



# CLIMATE RESILIENCY

2024



*Katrina*  
**FOLEY**  
SUPERVISOR - FIFTH DISTRICT

# Climate Action Planning in OC

- Formed a Climate Action Task Force with Dr. Brett Sanders of UC Irvine, Federal and State officials, and other local partners.
- Held an Investigative Hearing on Climate Resiliency in Orange County featuring expert testimony and policy recommendations on addressing climate change, coastal erosion, and the threat of wildfires.
- Initiated the first Active Transportation Plan for Orange County, which serves as the master plan for building bike and pedestrian infrastructure throughout the region.
- Climate Issues are Economic Issues
  - LOSSAN Rail Corridor Realignment
  - Coastal Erosion/Landslides/Sand Replenishment
  - Increased Wildfire Insurance Requirements
  - EV Readiness
  - Drought Readiness
- Added a new Office of Sustainability and a Sustainability Director
- Added a Coastal Resilience Manager to OC Parks to coordinate the Coastal Resilience Collaborative and pursue grant funding for regional sand replenishment projects.
- Won a \$500 Million Clean Investment Fund Grant from the EPA



# What is the County's Climate Action Plan?

The Climate Action Plan (CAP) is a framework for measuring, planning and reducing greenhouse gas emissions (GHGs) from County-owned assets and unincorporated areas

## Two-Phased Approach

1. Preliminary CAP
2. Comprehensive CAP with California Environmental Quality Act (CEQA) Analysis (Current Phase)



# Sectors



**Energy**



**Mobility**



**Resource Recovery and Waste**



**Environmental Justice**



**Natural Resources**



**Resilience**



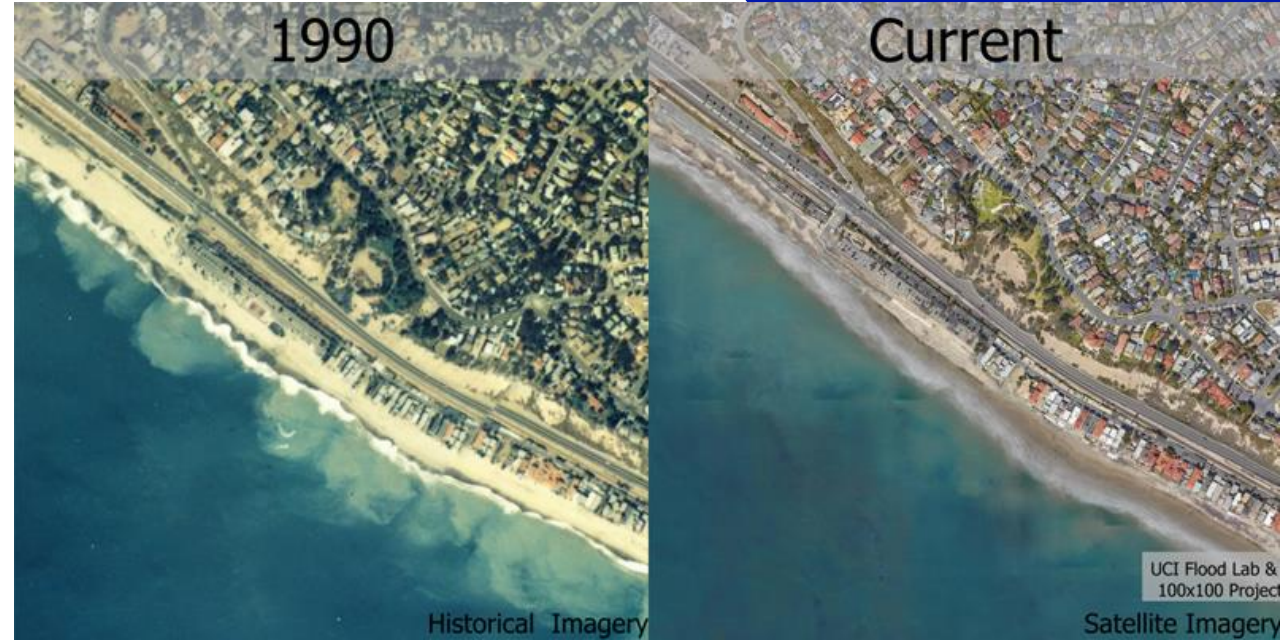
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OF SUSTAINABILITY WEBSITE!**

