

Connecting Science with Coastal Floodplain Management



CALIFORNIA
OCEAN
SCIENCE
TRUST



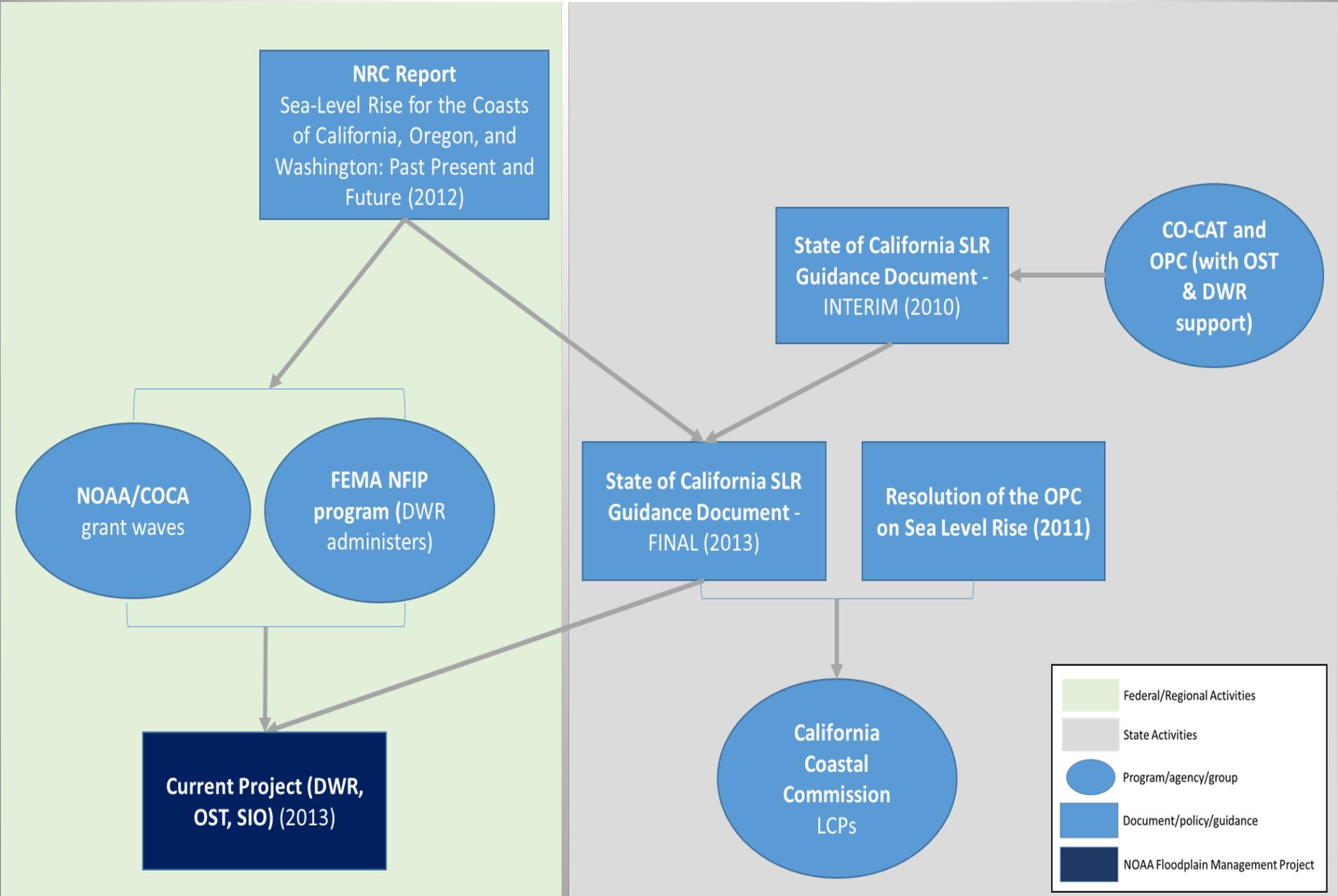
SCRIPPS INSTITUTION OF
OCEANOGRAPHY

UC San Diego

Lauma Willis (Jurkevics)

