

REGIONAL SEDIMENT MANAGEMENT IN CA

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National Shoreline Management Study (NSMS) Assessments

Identify current shoreline conditions and assess how coasts are changing by region



Regional Sediment Management (RSM)

A systems approach for more efficient and effective use of sediments in coastal, estuarine, and inland environments



California Coastal Sediment Management Workgroup (CSMW)

Developing and facilitating regional approaches to managing sediment imbalances



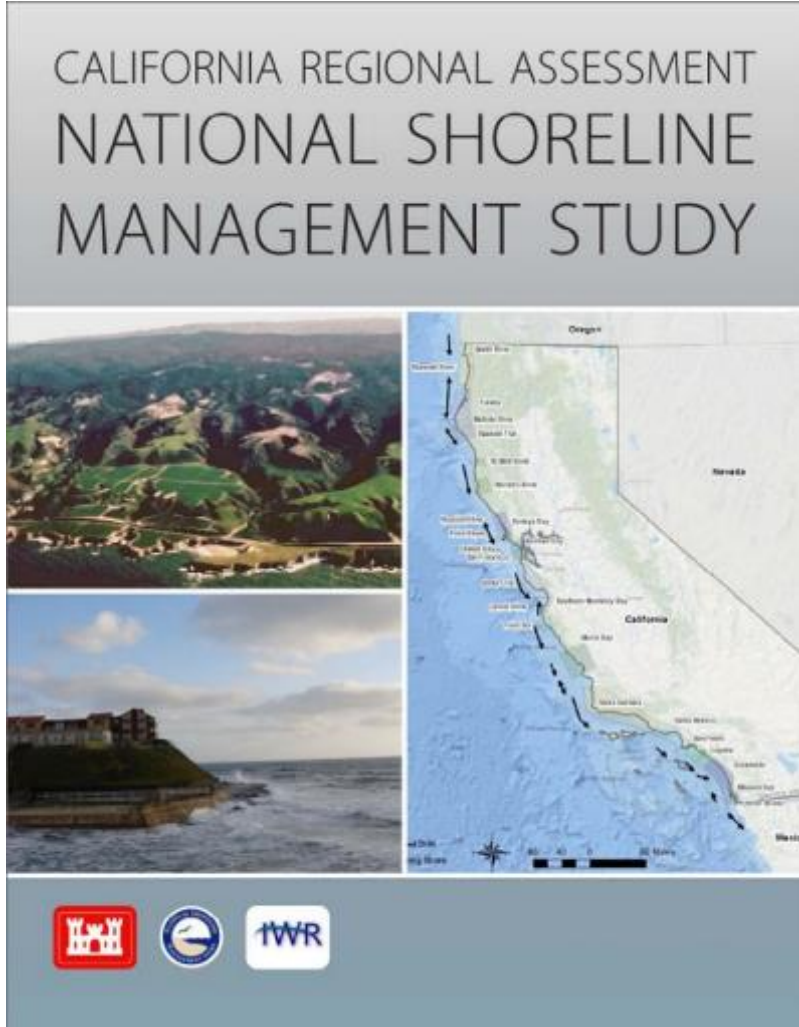
Projects in California and Where Do We Go From Here?



NATIONAL SHORELINE MANAGEMENT STUDY



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Purpose of Assessments

- Assess coastal change, by region
- Economic and environmental impacts
- Identify roles in a region

Benefits of Assessments

- Strengthen regional collaboration
- Identify data/knowledge gaps
- Document best practices
- Characterize impacts of sediment erosion and accretion
- <https://www.iwr.usace.army.mil/Missions/Coasts/National-Shoreline-Management/NSMS-Regional-Shoreline-Management-Assessments/>