# Ongoing Laguna Beach Initiatives

- **Laguna Canyon Road Undergrounding**
  - Supported the City of Laguna Beach applications for BRIC and RAISE grant funding
- **Wave Watch Lifeguard Patrol Boat**
  - Negotiating a plan to bring the Laguna Beach Lifeguard's Wave Watch patrol boat to Dana Point Harbor to shorten response times throughout Laguna Beach.
- **New Fire Prevention Tools**
  - New HeloPod Water Tank in Aliso Viejo which will directly benefit Laguna, exploring former Toll Road Plaza on the 133
  - Secured two new Firehawk Helicopters with 1000-gallon water capacity

# Why Prioritize Sand?

- 1 Protect the Rail
- 2 OC's Ocean Economy
- 3 Quality of Life



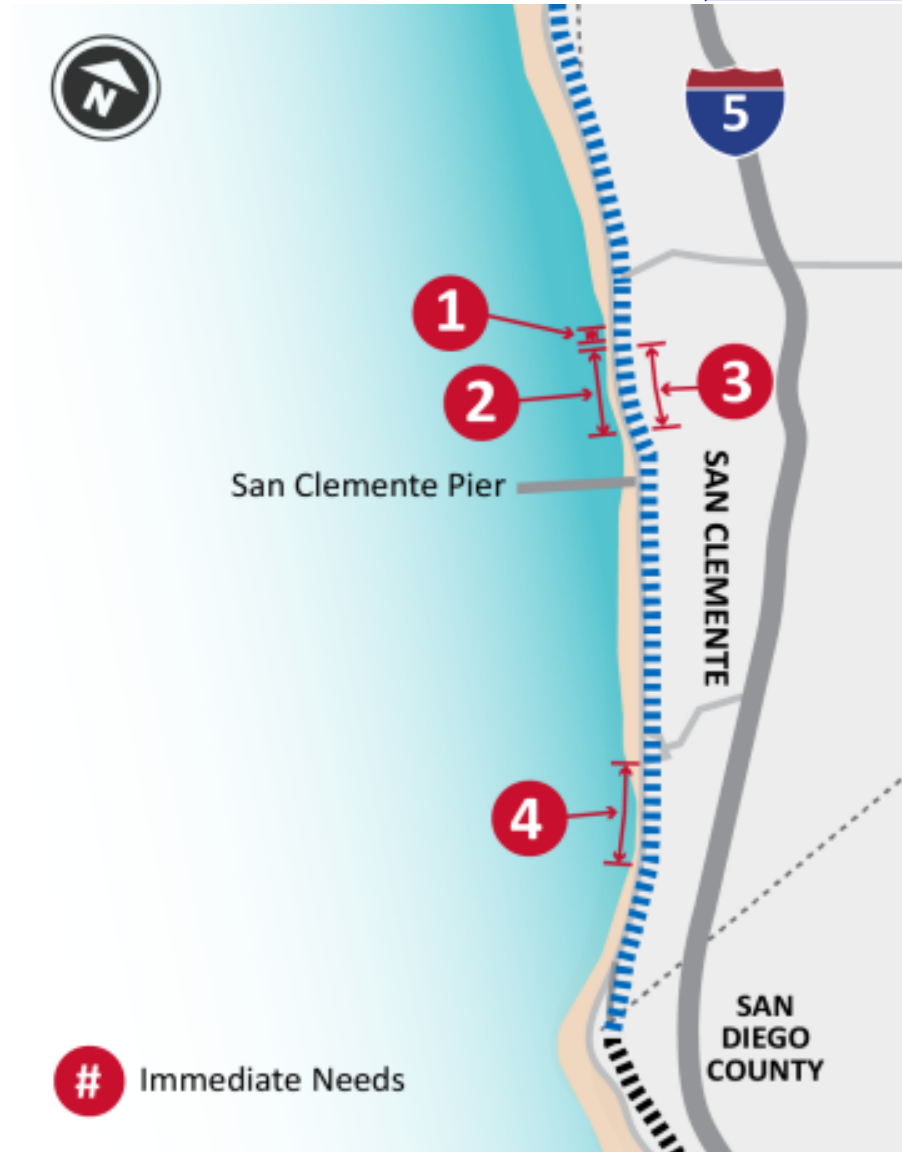
# South Orange County Regional Coastal Resilience Strategic Plan & Coastal Resilience Collaborative

