

Resilient by Design Update

San Francisco Bay Restoration Authority
June 1, 2018

Harnessing innovation to build more resilient communities

Year-long **challenge** bringing together local residents, public officials, and local, national, and international experts to develop **innovative solutions** that will strengthen our region's **resilience to sea level rise, severe storms, flooding and earthquakes**. Building off of the NYC **Rebuild by Design** challenge, resilient by design takes a proactive approach to protect our communities **before disaster strikes**, and climate impacts worsen

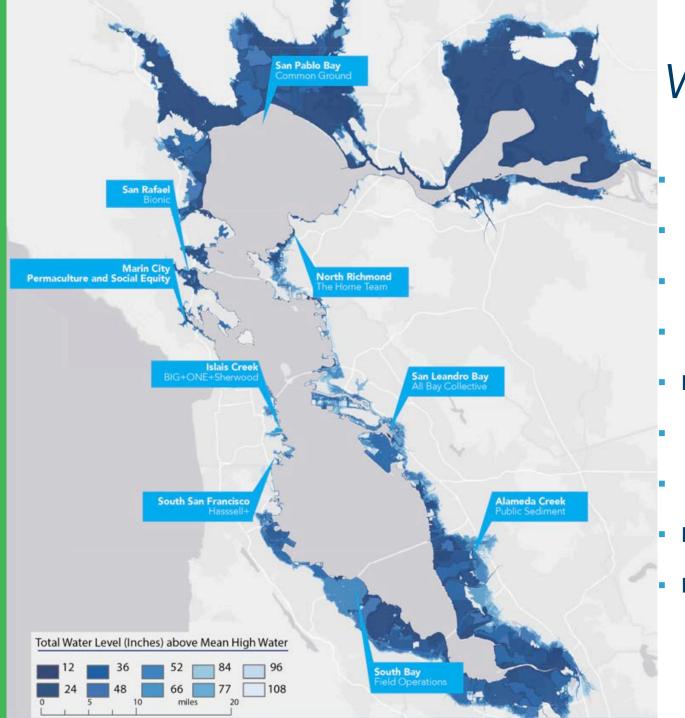




Bay Area Challenge

Jun Jul Jul Jul Oct Oct Peb Reb Apr

Challenge Launch	Research Phase	Design Phase
May 31	September 1	December 1
RFQ released	Collaborative Research	Collaborative Design Phase



Where teams worked

- All Bay Collective | Oakland, Alameda, San Leandro Bay
- BIG+ONE+Sherwood | San Francisco, Islais Creek
- Bionic Team | San Rafael
- Common Ground | San Pablo Bay
- Field Operations Team | East Palo Alto to Sunnyvale
- The Home Team | North Richmond
- HASSELL+ | San Mateo County, South San Francisco
- P+SET | Marin City
- Public Sediment | Alameda Creek









FROM A LOOP...

COLLECT

DEFINING RENEWAL CORRIDORS LINKED TO TRANSIT
CREATING SPACES FOR WATER AND PEOPLE
ALLOWING FOR EMERGENCY GATHERING AND ORGANISATION
CREATING PLACES FOR CELEBRATION AND COMMUNITY-BUILDING



FROM A LOOP... ...TO A NETWORK

COLLECT

DEFINING RENEWAL CORRIDORS LINKED TO TRANSIT CREATING SPACES FOR WATER AND PEOPLE ALLOWING FOR EMERGENCY GATHERING AND ORGANISATION

CONNECT

TURNING A LOOP INTO A NETWORK
CONNECTING THE BAY AND RIDGE TRAILS
CREATING "STREETS OF RETREAT" UP AND DOWN
NEW CROSS-BAY FERRY CONNECTIONS



