



California Marine Affairs and Navigation Conference Winter 2007 (Long Beach)

U.S. Army Corps of Engineers Los Angeles District Update

COL Alex C. Dornstauder

Commander and District Engineer
Los Angeles District, US Army Corps of Engineers

February 8, 2007



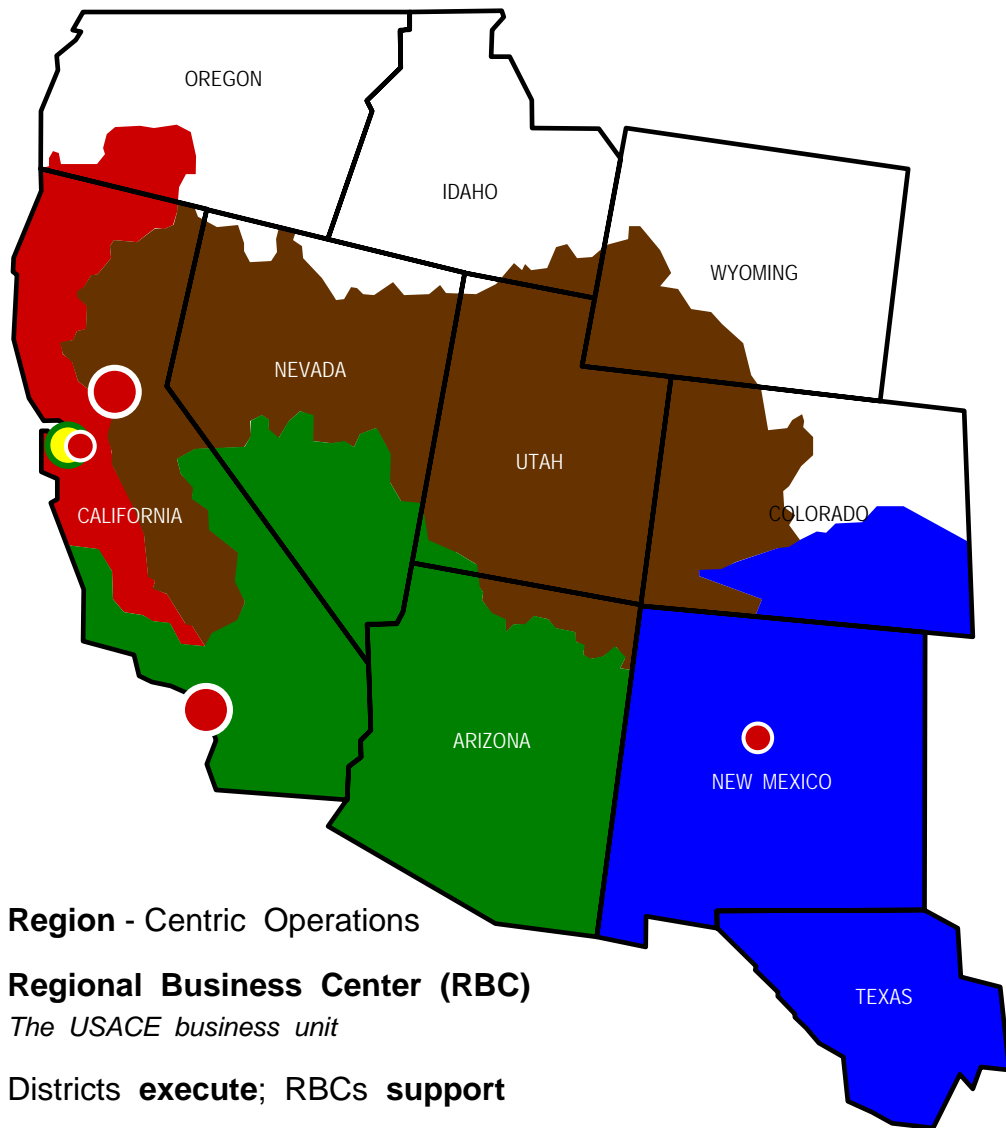
Let us not forget . . .



. . . our Nation is at war !



