welcome!

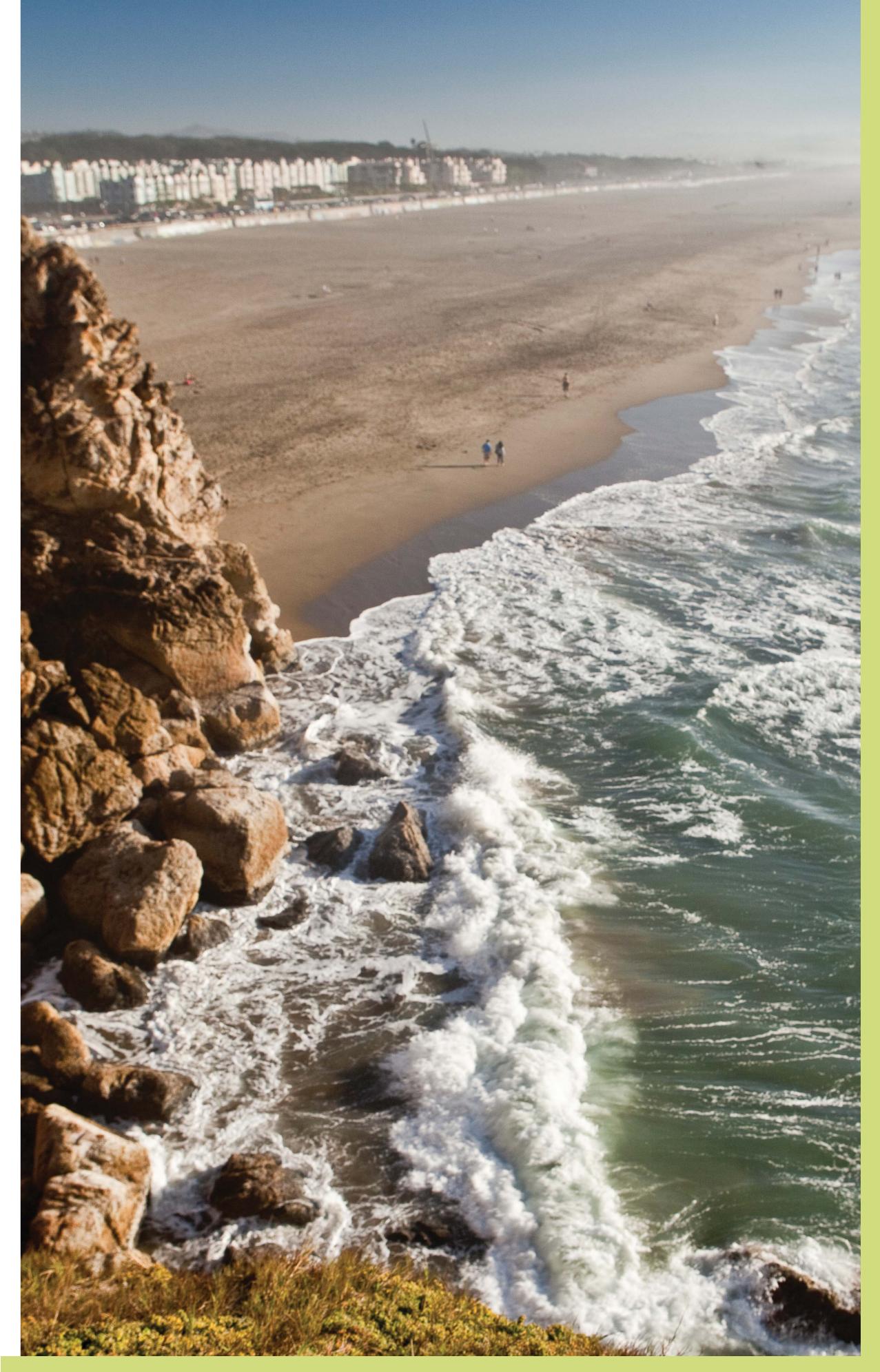
ocean beach master plan

workshop 1 : open house

open house "rules"

- + we are here to listen, please share with us any concerns, suggestions and ideas
- don't be discouraged if you notice something is incomplete/missing, please tell us what we overlooked and we will make it part of the process
- + this is the beginning of a conversation, send additional comments/questions/ suggestions to:

have fun!



questions? comments?

project website

www.spur.org/oceanbeach

project email

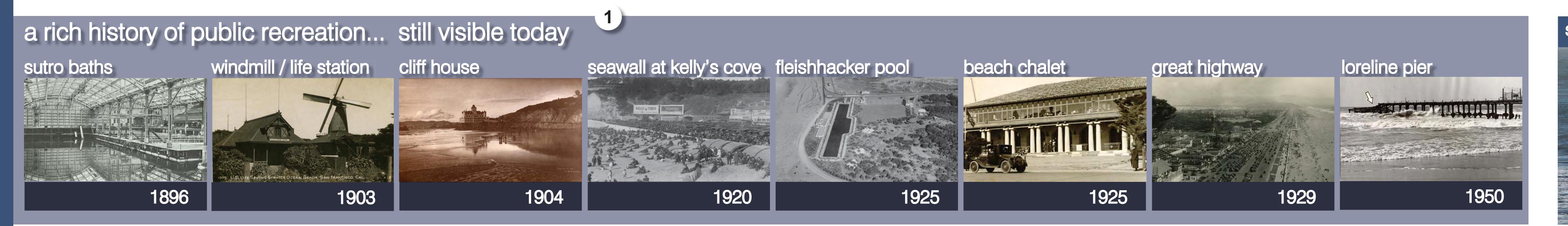
oceanbeach@spur.org

social media

facebook: ocean beach master plan (san francisco) twitter: @planoceanbeach

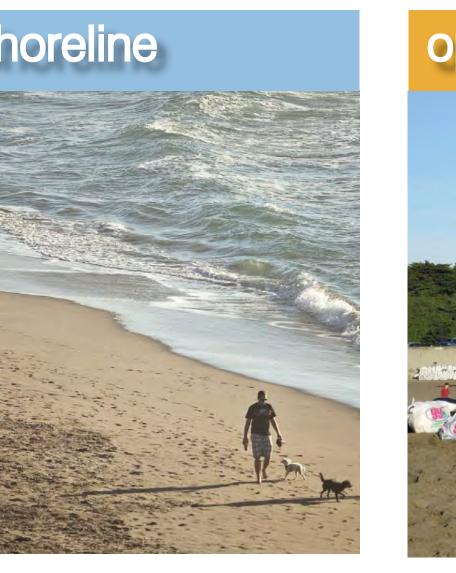
ocean beach image + character

workshop 1 - open house | jan 15, 2011



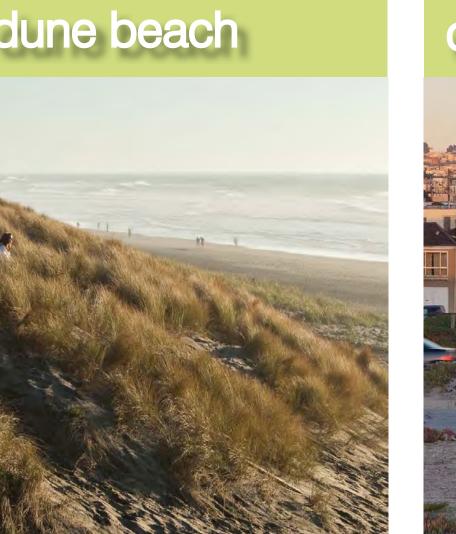
surf zone

linear zones













1 ocean beach (OB) has a rich and unique history

integrally linked to San Francisco and the Pacific Ocean

remnants of this history are still visible today

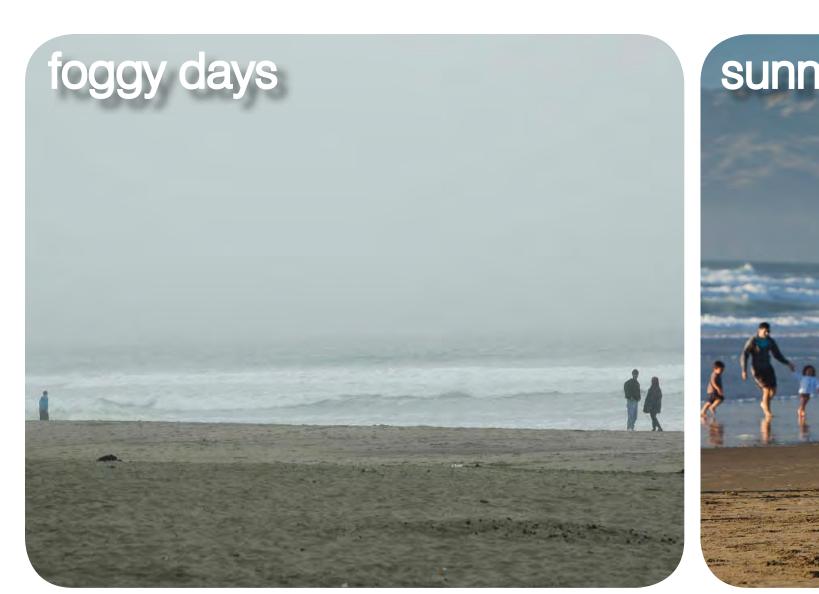


2 OB is a place of multiple, distinct characters

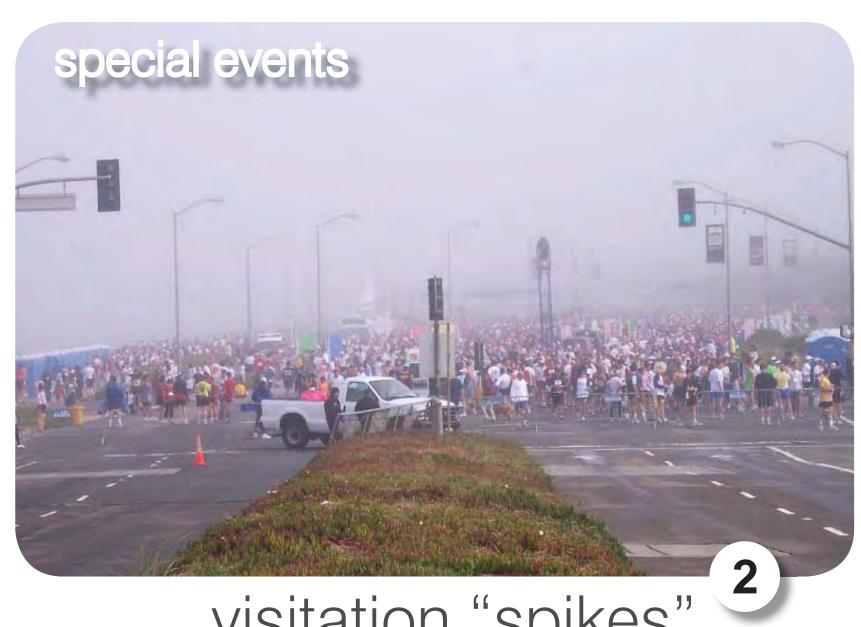
> from the ocean to the bluff trails, from the northern open beach to the southern beach dunes, for outdoor recreation and to enjoy the Pacific Ocean vast and dramatic landscape

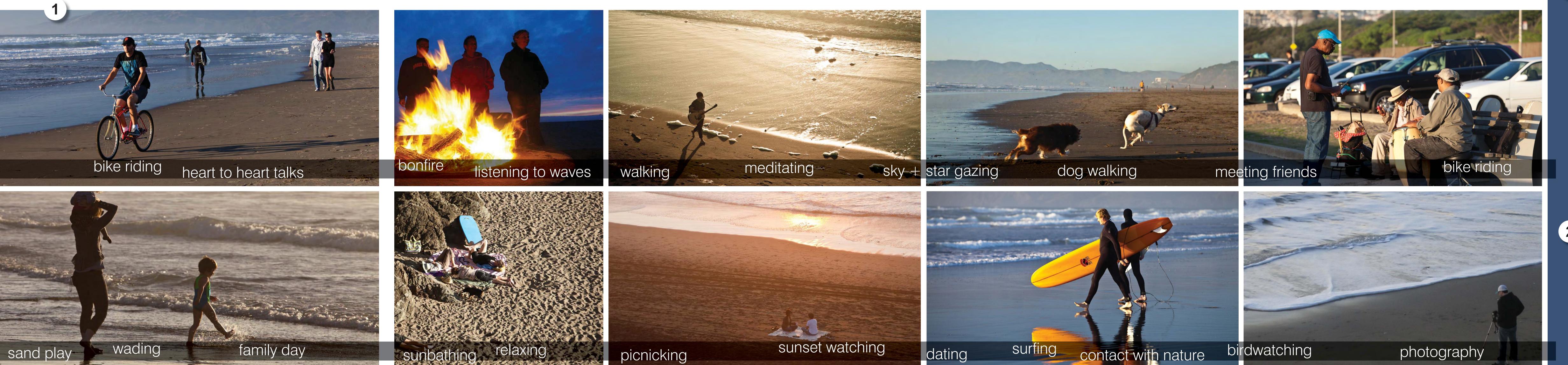
station 1.2 | uses + activities + program

