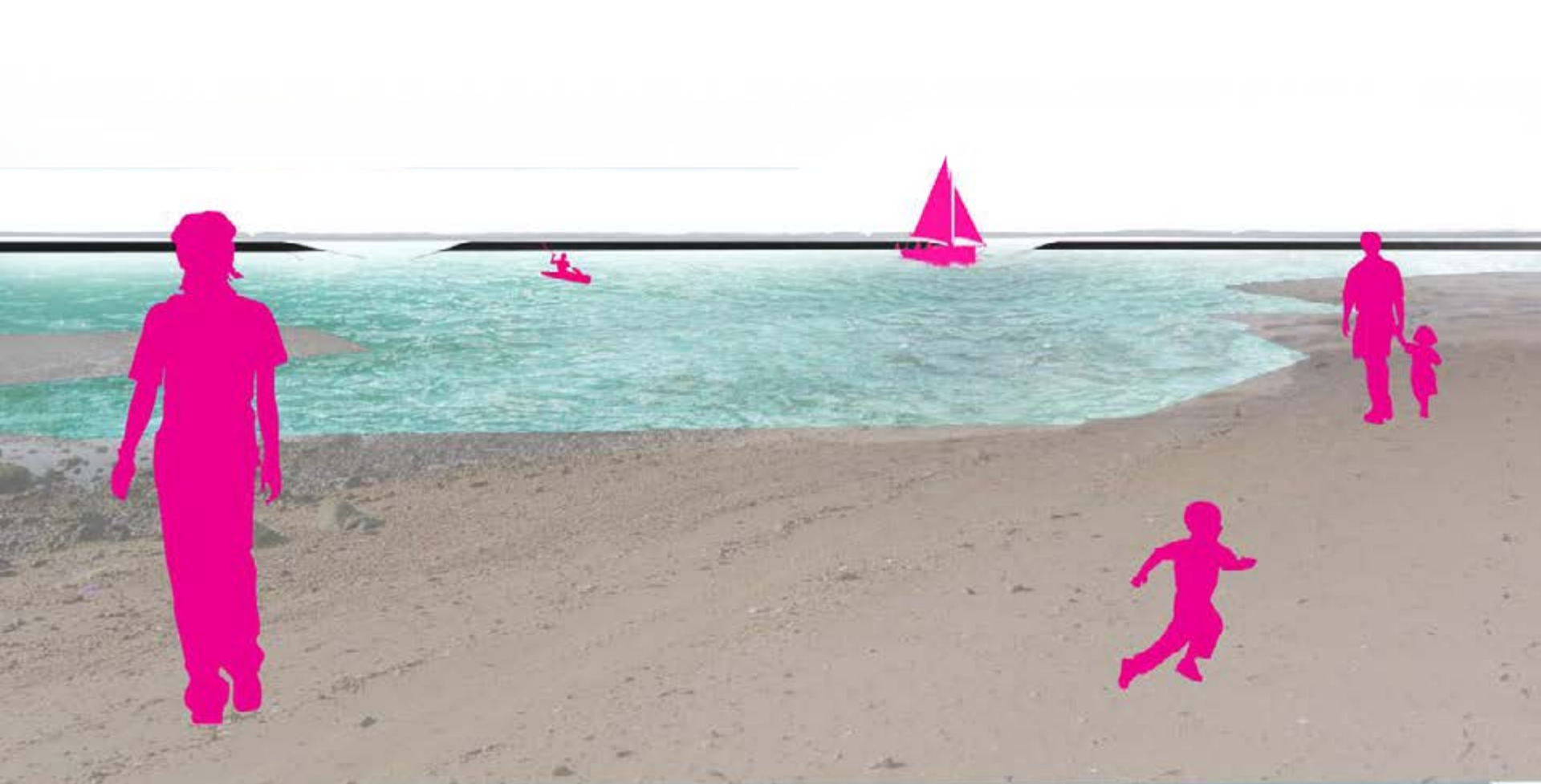
16' CREST ELEVATION

STEP 3: SELECT A DISTANCE FROM SHORE



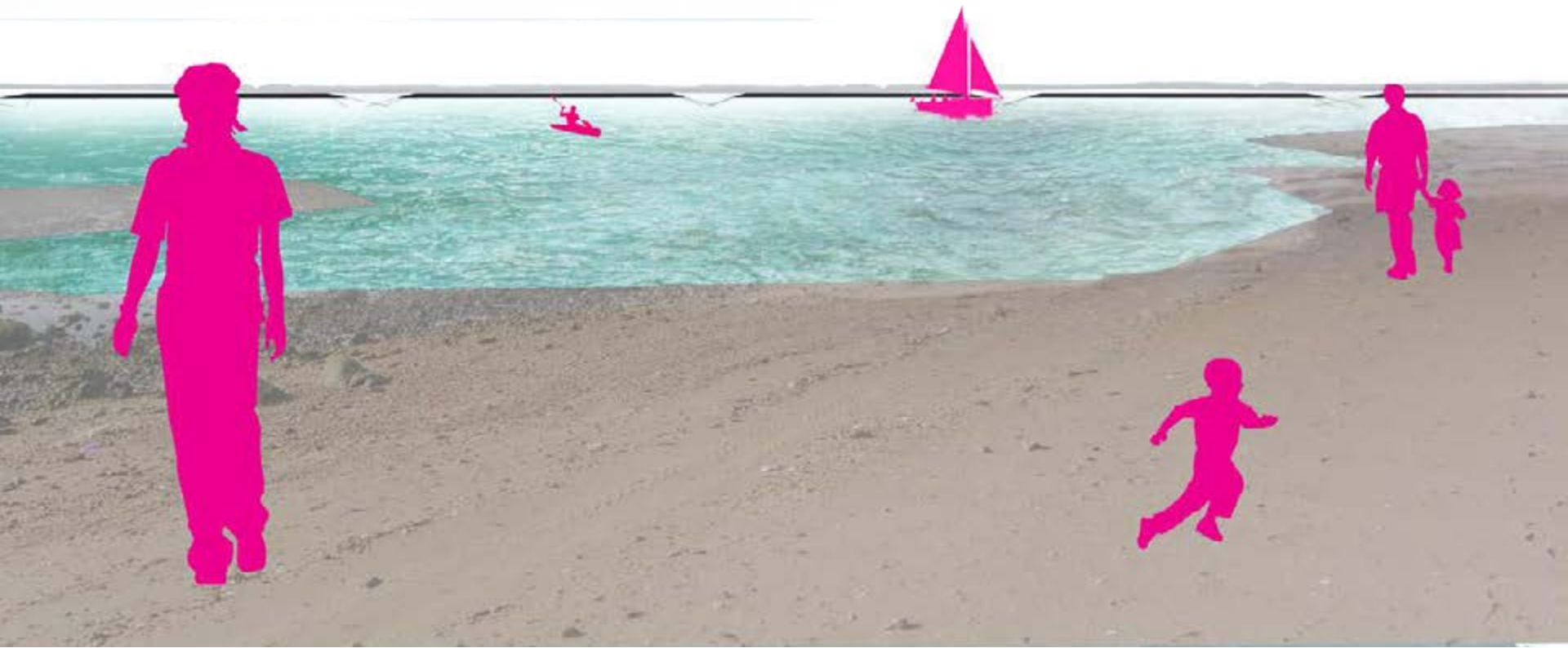
DISTANCE FROM SHORE: 500'
CREST ELEVATION: 10'

[BACK TO MAP](#)



DISTANCE FROM SHORE: 1200'
CREST ELEVATION: 10'

[BACK TO MAP](#)







**Recognize
parks = critical infrastructure.**

FUND!
MONITOR!
MAINTAIN!