## RESILIENT

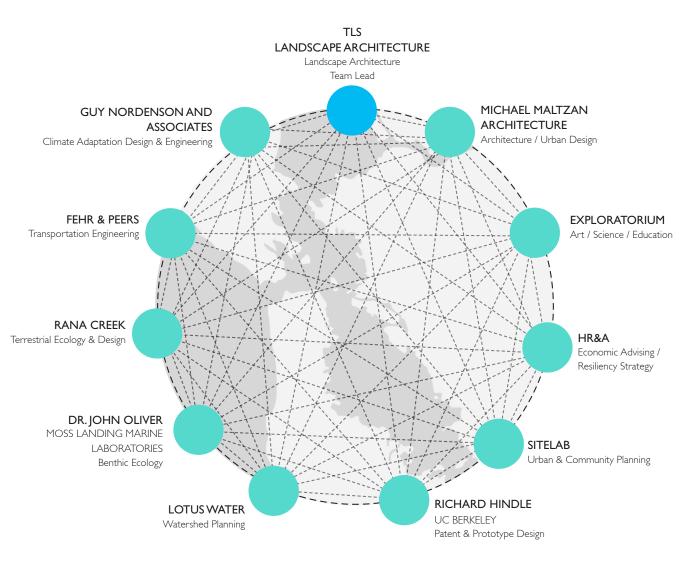
BAY AREA CHALLENGE

BY

DESIGN

A collaborative design challenge committed to developing creative, community-driven solutions for building a more resilient future for the Bay Area.