• Lactivities + program





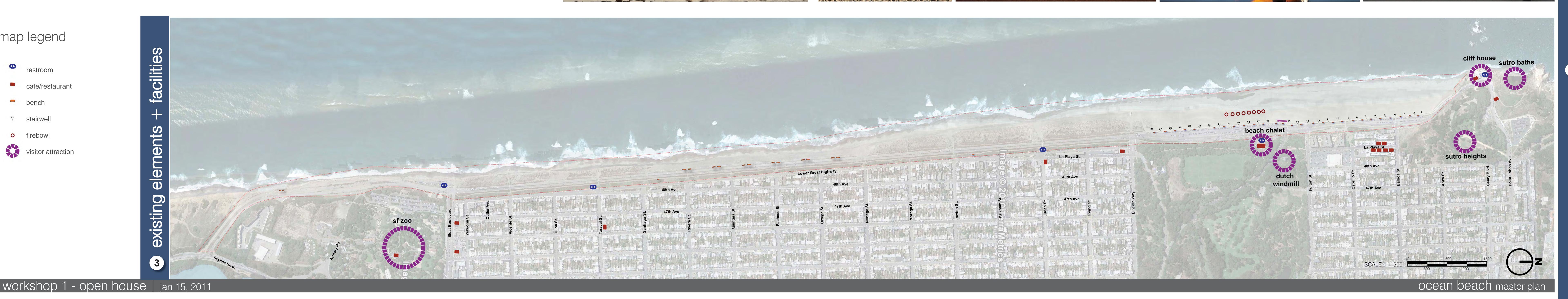




map legend

- cafe/restaurant

- visitor attraction



1 multiple activities currently take place at ocean beach

several user groups enjoy ocean beach every day

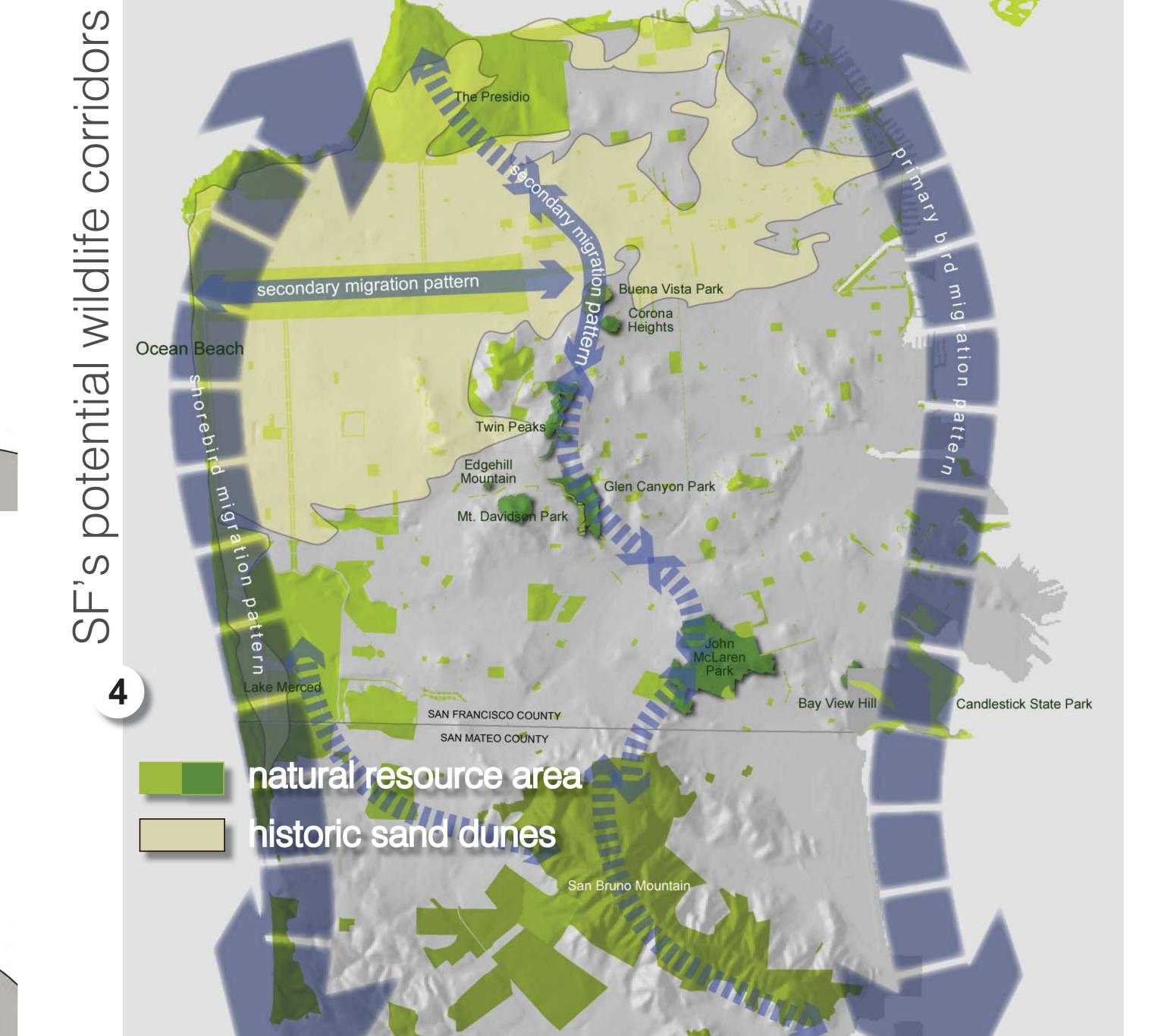
2 visitation pattern tends to be in 'spikes'

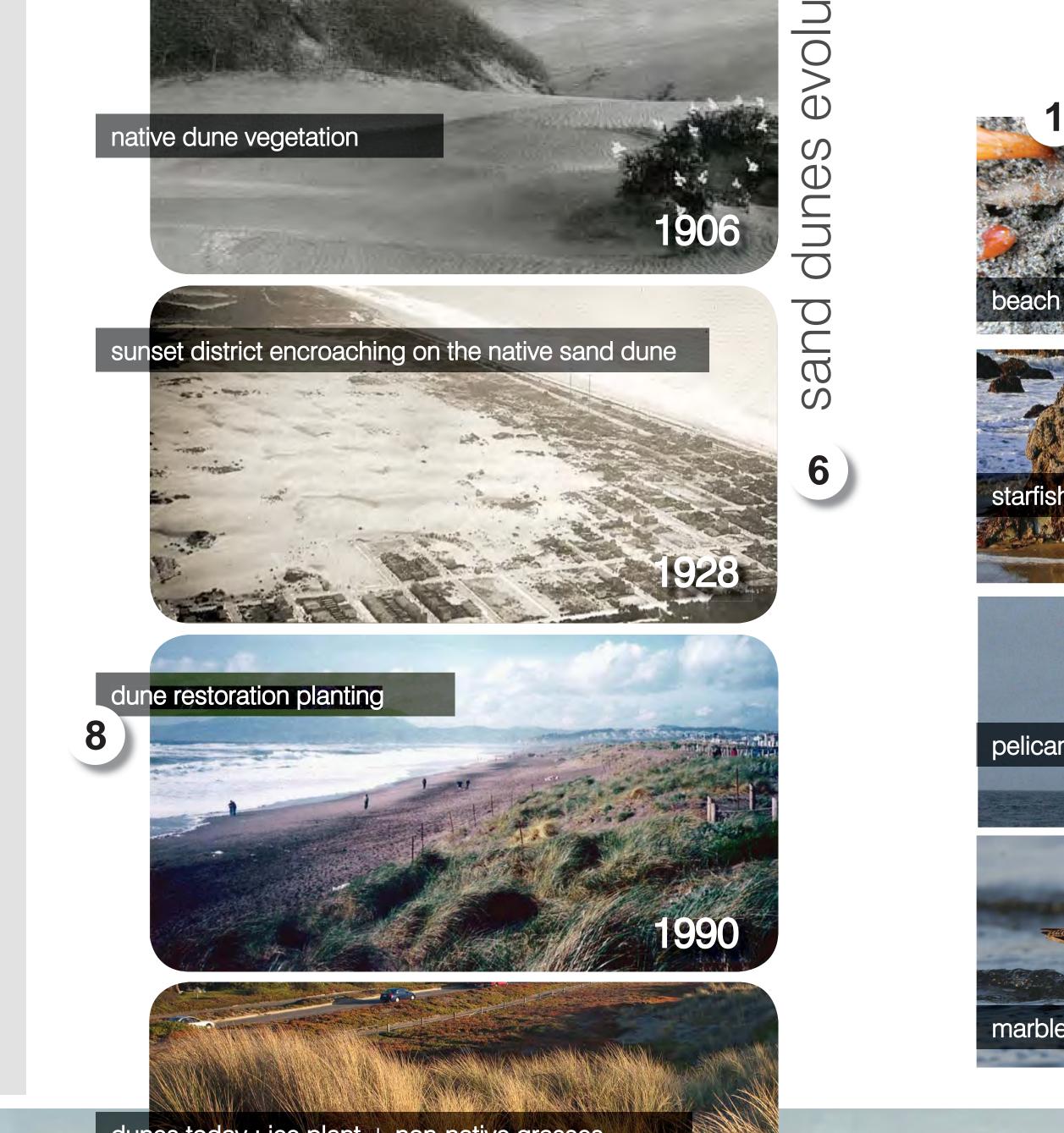
days and special events, low visitation during typical

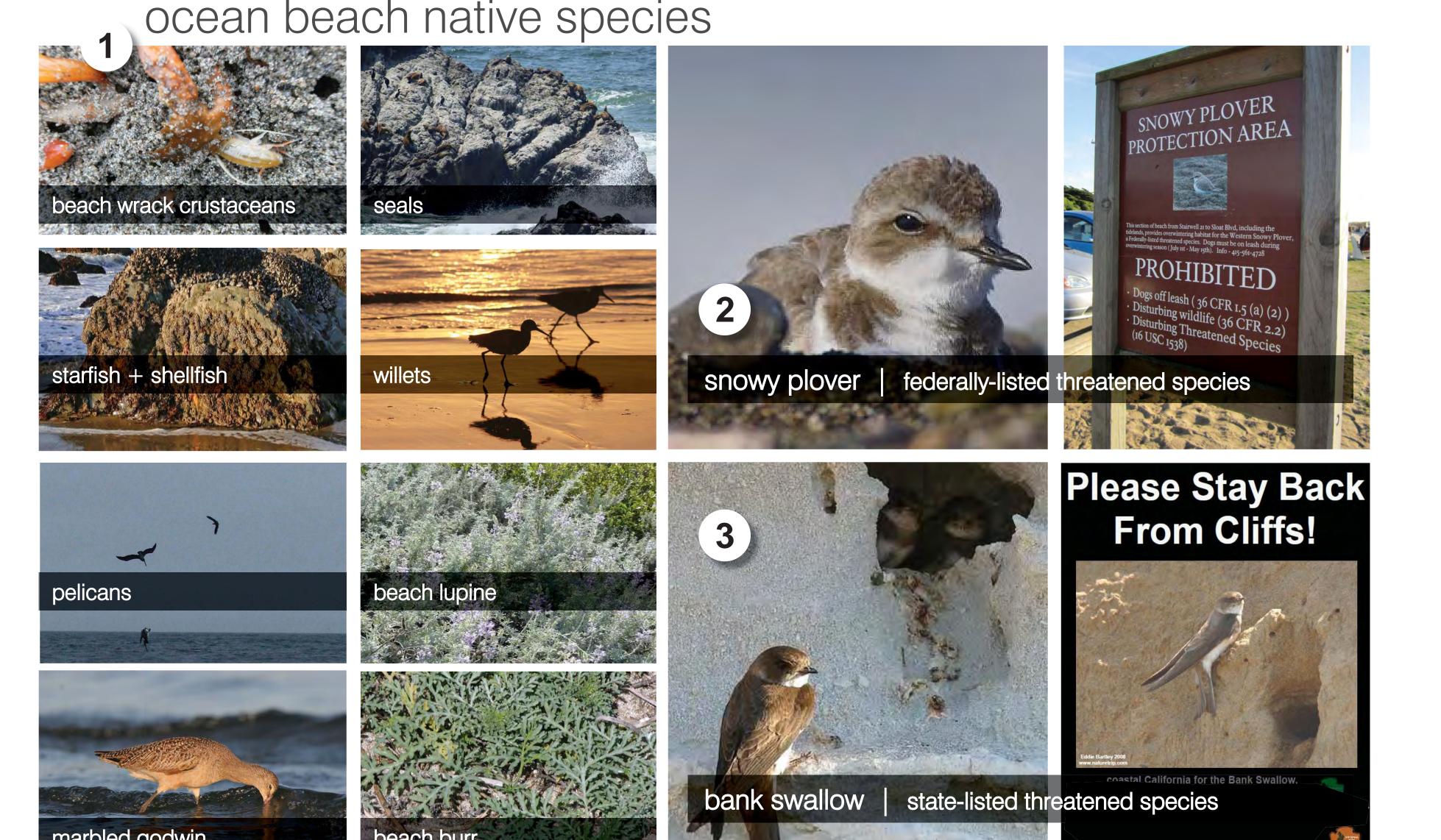
3 there is lack of public amenities + facilities at ocean beach



typical native dune section non-native dune | steep and dense











plovers overwinter on OB winter months average about 30 plovers

bank swallow state threatened species swallows nest on the cliffs of Fort Funston

4 OB's habitat potential

> OB provides very important sandy beach habitat along the pacific flyway for overwintering shorebirds

OB is probably the most important shorebird site in the GGNRA

sanderlings account for 70% of shorebirds on GGNRA coastal beaches

National Park Service Environmental Impact Statement (Plan/DEIS) for dog management

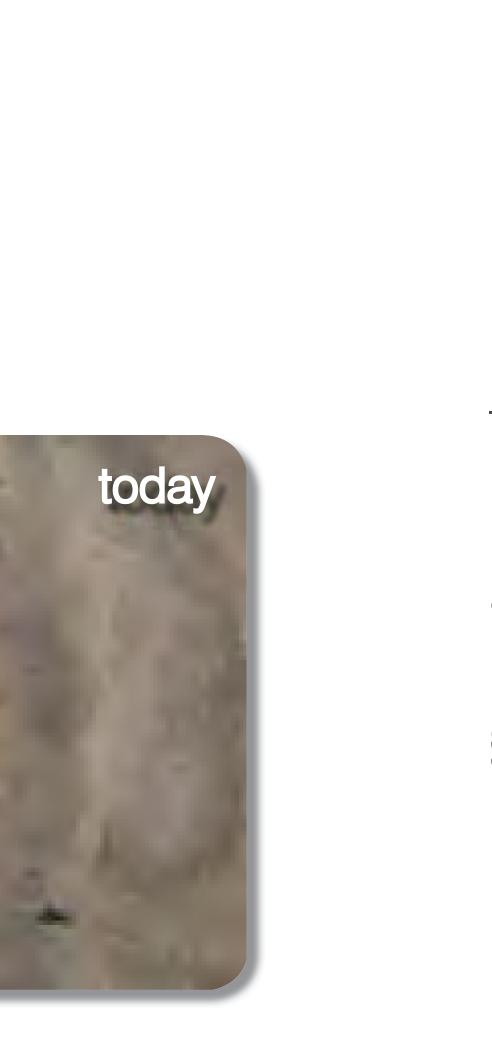
in GGNRA for a 90-day public comment period, ending on 4/14/11

