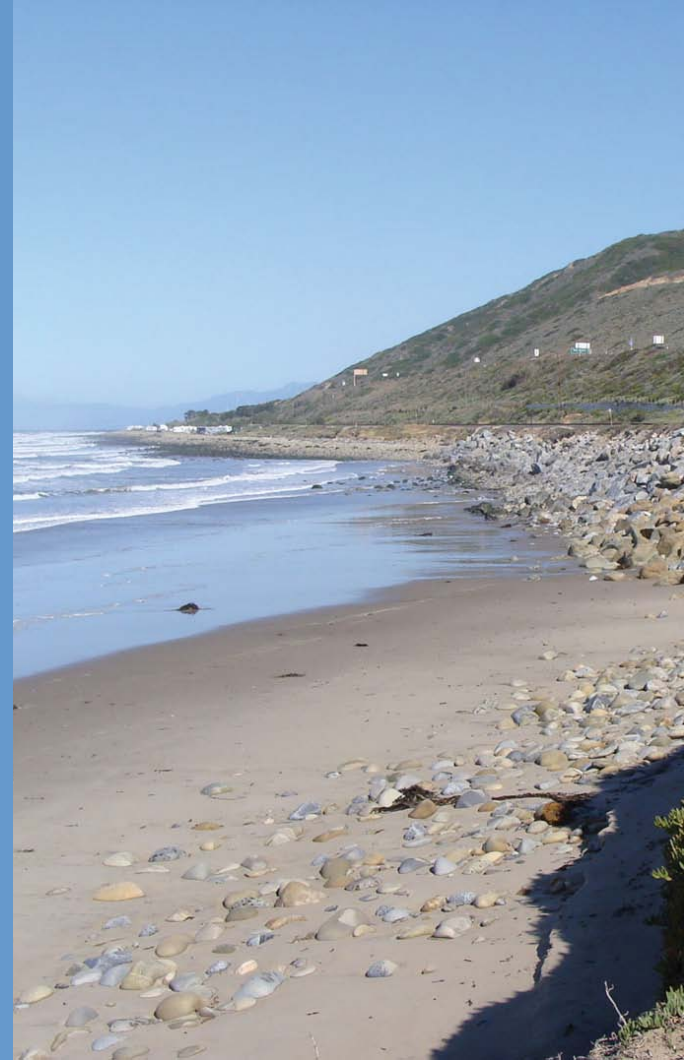


The San Francisco Littoral Cell CRMSP

Draft Implementation Options for Daly City

*for more information, please contact
Doug George
(see last slide)*

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Questions for the SAG

- How do you view the options?
- What would make the options better/easier to implement?
- How do the options support/disrupt ongoing or new plans?
- Any options we have not considered?




