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BY

Resilient by Design DESIGN North Bay Watershed Association Conference Petaluma, CA

Allison Brooks Executive Director Bay Area Regional Collaborative April, 5 2018



Bay Area Challenge

Jun	InL	Aug	Sep	Oct	Νον	Dec	Jan	2018	Feb	Mar	Apr	May
Challenge Launch				Research Phase			Design Phase					
May 31				September 1			December 1					
RFQ released				Collaborative Research			Collaborative Design Phase					



RESILIENT BAY AREA CHALLENGE BY DESIGN

Executive Board





KIRAN JAIN.

NEIGHBORLY









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Research Advisory Committee







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LETITIA GRENIER NAHAL GHOGHAIE JESUS HERNANDEZ JEFFREY KOSEFF **DAVID LEWIS**





LINDY LOWE

















BRUCE RIORDAN

RUPAL SANGHVI PARIN SHAH **CATHY SIMON**

MARK STACEY RICK THOMASSER

ELIZABETH WAMPLER

CORINNE WINTER

Research Advisory Committee



Academic

- Stanford Woods Center for the Environment
- [■]UC Berkeley Department of Engineering

Government

- ABAG Resilience Team
- Bay Area Flood Protection Association
- BART
- BCDC

Private Sector

- PG&E
- Winter Consulting

Regional Planning

- SPUR Transportation Policy
- Great Communities Collaborative
- Climate Readiness Institute

Environmental advocacy and expertise

- Save the Bay
- SF Estuary Partnership
- San Francisco Estuary Institute
- Point Blue Conservation

Environmental Justice and Health

- Resilient Communities Initiative
- APEN
- Center for Race, Poverty and the Environment
- JCH Advisors
- HealthxDesign

Design

- WRT
- AIA Fellow



Finance Advisory Team



MARK NORTHCROSS, NHA ADVISORS



BOB SPENCER, URBAN ECONOMICS



BRIAN BENN, ENVIRONMENTAL RISK AND FINANCE SOLUTIONS



MICHAEL PAPARIAN, STATE FINANCE EXPERT



SHALINI VAJJHALA, RE:FOCUS PARTNERS



KATHY SCHAEFER, UC DAVIS

Youth Engagement

Universities

 12 graduate level classes participated in Resilient by Design in the Fall from:

- California College of the Arts
- UC Berkeley
- •UC Davis
- Stanford

Schools

 K-12 students participating throughout the challenge through our partnership with Y-Plan

BAY AREA CHALLENGE

DESIGN





Funding Partners

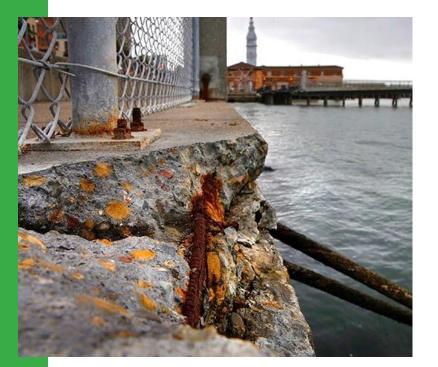




CREATIVE SOLUTIONS, LASTING RESULTS







An Open Call

San Francisco Chronicle

Design teams compete for best solution to sea-level conundrum

An ambitious design competition that seeks to make the Bay Area a model for how to prepare for sea-level rise kicks off this week.





Design Team Applications



- 51 teams applied
- 10 teams selected
- -215 team members
- 92 firms represented
- -6 countries represented