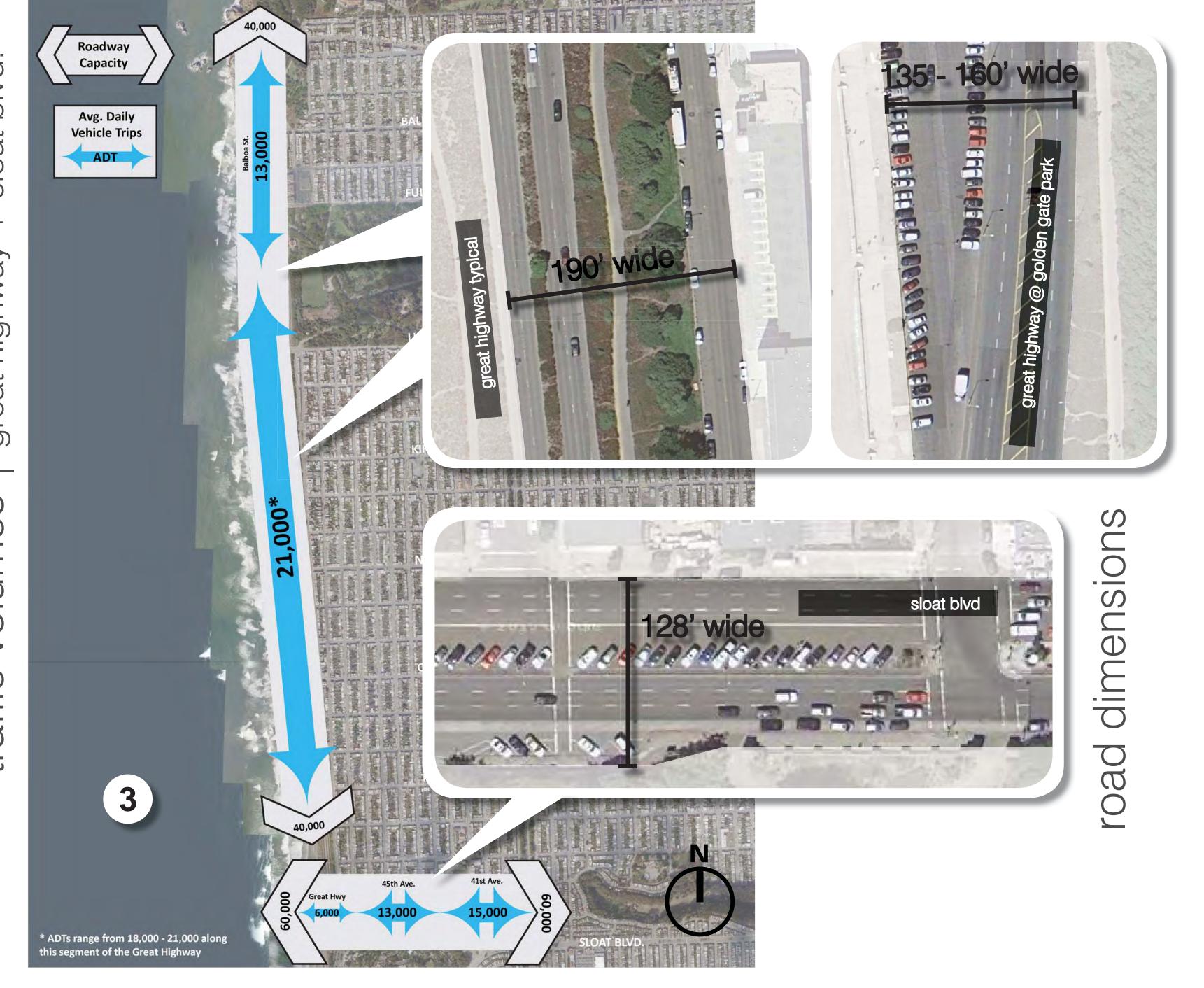
6 sand dunes

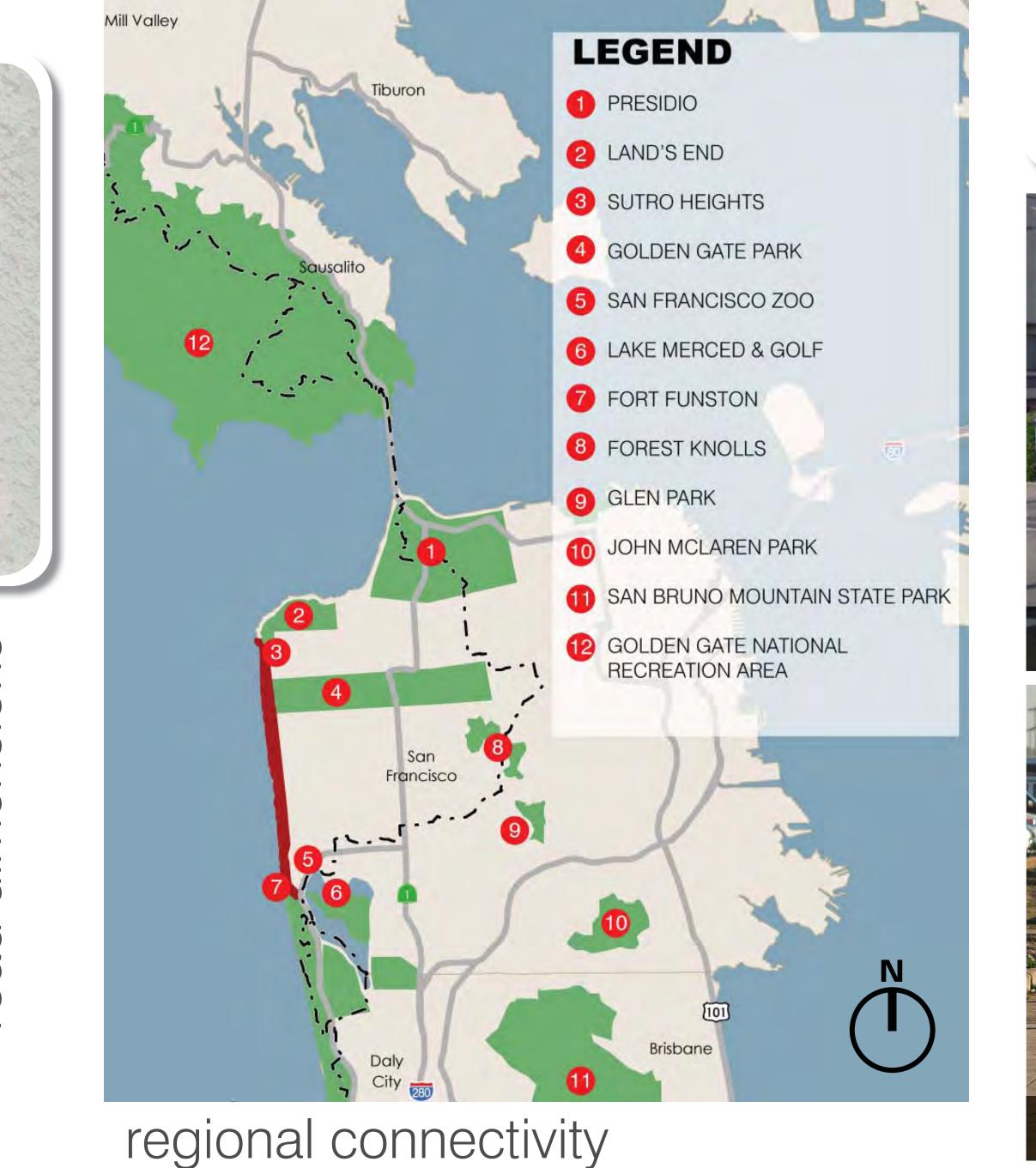




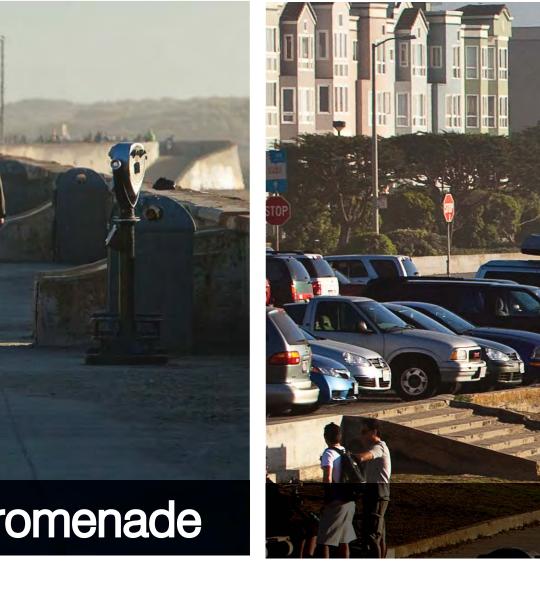






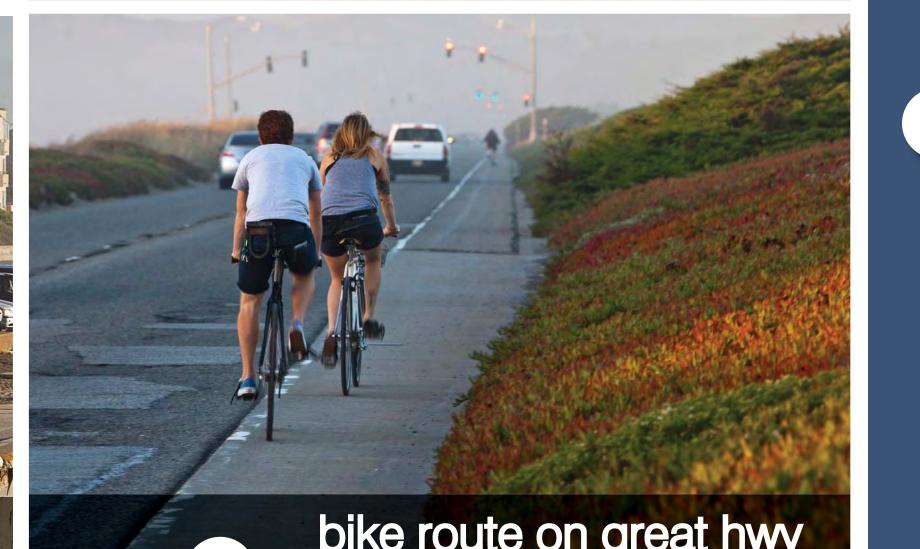


1 local connectivity





station 1.4 | access + connectivity



the Great Highway and Sloat Blvd are unusually wide and have unused traffic capacity. The GH narrows at each end.

transit
OB is well-served by rail
and bus service, but rider
amenities are limited

great highway

is a N-S arterial, and a major recreational corridor

connections into the city-wide network are

bike parking is limited

pavement anywhere in the US at the time

it was conceived and designed for "pleasure driving"

bike/pedestrian path was added and roadway narrowed in 1986



station 1.5 | coastal dynamics

golden gate littoral cell

richmond district

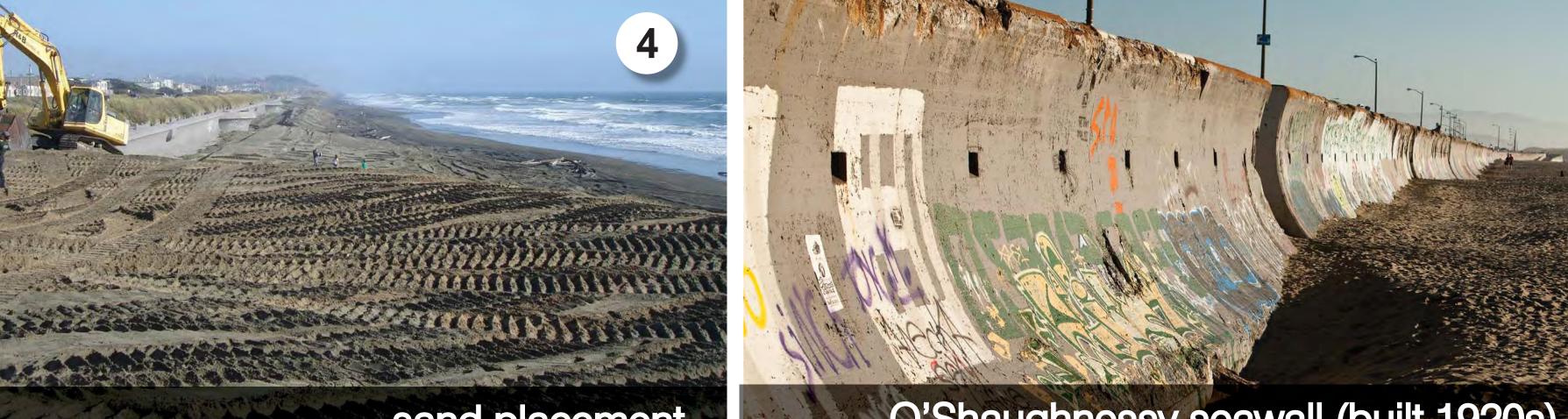
ocean beach master plan

5 coastal dynamics

Taraval Seawall (1941)

2) seawalls









LITTORAL CELL

2 armoring 13,000 ft of shore (s

+ revetments) out of 20,000 ft of total shore after severe erosion

shoreline

interventions

shore has been filled 200ft

1930 to construct the Great Highway & SF Zoo

seaward from 1800 to

episodes in 2010, new emergency armoring was installed

3 dredging ocean beach is the visible portion of a large and complex coastal sediment system sand dredged for shipping channel is deposited for currents to transport

onshore

nourishment

5million cubic yards of sand added since 1970's

future beach nourishment may pump dredged sand directly onto the beach, helping address erosion

