

# Advancing Coastal Resiliency Planning and Regional Sediment Management

California Marine Affairs and Navigation Conference

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**CALIFORNIA COASTAL COMMISSION**  
NATURAL RESOURCES AGENCY

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COASTAL ENGINEER





The Coastal Commission is committed to *“protecting and enhancing California’s coast for present and future generations.”*





# California Coastal Act

([PRC 30000 et seq.](#))

public coastal access

sensitive habitat

water quality

marine resources

natural shoreline processes

sea level rise



# Roles of the Coastal Commission

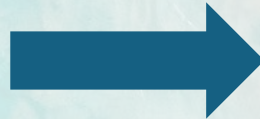
## Planning

Local Coastal Programs

hazards assessment

adaptation planning

infrastructure plans



## Regulatory Actions

Coastal Development Permits

Emergency CDPs

Federal Consistency Actions

Local CDP appeals



# Who is Jeremy?

- CCC “in-house” technical advisor
- Licensed Civil Engineer
- Experience in coastal processes, sediment transport modeling, coastal flood risk assessment
- Translator of sorts
  - *Coastal policy* (fluent)
  - *Coastal engineering* (fluent)
  - *Hydraulics* (proficient)
  - *Ecology* (conversational)
  - *Transportation engineering* (work-in-progress)
  - *Local govt. processes* (work-in-progress)