REGIONAL SEDIMENT MANAGEMENT

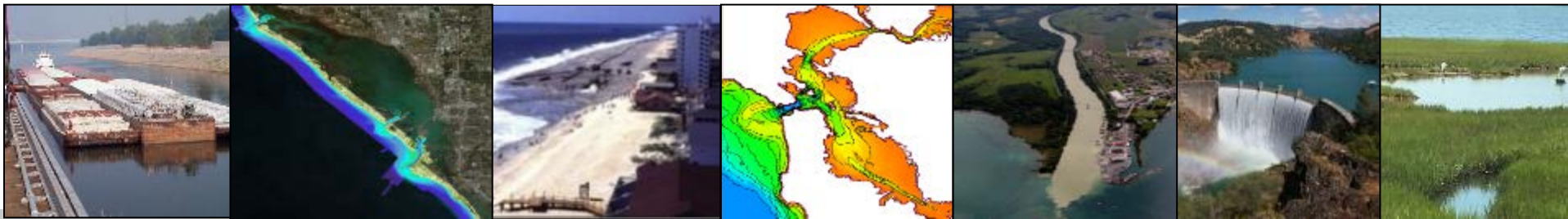
ESTABLISHED 1999, CERB CHARGE



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“A systems approach using best management practices for more efficient and effective use of sediments in coastal, estuarine, and inland environments for healthier and more resilient systems.”

- Recognizes sediment as a valuable resource
- Work across business lines, projects, and authorities to create short and long-term economically viable and environmentally sustainable solutions
- Improve operational efficiencies and natural exchange of sediments
- Consider regional implications of project scale actions and benefits
- Apply/Enhance tools and technologies for regional approaches