South Pacific Region



328 **Albuquerque (SPA)**

LTC Bruce Estok / \$ 36 MIL / \$ 132 MIL
Tribal Affairs (BIA Schools)

800 **Sacramento (SPK)**

COL Ron Light / \$ 230 MIL / \$ 403 MIL
Regulatory

649 **Los Angeles (SPL)**

COL Alex Dornstauder / \$ 367 MIL / \$ 448 MIL
Tactical Military Integration / Information Operations

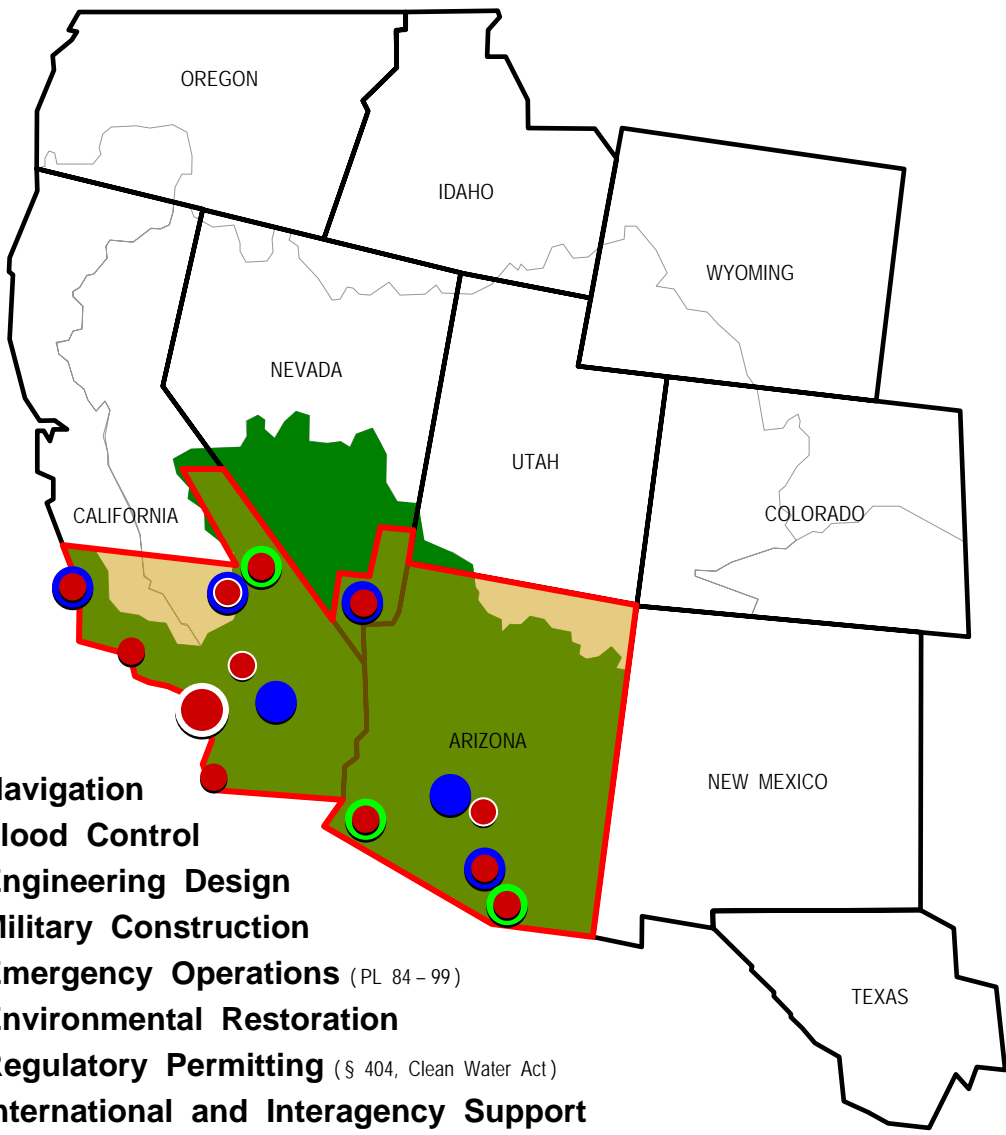
310 **San Francisco (SPN)**

LTC Craig Kiley / \$ 33 MIL / \$ 91 MIL
Coastal Engineering / Navigation

- **Region - Centric Operations**
- **Regional Business Center (RBC)**
The USACE business unit
- Districts **execute**; RBCs **support**
- **Business Lines / Communities of Practice**



Los Angeles District (SPL)



- Civil Works**
- Military**
- Army Installation**
- Air Force Installation**
- Area Office**
- Resident Office**