RESILIENT BAY AREA CHALLENGE BY DESIGN

Design Teams



THE ALL BAY COLLECTIVE AECOM

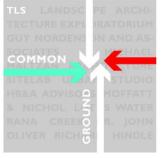


BIG + ONE + SHERWOOD BIG

Bionic



BIONICTEAM



COMMON GROUND TLS



THE FIELD OPERATIONS TEAM **Field Operations**



HASSELL+ HASSELL



THE HOME TEAM Mithun



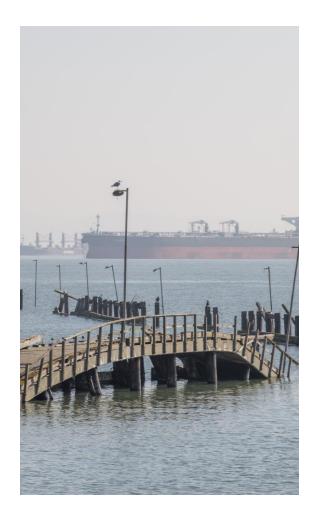
PERMACULTURE + SOCIAL EQUITY TEAM (P+SET) Base Landscape



PUBLIC SEDIMENT SCAPE



Open Call for Site Ideas



- •What would make this site a good fit for the design challenge?
- •What are the potential vulnerabilities that threaten the site?
- Do you know who owns or controls this land?
- •What's threatened at this site (i.e. homes, highways, public transportation, wildlife habitat, recreational areas)?
- •What local partners would need to be involved for it to be successful; what has their involvement been to date?
- •What local plans exist or are underway in this area?



Site Idea Engagement



Creating a region-wide constituency •Over 10,000 stakeholders reached via in-person meetings and partner outreach

803,000 impressions via social media

102 site ideas submitted





Stakeholder Engagement on Tours



9 counties

26 cities

126 city officials

49 community organizations

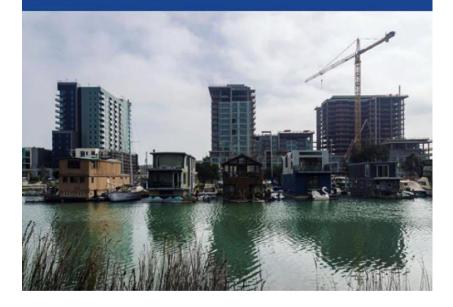
•Over 2,000 members of the public at community events

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Digital Engagement

#RESILIENTBAY

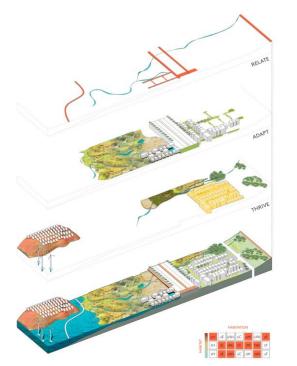
Mondays are for resilience.



- •1,106 Instagram followers
- •7,873 likes
- 48,500 website visitors
- -332,095 Twitter impressions

Building Knowledge





Briefing Book

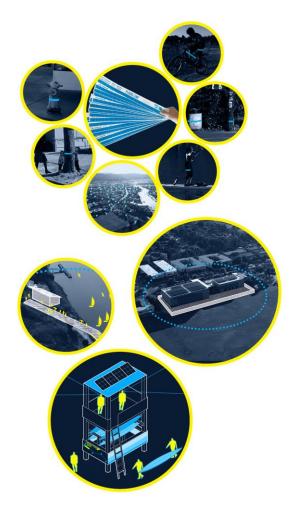
Research findings by teams

Finance Guide





Listening to the Region



DESIGN OPPORTUNITIES FEEDBACK

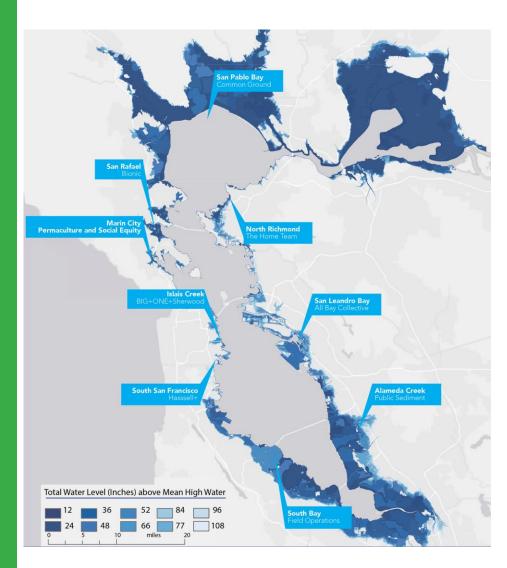
- 1,976 watched presentations online
- 450 people attended open house
- 5 locations hosted design boards
- -5,666 people viewed designs through a tool designed Neighborland