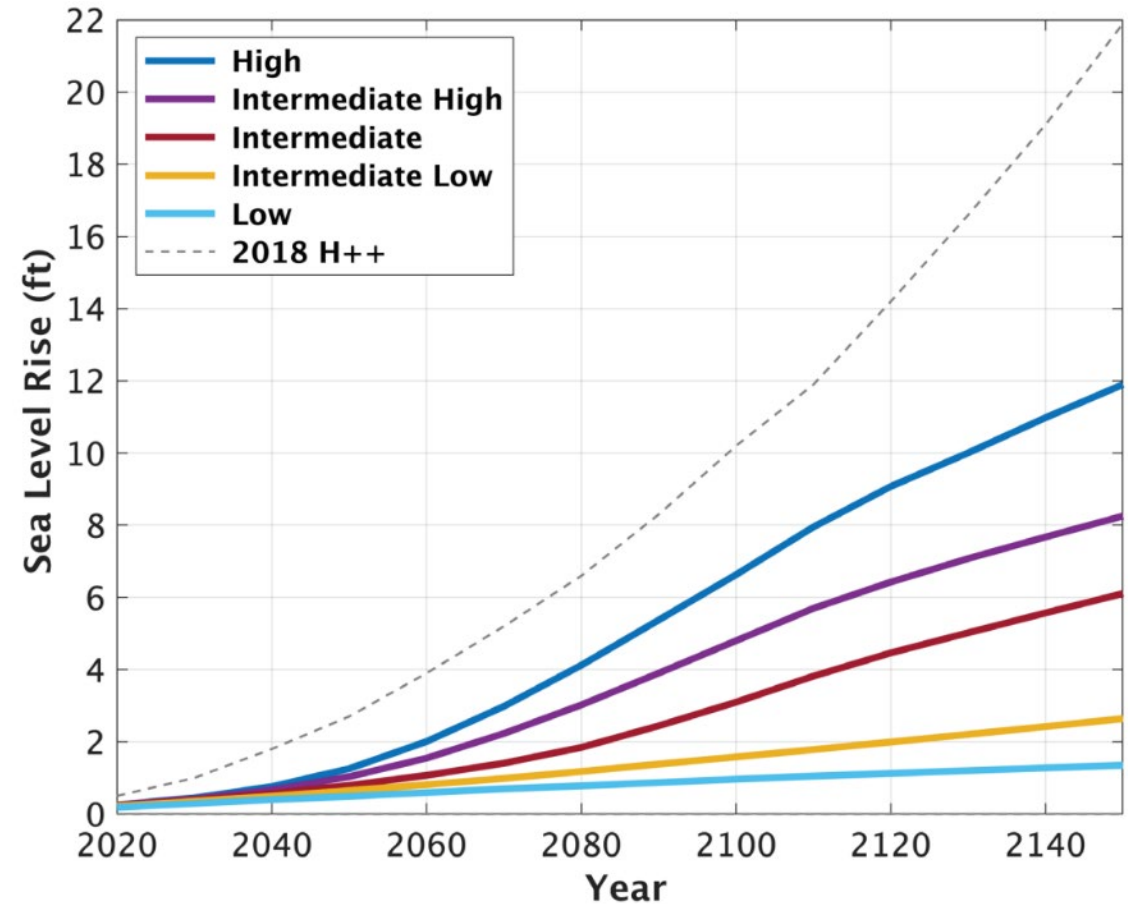
# Sea Level Rise & the California Coast

What we expect:

- Worsened coastal flooding
- Shoreline retreat
- Accelerated coastal erosion
- Groundwater rise, etc.

What's at stake?

- Beaches
- Critical infrastructure
- Public & private development
- Critical habitat e.g., wetlands, dunes
- And more...



# SB 272 (Laird, 2023)



- Requires local governments to have develop sea level rise adaptation plans subject to certification by CCC/BCDC by 2034
- Jurisdictions with approved plans will be prioritized for funding to implement sea level rise strategies identified in plans

# SB 272 (Laird) Coastal Commission Guidance

1. Use of best available science
2. Vulnerability assessment, including at-risk communities
3. SLR adaptation strategies and recommended projects
4. Identification of lead planning and implementation agencies
5. Economic impact analysis of, at a minimum, costs to critical public infrastructure
6. Timeline for updates



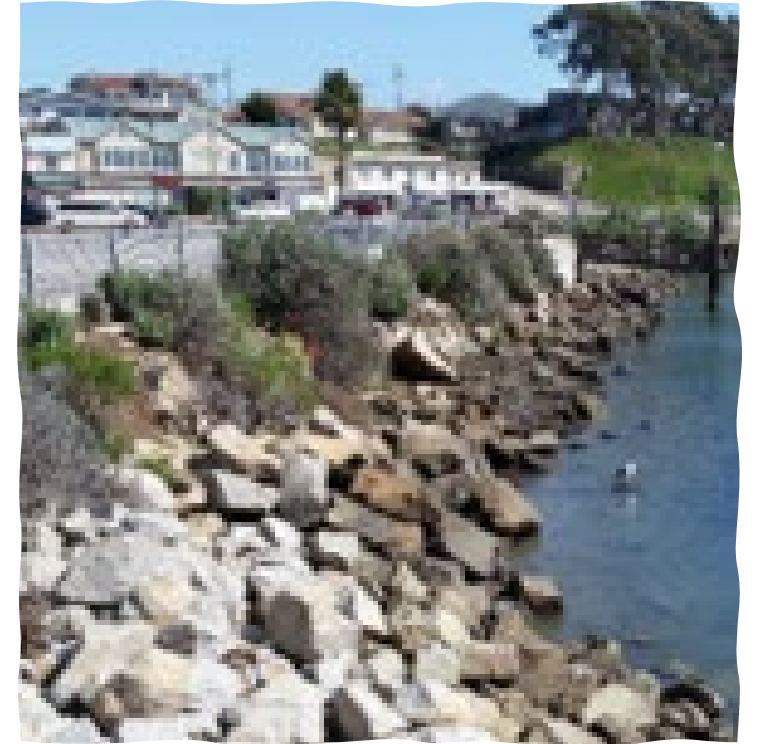


# Neighborhood-Scale Adaptation Planning

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What is it?

Planning approach that includes identifying and developing adaptation strategies that are specific to defined areas or assets with shared characteristics (e.g., a region, neighborhood, beach area, site), and developing LCP policies to support and implement those strategies



# Sea Level Rise Guidance & Resources



## CALIFORNIA COASTAL COMMISSION SEA LEVEL RISE POLICY GUIDANCE

*Interpretive Guidelines for Addressing  
Sea Level Rise in Local Coastal Programs  
and Coastal Development Permits*



Original Guidance unanimously adopted – August 12, 2015  
Science Update unanimously adopted – November 7, 2018  
2024 Update unanimously adopted – November 13, 2024

- LCP Grant Local Assistance Program
- Coastal Commission Sea Level Rise Policy Guidance, 2024
  - Don't forget to check out the appendices!