5 retreat

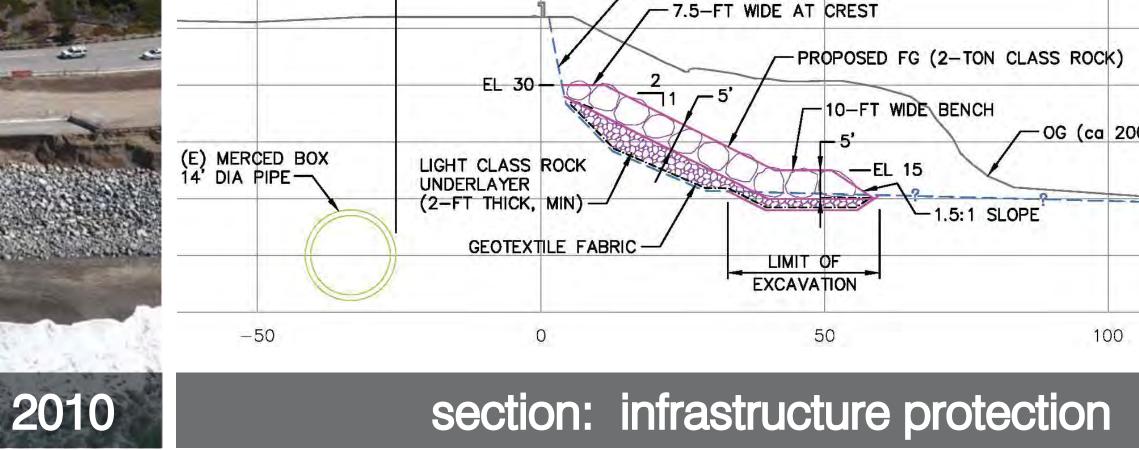
city has tried to maintain barrier sand dune to buffer waves and erosion since 1980's

> the Great Highway south of farther east, in a median designed for retreat

erosion + emergency revetments

erosion early 2000's

emergency repair area 2010



sand accretion/beach widening 2009

beach enlargement - north end

map legend PROJECT BOUNDARY HISTORIC SHORELINES

CURRENT SHORELINE SHORELINE (1992)

THE GREAT HIGHWAY THE GREAT HIGHWAY (1929)

SEAWALLS ■■■■■■ NORIEGA SEAWALL (1988-1993) TARAVAL SEAWALL (1940)

O'SHAUGHNESSY SEAWALL (1915-1922

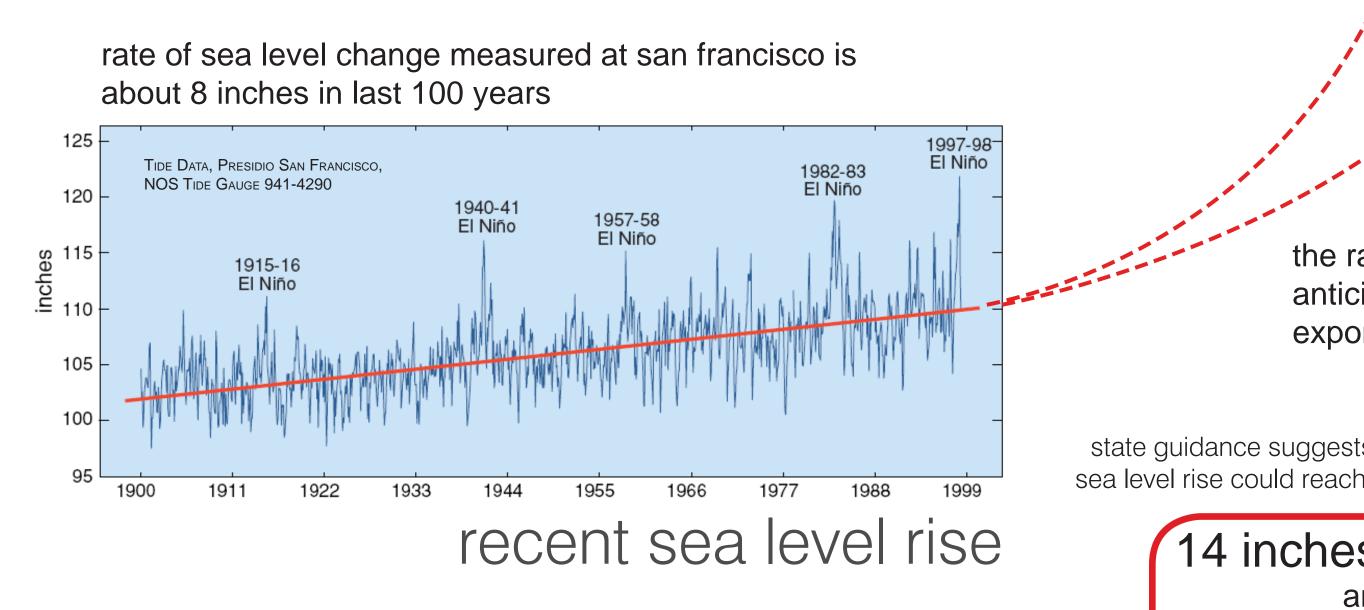
REVETMENTS ● ● ● ■ RUBBLE

••••• EMERGENCY REPAIR AREA

****** *********** 1850-1853 WAVE DRIVEN SAND TRANSPORT ------WAVE DIRECTION NO SAND TRANSPORT CURRENT § 1850-1853

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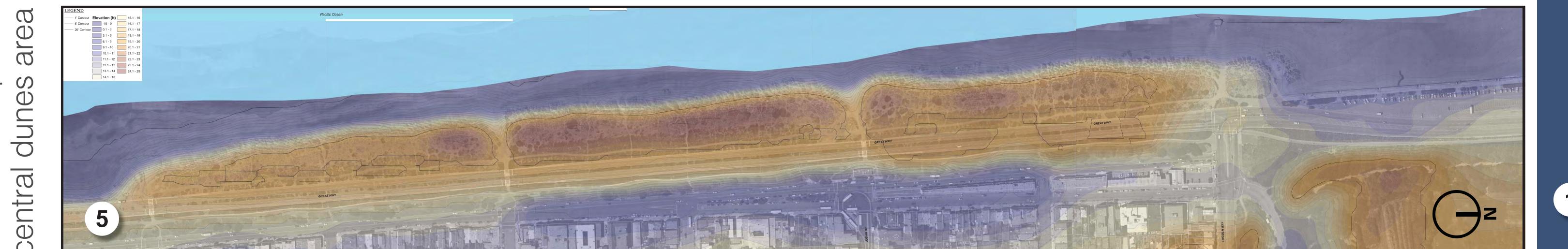
coastal dynamics D climate change



the rate of rise is

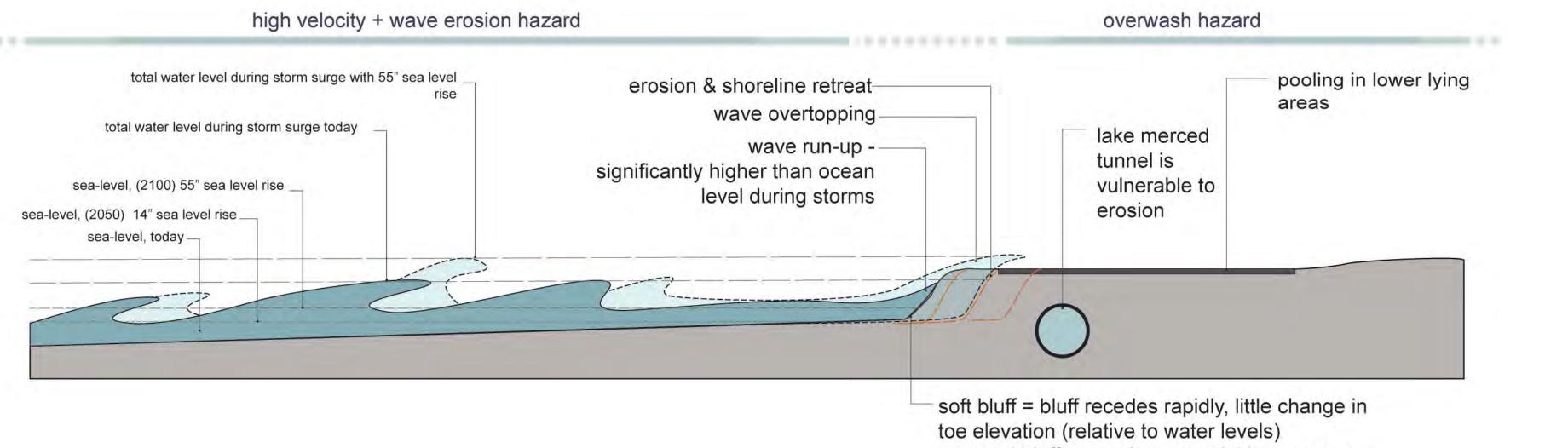
31-50 in (78-128 cm) 1) future sea level rise (SLR)

station 1.5 | coastal dynamics | climate change



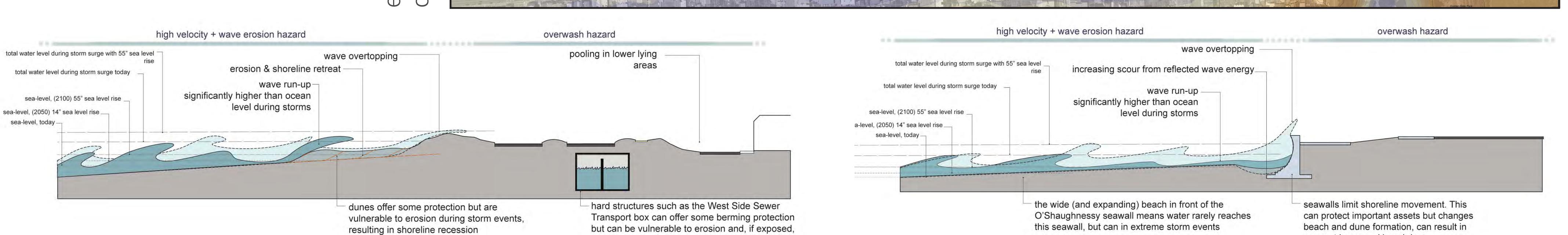






armored bluff = erosion potential increases, toe elevation decreases (relative to water levels)

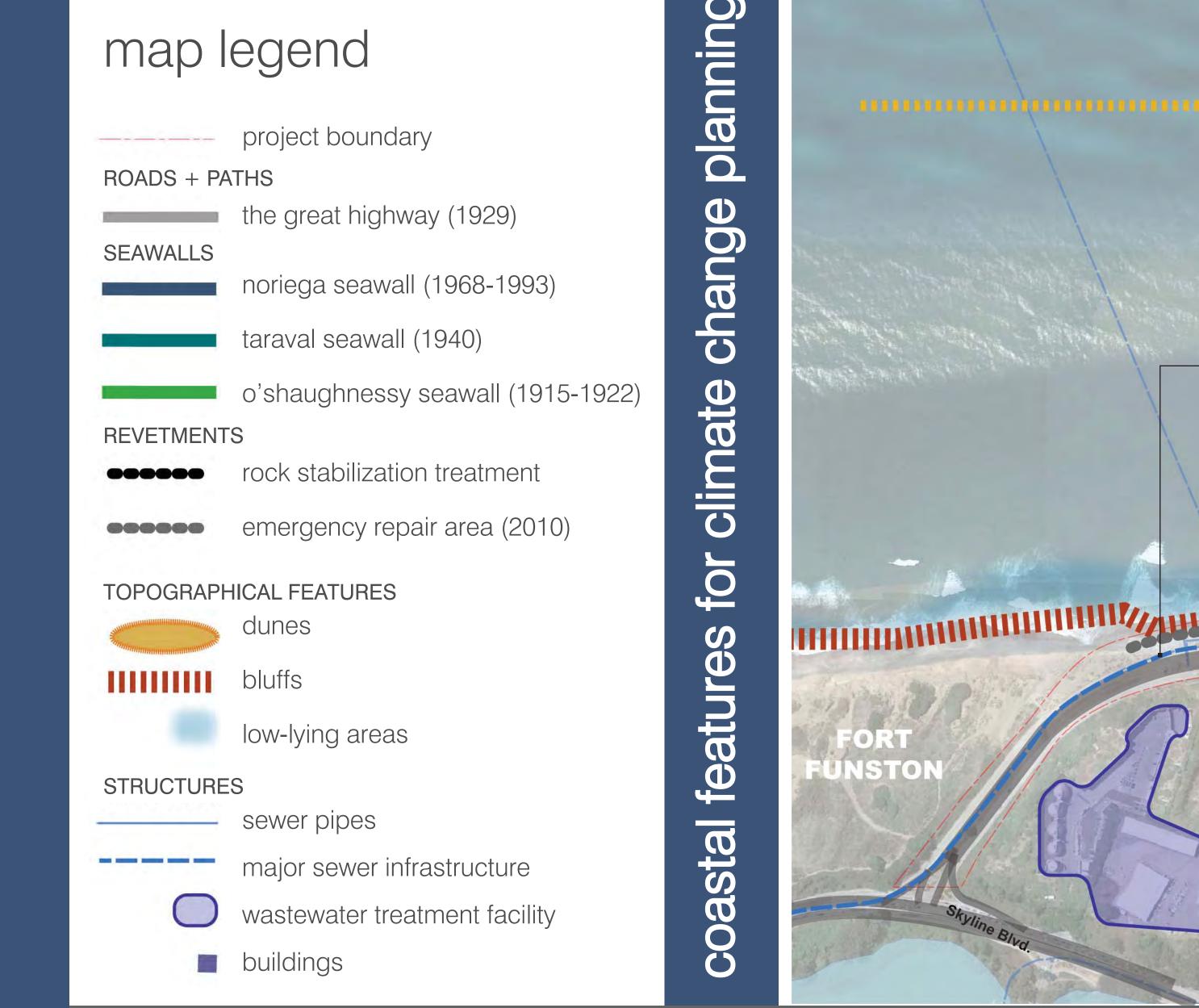
4 diagrammatic bluffs section

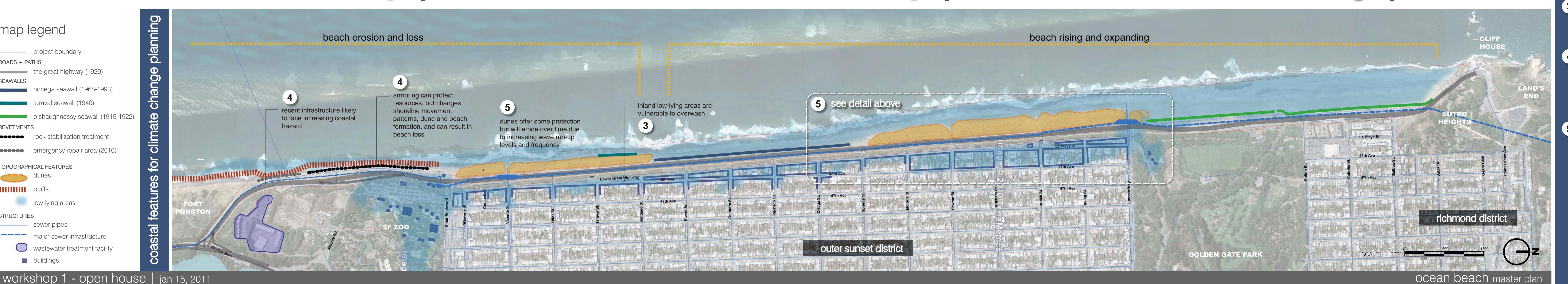


3 diagrammatic dunes section

prevent natural beach and dune formation

scour at base, and beach loss 4) diagrammatic seawall section





sea level rise will cause the shore to recede landward

> "how much? -it depends"