Descriptions of Implementation Options



- No Action 
- Beach Nourishment
- Multi-purpose Reefs 



- Managed Retreat
 - Armor 
 - Allow Natural Processes

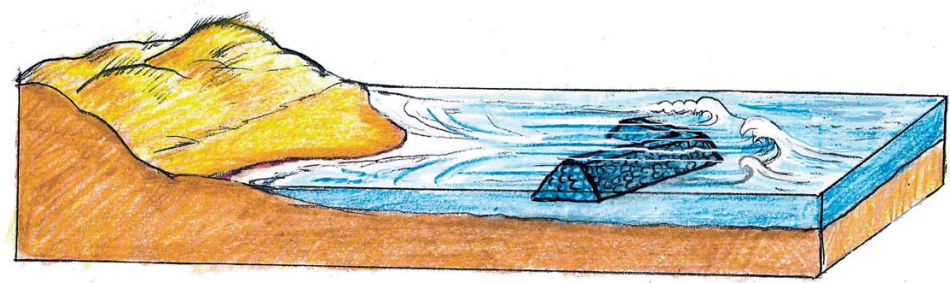




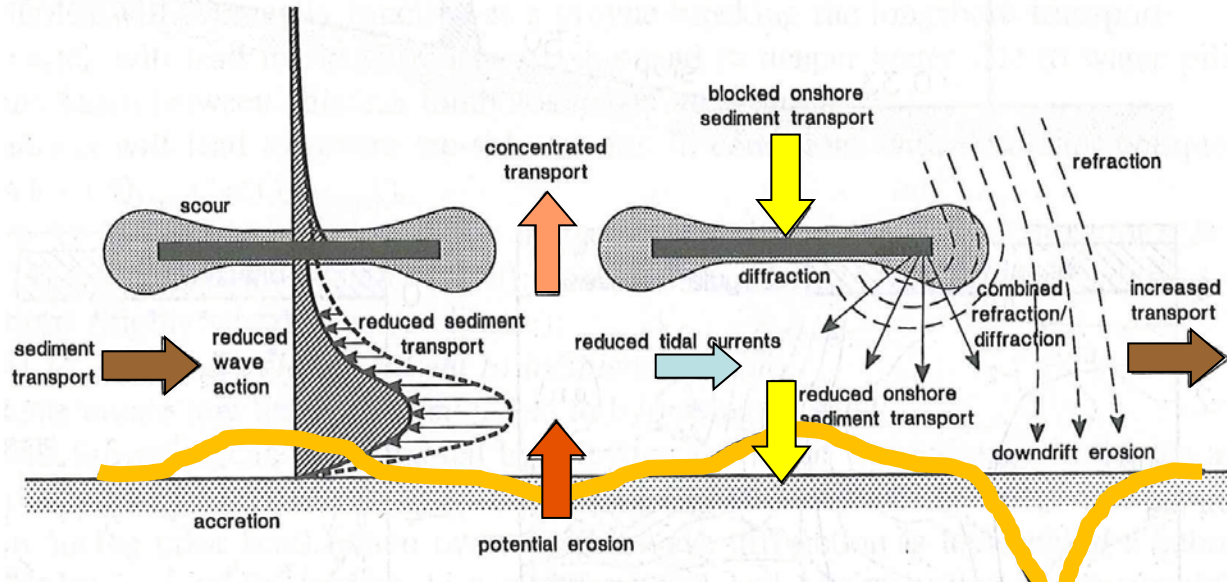
Beach Nourishment

- Placement of sediment-water slurry directly on beach or beach face
- Key questions:
 - Sediment characteristics and sources
 - Longevity

Opportunities	Constraints
<p>Use sediment trapped on land behind dams or removed from regular road maintenance</p> <p>Rebuild dune habitat</p>	<p>Transportation of sediment to receiver sites</p> <p>Immediate, short-term biological impacts</p> <p>Habitat conversion long-term</p>

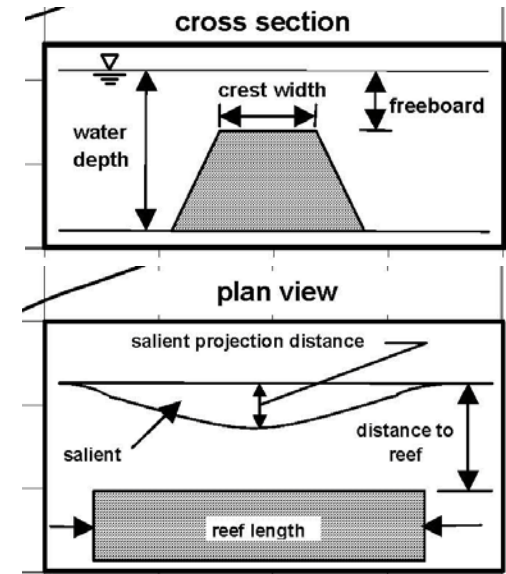
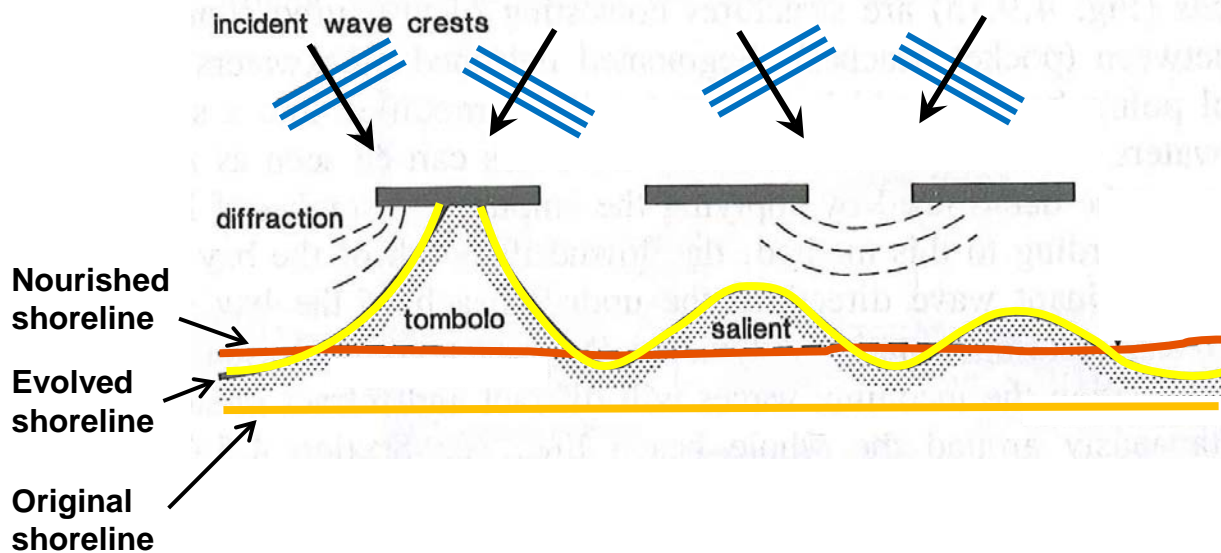


