

# Coastal Sediments Master Plan

Develop a comprehensive master plan for the conservation, restoration, and preservation of the valuable sediment resources along the coast of California to reduce shoreline erosion and coastal storm damages, provide for environmental restoration and protection, increase natural sediment supply to the coast, restore and preserve beaches, improve water quality along coastal beaches, and optimize the beneficial use of material dredged from ports, harbors, and other opportunistic sediment sources.



# Coastal Sediment Management Workgroup



- ❖ Initiated in late 1999
- ❖ South Pacific Division & State Resources Agency
- ❖ Leverage State & Federal Funds.
- ❖ Collaborate on Coastal Sediments Activities.
- ❖ Prepare a Programmatic Adaptive Master Plan.
- ❖ Restore Beach Health.

# Coastal Sediment Management Workgroup

## USACE

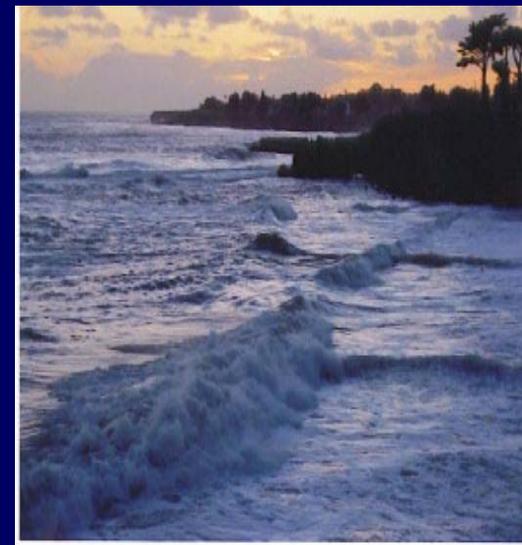
- ❖ South Pacific District
- ❖ Los Angeles District
- ❖ San Francisco District
- ❖ ERDC
- ❖ IWR

## RESOURCES AGENCY

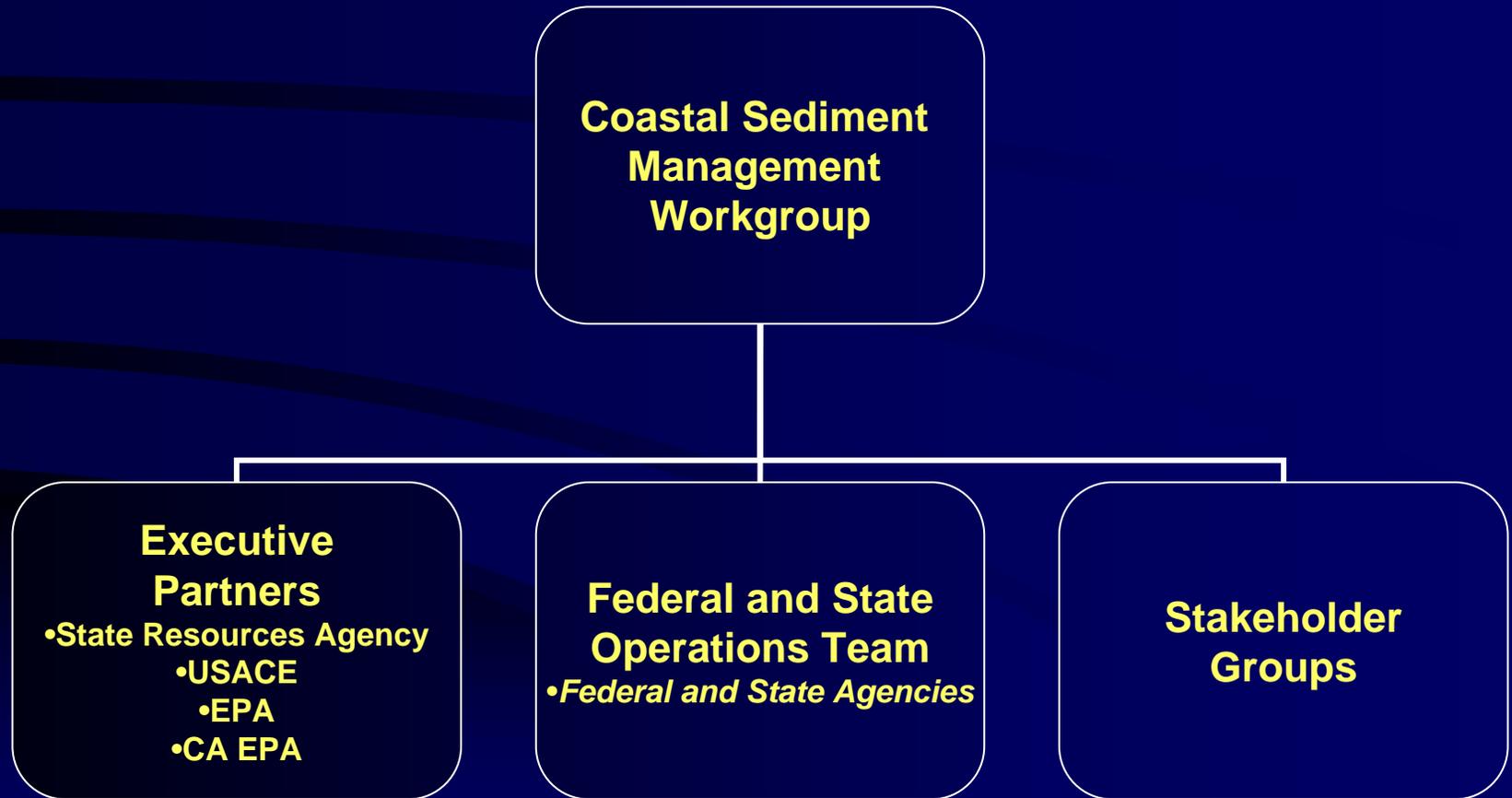
- ❖ Boating & Waterways
- ❖ Coastal Commission
- ❖ Coastal Conservancy
- ❖ Parks & Recreation
- ❖ State Lands Commission
- ❖ CA Geological Survey