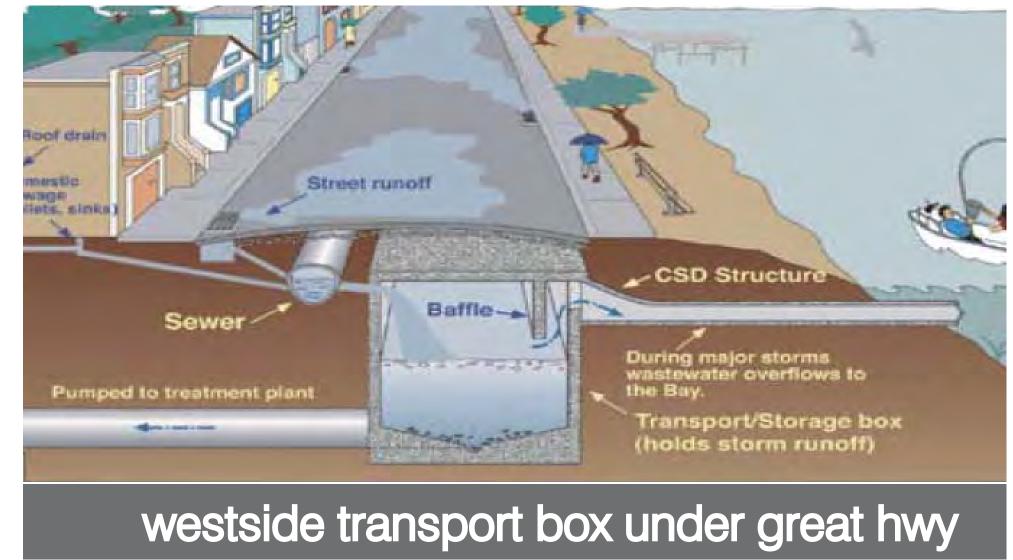
- with significant ramifications for Ocean Beach
 - / storm events may become more frequent and severe
- / the relationship between sea level rise, erosion, and shoreline movement is complex + dynamic
- 2 / during storm events, wave action can far exceed sea level
- 3 / rising seas and storm surges change the shape and elevation of beaches, bluffs and dunes
- 4 / the presence of seawalls + other hard structures limits shoreline dynamics: this can protect important assets, but changes beach and dune formation and can result in beach loss
- 5 / existing dunes + infrastructure will offer some protection -for a time, but coastal hazards
 - / impacts to the dunes, bluffs, roadway, & infrastructure -- and eventually to private property

 - will become more frequent
 - / the coast is changing, and we have some understanding how fast is uncertain

. O infrastructure

1) former water quality issues at ocean beach greatly influence the development of current infrastructure

water quality



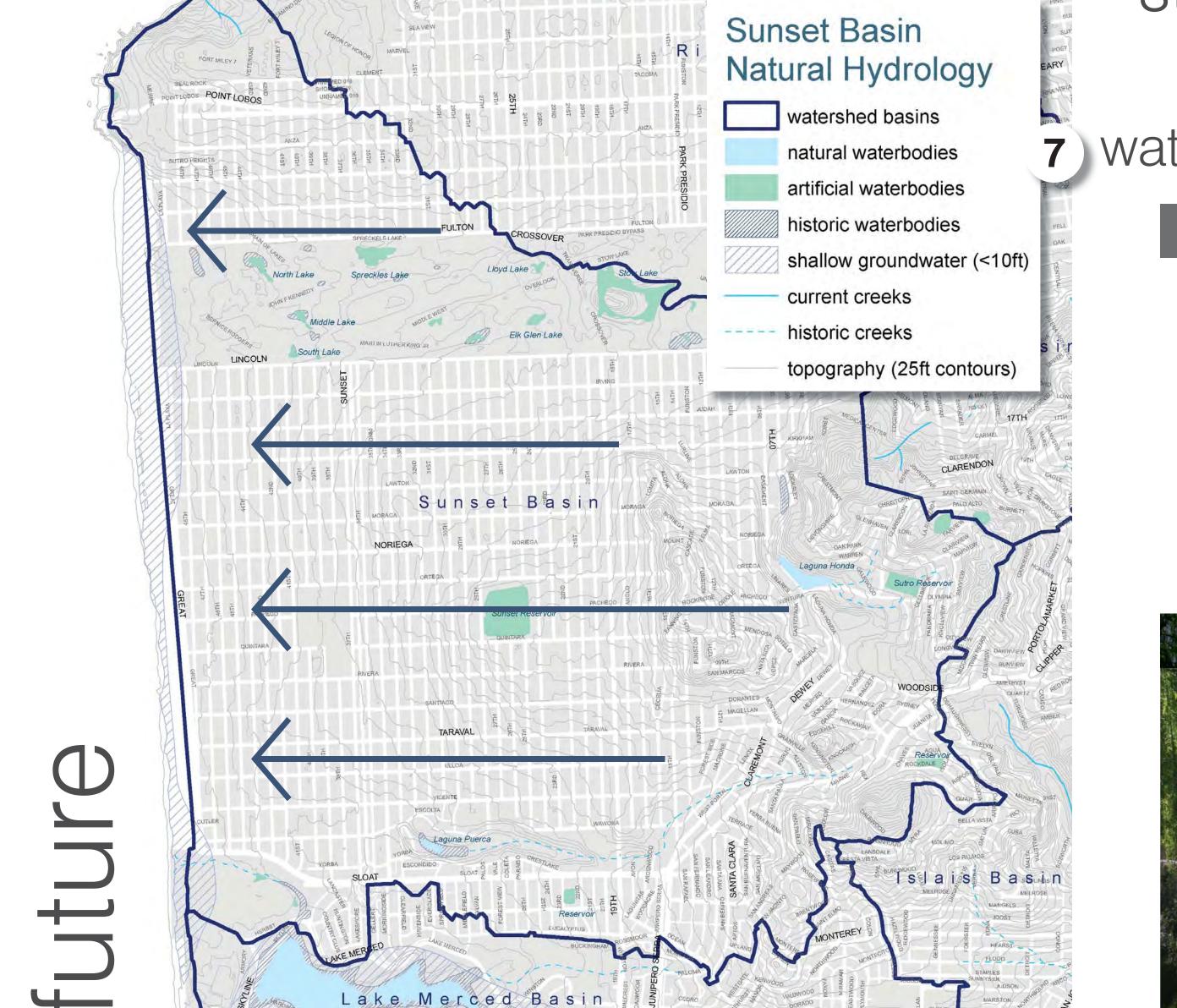
< 8 CSO's/yr (after Clean Water Program)

wet-weather outflow



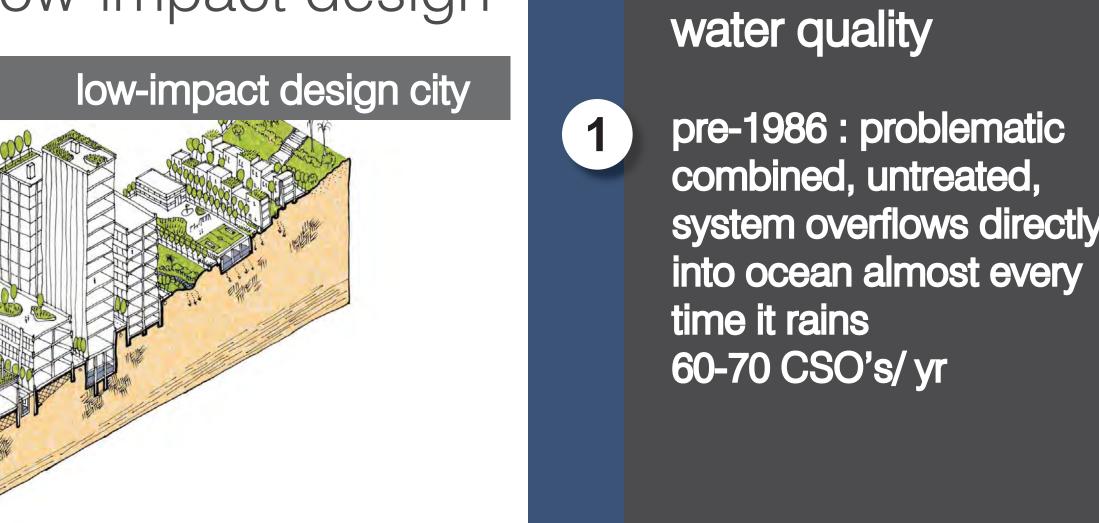






station 1.6 | infrastructure

watershed / low-impact design



present

water quality

- result: better water quality & fewer combined sewer overflows onto beach 8 overflows per year, max

erosion

- lake merced tunnel at risk due to erosion, 40' of bluff recession, 2010
- infrastructure at OB handles the whole west side of SF's single

low-impact design

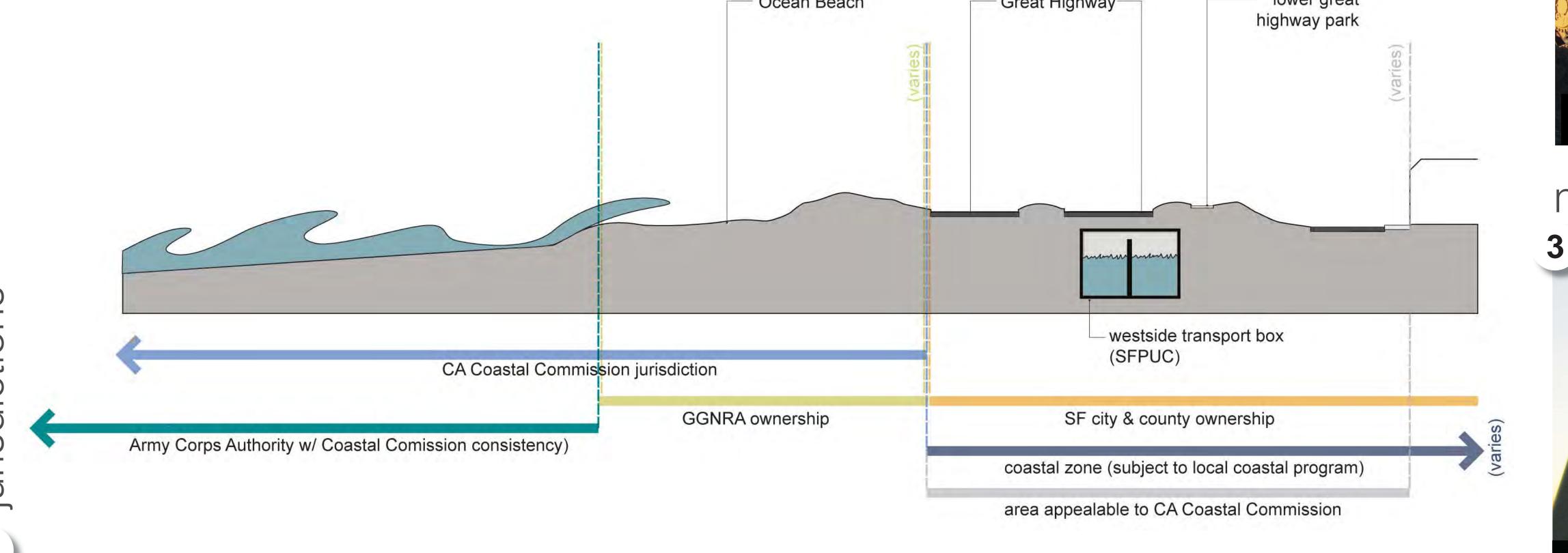


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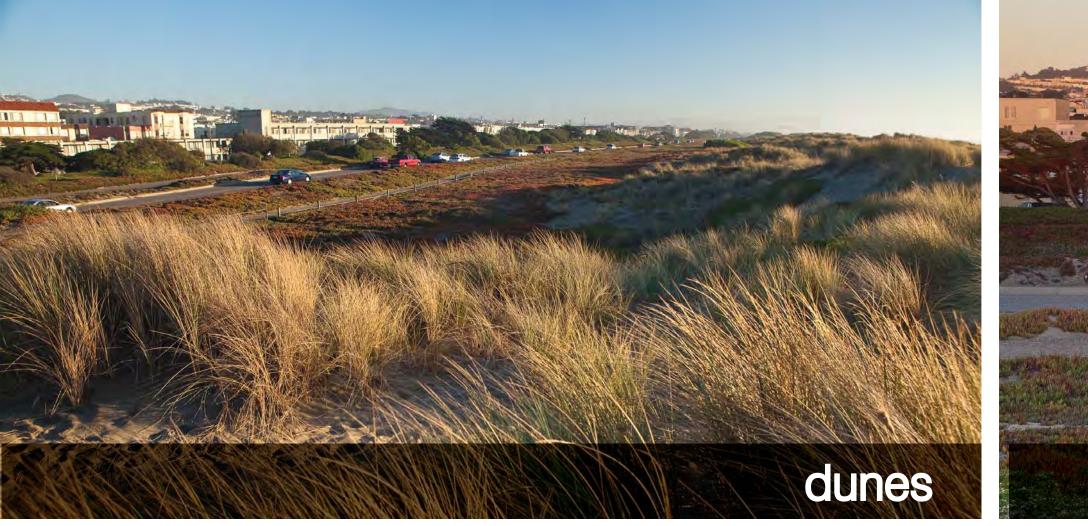
management + stewardship