- Share lessons learned, information, data, tools, and technologies
- Communicate and collaborate

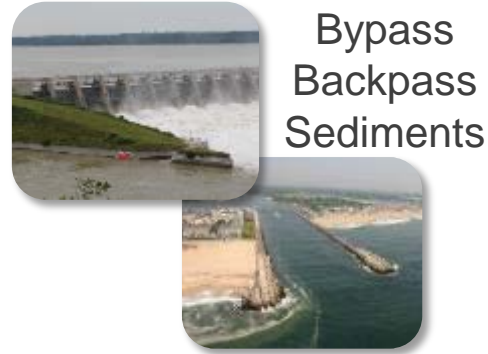




RSM GOALS AND STRATEGIES



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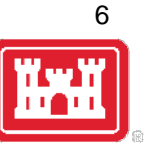


- Keep sediments in the system
- Mimic natural sediment processes
- Reduce unwanted sedimentation
- Environmental enhancement
- Maintain & protect infrastructure





CA SEDIMENT MASTER PLAN AND THE COASTAL SEDIMENT MANAGEMENT WORKGROUP



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MISSION



conserve



restore



protect

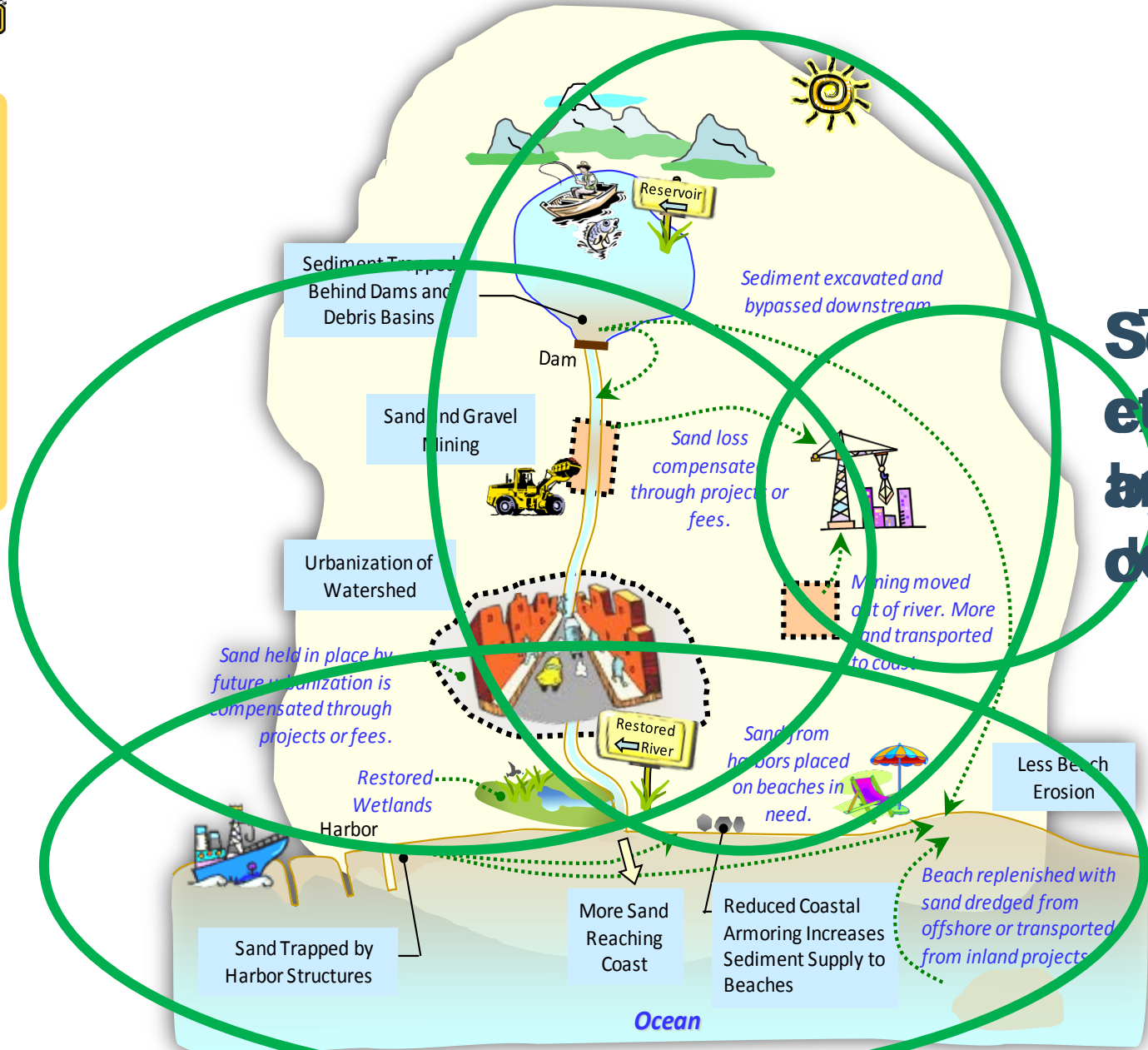
*California's coastal resources
by
developing and facilitating
regional approaches
to
managing sediment imbalances*



