



# Red Abalone Restoration Plan Update

16 July 2025

*Presented to:*

**Marine Resources Committee**  
**CA Fish and Game Commission**

*Presented by:*

**Joanna Grebel**  
**Invertebrate Program Manager**  
**Marine Region**



# Overview

- History of Restoration Planning
- Restoration Plan Elements
- Essential Restoration Plan Data Evaluation
- Partnerships
- Next Steps



# History of Restoration Planning

## December 2022 (CFGF)

- Recommendation to pause FMP development
- Shift efforts to restoration plan development

## July 2024 (MRC)

- Finalizing Community Working Group and Technical Advisory Committee
- Exploring facilitation and identifying funding sources

## August 2024- December 2024

- Facilitation funding challenges
- Staff capacity reductions and redirection

## January 2025

- Paused restoration plan development



# Restoration Plan Elements



## Essential Restoration Information (ERI)

- Species status, range, life history, habitat, and threats



## Restoration Goals, Objectives, and Criteria

- Desired outcomes
- Conditions needed to achieve those outcomes
- Values to measure progress toward restoration



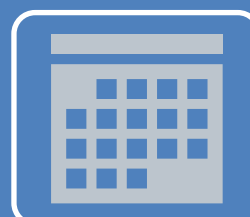
## Restoration Strategy

- Long term approach
- Informed by goals and ERI



## Restoration Actions

- Long term actions to meet criteria
- Informed by strategy



## Implementation Schedule

- Timeline to achieve restoration actions



# Restoration Plan Elements



## Essential Restoration Information (ERI)

- Species status, range, life history, habitat, and threats



## Restoration Goals, Objectives, and Criteria

- Desired outcomes
- Conditions needed to achieve those outcomes
- Values to measure progress toward restoration



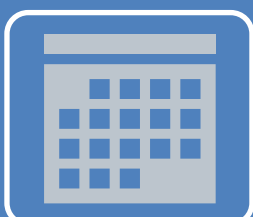
## Restoration Strategy

- Long term approach
- Informed by goals and ERI



## Restoration Actions

- Long term actions to meet criteria
- Informed by strategy



## Implementation Schedule

- Timeline to achieve restoration actions



# Essential Restoration Information Evaluation Process



Conduct evaluation using existing data



Identify information gaps



Identify approaches to data collection



# ERI Data Evaluation

## Evaluate existing data sources

- Long term data sets
  - CDFW
  - NOAA
  - PISCO/MARINe
  - Reef Check
  - Others
- Tribal Ecological Knowledge
- Other public data





# Identify information gaps in ERI

- CDFW report findings of ERI information gaps
- Solicit feedback on missing elements, etc.







# Identify Data Collection Approaches

- Identify new data collection opportunities to address ERI gaps
- Continue data collection for long-term data sets
- Collect data to inform restoration statewide using non-lethal techniques





# Partnerships


























- California Native American tribes
- State and Federal Agencies
- Academics/Universities
- Environmental Organizations/Non-Profits
- Public
- Others



# Partnership Opportunities

Task	CDFW	Partners	Near Term	Long Term
Conduct ERI data evaluation				
Identify data gaps and partners				
Develop methodologies for addressing data gaps				
Data collection for restoration long term data sets				
Data evaluation for other restoration plan elements				
Data collection (restoration plan elements & restoration strategy implementation)				
Citizen science and partnership coordination				
Funding for restoration plan development, implementation: facilitation, workshops				

# Partnership Opportunities

Task	CDFW	Partners	Near Term	Long Term
Conduct ERI data evaluation				
Identify data gaps and partners				
Develop methodologies for addressing data gaps				
Data collection for restoration long term data sets				
Data evaluation for other restoration plan elements				
Data collection (restoration plan elements & restoration strategy implementation)				
Citizen science and partnership coordination				
Funding for restoration plan development, implementation: facilitation, workshops				



# Next Steps

- Conduct data evaluation
- Explore role of partnerships and citizen science
- Identify formats and processes for engagement
- Explore funding opportunities

# Thank You



Questions: [Abalone@wildlife.ca.gov](mailto:Abalone@wildlife.ca.gov)