# COMMON GROUND THE TEAM





## TLS LANDSCAPE ARCHITECTURE



# SITELAB URBAN STUDIO URBAN DESIGN

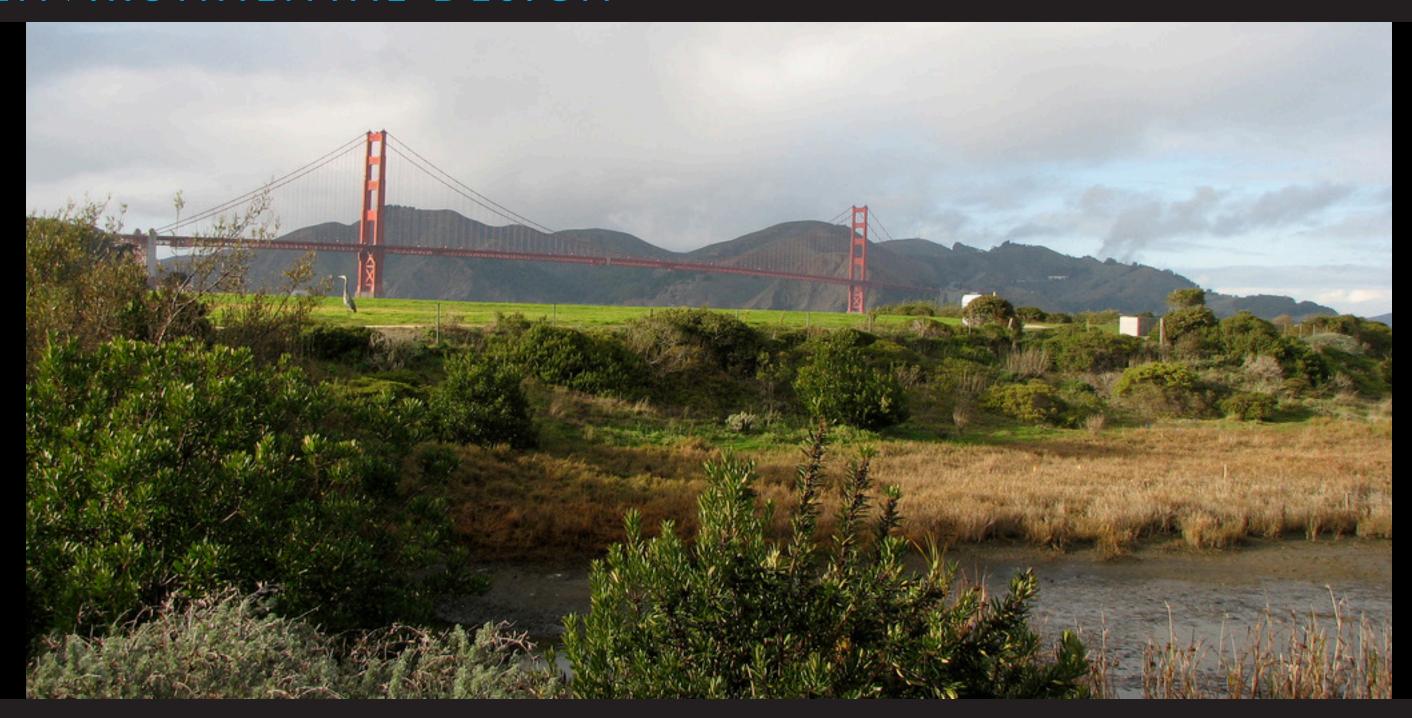


# EXPLORATORIUM ART / SCIENCE / EDUCATION

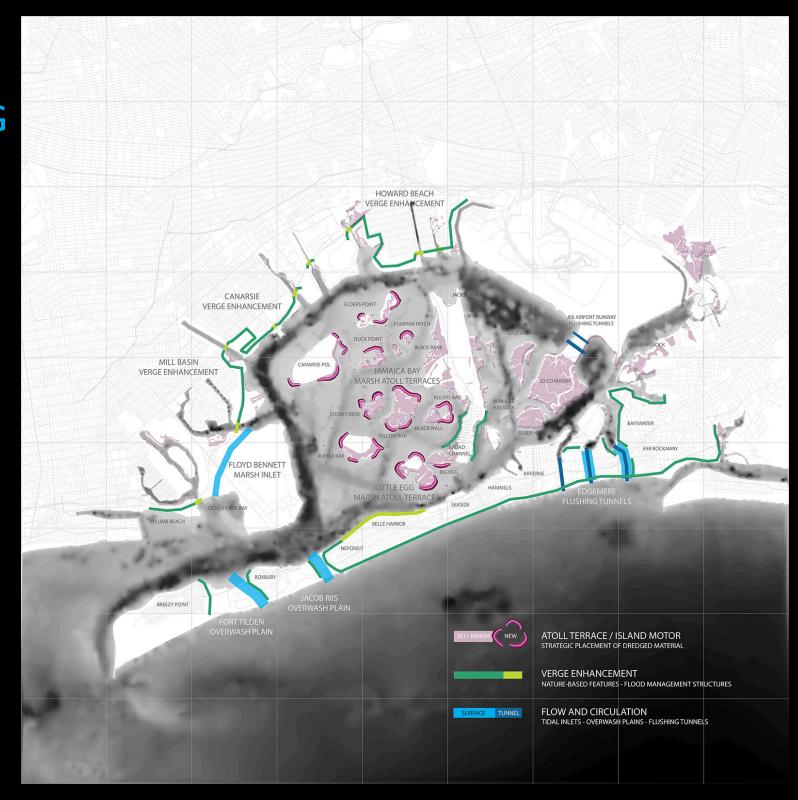




## RANA CREEK ENVIRONMENTAL DESIGN



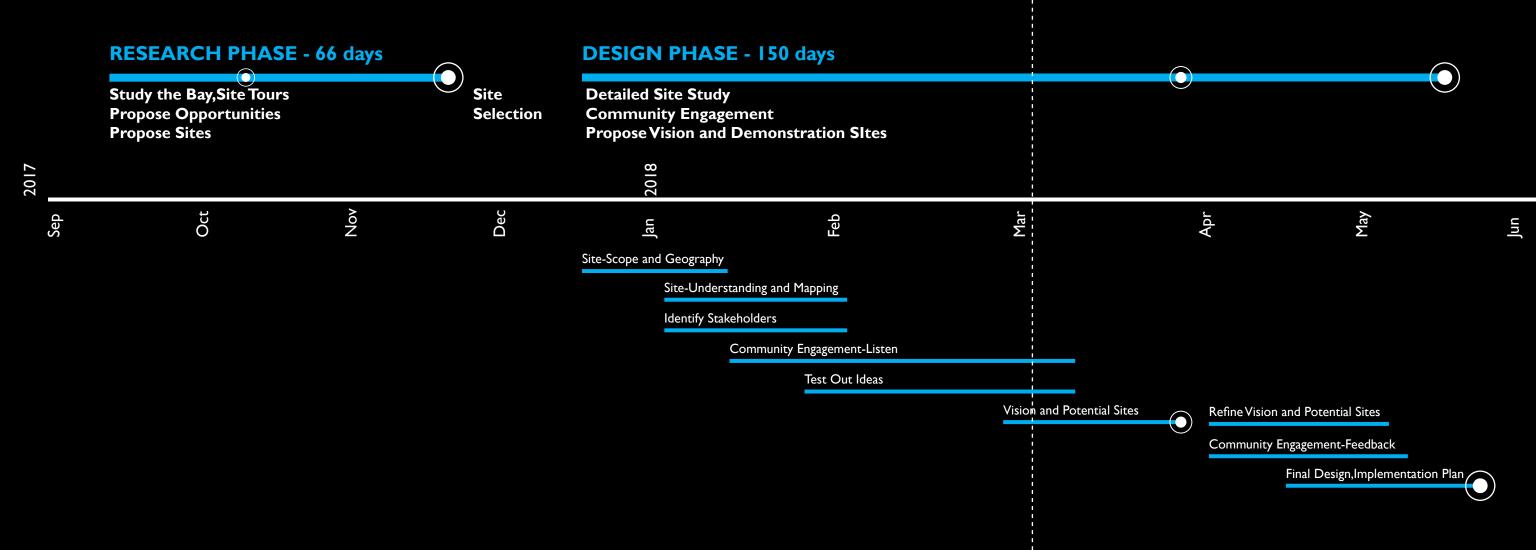