SEDIMENT MANAGEMENT SOLUTIONS



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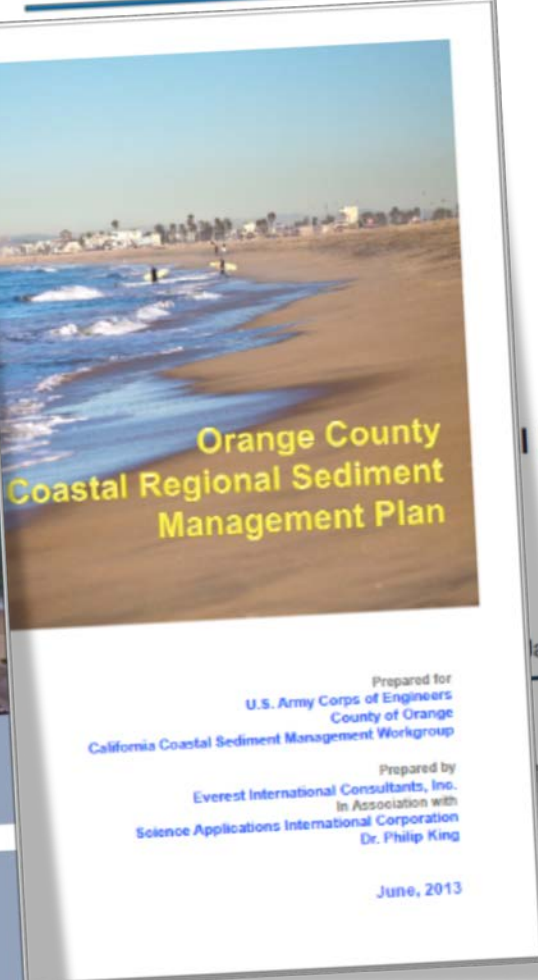