AGENCY PARTNERS

- National Park Service
- California State Coastal Conservancy
- SF Public Utilities Commission
- SF Dept of Recreation & Parks
- Department of Public Works
- SF Municipal Transportation Agency
- SF Planning Department









maintenance + stewardship

sand transport by wind







Golden Gate National Recreation Area (GGNRA) ownership CA Coastal Commission jurisdiction & local coastal program



governance / administration

the project site is owned + managed by a myriad of agencies including:

/ GGNRA / National Park Service / CA Coastal Commission

/ SF Department of Recreation and Parks

/ Army Corps of Engineers/ SF Department of Public Works/ State Lands Commission

maintenance

waste management

restrooms

overall project goal statement

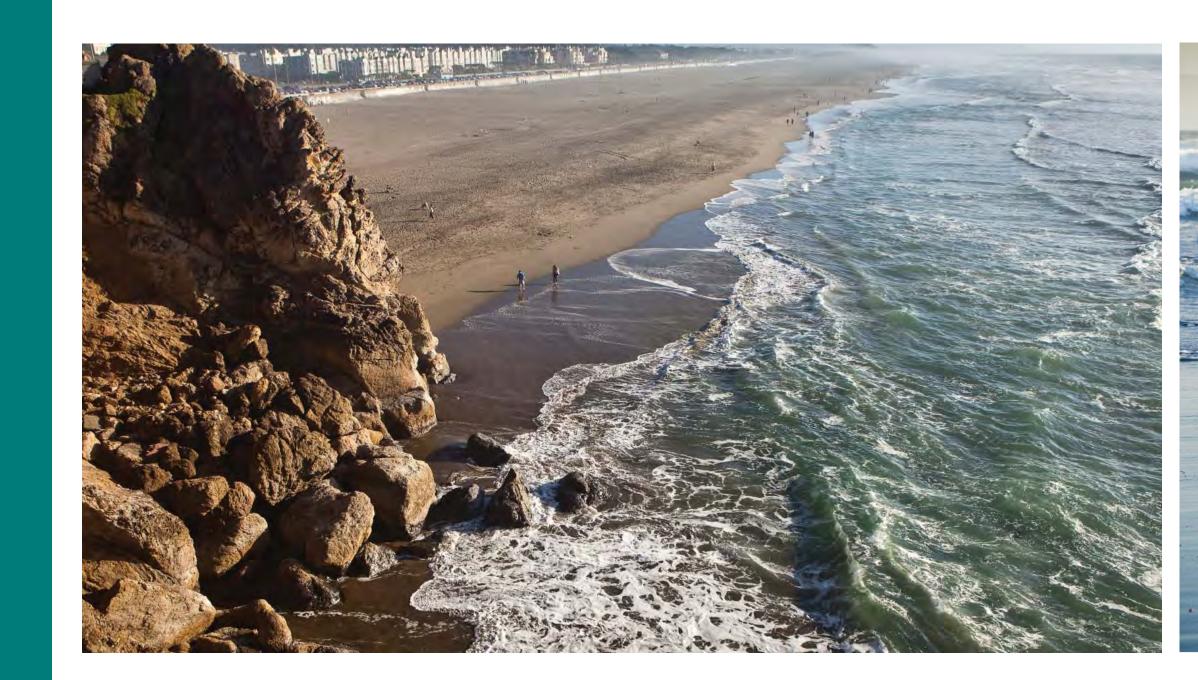


"To knit the unique assets and experiences of ocean beach into a seamless and welcoming public landscape, planning for environmental conservation, sustainable infrastructure, and long-term stewardship."

key focus areas

evaluation criteria

project aspirations











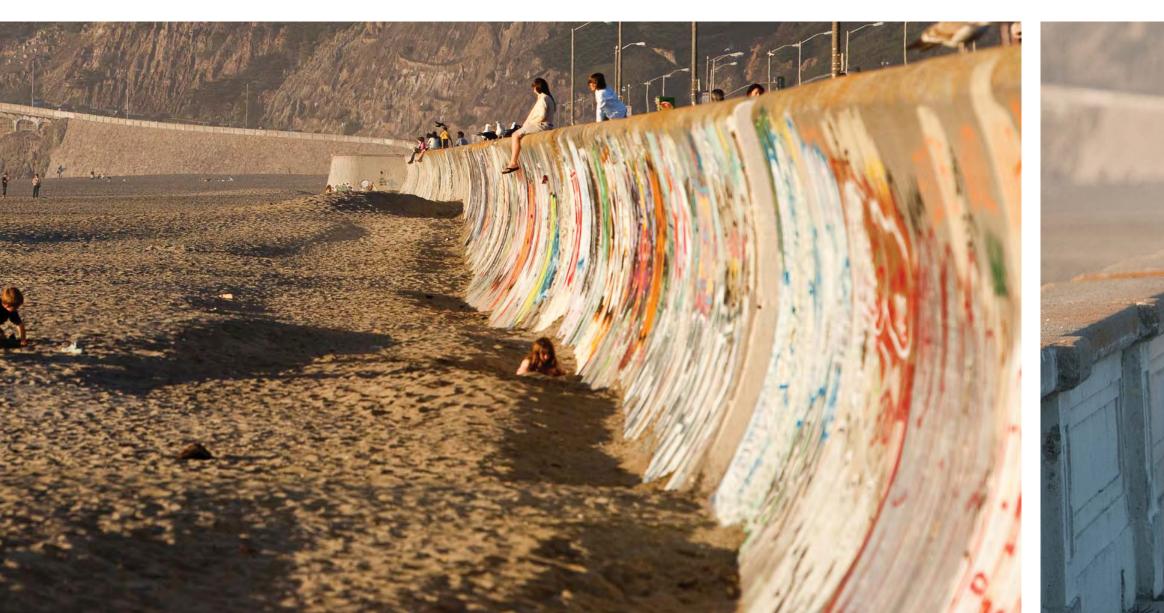




image + character

preserve and celebrate the beach's raw and open beauty, while welcoming a broader

uses + activities + program

accommodate diverse activities and users, managed for positive coexistence

ecology

restore and establish conditions that support thriving biological communities

access + connectivity

provide seamless and fluid connections to adjacent open spaces, the city, and the region

coastal dynamics

identify a proactive approach to coastal management, in the service of desired outcomes

infrastructure

evaluate infrastructure plans and needs in light long-term stewardship of uncertain coastal conditions, and pursue a smart, sustainable approach

management + stewardship

provide an approach to across agencies, properties, and jurisdictions

'investment" reflects your priorities

"today" BOX

investment for today, your immediate

"2100" BOX

investing for the future, your priorities for the world your great grand

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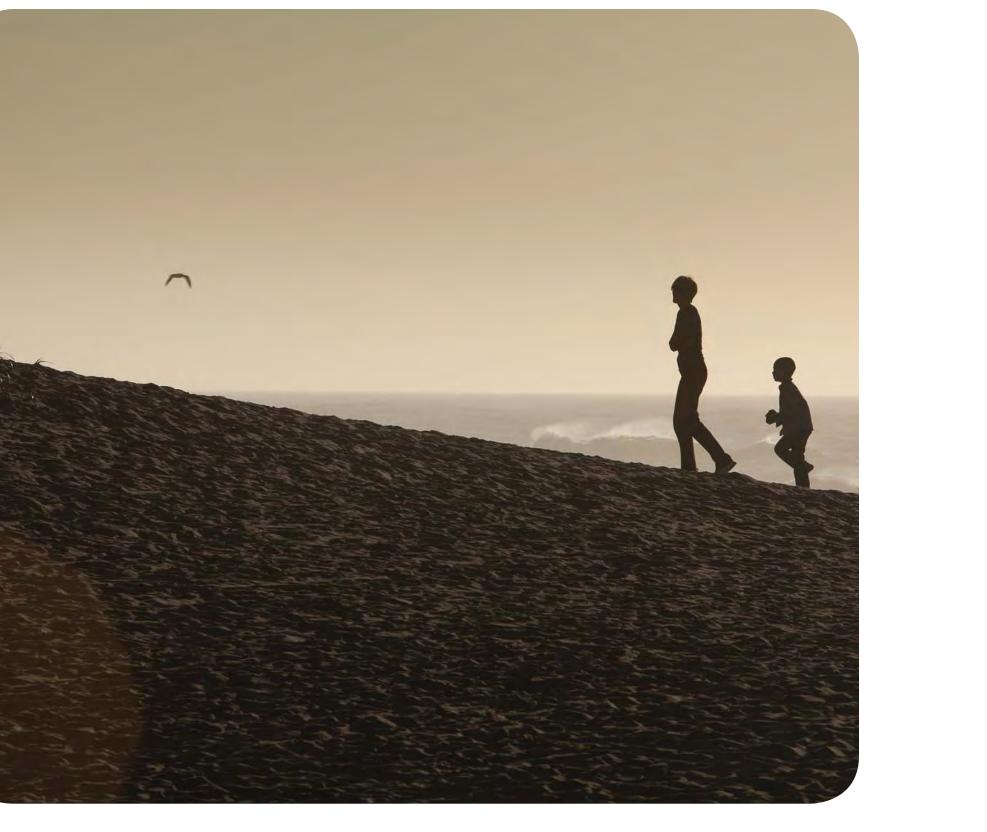
user preferences

using the color dots provided, mark the map below to reflect the following:

- what is your favorite place at ocean beach?
- where is the best gathering place at ocean beach?
- what is the best viewing spot?



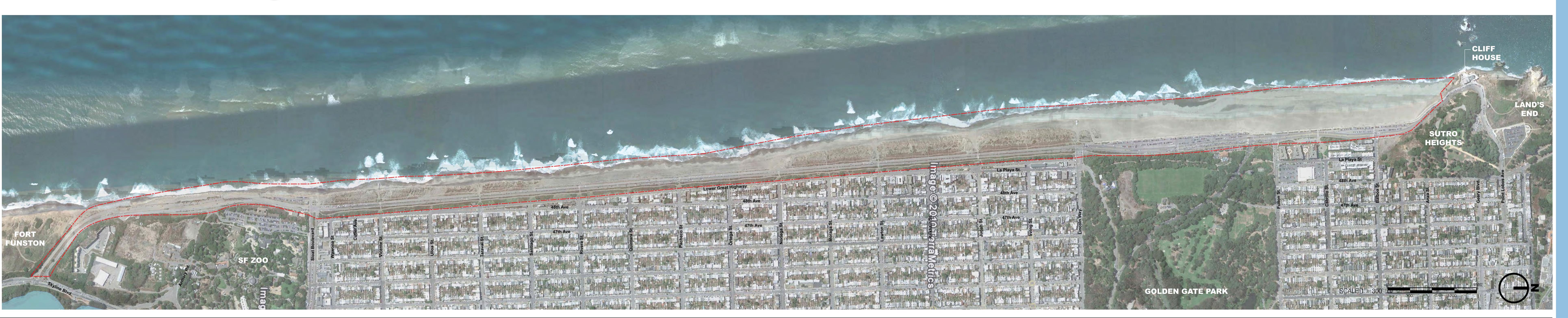






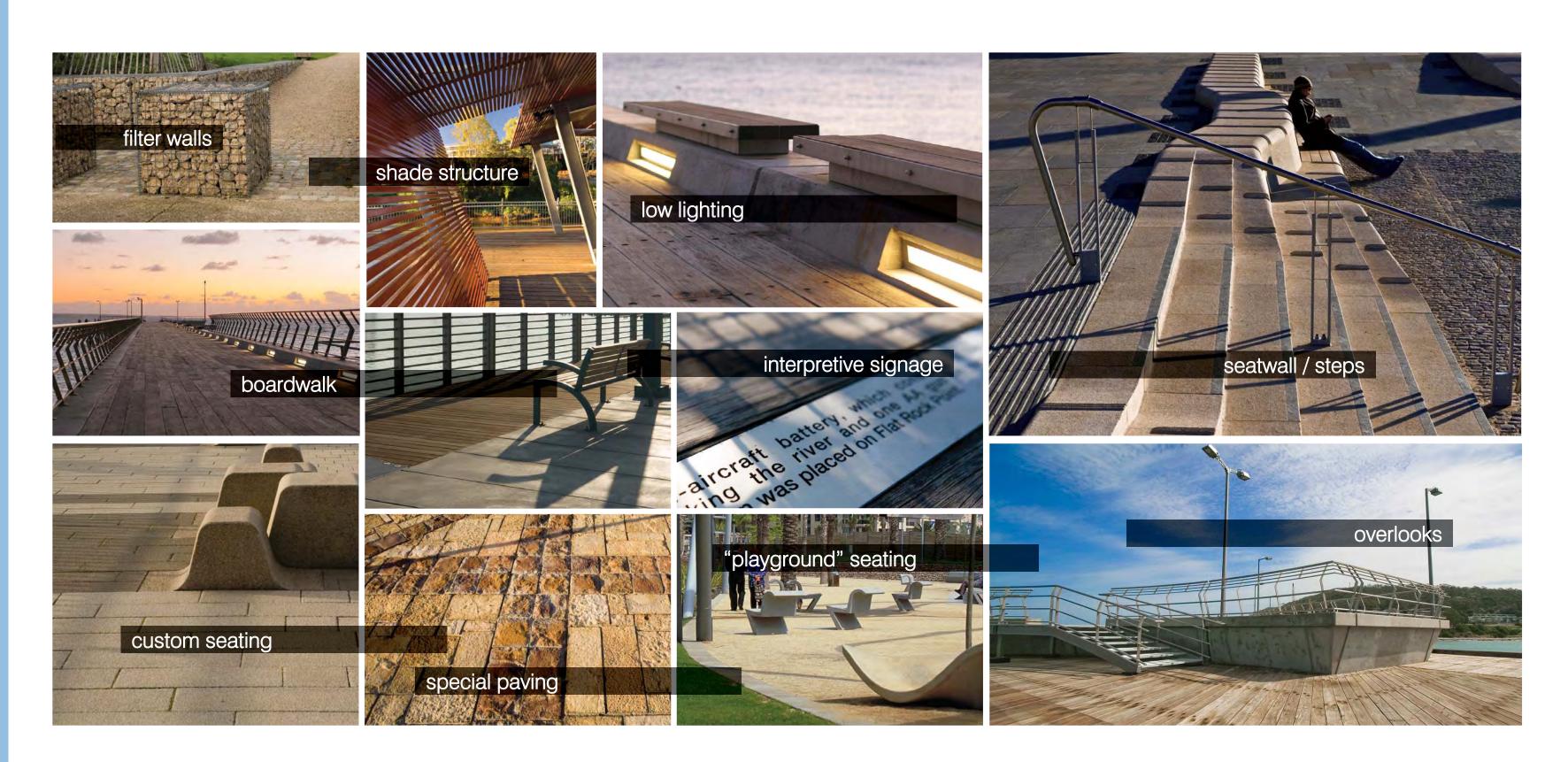
.