226,000 square miles

420 miles of shore line / **14** harbors

ENVIRONMENTAL "EXTREMES" (in contiguous 48 states):

Hottest and Driest Locations (Death Valley)

Highest Elevation - Mount Whitney (14,494 feet above sea level)

Lowest Elevation - Bad Water, Death Valley (282 feet below sea level)

Critical Habitat / Biodiversity (385 Threatened / Endangered Species)

30 Million people (1 in 10 Americans)

Population growing by **500,000 annually**

3 of **7 Most Populated** US cities (Los Angeles / San Diego / Phoenix)

8 U.S. SEN / **46** U.S. REP / **4** GOV

World's **8th largest economy** (> Canada / Spain)

CA ports = **40% US trade** by volume

Ports of LA / Long Beach = US No. **1** and **3**

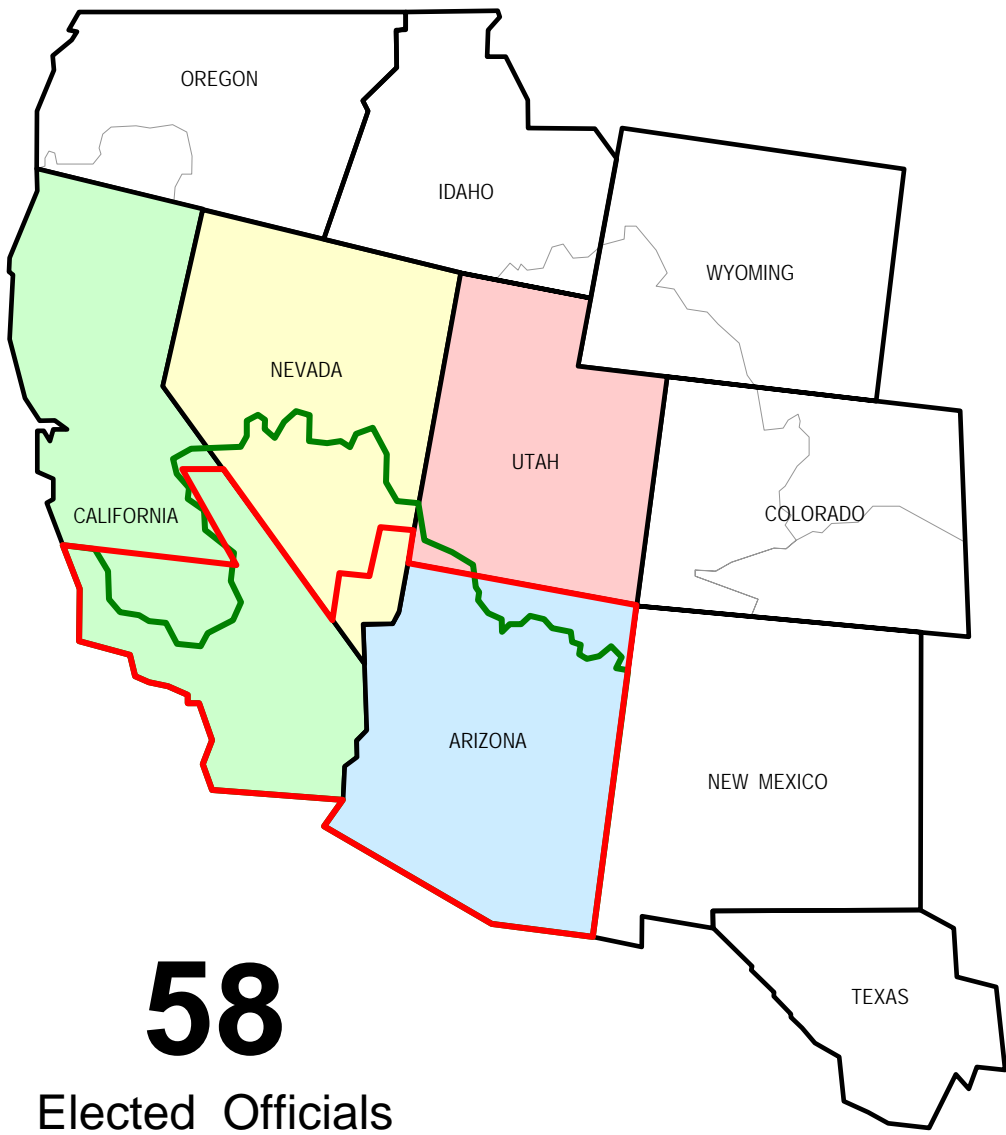
LA Customs = US No. **1** (**\$300 BIL annually**)