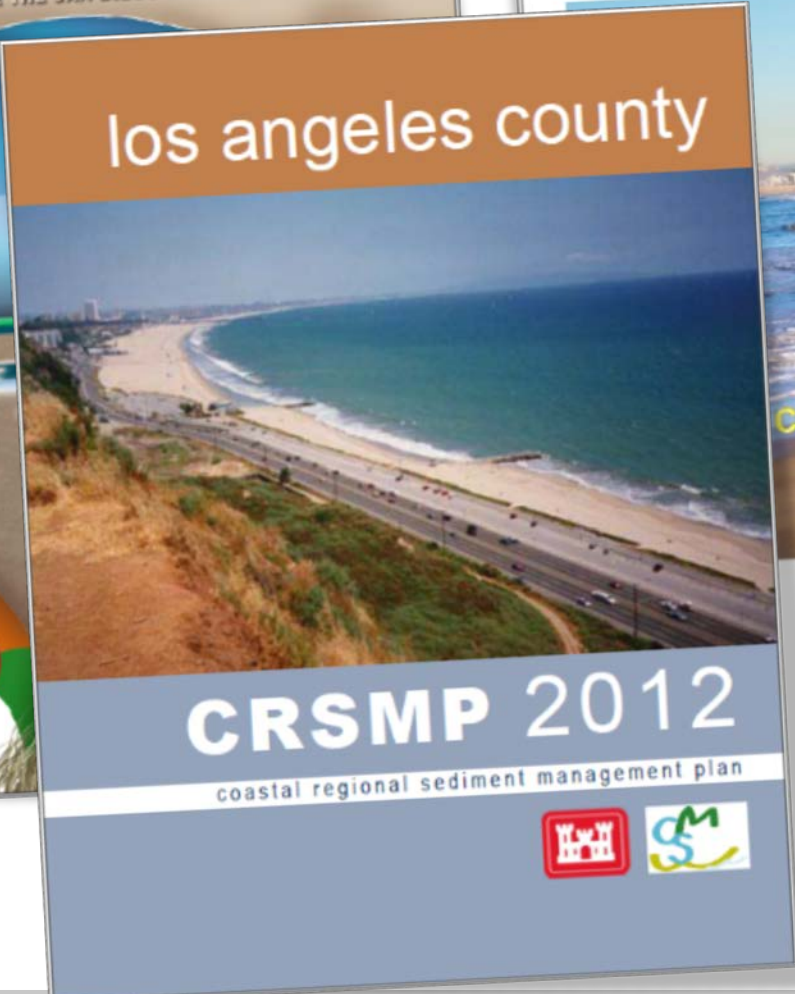
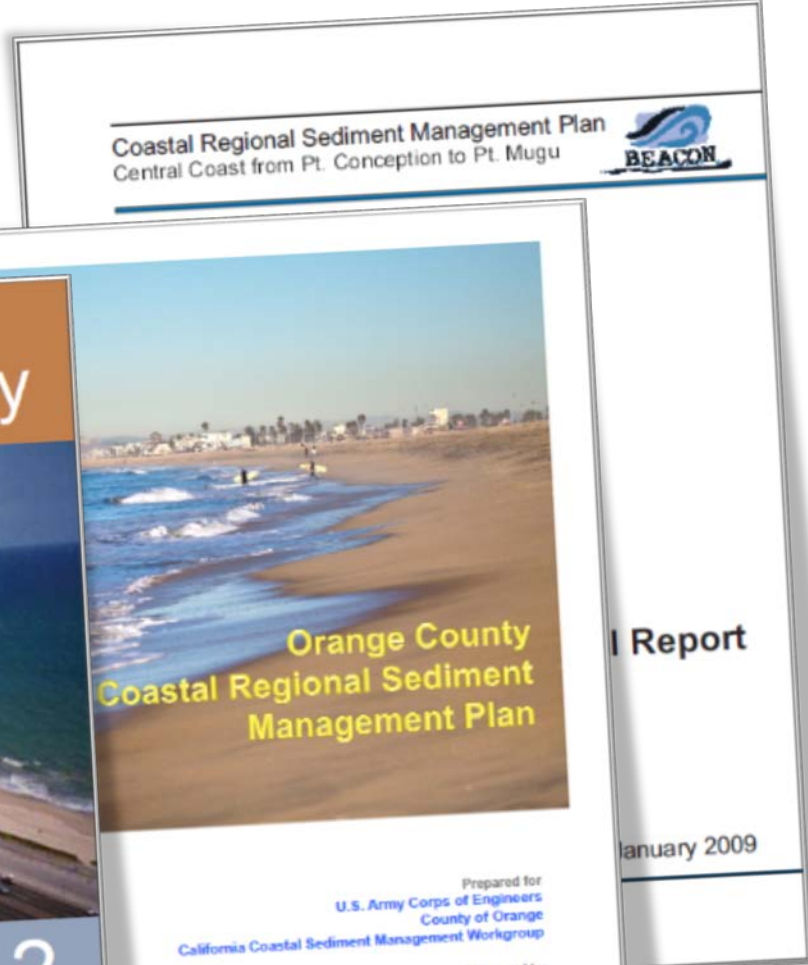
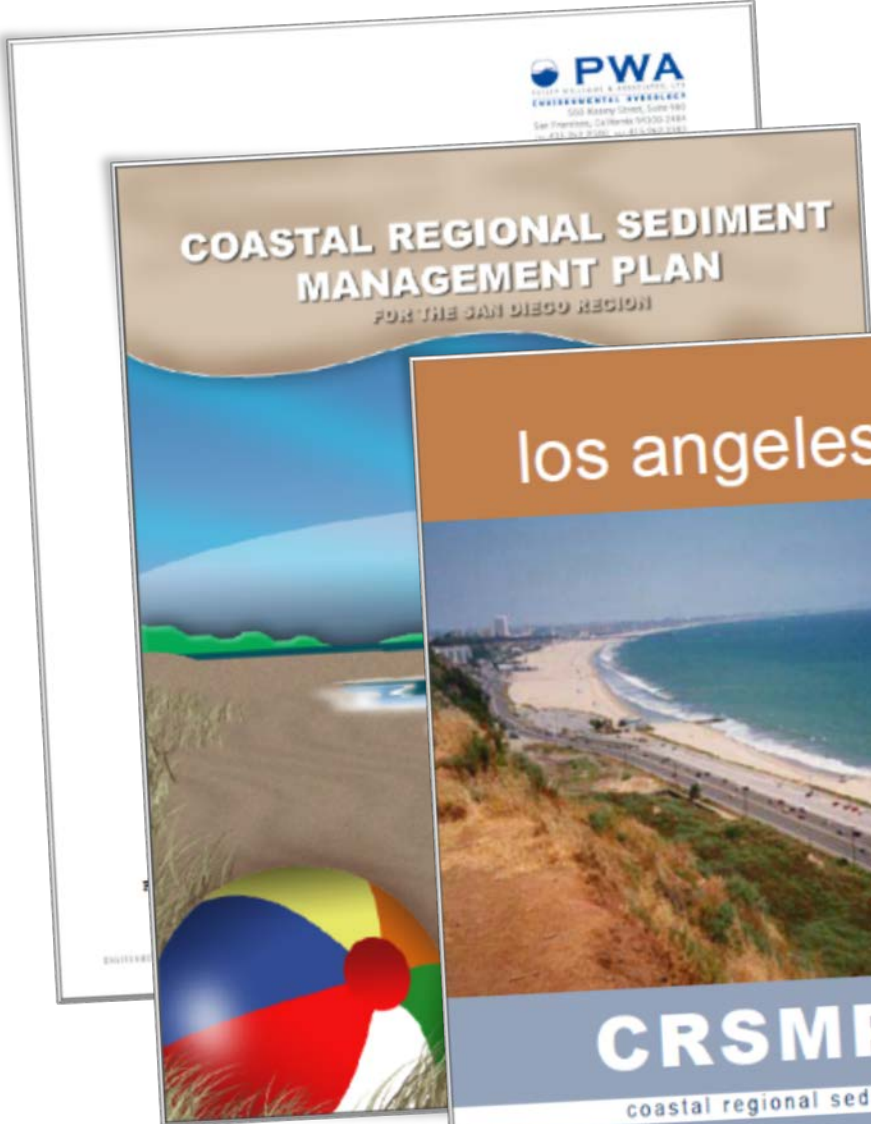