## ADVISORY

- ❖ Cal Coast (local agencies)
- ❖ Minerals Management Service
  - ❖ US Geological Survey
  - ❖ CalTrans
- ❖ Others to be added



# Future of CSMW



# MASTER PLAN GOALS

- ❖ Prioritize regional sediment management needs
- ❖ Streamline the process
- ❖ Make information widely available
- ❖ Connect areas in deficit and those with excess sediment.
- ❖ Implementation Strategy



*Plate 5.9 Pre-nourishment condition at North Carlsbad site, April 2001*



*Plate 5.10 Post-nourishment condition at North Carlsbad site, November 2001  
(arrows point to approximately the same location on each photo)*

# SMP On-Going Activities & Products

- ❖ **CSMW Website- online since 2005**

*Education on sediment imbalance, need for port/harbor sediment to help address that imbalance, document/tool availability.*

- ❖ **Coastal References Database: 2005**

*Ease of reference for sediment managers.*

- ❖ **Prototype Coastal Sediments Analysis Tool: October 2005; Coastal Sediment Benefit Analysis Tool (CSBAT) – Beta Version: July 2006; Application to San Diego Region – 2007**

*Examines the incremental costs of various aspects of dredging from ports/harbors and transport of sediment to regional receiver sites.*

- ❖ **SCOUP Pilot Project Mitigated Negative Declaration: January 2006**

*Guidance on preparation of environmental documents for RSM activity.*

- ❖ **Sand Compatibility and Opportunistic Use Program (SCOUP)- Guidance for upland opportunistic regional programs: March 2006**

*Standards for characterizing receiver sites for placement of sediment from various sources.*

- ❖ **The Economics of Regional Sediment Management in Ventura and Santa Barbara Counties: April 2006**

*Examines incremental costs of transporting sediment from harbors to receiver sites.*

# SMP On-Going Activities & Products

- ❖ **California Beach Restoration Strategy, 2006**

- ❖ **Draft Priority list for Coastal Mitigation: April 2006**

  - Identifies priority locations for use of sediment from ports/harbors and other sediment sources*

- ❖ **SMP Brochure: April 2006**

  - Education on need for regional solutions to sediment imbalance, including use of sediment from ports/harbors.*

- ❖ **Sand Lost from Dams- May 2006**

  - Supports discussions on sediment imbalance and need for regional solutions.*

- ❖ **California Sediment Master Plan Progress Report to Ocean Protection Council: September 2006**

  - Pulls together plans to utilize sediment from ports/harbors and other sources to address regional sediment deficits.*

- **Beaches, Littoral Drift and Littoral Cells- Understanding California's Shoreline and Beach Nourishment: August/September 2006**

- **Beach Nourishment Reference Guide- Guidance for local coastal stakeholders: August/September 2006**

  - Clarify the regulatory process and requirements for sediment managers.*

# On-Going Study Activities

- ❖ **Analysis of Impacts and Recommended Mitigation for Critical Species and Habitats- guide for environmental documentation: September/October 2006**  
*Assist sediment managers to streamline projects by awareness of critical species impact and mitigation measures.*
- ❖ **Web-based Mapping tool (IMS): October 2006**  
*User-friendly tool to access information needed to evaluate sediment management projects.*
- ❖ **Development of Sand Budgets for California's Major Littoral Cells: December 2006**  
*Compiles dredging records and computes littoral cell sand budgets based on port/harbor dredging records.*
- ❖ **Policies, Procedures and Regulations Analysis- Recommendations to the CSMW: December 2006**  
*Recommendations on how to eliminate hurdles to effective, resource-protective RSM.*
- ❖ **Mud Budget Final Report- Fine Grained Sediment Sources, Transport and Sinks: Phase 1- November 2005; Phase 2- October 2006**  
*Identify fate and transport of fine-grained materials for comparison against sediment management projects.*

# Related SMP/RSM efforts

- ❖ **Public Outreach – Multiple Workshops – Will continue**  
*Opportunity to reach out to stakeholders.*
- ❖ **Reconnaissance Report and Signed FCSA: September 2005 with California Resources Agency and Department of Boating and Waterways**  
*Completed first phase of planning study. Initiated Feasibility Phase of Study.*
- ❖ **West Coast Shoreline Risk and Uncertainty Workshop and Tech Note: March 2004**
- ❖ **Conceptual Plan to Capture/Reuse Coastal Sediments Lost to Submarine Canyons: October 2006**
- ❖ **Initial Data Inventory and Collection - GIS Database: Ongoing Efforts**
- ❖ **National Shoreline Management Study – Collaborative Efforts**
- ❖ **Section 227 – National Shoreline Erosion Abatement Demonstration Program**  
*Opportunity to beneficially reuse sediment from the harbors for erosion areas within the region.*

# MASTER PLAN FEDERAL FUNDING STATUS

- ❖ **Estimated Feasibility Cost: ~\$13.8 M**
- ❖ **FY06 Allocation - \$600K**
- ❖ **FY07 Budget**
  - ❖ **President's Budget - \$300K**
  - ❖ **House Budget - \$300K**
  - ❖ **Senate Budget - \$300K**
  - ❖ **Optimal Funding - \$900K**