LA Metro = **US No. 1 manufacturer** (employment)

- Navigation**
- Flood Control**
- Engineering Design**
- Military Construction**
- Emergency Operations** (PL 84 - 99)
- Environmental Restoration**
- Regulatory Permitting** (§ 404, Clean Water Act)
- International and Interagency Support**
- Global War on Terror / Homeland Security**



Congressional Delegation



58

Elected Officials

- ## California (34)
- Sen. Barbara Boxer (D)*
Sen. Dianne Feinstein (D)
- Kevin McCarthy (R-22)
 - Lois Capps (D-23)
 - Elton Gallegly (R-24)
 - H. P. McKeon (R-25)
 - David Dreier (R-26)
 - Brad Sherman (D-27)
 - H. L. Berman (D-28)
 - Adam Schiff (D-29)
 - H. A. Waxman (D-30)
 - Xavier Becerra (D-31)
 - Hilda Solis (D-32)
 - Diane Watson (D-33)
 - L. Roybal-Allard (D-34)
 - Maxine Waters (D-35)
 - Jane Harman (D-36)
 - J. Millender-McDonald (D-37)
 - Grace Flores Napolitano (D-38)
 - Linda Sanchez (D-39)
 - Ed Royce (R-40)
 - Jerry Lewis (R-41)
 - Gary G. Miller (R-42)
 - Joe Baca (D-43)
 - Ken Calvert (R-44)
 - Mary Bono (R-45)
 - Dana Rohrabacher (R-46)
 - Loretta Sanchez (D-47)
 - John Campbell (R-48)
 - Darrell Issa (R-49)
 - Bob Bilbray (R-50)
 - Bob Filner (D-51)
 - Duncan L. Hunter (R-52)
 - Susan A. Davis (D-53)

- ## Arizona (10)
- Sen. John McCain (R)*
Sen. Jon Kyl (R)
- Rick Renzi (R-1)
 - Trent Franks (R-2)
 - John Shadegg (R-3)
 - Ed Pastor (D-4)
 - Harry Mitchell (D-5)
 - Jeff Flake (R-6)
 - Raul M. Grijalva (D-7)
 - Gabrielle Giffords (D-8)

- ## Nevada (5)
- Sen. Harry Reid (D)*
Sen. John Ensign (R)
- Shelley Berkley (D-1)
 - Dean Heller (R-2)
 - Jon Porter, Sr. (R-3)

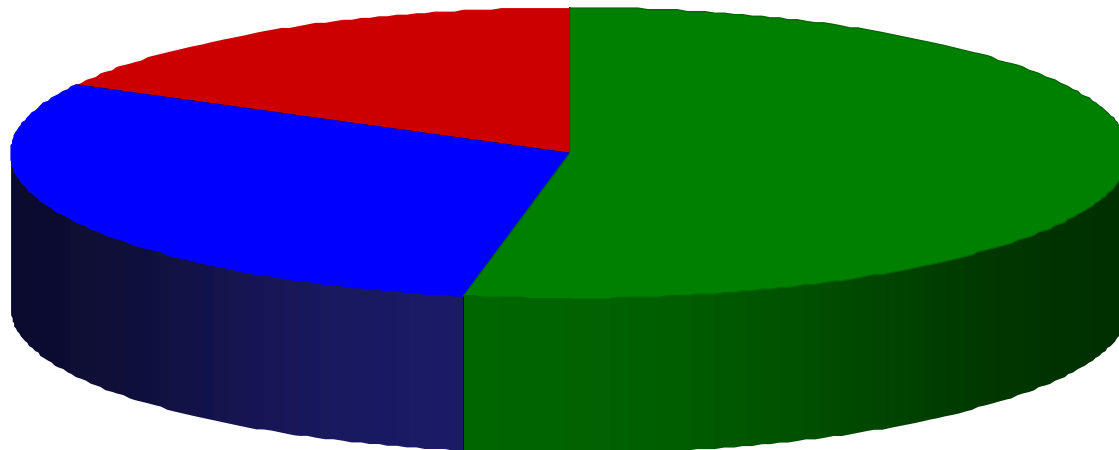
- ## Utah (5)
- Sen. Orrin G. Hatch (R)*
Sen. Robert F. Bennett (R)
- Rob Bishop (R-1)
 - Jim Matheson (D-2)
 - Chris Cannon (R-3)