### GUY NORDENSON CLIMATE RESILIENCE STRUCTURAL ENGINEERING



## MICHAEL MALTZAN ARCHITECTURE



# COMMON GROUND PROCESS/TIMELINE







## REBUILD BY DESIGN NYC







## COMMON GROUND

An Approach to the Incremental+ Instantaneous Dynamics of the Bay Area Shoreline









### **EARLY SETTLEMENT**

WATERFRONT WATER TRANSIT

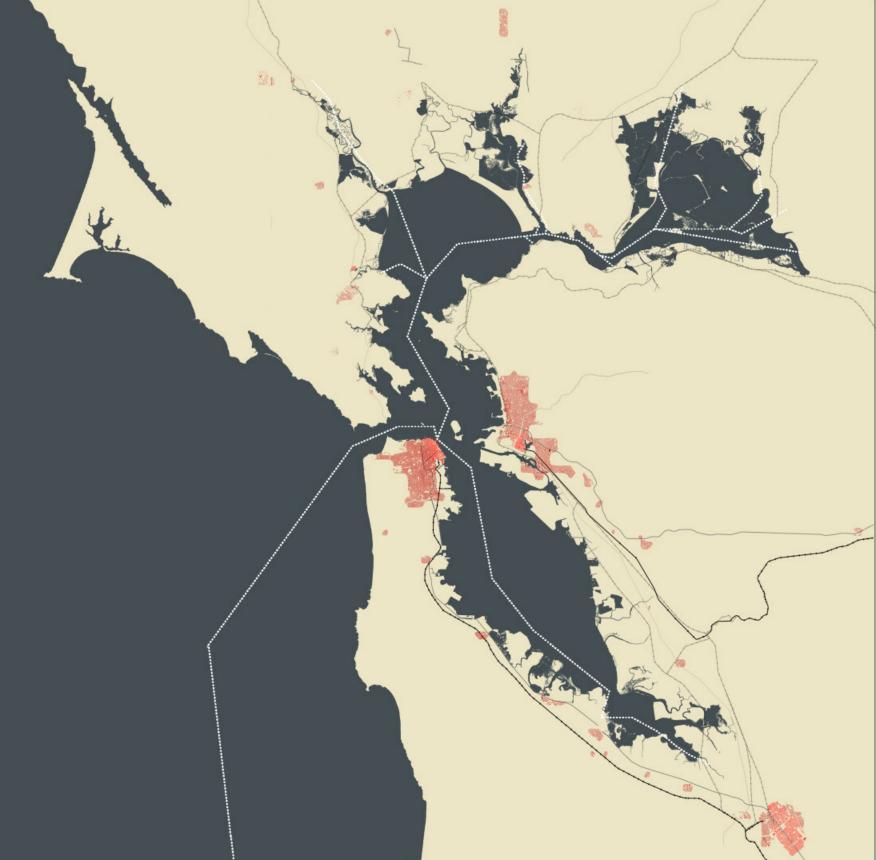