-520 comments received from the public

Matching Design Teams to Design Opportunities



Design Opportunity Sites



• All Bay Collective | Oakland and Alameda, San Leandro Bay

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DESIGN

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

P + SET

Regional Resilience

 Community resilience curriculum building off of permaculture principles and ethics and coastal adaptation strategies

- Key outcomes include training of Community Resilience Ambassadors
- Pilot in Marin City







WHAT'S NEXT - DELIVERABLES

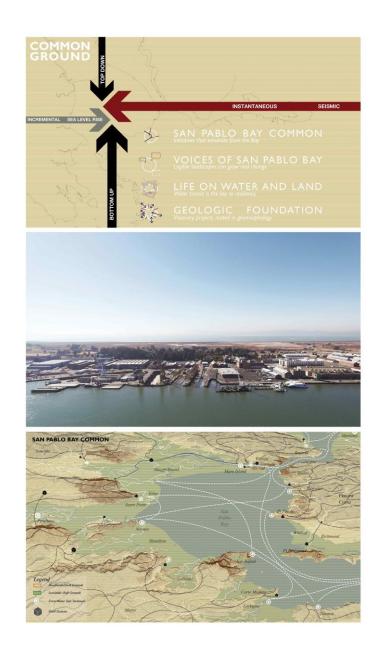
- 1. CPP Process Document CPP overview and plan to implement in other communities
- 2. Community Capacity Building Training
- 3. Preliminary People's Plan for Marin City Living Document base map with particular strategies sited 1-2 detailed small solution projects that the community can take action on as early as this summer
- 4. Video Documentation Our process and community interaction



Common Ground

San Pablo Bay

- Creating an identity for San Pablo Bay as a destination for Bay Area
- Addressing key challenges of Hwy 37, in the Sonoma County stretch in particular
- Restoration, recreation and transportation focus