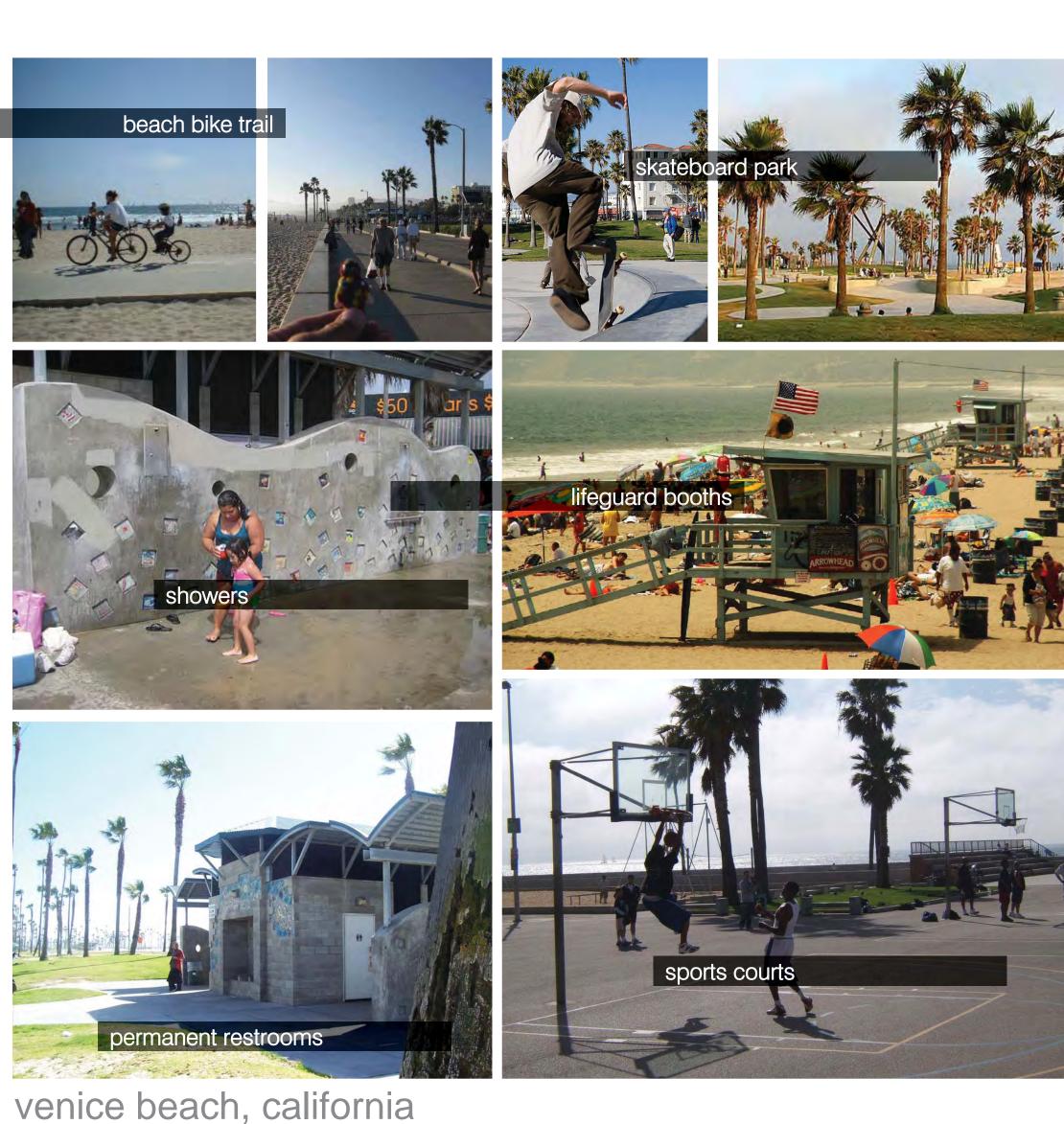
and dunes

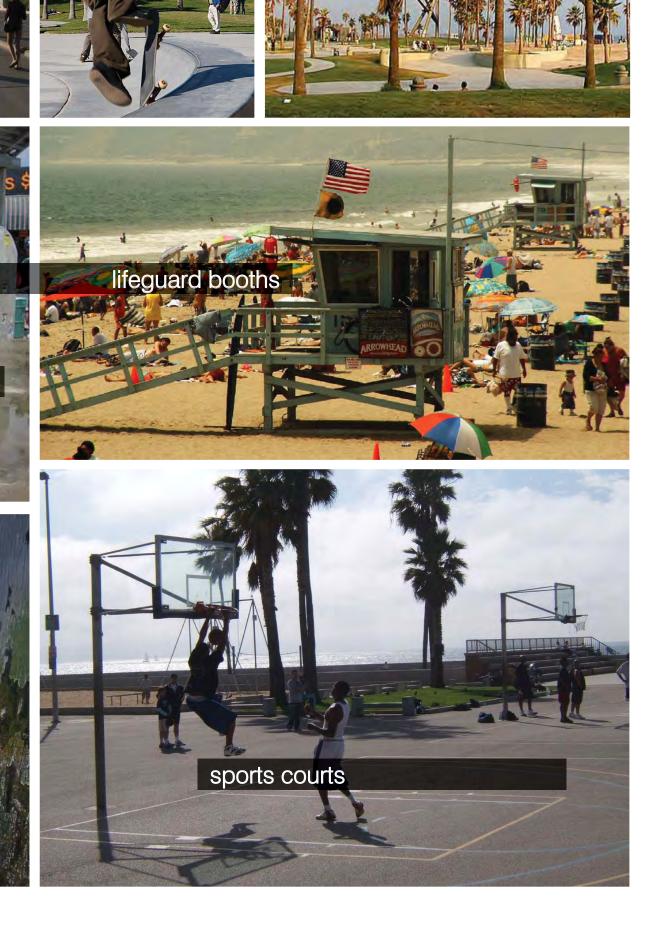


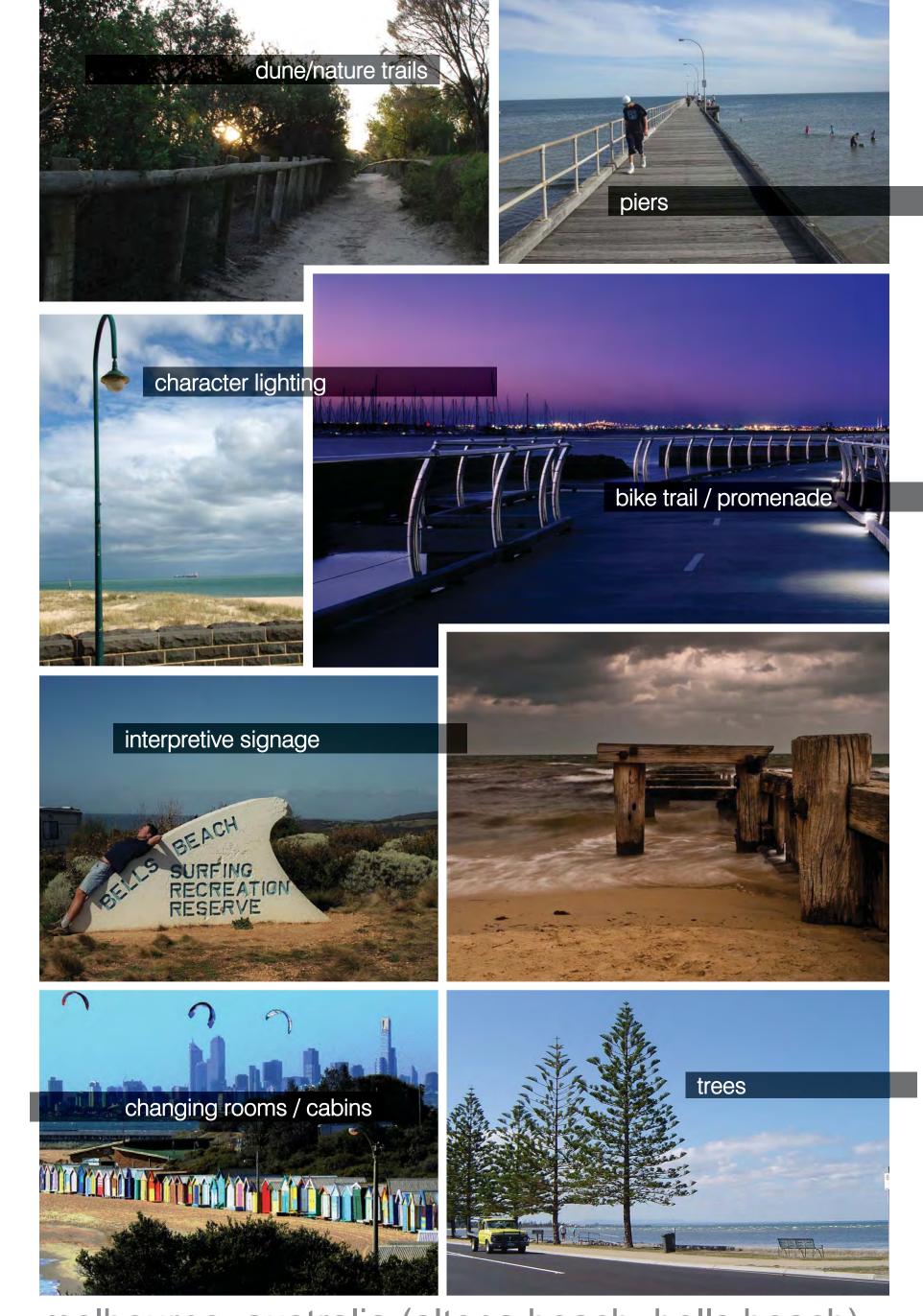
2 user preferences what elements/facilities are missing at ocean beach?

NOTE: these images are NOT intended to represent materials or design recommendations for OB, they solely depict types of elements and facilities used in other urban beaches around the world