### **INDUSTRIALIZATION**

RECLAMATION ALONG BAY WATERS RAILROADS

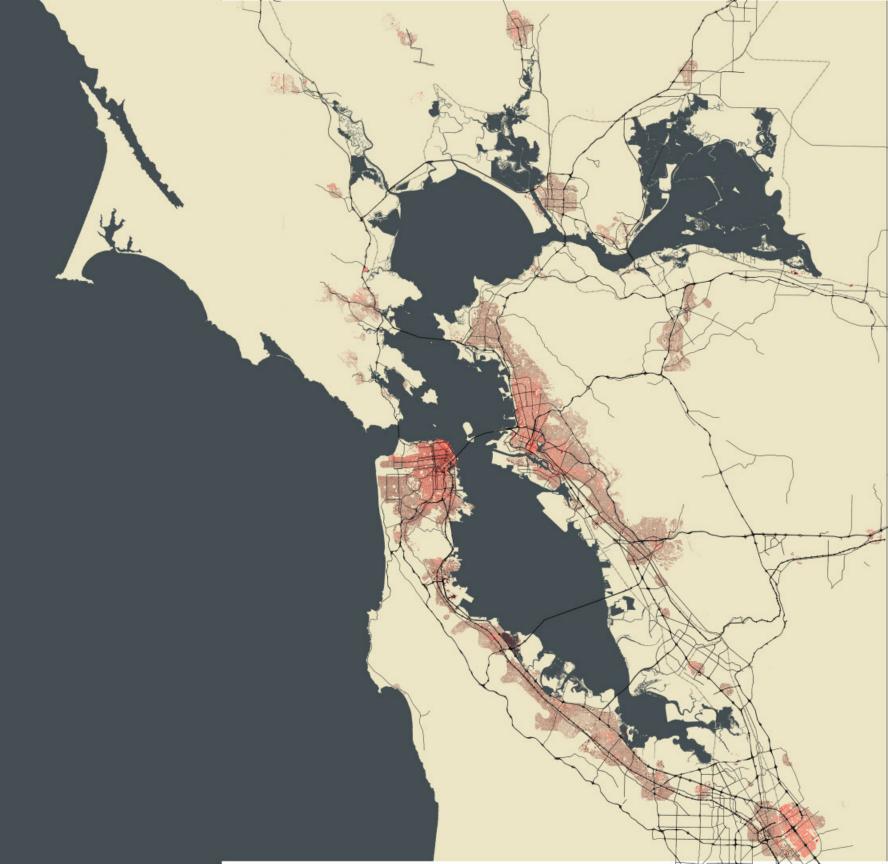




### **POST WWII**

CROSS BAY & INLAND BRIDGES AND ROAD





#### **TODAY**

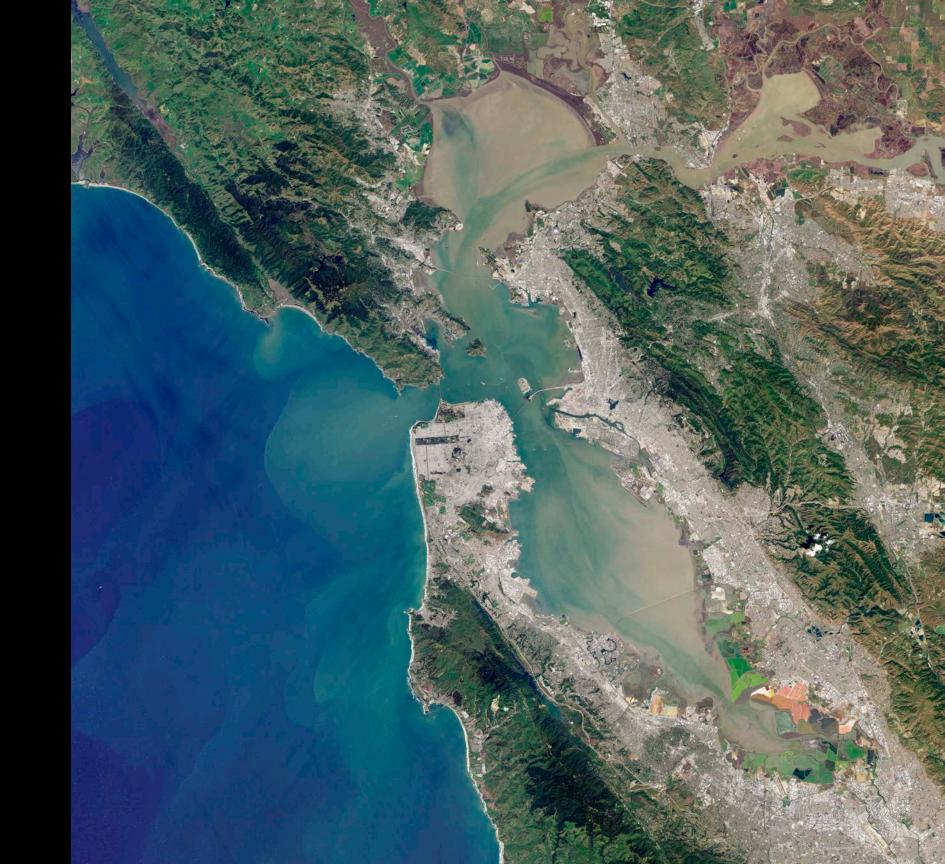
EXTENDED AUTO COMMUTING WATERFRONT REDEVELOPMENT

GROW THE BAY?
INCREASED WATER TRANSIT?