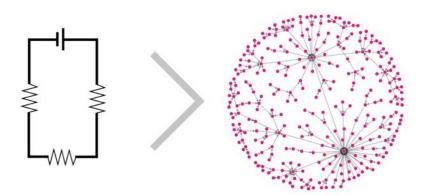
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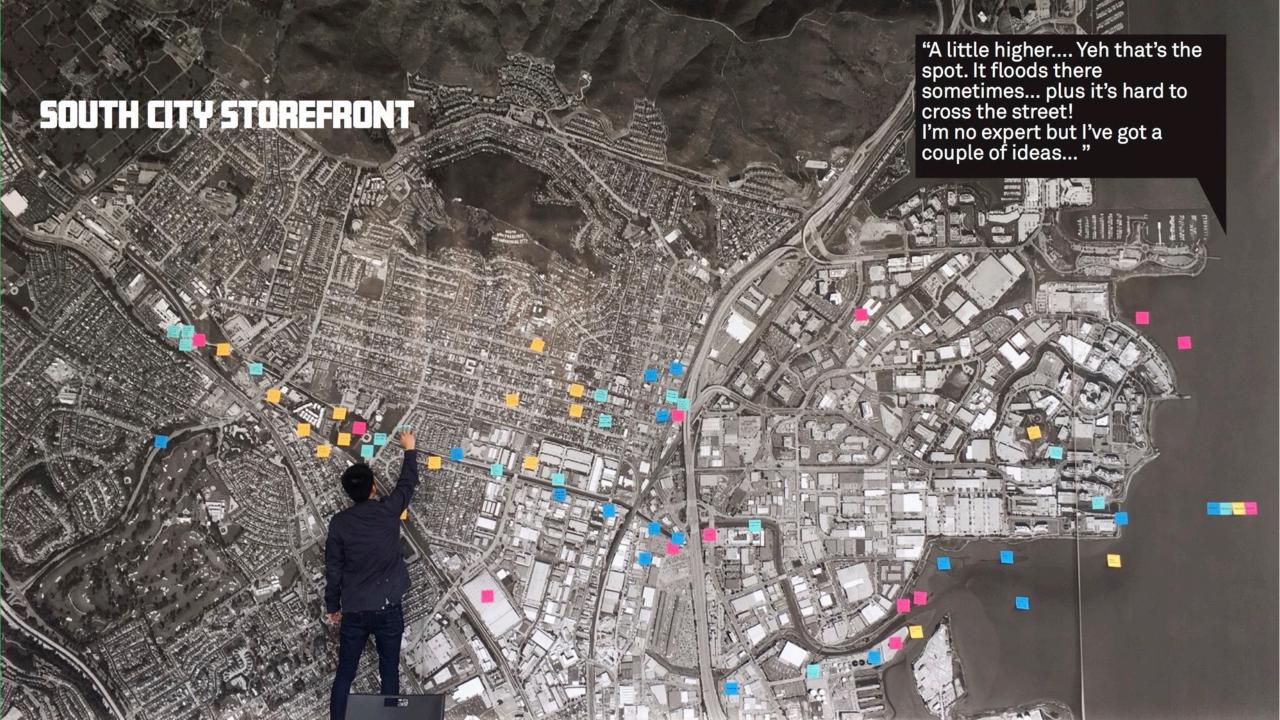
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SOUTH CITY ENGAGEMENT