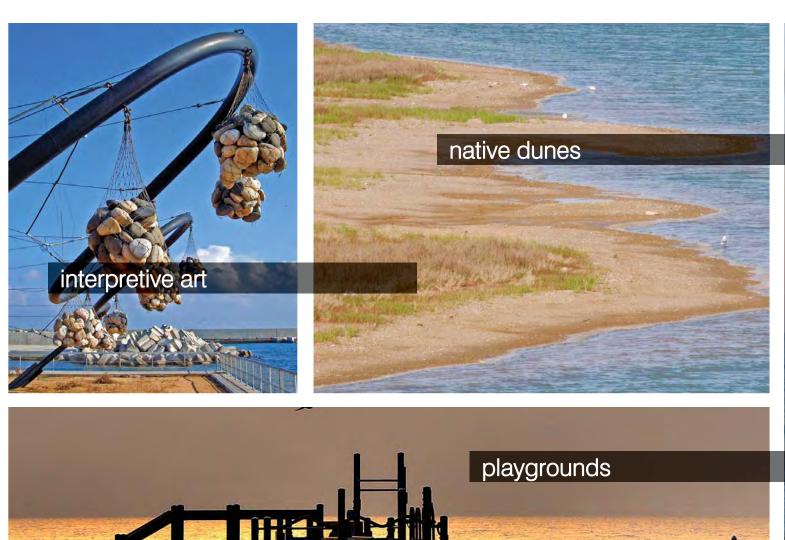




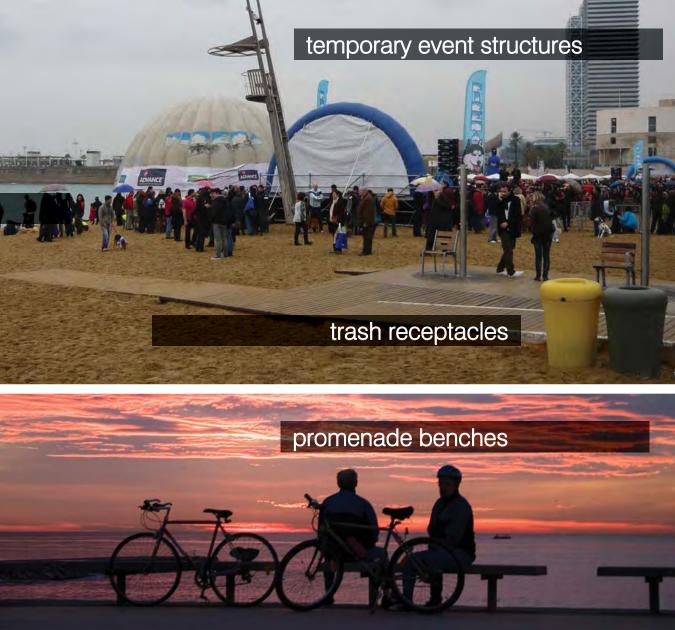














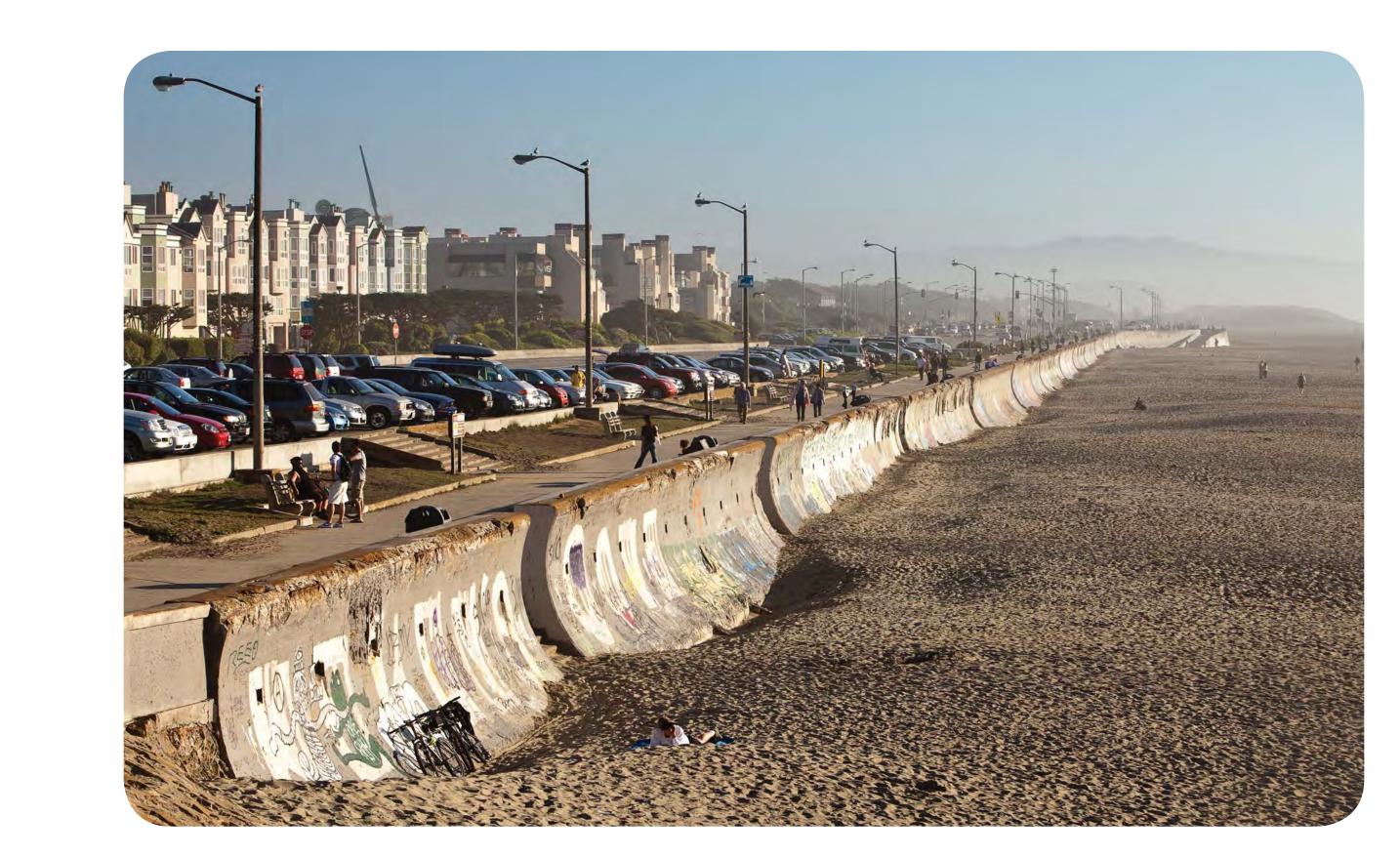


barcelona, spain

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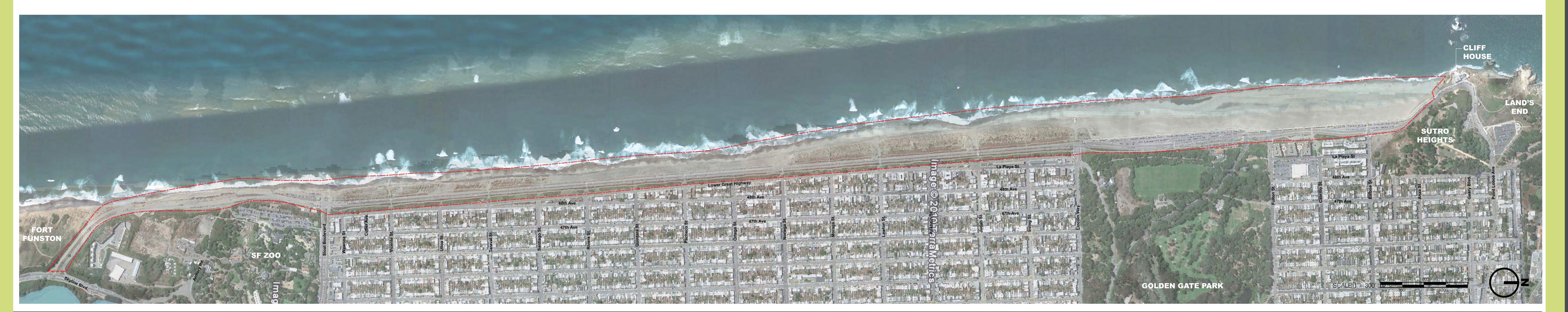
do you have any ideas for the improvement of ocean beach?

any idea... any scale... any aspect... anything goes...









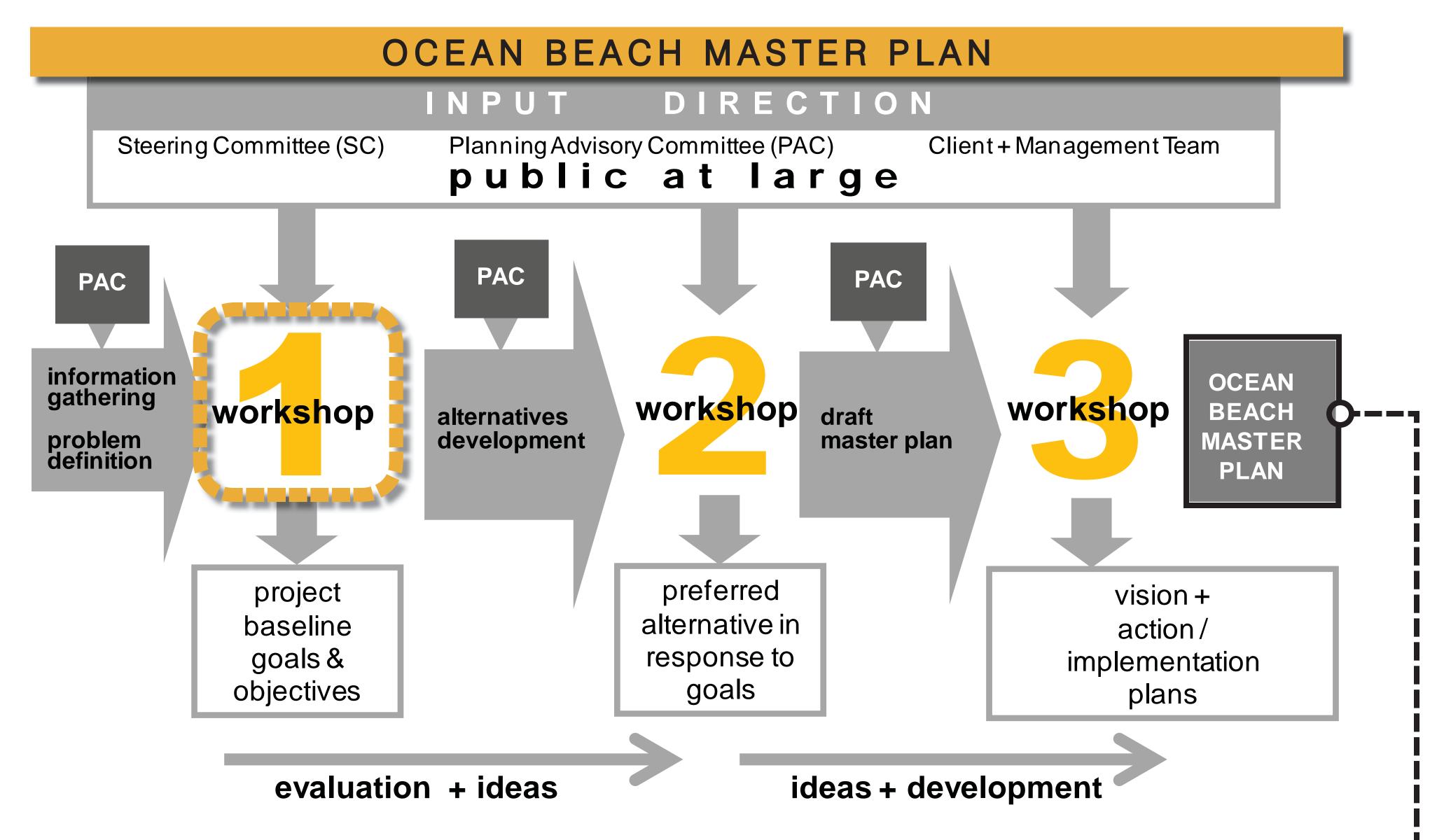
how about?

physical elements policy recommendations character-building elements

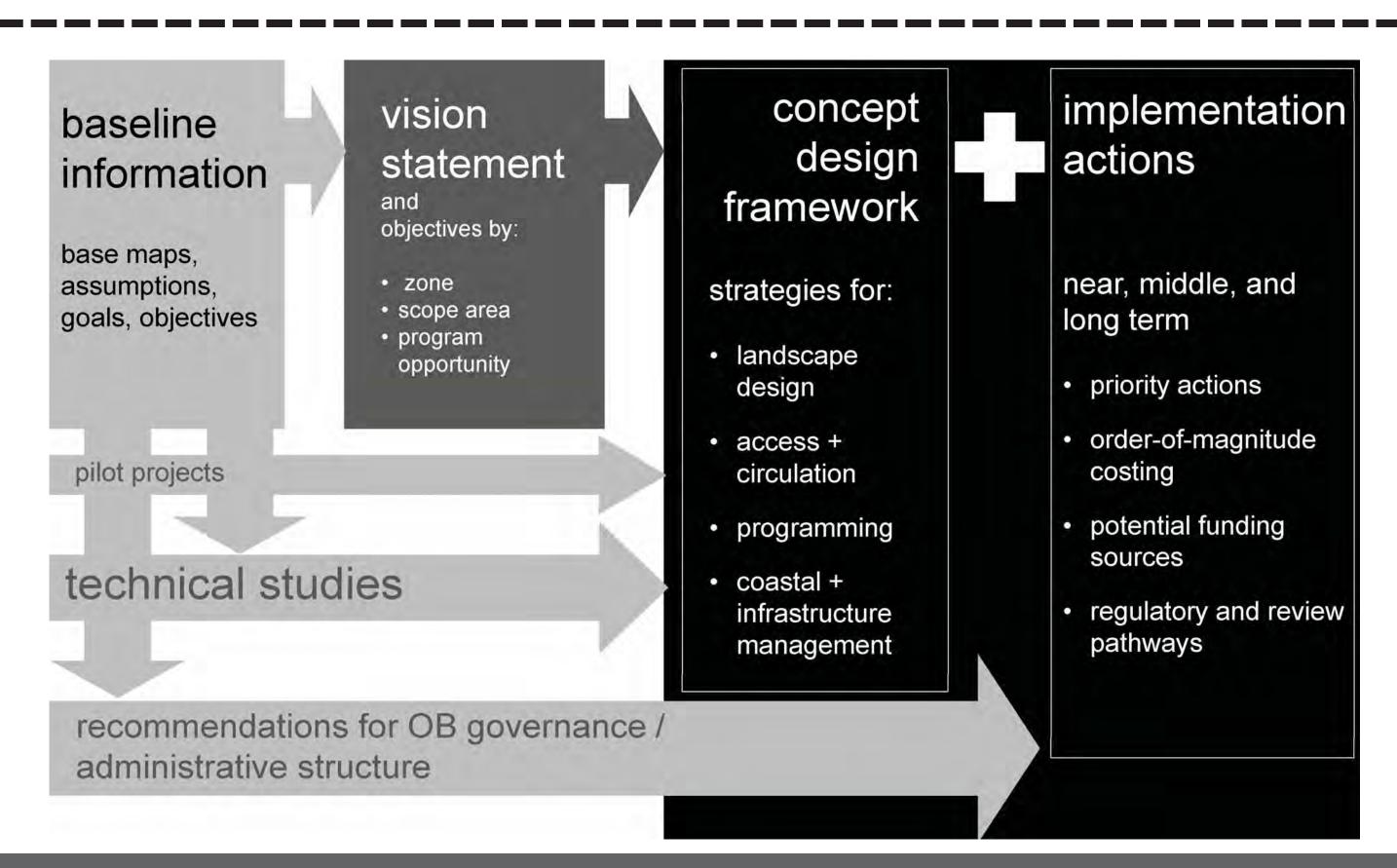
interpretation concepts

opportunities for public input

process + timeline



what will be included in the ocean beach master plan?



project team

SPUR (SF Planning + Urban Research) project lead

Project Manager: Benjamin Grant

consultant team

AECOM

Landscape Architecture, **Environmental Planning**

ESA PWA

Coastal Engineering

Sherwood Design Engineers

Civil Engineering/Infrastructure

Nelson/Nygaard

Transportation

work plan

+ startup stakeholder interviews assemble consultant team (jun-aug 2010)

+ problem definition public workshop #1

(today!) (sep 2010-jan 2011)

- + alternatives development public workshop #2 (feb-may 2011)
- + draft master plan public workshop #3 (jun-sep 2011)
- + final master plan (oct-dec 2011)

opportunities for public input

3 community workshops

project website

www.spur.org/oceanbeach

project email

oceanbeach@spur.org

social media

facebook: ocean beach master plan (san francisco) twitter: @planoceanbeach

SPUR programming

do you have additional comments?

questions?

suggestions?

Using makers, post-its or any other method, write your comments here and share your ideas with the rest