Multi-purpose Reefs



Opportunities	Constraints
Create new habitat	High energy coastline
Enhance surf opportunities	Not been done in CA on scale necessary for SF Lit Cell CRSMP
Increase sediment retention	

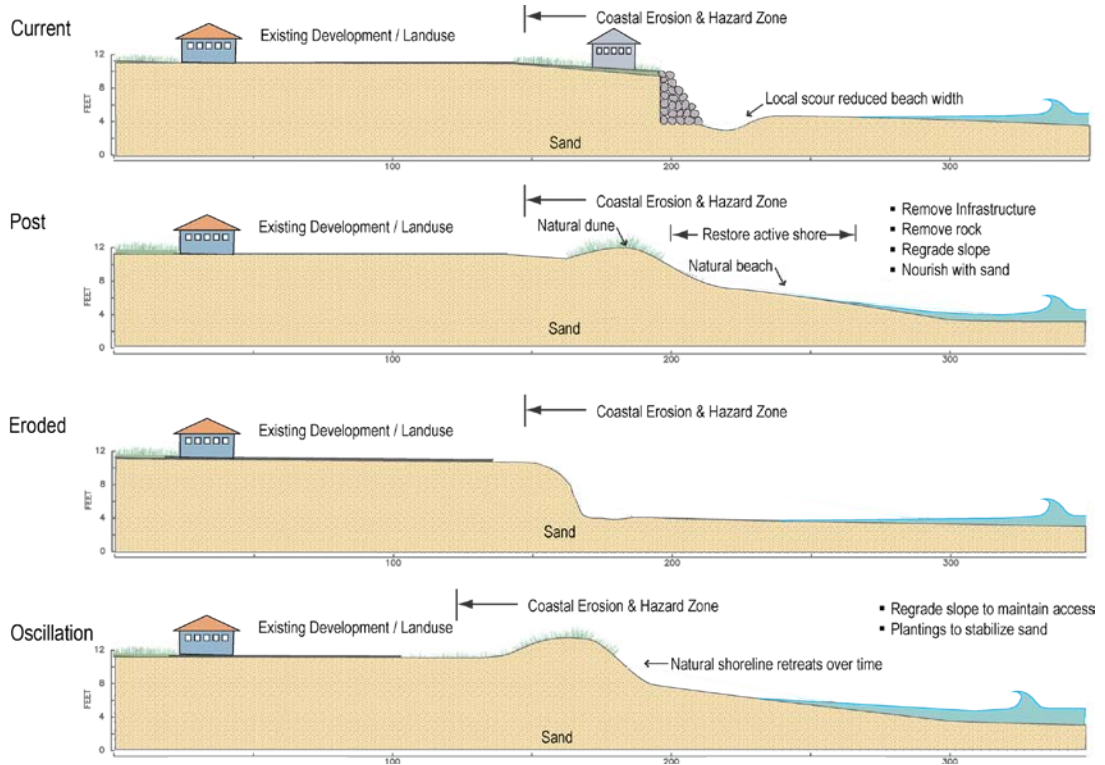
Nourishment + Reefs



Opportunities	Constraints
Increase longevity of sand placement (plus previously identified opportunities for each)	Multiple alterations to local environment (plus previously identified constraints for each)

Managed Retreat

Pacifica State Beach Managed Retreat and Estuary Restoration



Opportunities

Restoration of natural shoreline cycles and habitats

Utilize geology (go-n-slow)

Removal/reduction of development in risk zones

Prior investments in armoring

Constraints

Expense

Political will

Property rights

Existing armoring



DC Reaches Implementation Options (as of June 6, 2012)

Daly City: No Action



Mussel Rock: Special Case - relocate
or reconfigure landfill



Note: Daly City infrastructure not
fully represented at this time



Feedback from SAG

- Deadline of **July 4** for feedback
 - Email
 - Call
 - Meeting at ESA PWA or your office
- Contact information for Project Manager
 - Email dgeorge@esassoc.com
 - Call 415-262-2325
 - Snail mail or in person meeting at ESA PWA
 - 550 Kearny St, Suite 900, San Francisco



Thanks!