## SAN PABLO BAY



**Agricultural Valleys** 

San Pablo Bay

San Francisco Bay

**South Bay** 

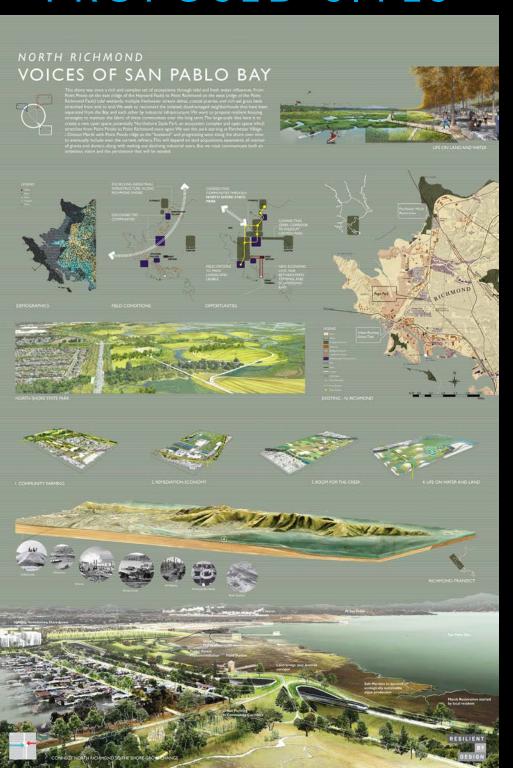


### SAN PABLO BAY - THE WORKING ESTUARY

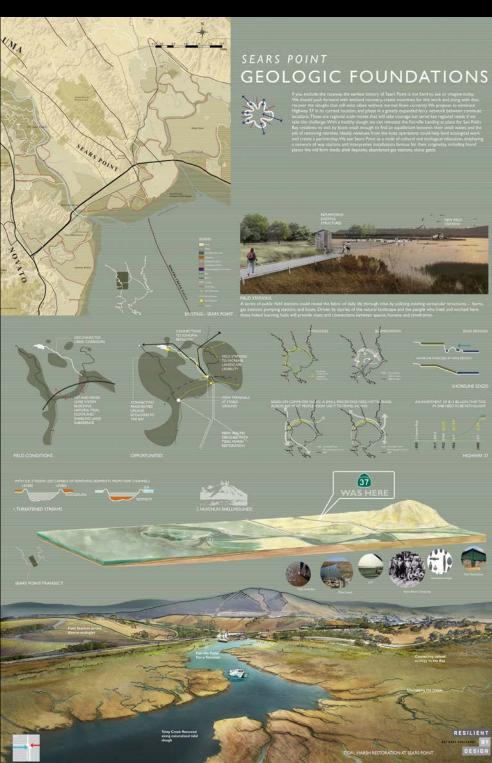


The Petaluma Heritage Mural in Petaluma, California by Steve Della Maggiora

# COMMON GROUND PROPOSED SITES

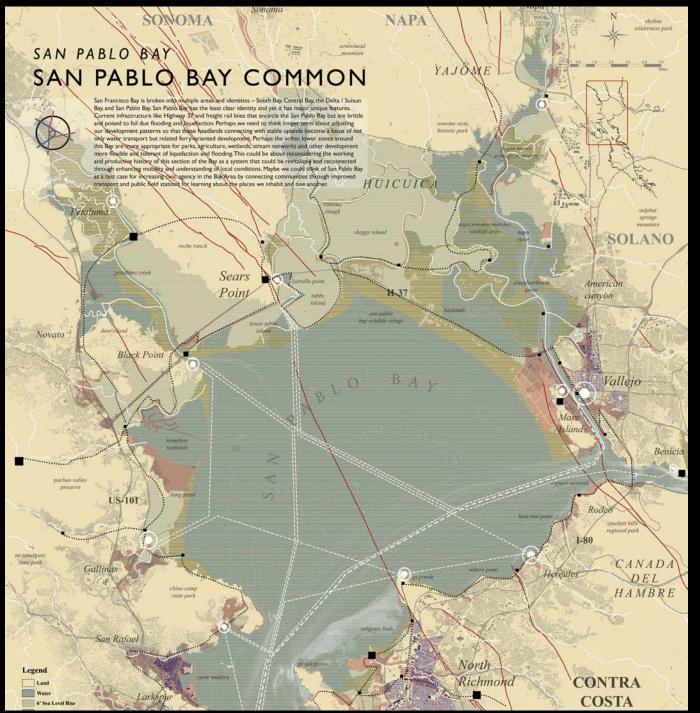






#### 10 SELECTED SITES

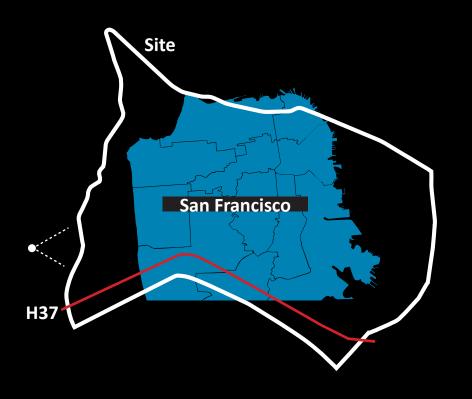
RESILIENT BY DESIGN BAY AREA CHALLENGE







### COMMON GROUND Site





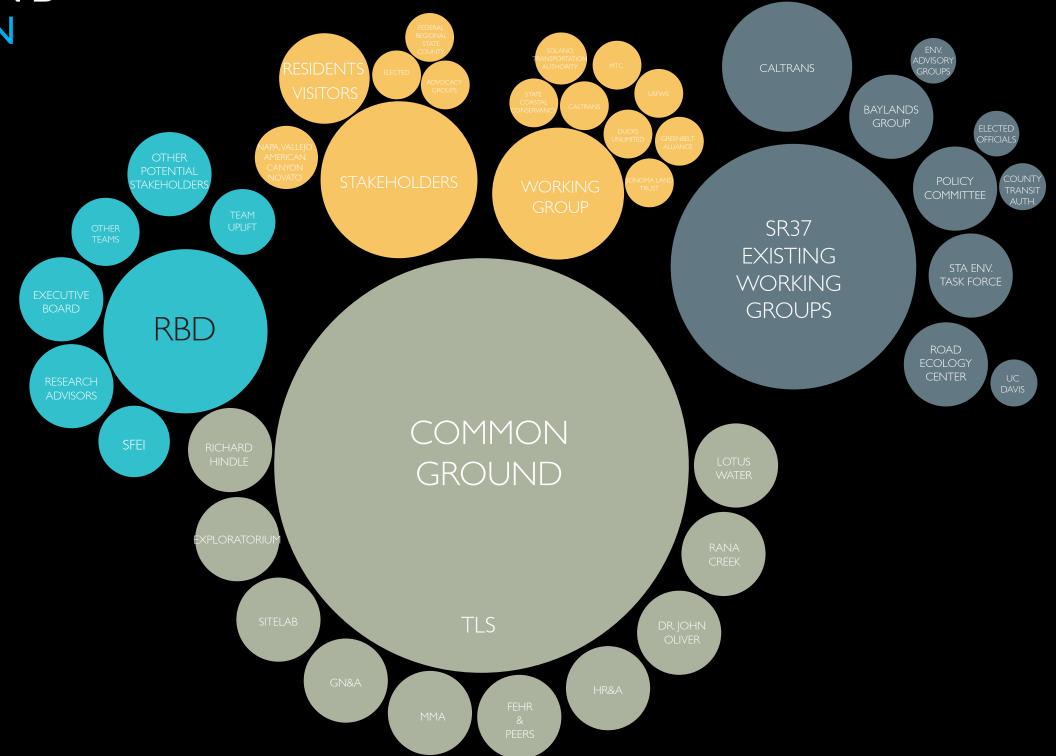
## COMMON GROUND 6' SLR (2100)







# COMMON GROUND COLLABORATION



## COMMON GROUND GOALS for RESILIENCY

### BAYLANDS GOALS

from "Baylands and Climate Change: What We Can Do" and "San Pablo Baylands: Ensuring a Resilient Shoreline"

RESILIENT BY DESIGN

### SR37 GOALS

from "SR 37
Transportation and Sea
Level Rise Corridor
Improvement Plan"

#### COMMUNITY GOALS

from previous surveys and our own outreach events in north bay communities

#### **LISTEN**

Understand and incorporate the goals of stakeholders and local communities.

#### **BUILD**

Build from the efforts of other working groups.

#### **SUPPORT**

Support the ongoing process to redesign SR37 and restore marshlands.

#### **ENVISION**

Provide a vision for the future that addresses sea level rise and offers positive outcomes for nearby communities, wildlife, and transportation.

# COMMON GROUND OUTREACH

FLYWAY FESTIVAL

MARE ISLAND FEB 10th & 11th







### COMMON GROUND OUTREACH

#### WHAT NAME

would you use to identify this region?