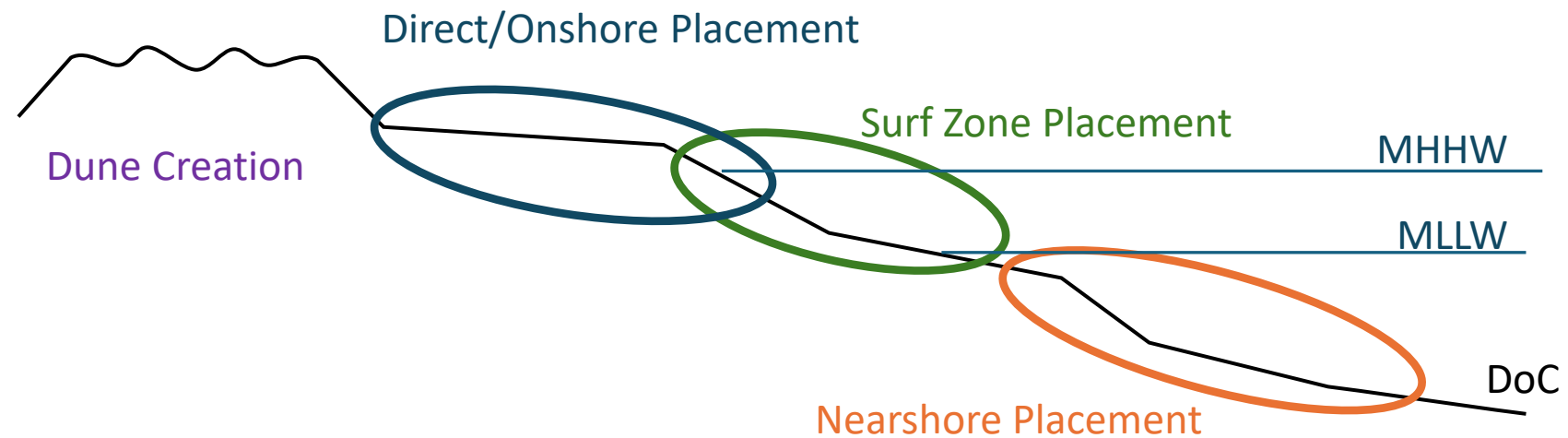
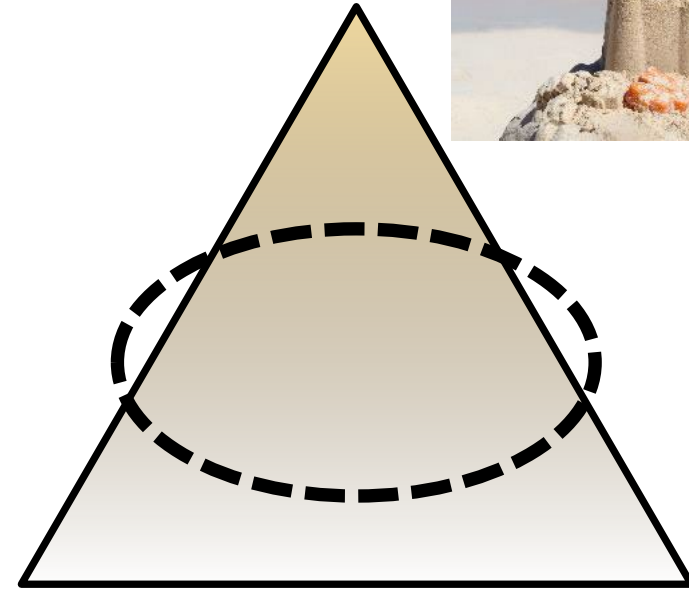




## Maximizing beneficial use of dredged material

- Coastal Act 30233(b): “... Dredge spoils suitable for beach replenishment should be transported for these purposes to appropriate beaches or into suitable longshore current systems”
- Coordinating early to match sediment with receiving sites/projects
- How can we maximize the benefit of dredged material through placement location, timing, etc.