CA Dept of Water Resources,
Southern Region
September 9, 2015

2015 FMA Conference
Rancho Mirage



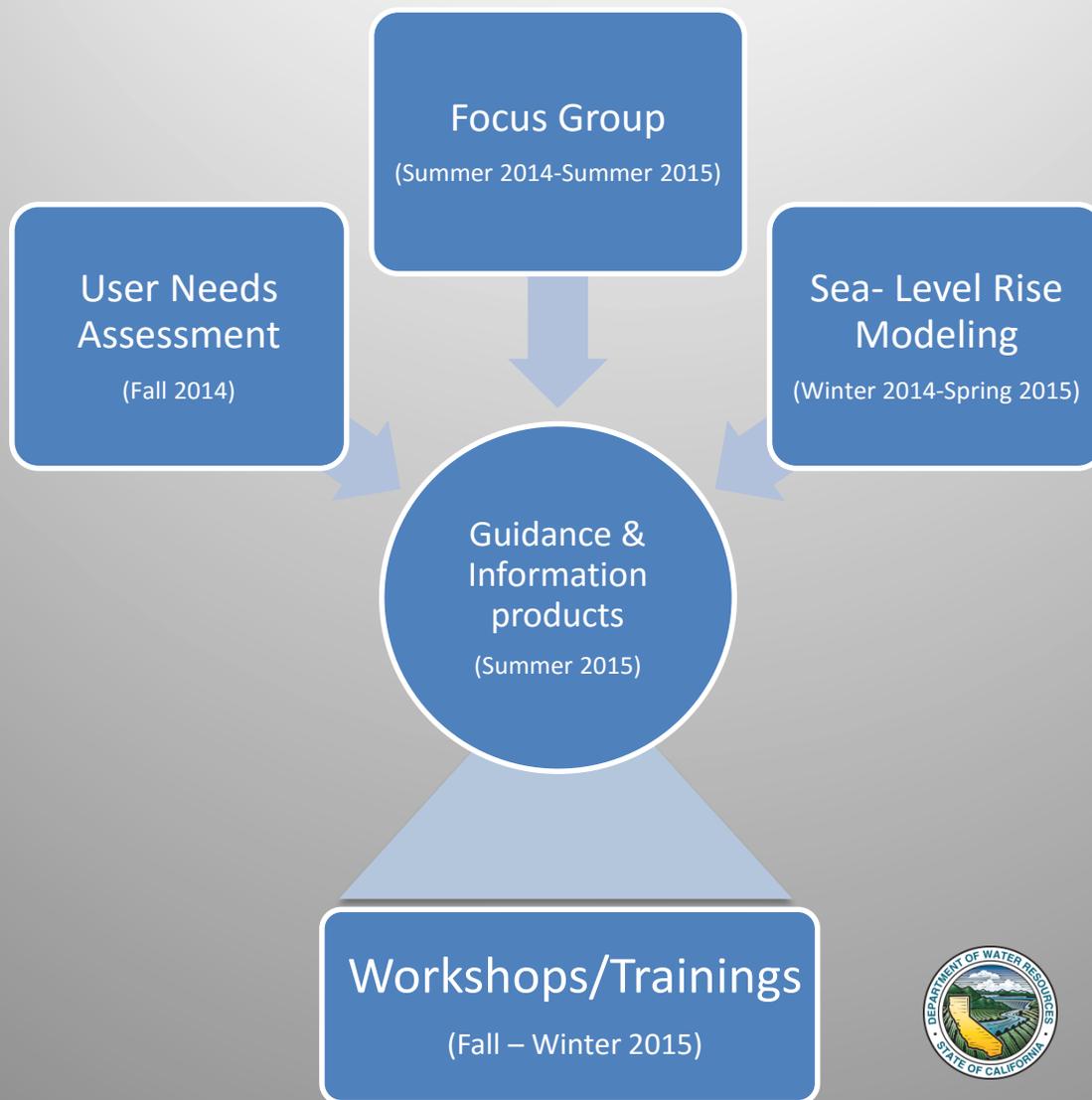
Pilot Project

Enhance ways evolving knowledge about SLR in CA informs coastal floodplain management, i.e., NFIP compliance