#### QUÉ NOMBRE

usaría para identificar esté región?

#### HAVE YOU VISITED

the marshes around Highway 37? Why?

#### ;HA VISITADO

los pantanos del Highway 37? ¿Por qué?



What would you like to see in the Baylands IN THE FUTURE?

¿Qué le gustaría ver en Baylands EN EL FUTURO?

trails

bird sanctuares marker, sight, education al

#### WHAT NAME

would you use to identify this region?

#### QUÉ NOMBRE

usaria para identificar esté

SKUPAGLO BAY wex/mbs

#### HAVE YOU VISITED

the marshes around Highway 37? Why?

HA VISITADO los pantanos del

Highway 37? ¿Por qué?

I have but its hadgo get

6 when 4 a hung - it takes too much time / Bur o watches



What would you like to see in the Baylands IN THE FUTURE?

¿Que le gustaria ver EN EL FUTURO?

gate rood up so wildlet

the majority of you were:





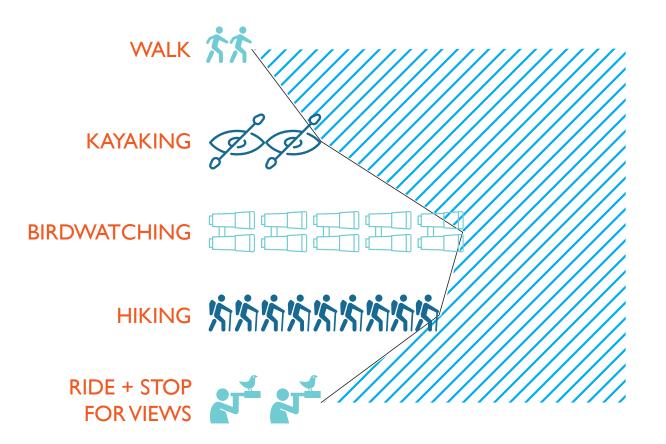
we asked you what name you use to

## **IDENTIFY THIS REGION**



why you visit the

## MARSHES AROUND HIGHWAY 37



### WHY YOU HAVEN'T VISITED

the marshes around Highway 37...

"It seems as if nothing is there"

"Don't know the right spots to check out"

"Explanation of how the estuary works — what is happening here?

"Not easily accessed"

Need a "way to know the tides before you visit"

### COMMON GROUND OUR FOCUS

#### **IDENTITY**

Strengthen the identity of the San Pablo Bay Region to encourage better understanding of the baylands as a major ecological and educational resource.

#### **ADAPTATION**

Provide new strategies for adaption of the San Pablo Baylands in response to sea level rise.

#### **MOBILITY**

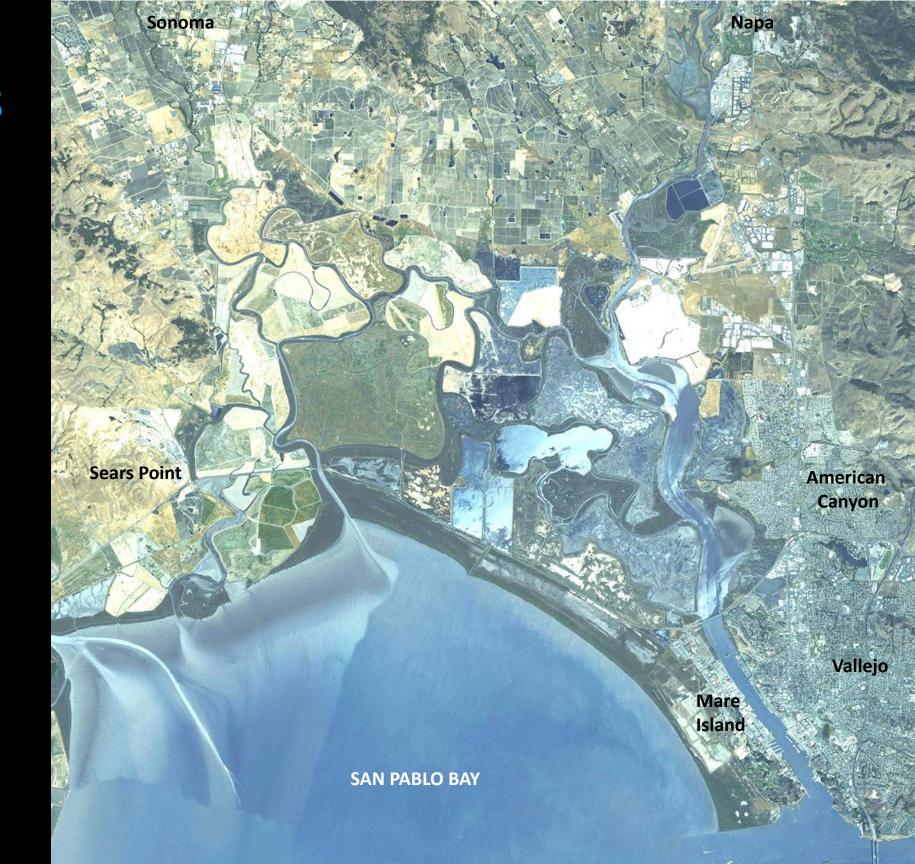
Deliver long-term inter-modal connections around and across the San Pablo Baylands.