+
4 Governors

Estimated FY 07 SPL Program

Interagency and
International Support (I&IS)

\$ 100,000,000+



FY 06 Civil Works

\$ 173,900,000

**Military
Construction**

FY 05 / 06
(24 projects)

\$ 370,000,000

FY 07
(21 Projects)

\$ 308,000,000

\$ 581,900,000

SPL Civil Works Funding

(Estimated)

General Investigations

| | FY 2005 | FY 2006 | FY 2007 | FY 2008 |
|--|---------|---------|---------|---------|
| Total Budget Submissions | 7.5 | 7.9 | 1.2 | 1.3 |
| Total Appropriations w/ Congressional Adds | 12.3 | 13.3 | 13.2 | TBD |
| Total Work Allowance Issued | 9.8 | 13.9 | TBD | TBD |

Construction, General

| | | | | |
|--|-------|-------|-------|------|
| Total Budget Submissions | 57.7 | 65.7 | 77.7 | 17.0 |
| Total Appropriations w/ Congressional Adds | 116.9 | 135.9 | 132.6 | TBD |
| Total Work Allowance Issued | 94.5 | 140.2 | TBD | TBD |

Operations and Maintenance

| | | | | |
|--|------|------|------|------|
| Total Budget Submissions | 28.8 | 19.1 | 25.4 | 40.1 |
| Total Appropriations w/ Congressional Adds | 29.0 | 20.5 | 26.0 | TBD |
| Total Work Allowance | 29.0 | 20.5 | TBD | TBD |



SPL Navigation / Shore Protection



| Project | FY 2007 President's Budget | FY 2007 Optimal Funding | FY 2008 President's Budget |
|---------------------------------------|----------------------------------|-------------------------------|----------------------------------|
| Channel Islands Harbor, CA | 5,086,000 | 5,086,000 | 0 |
| Los Angeles - Long Beach, CA | 0 | 1,000,000 | 2,560,000 |
| Los Angeles - Long Beach Model | 0 | 0 | 0 |
| Marina del Rey, CA | 1,460,000 | 1,460,000 | 2,550,000 |
| Morro Bay Harbor, CA | 1,300,000 | 1,300,000 | 1,426,000 |
| Newport Bay Harbor, CA | 0 | 0 | 0 |
| Oceanside Harbor, CA | 700,000 | 900,000 | 1,115,000 |
| Port Hueneme, CA | 0 | 0 | 1,309,000 |
| Port San Luis, CA | 0 | 0 | 0 |
| Project Condition Survey, CA | 647 | 647 | 1,047,000 |
| San Diego Harbor, CA | 0 | 0 | 2,471,000 |
| San Diego Mission Bay, CA | 0 | 0 | 0 |
| Santa Barbara Harbor, CA | 1,200,000 | 12,000,000 | 1,940,000 |
| Ventura Harbor, CA | 1,700,000 | 3,200,000 | 3,695,000 |
| Surfside - Sunset, CA | 1,200,000 | 0 | * 9,000,000 |
| Total (Los Angeles District) | 12,093,000 | 14,793,000 | 27,113,000 |

* Originally in CG Program, FY 08 funding through O&M Program

Navigation / Shore Protection

420 miles of shoreline

14 Harbors

\$ 12. M (FY 07) (Optimal Funding)

\$ 27.1 M (FY 08)



US Army Corps
of Engineers®
Los Angeles District



● Navigation Projects

● Shore Protection Projects

Morro Bay^(1.0) (FY07 \$ 1.3 M*) (FY08 \$ 1.4 M)

Port San Luis^(0.0)

Santa Barbara^(2.0) (FY07 \$ 1.2 M) (FY08 \$ 1.9 M)

Ventura^(1.0) (FY07 \$ 1.7 M) (FY08 \$ 3.7 M)

Port Hueneme^(0.2) (FY08 \$ 1.3 M)

Channel Islands^(0.5) (FY07 \$ 5.0 M)

Marina del Rey^(0.2) (FY07 \$ 1.4 M) (FY08 \$ 2.5 M)

Redondo Beach King Harbor^(0.0)

Los Angeles – Long Beach^(0.25)
(FY07 \$ 1.0 M) (FY08 \$ 2.5 M)