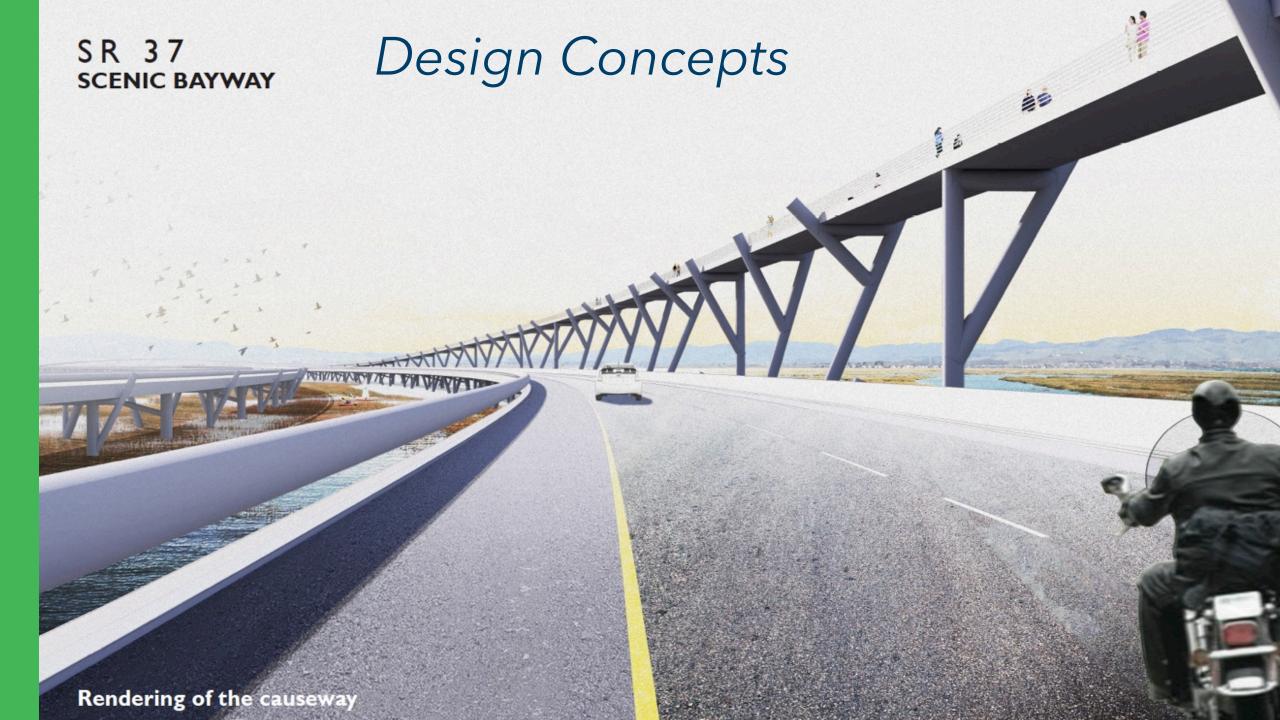












PUBLIC SEDIMENT







THE FLOOD CONTROL CHANNEL





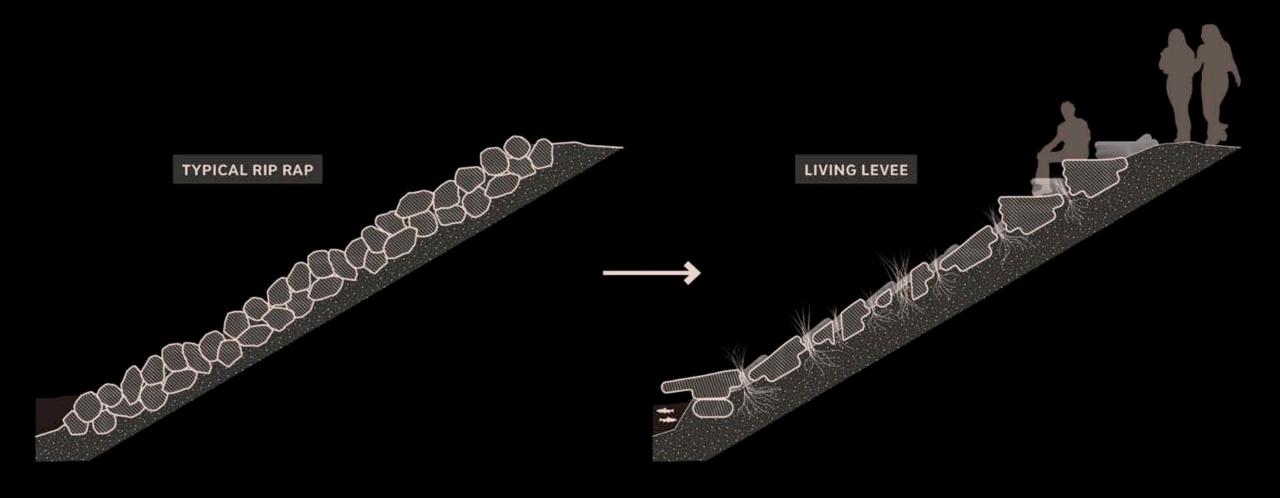


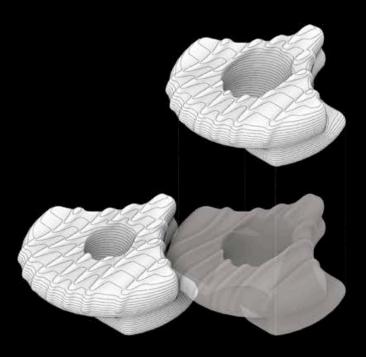




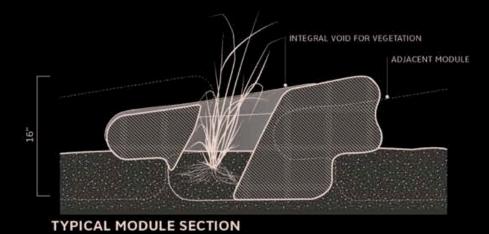
TIDAL BAYLANDS CUSHION URBAN EDGES + AND MITIGATE THE RISKS OF SEA LEVEL RISE.