Sand Mining
even a great lot of
supply used (or
downstream)

Source: CSMW Brochure



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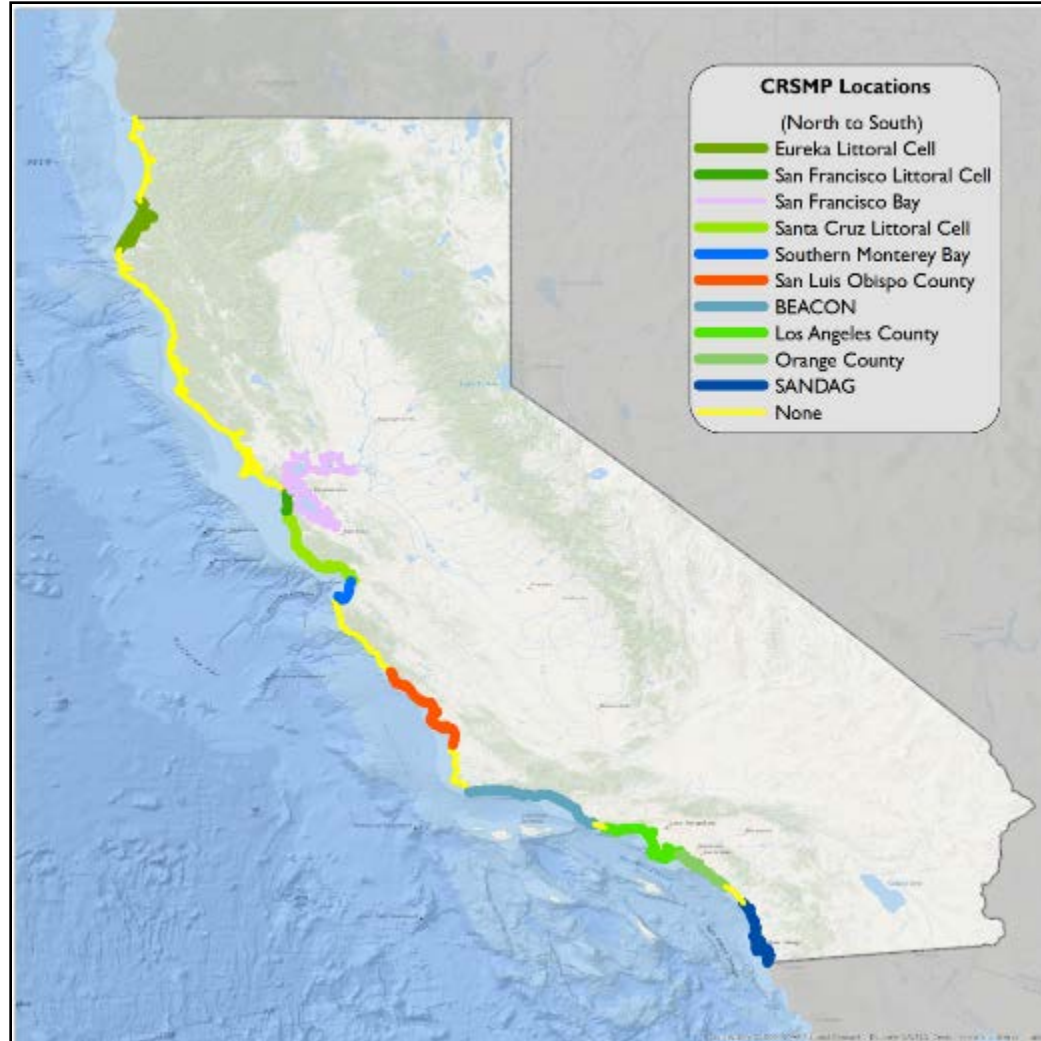
Report
January 2009