Newport Bay^(0.2)

Dana Point^(<0.2)

Oceanside^(1.0) (FY07 \$ 0.7 M) (FY08 \$ 1.1 M)

Mission Bay^(0.2)

San Diego^(0.2) (FY08 \$ 2.5 M)

Regional Solutions for the Future

National Regional Sediment Management (RSM)

**National Shoreline Erosion Control Development and
Demonstration Program (Section 227) – Oil Piers, Ventura**

Coast of California Storm and Tidal Wave Studies (CCSTWS)

San Diego County / Orange County / Los Angeles County / Ventura and Santa Barbara Counties

California Coastal Sediment Master Plan (SMP)

Los Angeles Dredge Material Management Plan (DMMP)

California Coastal Sediment Master Plan

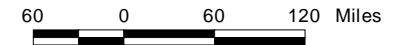
A "Super-Regional" Approach







House Committee on Transportation and Infrastructure
Resolution 2672
May 22, 2002

Comprehensive Adaptive Management Master Plan

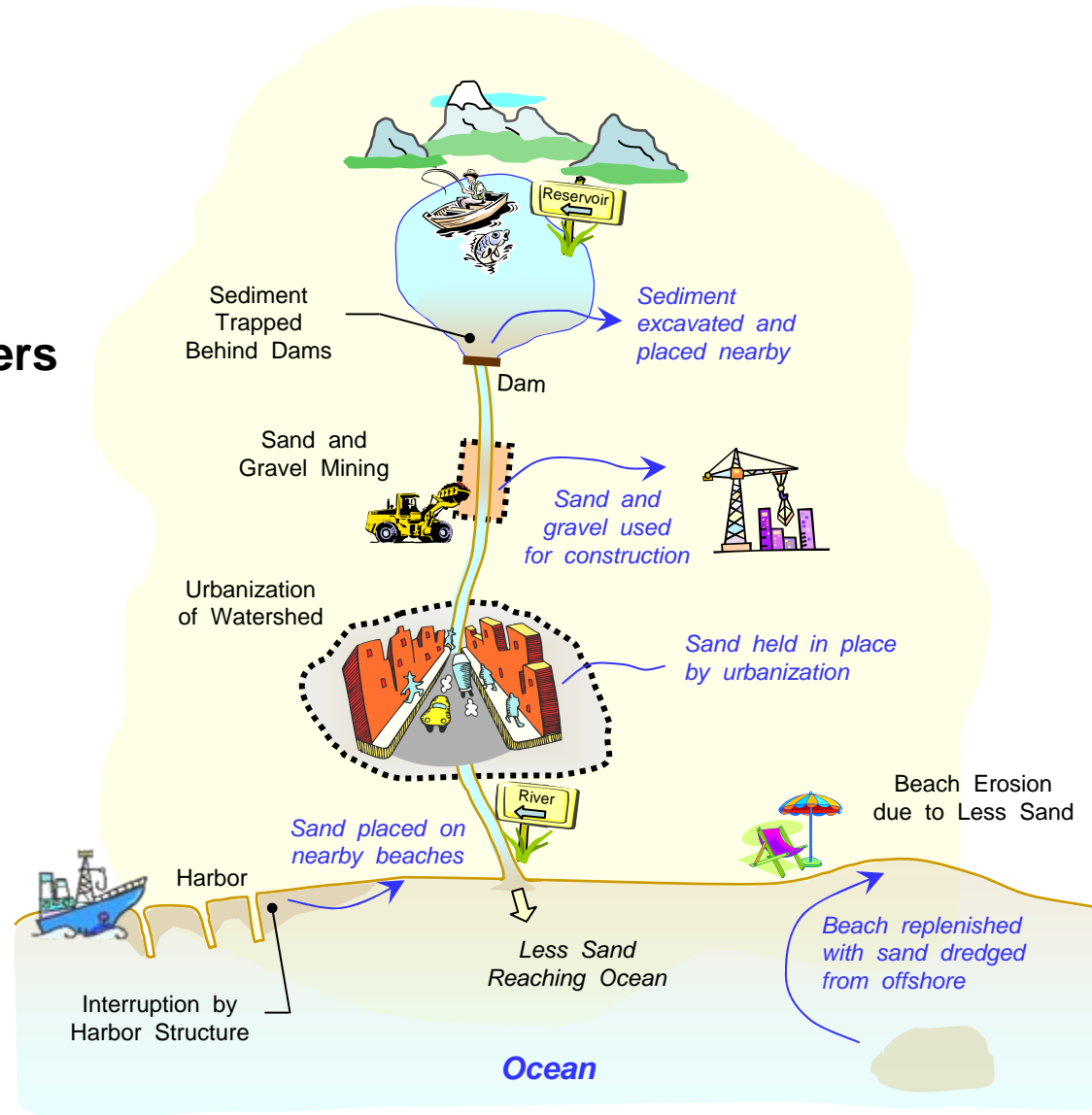
- RSM / 227
- Critical Erosion Areas
- Debris Basin / Dam Removal
- Coastal Processes
- Sand Bypassing
- Wetland Restoration
- Funding
- Dredging
- Data Acquisition