LIVING LEVEE





NESTING / TILING LOGIC TYPICAL MODULE PLAN







meander within the sediment channel

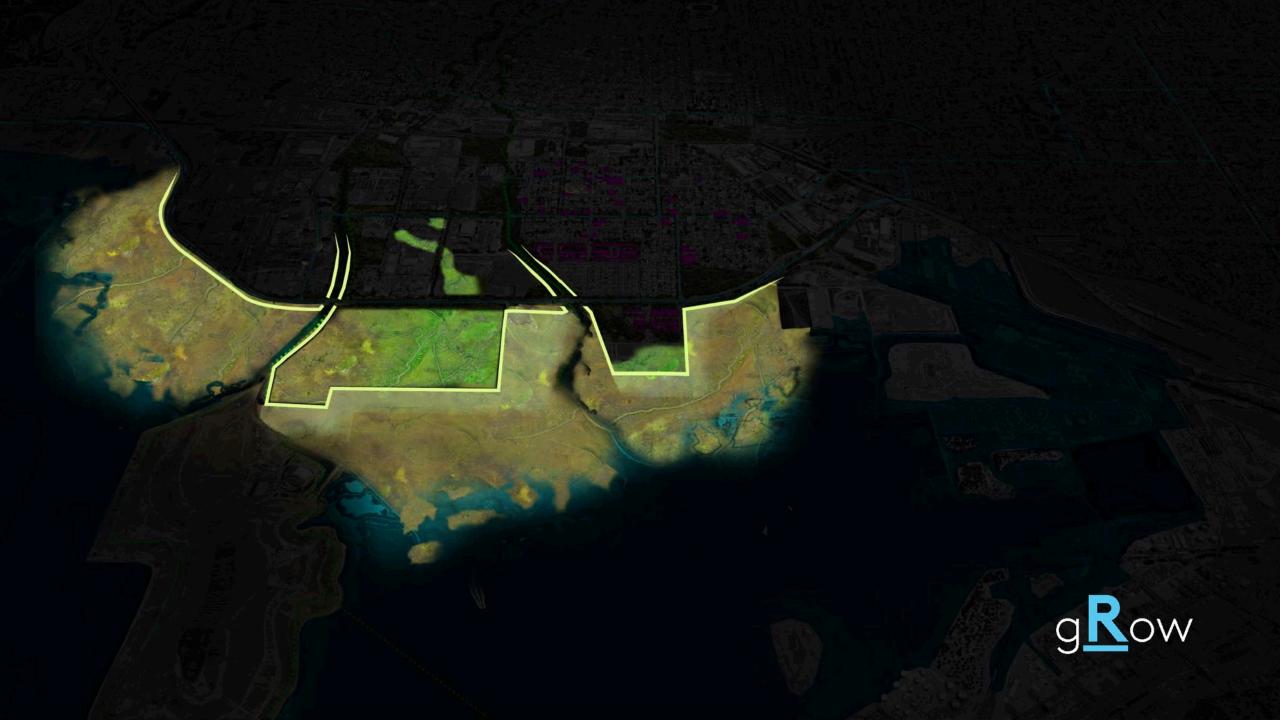


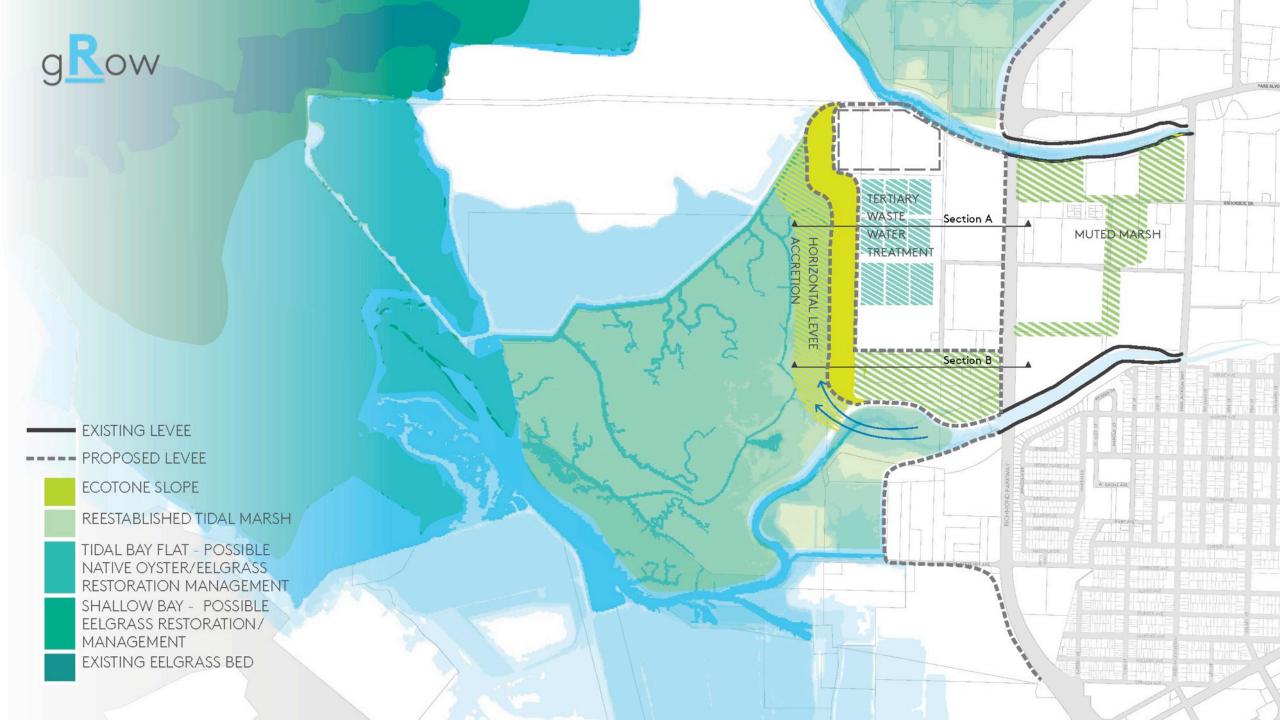














HIDDEN HABITATS:



CLAPPER RAIL



SALT HARVEST MOUSE



EEL GRASS



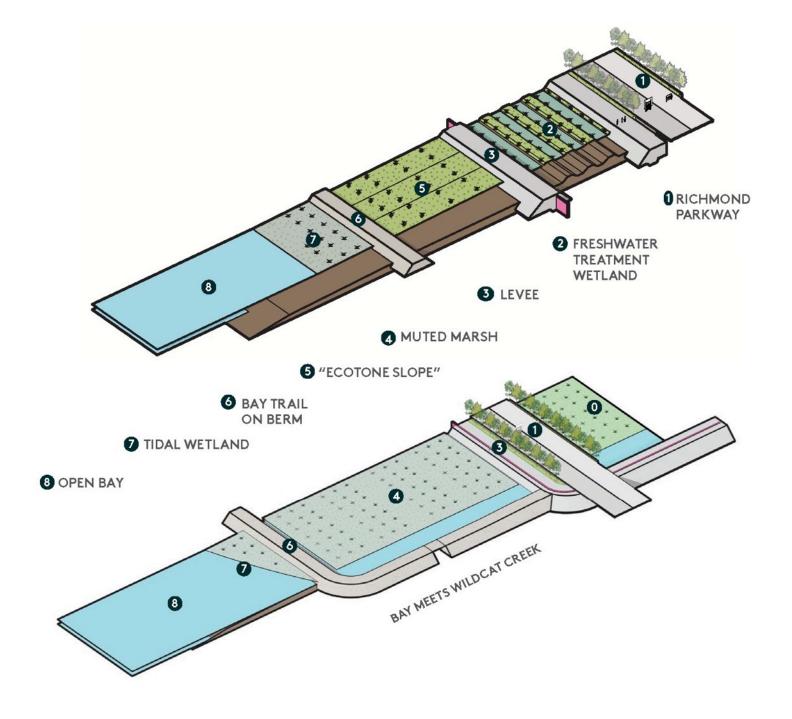
PACIFIC HERRING



MIGRATORY BIRDS



OYSTERS



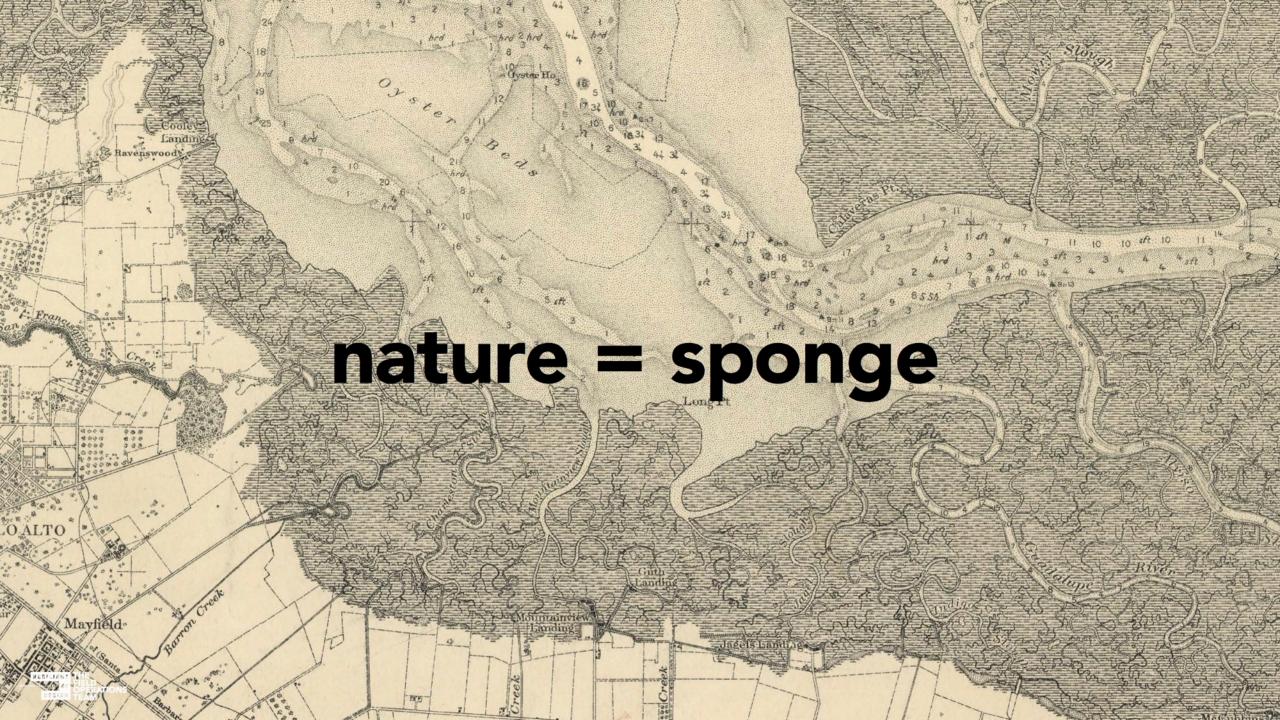




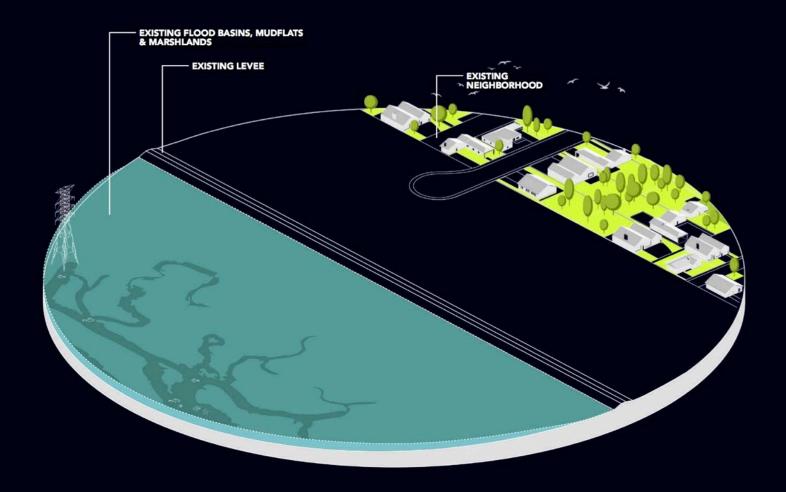






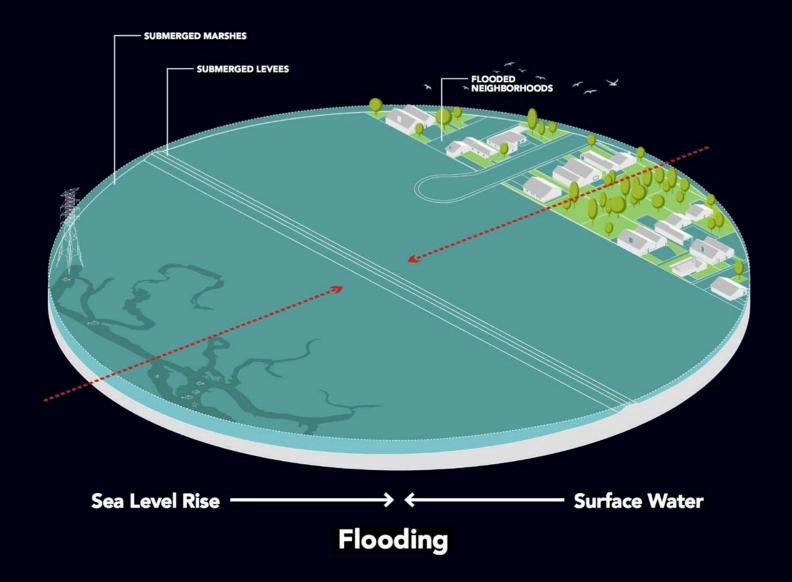