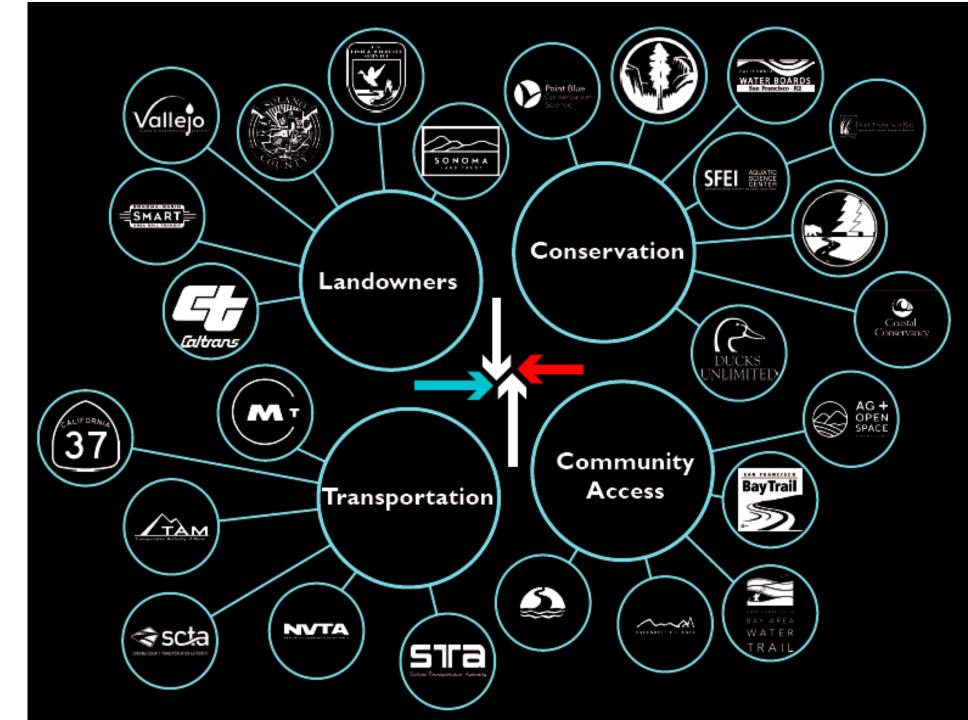


TLS Landscape Architecture | Exploratorium | Guy Nordenson & Assoc | Michael Maltzan Arch| HR&A Advisors | Sitelab Urban Studio | Lotus Water | Rana Creek | Richard Hindle, UC Berkeley | Fehr & Peers Transportation Consultant



Common Ground

Partners & Stakeholders



WORKING GROUP

STAKEHOLDER GOALS

How can our work address stakeholder goals and add value to ongoing efforts?

SEDIMENTATION AND HYDROLOGY

Strategies to harness hydrological dynamics and prioritize use of our "sediment budget."

MOBILITY AND ACCESS

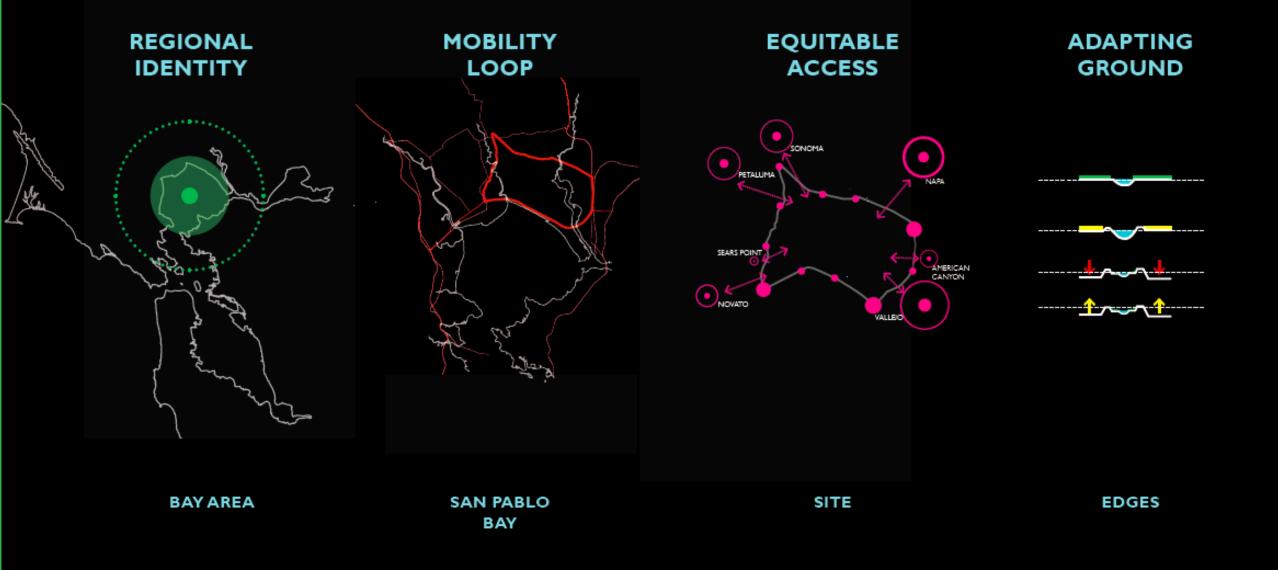
Highway alignments, potential rail resurgence, and equitable access.

COMMUNITY FEEDBACK, SITE IDENTITY, PROGRAMMING

Incorporating community feedback into our proposal.