#### **ACCESS**

Provide more equitable access to the communities of San Pablo Bay, with particular attention given to programs for disadvantaged communities to broaden the constituency for these baylands.



## SITE EXISTING CONDITIONS







# SITE ANALYSIS SEDIMENT SOURCES

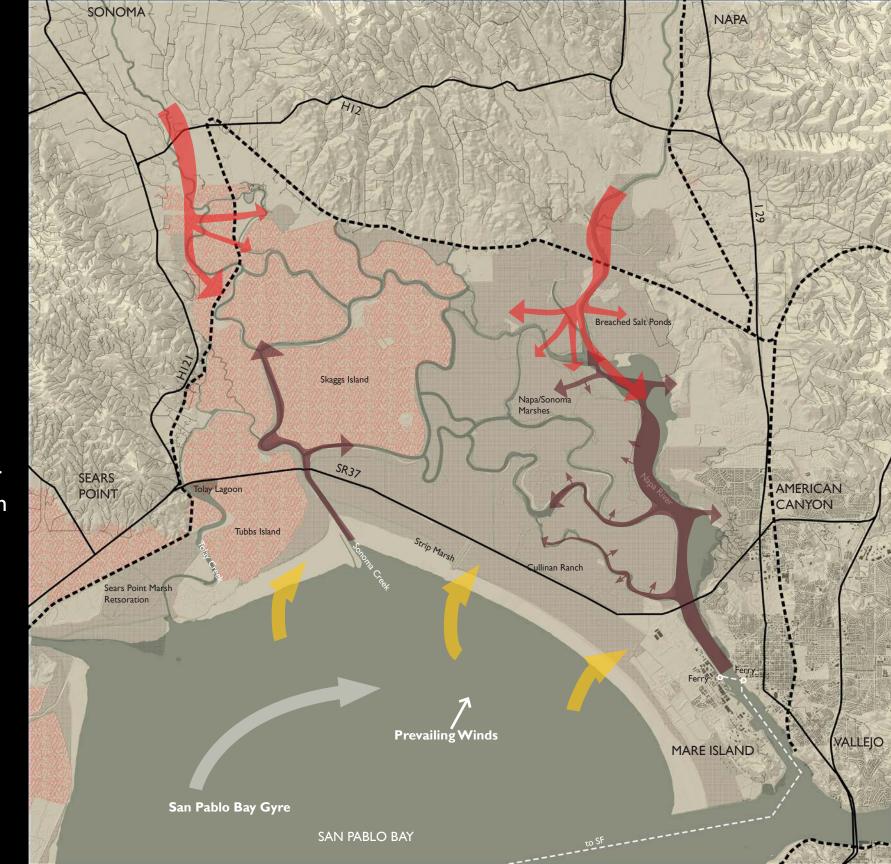
RIVER/CREEK (from north)
Sonoma Creek and Napa River account for 1/3 of total sediment entering the bay

TIDAL (from sides)
Sloughs, Tolay Creek, Sonoma Creek, Napa River

WAVE (from south)
From waves from San Pablo Bay
This has led to strip marsh accretion of 20'-30'/year
over the last 150 years but is predicted to slow with
sea level rise.

Diked land parcels subsided up to 7' below current sea level

Restored/in process of restoration wetlands protected by strip marsh berm



## SITE SAN PABLO BAYLANDS

#### **STRATEGIES**

- ELEVATION CAPITAL
- SR 37 CAUSEWAY
- TERRAFORMING
- LOOPS & GATEWAYS

#### **OPPORTUNITIES**

- SCENIC SR37
- NATURAL & CULTIVATED ADAPTION
- INCREASE ACCESS AND LEGIBILITY

#### **IDENTITY**

SAN PABLO BAY WILDLIFE REFUGE ?

SCENIC CORRIDOR ?

REGIONAL PARK ?

STATE PARK ?

BAYLANDS NATIONAL SEASHORE?