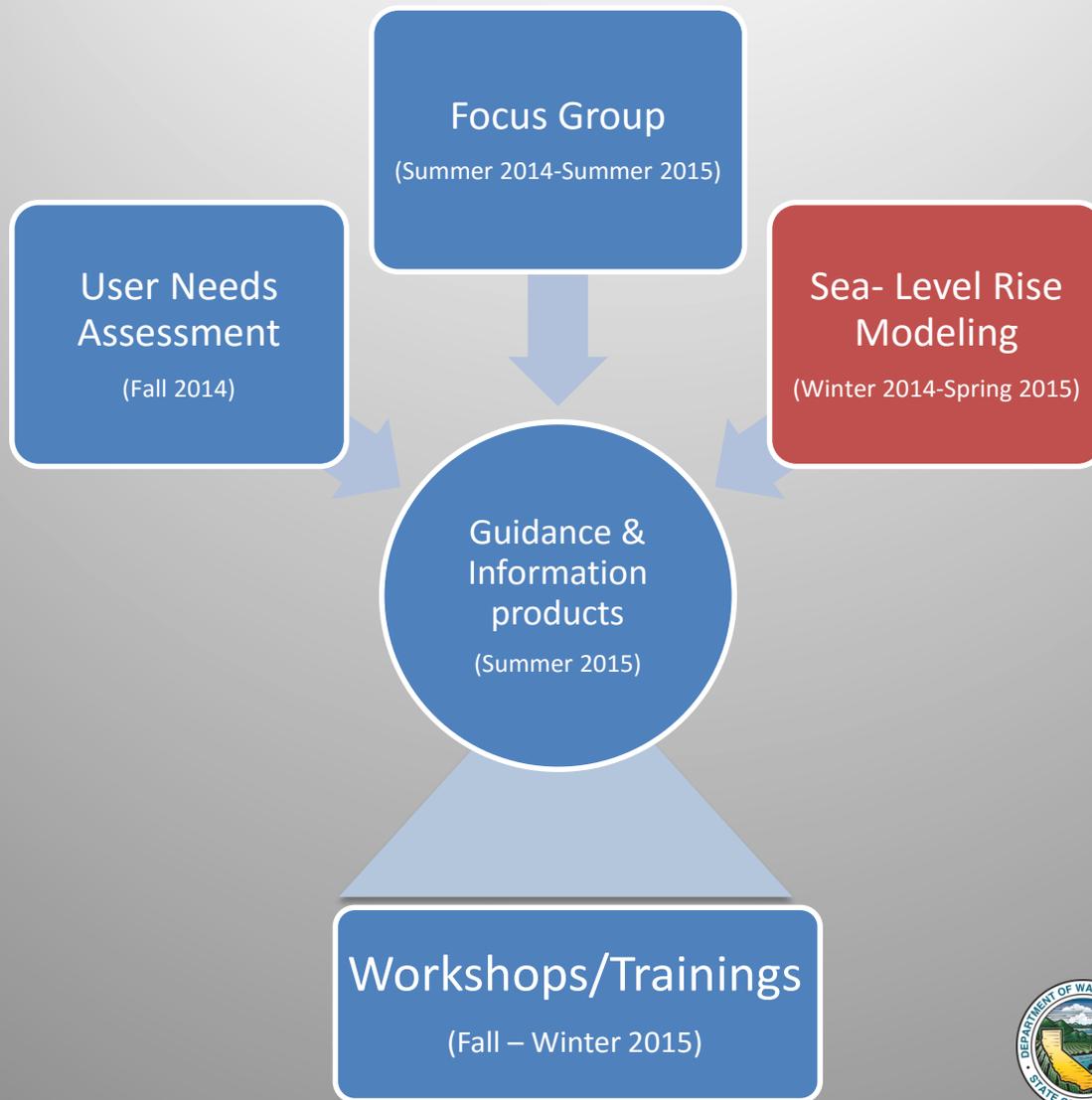
- **Understand science needs** of managers at multiple levels of governance
- **Translate new sea-level rise science** into products that are accessible, transparent, and useful to floodplain managers
- **Promote partnerships** that strengthen the network of institutions focused on addressing coastal vulnerability, and climate adaptation
- **Craft a constructive ongoing role** for science in evolving regulations concerned with coastal hazards