# Sediment Suitability







Nicholas Paoni

### Closing Thoughts

- Big challenges ahead
- Collaboration is key
- Please see me as a resource



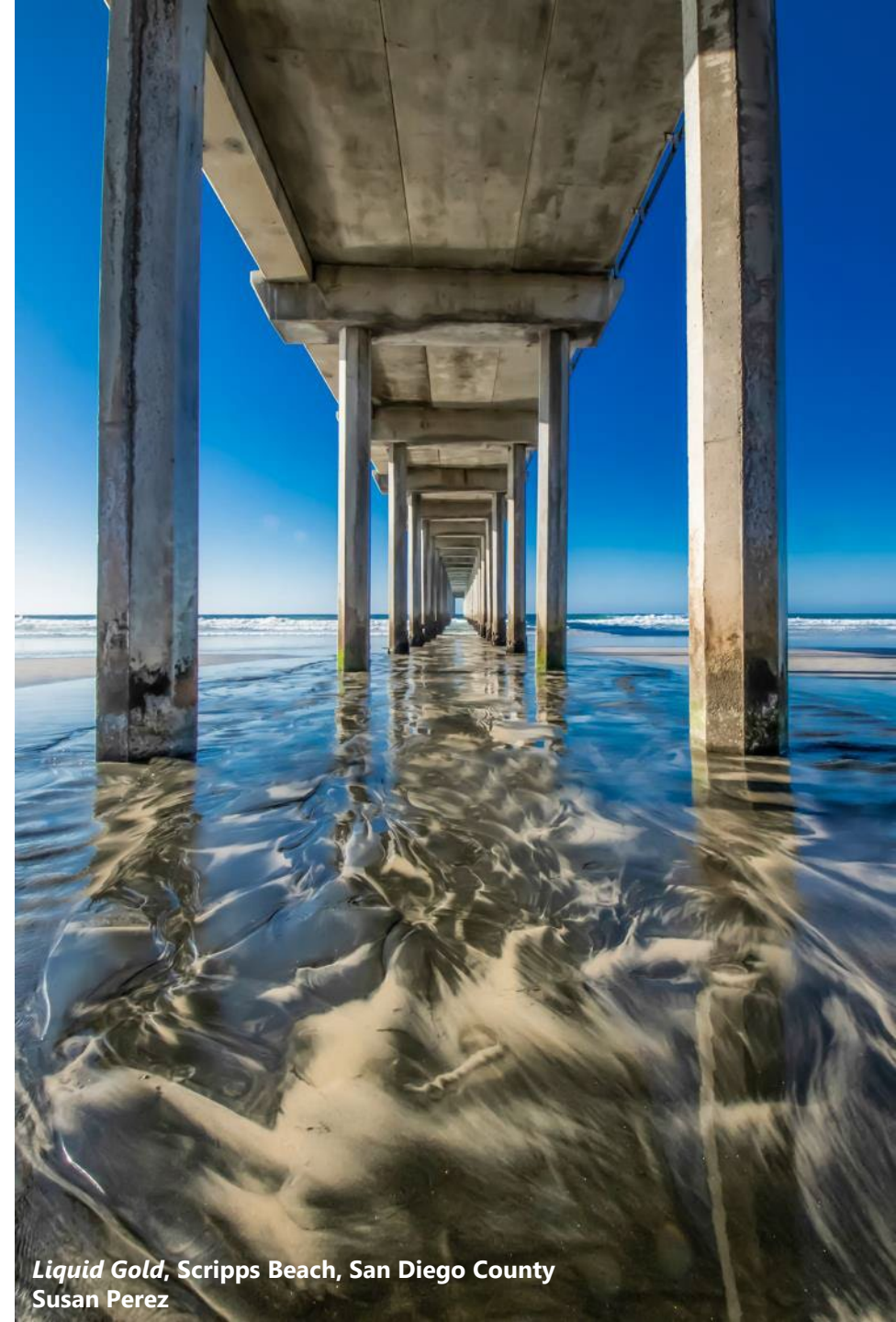
# Thank You

Please feel free to reach out!

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