COASTAL RSM PLAN DEVELOPMENT



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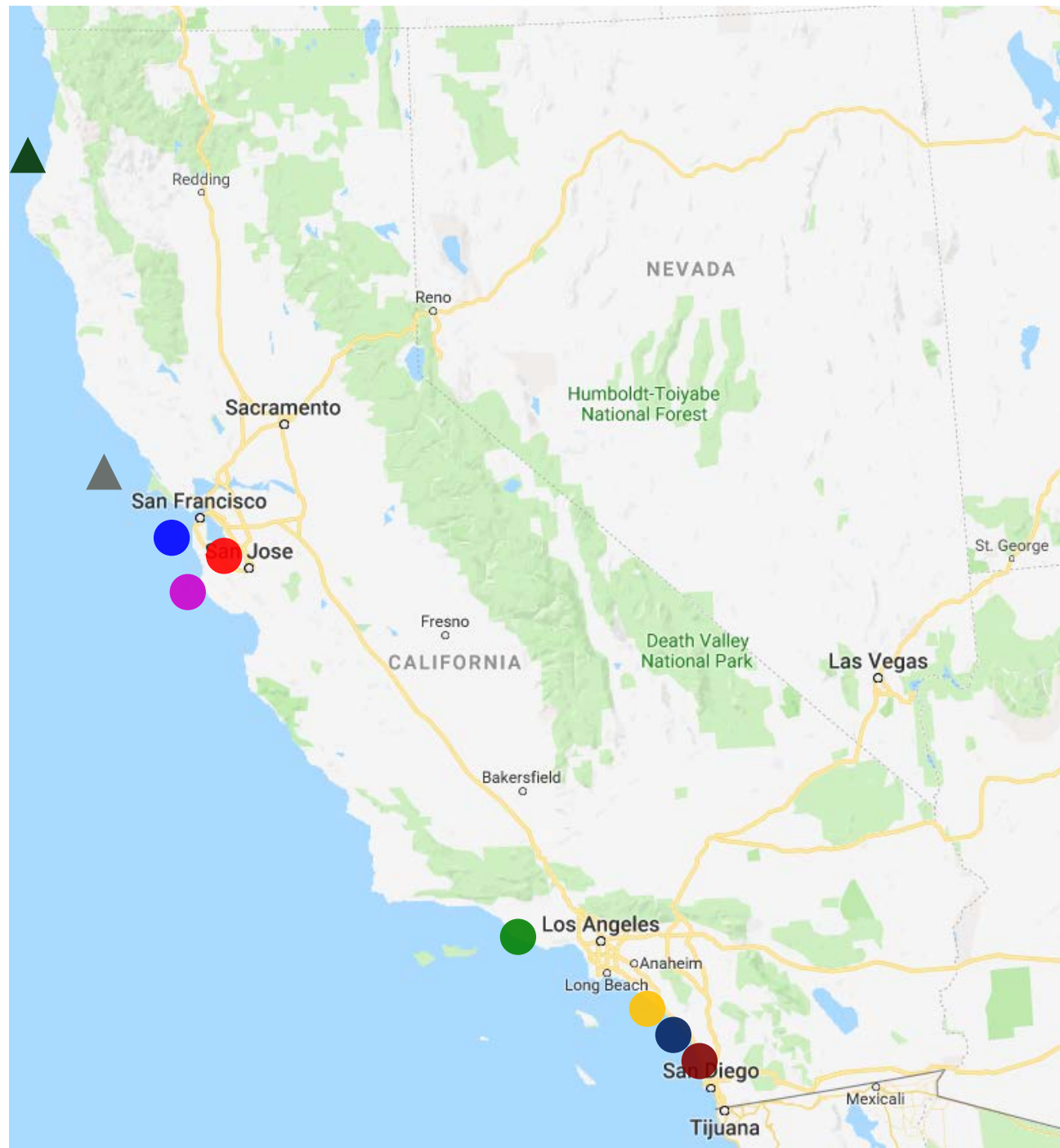
- Formulate and seed regional consensus-driven sediment management policy and guidance
- Restore and maintain coastal beaches and other critical areas of sediment deficit
- Reduce the proliferation of protective shoreline structures
- Sustain recreation and tourism
- Enhance public safety and access
- Restore coastal sandy habitats.



CA PROJECTS

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- ▲ Eureka RSM
- ▲ Greater Farallones (Sonoma-Marín)
- South Bay Shoreline Project
- Ocean Beach
- Pillar Point Harbor
- Port Hueneme
- Surfside-Sunset
- San Clemente
- Encinitas and Solana Beach





WHERE DO WE GO FROM HERE?



- **CSMW as a facilitator for RSM projects**
 - State currently has funds to implement RSM projects (grants from CNRA and OPC), but need local/regional partners to propose projects and a commitment to manage those projects.
- More State investments coming through Props 84, 1 and 68
- State needs a **closer working relationship with local and regional governments** (similar to BEACON, Humboldt Bay Harbor District and LA County Beaches and Harbors)
- **Sea Level Rise Adaptation Planning** – RSM is more relevant today than 15 years ago when CSMW was established
- **Demonstration Program in CA** could include:
 - Look at a couple of erosion hot spots and show how to change those areas.
 - Demonstrate soft, hard and hybrid technologies to provide increased resiliency for that area.
 - How could we take what we learn and apply to other areas?
 - ***Ports and Harbors have the sediment resources that make them key players in these activities.***



QUESTIONS?



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