- Recommended by the 2013 Orange County Coastal Sediment Management Plan for Oceanside Littoral Cell & Regional Beach sand Project (RBSP) III with SANDAG.
- Collaborative will protect OC's Coastal economy and remains the last line of defense for the LOSSAN Rail Corridor
- The Coastal Resilience Collaborative includes:
  - County of Orange as lead agency
  - Cities of Dana Point, San Clemente, Huntington Beach, Newport Beach, Orange County Transportation Agency, BNSF, Metrolink, State of California, Army Corps of Engineers, State and Federal Representatives, Home-Owners Associations, the Acjachemen Nation, UCI, SDG&E, SONGS (SoCal Edison), and more.



## OCTA's Immediate Needs

- \$300 million to stabilize four areas identified in December 2023 as the most vulnerable to catastrophic failure from beach erosion, wave impacts, and slope failure.
- Ability to coordinate with current Army Corps of Engineers San Clemente Sand Replenishment project, scheduled to resume in fall 2024. Current project begins after nesting season and ahead of the next storm season.
- Timing is critical to decrease ecological impacts of dredger mobilization and avoid potential interruptions to rail operations due to storms.
- Potential solutions, including sand nourishment and rock placement, are evaluated at a conceptual level considering different materials, performance, costs, methods and schedule.
- Expedited permitting processes from U.S. Army Corps of Engineers, California Coastal Commission, and California Regional Water Quality Control Board -San Diego.





# Orange County's Ocean Economy

## *The Numbers:*

- **Tourism spending in Orange County grew 5.3% to \$15.8 billion in 2023.**
  - 4th largest tourism region in the state
- **\$4.3 billion in GDP from Orange County's Ocean Economy including nearly 50,000 jobs**
  - 11th strongest Ocean Economy in the Nation, 3rd in the State.
- **For every \$1 spent on beach nourishment annually, beach tourists generate about \$3,000 in economic output, \$1,400 in direct spending, and \$200 in taxes.**
- **Shoring up coastal resiliency ensures increased tourism, greater access to natural resources, and continued state and county revenue.**



# Maintain Orange County's Quality of Life

## Strategic Sand Placements Since 2023

### Army Corps of Engineers Projects:

**Newport Beach/Sunset Beach: 1.1 million cubic yards**

- December 13, 2023

**San Clemente State Beach: 251,000 cubic yards**

- December 15, 2023

### County of Orange Sand Renourishment Projects:

#### **Coastal Rail Infrastructure Resiliency**

- \$305 Million from the California State Transportation Agency and Federal Railroad Administration for OCTA's Coastal Rail Infrastructure Resiliency Improvement Project.
- The grants support funding for 500,000 cubic yards of sand nourishment, revetment, and a catchment wall.

**Doheny/Capistrano Beach: June 15 to September 15, 2023**

- 45,000 cubic yards

**Doheny/Capistrano Beach & North Beach: July 8 - August 30, 2024**

- 20,000 cubic yards to Capistrano Beach
- 50,000 cubic yards to North Beach in San Clemente



# Ongoing Coastal Resilience Initiatives



## Doheny/Capistrano Beach Nature-Based Shoreline Project

- Cobble berm covered by native-vegetated sand dunes to restore native habitats and retain sand

## Pursue funding to support sand transport from Prado Dam to South County beaches

- Working with OCWD to expand SediMatch, a GIS application targeted to geographically map available sand source and receiver sites for the entire Southern California region

## Sand Compatibility and Opportunistic Use Program (SCOUP)

- Enables streamlined beach nourishment to eroded areas of our coast
- Encourages use of suitable sand from inland, offshore, estuary or lagoon sites for beach nourishment

## CoastSnap at Strands Beach

- Allows residents to use phones to upload pictures to document beach erosion at Strand Beach

## Dana Point Breakwater Repair: \$11 million

- 45,000 cubic yards dredged for equipment access to be placed nearshore
- Construction start – Spring 2025



# Questions? Feedback?

**We want to hear from you!**