-  Coastline
-  Coastal Watersheds
-  Counties
-  Littoral Cells

Sediment Transport Process

- Generated in Watersheds
- Initially Transported by Rivers
- Deposited in Estuaries
- Deposited on Beaches
- Further Transported by Waves





Coastal Sediment Benefits



- Habitat for Fish & Wildlife
- Recreation
- Shoreline Protection
- Construction





Coastal Sediments Detriments



- Ecosystem Changes
- Water Quality Degradation
- Harbor Shoaling

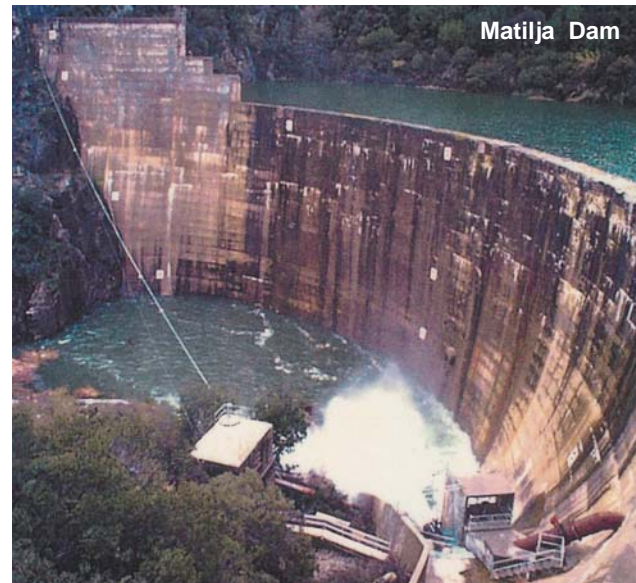




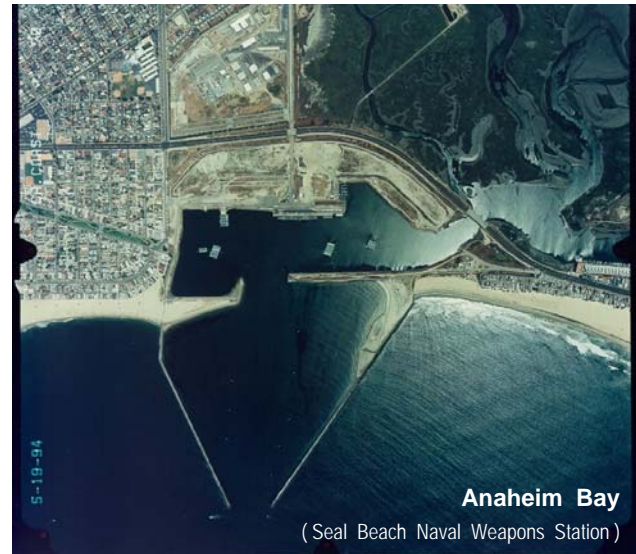
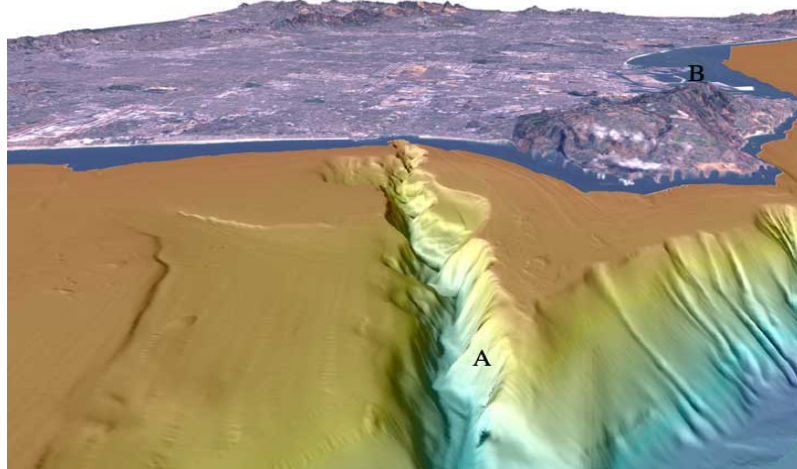
Coastal Sediments Interruptions