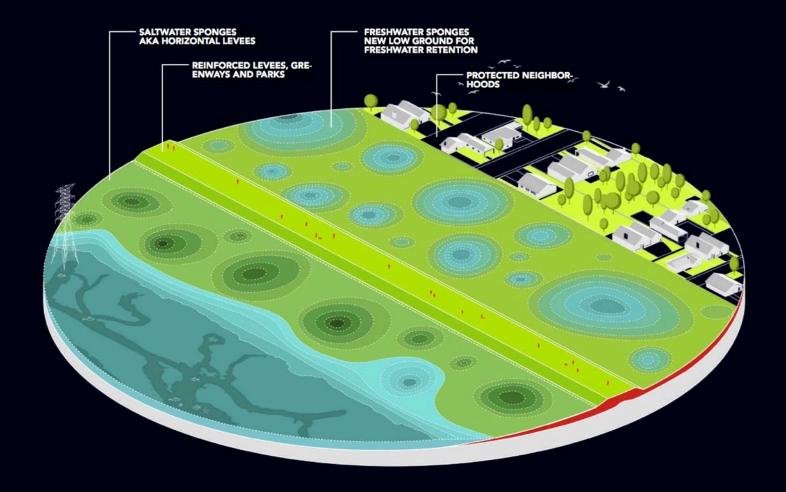


The Bay Edge Today (East Palo Alto)









The Sponge













South Bay Sponge Soft infrastructure for climate adaptation





What's Next

- Building on momentum
- Identifying promising opportunities
- Cultivating local and regional champions
- Finding funding!