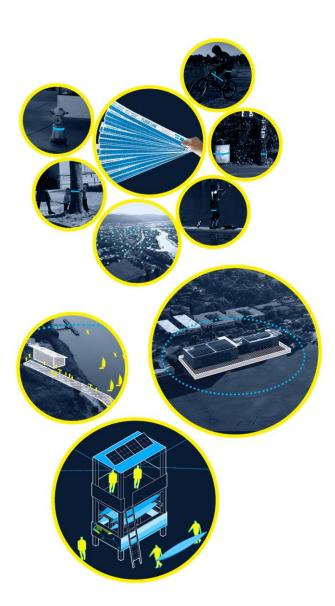
FRAMEWORK



Bionic Team

San Rafael

- Protect in-place while densifying at higher ground.
- Moveable shoreline phased protections
- Water management strategies – flooding, pumping, restoration, etc.



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BAY AREA CHALLENGE

Bionic Landscape | WXY | PennDesign | Michael Yarne | Enterprise | Moffatt & Nichol | WRA | RMA | Romberg Tiburon Center, SFSU | BAYCAT | Studio for Urban Projects | RAD Urban | Keyser Marston Associates

FLOOD FAIR 1

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405

This is a standard approach to flooding.

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What facilities

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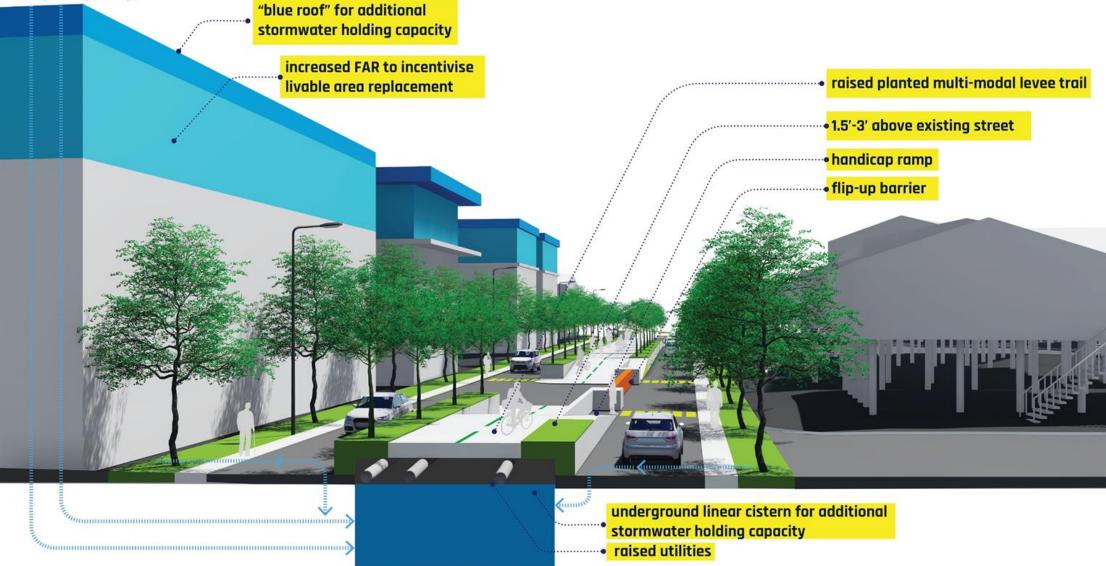
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If there was a flood, where would you go?





RAISE CANAL STREET





DESIGNING OUR FUTURE



MAY 17th Watch the Design Team presentations via livestream

MAY 18th

Reflections and lessons from the Bay Area Challenge, followed by a community celebration

www.resilientbayarea.org/summit

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Toward Implementation

RESILIENT BAY AREA CHALLENGE BY DESIGN

Pivot to Implementation



Key Strategies:

 Solidifying funding base Advancing regional policy objectives Streamlining regulatory environment Building Projects - Champions, Financing Measure AA, Regional Measure 3 Sustaining local/regional coalitions as advocates Strengthening the Field of Practice