- Submarine Canyons
- Dams & Debris Basins
- Navigation Structures
- Shoreline Structures



Redondo Offshore Submarine Canyon





Collaborative Oversight

Coastal Sediment Management Workgroup



- Initiated in late 1999
- USACE SPD and State Resources Agency
- Leverage State and Federal Funds
- Collaborate on Coastal Sediments Activities
- Prepare Programmatic Adaptive Master Plan
- Restore Beach Health



What Will the Coastal Sediment Master Plan Do?

- Improve beach conditions / reduced erosion from human causes
- Improve wetland quality
- Improve use of federal and state agency resources and the formulation of regional solutions
- Optimize project execution by programmatically assessing environmental impacts of regional coastal projects
- Holistically integrating discrete solutions into comprehensive regional solutions

Horizontal / Vertical Integration

Coastal Sediment Management Workgroup Participation

Federal Agencies

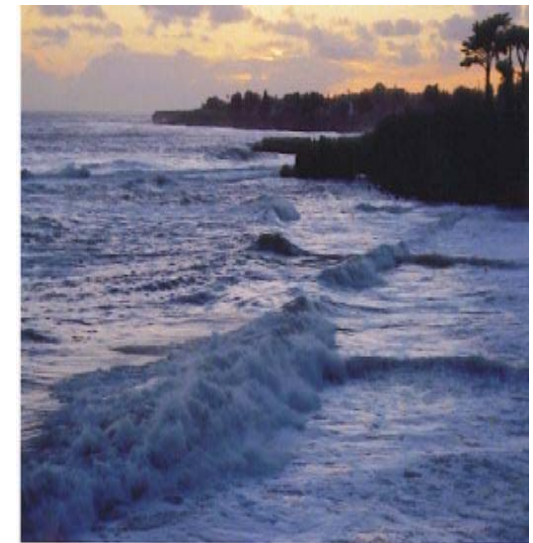
USACE - South Pacific Division
USACE - Los Angeles District
USACE - San Francisco District
USACE - ERDC
NOAA
U.S. Geological Survey
U.S. Environmental Protection Agency
U.S. Minerals Management Service
National Ocean Service
IWR

State Agencies

Resource Agency
Boating & Waterways
Coastal Commission
Coastal Conservancy
Parks & Recreation
State Lands Commission
CA Geological Survey
CA Department of Transportation
CA Department of Fish and Game

Local Agencies

California Coast
CMANC



California Coastal Sediment Master Plan

Master Plan Products

Centralized & Accessible GIS Database

Sediment Management Strategy

Policy & Regulations

Sediment Supply

Government Resources

Decision Support System

Planning & Prioritization Road Map

Streamlined Permitting Process

Summary

Total Feasibility Study Cost = \$ 14 million

Cost shared 50 / 50 (Federal / Non-federal)

FY06 Allocation = \$ 600K

FY 07 President's Budget = \$ 300K / House = \$ 300K / Senate = \$ 300K

FY07 SPL Optimal Funding = \$ 490K

Formal Partners

US Army Corps of Engineers, Los Angeles District

California Department of Boating & Waterways

Number of Years to Complete = 5 years

Will Field Interim Products



Los Angeles Regional DMMP Sand Separation Investigation





Tri-Flo
Equipment

Manson
Derrick
Barge

Dredge
Material

8 6:55 AM



Scalper

4" Hydrocyclones

10" Hydrocyclone

9 8:45 AM



**75 μm cut
(96 hours)**

**75 μm cut
(48 hours)**

**75 μm cut
(24 hours)**

12 12:46 PM



Next Regional Steps

Full Field Project

A % of a project to treat and a % to CAD

Coordination with outside agencies

Develop industry interest in the process



Questions ?