Project components



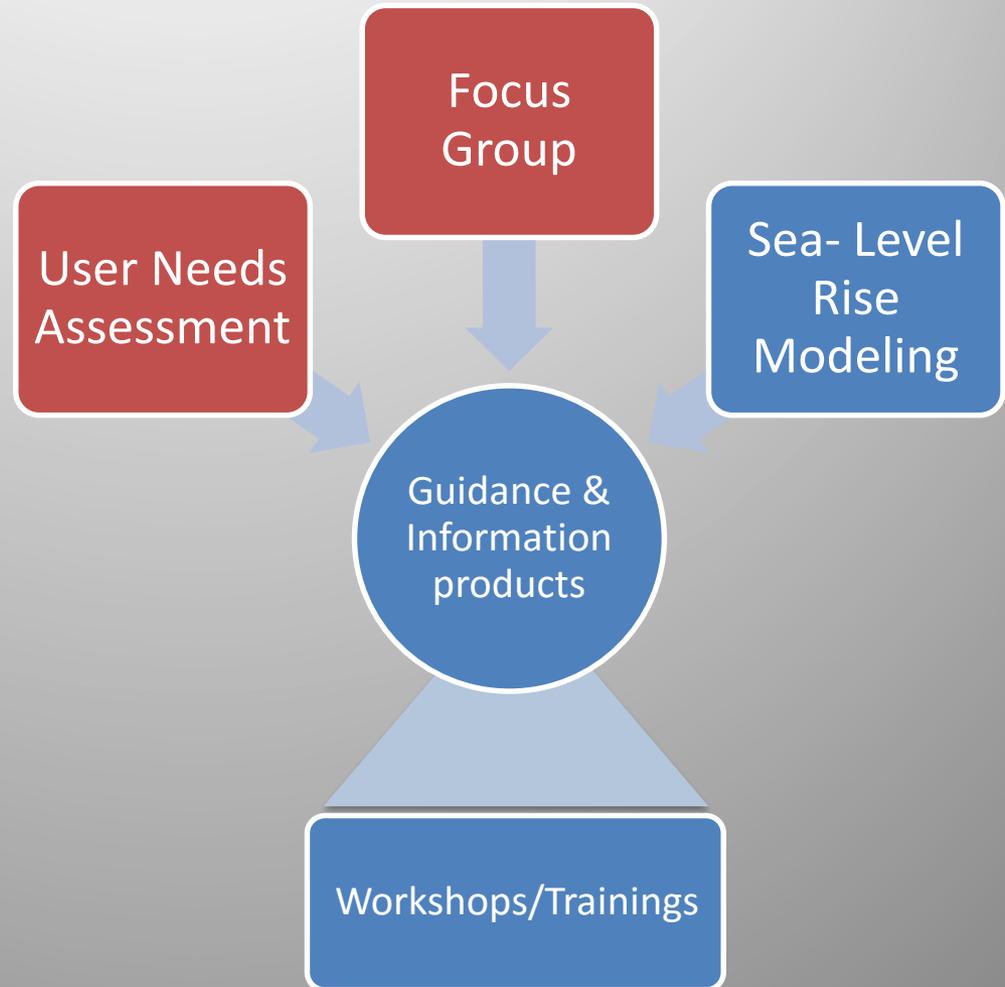
Project components



Building products with user input

DWR
CalOES
OPR
FEMA
NOAA
SCC
CCC
USGS
FMA
OPC
BCDC

Consulting groups
City & County of San Francisco
City & County of Santa Cruz
City of Chula Vista
City & County of San Diego
City & County of Los Angeles
Crescent City
Del Norte County



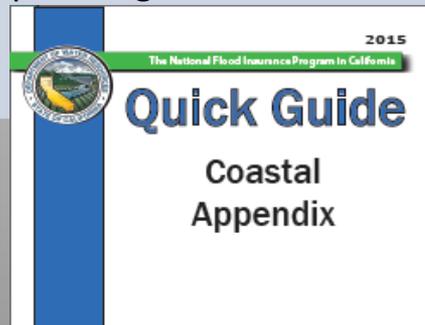
Targeted Products with Broad Impacts

Comprehensive Report

- **Audience: Range of coastal decision-makers, local – state**
- Narrative/Summary of project components
- Information needs from Needs Assessment
- Other future conditions mapping/modeling efforts
- Incentive programs, funding sources
- List of resources for sea-level rise planning and management

DWR California NFIP Quick Guide Supplement

- **Audience: Floodplain managers, city officials, property owners**
- High-level, comprehensive overview on sea-level rise and flood management
- In the style and form of the original Quick Guide document
- Other future conditions mapping and modeling efforts
- Resources for sea-level rise planning.



Technical Methods Manual

- **Audience: Local planners, environmental managers, technical practitioners (consultants)**
- A resource for local communities that connect SIO (or other) modeling outputs to FEMA hazard mapping guidelines
- Presents SIO modeling methodology so it can be replicated in other regions
- Approaches to relate SIO modeling to existing FEMA future conditions mapping



Success looks like...

California's **coastal planners have increased support** in fulfilling a state mandate that sea-level rise be considered in all planning activities.

California is **positioned to collaborate with FEMA** on incorporating sea-level rise into floodplain management policies.

Coastal management agencies have **improved access to latest sea-level rise information.**

Coastal management agencies are better connected and collaborating more effectively on coastal adaptation issues related to floodplain management.

