



Nature Collective

CONNECT. EXPERIENCE. PROTECT.



San Elijo Lagoon **RESTORATION**



Presentation overview



- Purpose
- Role of Nature Collective
- Restoration Monitoring



Purpose

Enhance and restore the physical and biological functions of San Elijo Lagoon.



Objectives

- Increase tidal flow
- Add intertidal and transitional habitat
- Ensure long-term viability of the restoration
- Improved recreational and educational opportunities



Schedule

Construction Period: December 2017 – February 2021

Plant Establishment Period: August 2020-July 2021

Post Construction Monitoring: August 2020-2031

Long Term Monitoring: 2031-2071



December 2017 – August 2020





December 2017 – August 2020

Before



After





August 2018 – February 2019

New channel connection to East of I-5





August 2018 – February 2019

Filling the overdredge pit during excavation





June 2019 -Present

Overdredge pit restoration





August 2020

Overdredge pit





East Basin Cordgrass Planting





Transitional Areas





Project Monitoring 2031-2071

What is success?

How do we measure success?





Project Monitoring 2031-2071

What is success?

- No environmental impacts
- Improved wetland ecosystem





Project Monitoring 2031-2071

How do we measure for success?

- Marine monitoring for 5 years

Restoration + reference beaches

Restoration & Reference Beaches

Sandy Beach
Rocky Intertidal
Rocky Subtidal

Habitat Mapping
&
Ecosystem Changes





Project Monitoring 2031-2071

How do we measure for success?

Lagoon Monitoring - 50 years

10 years to meet project success standards

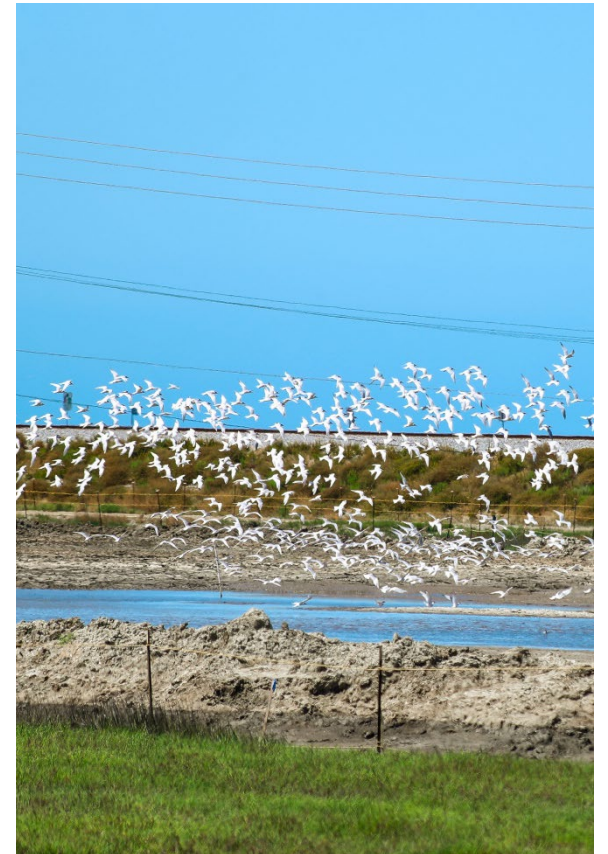
Relative Standards

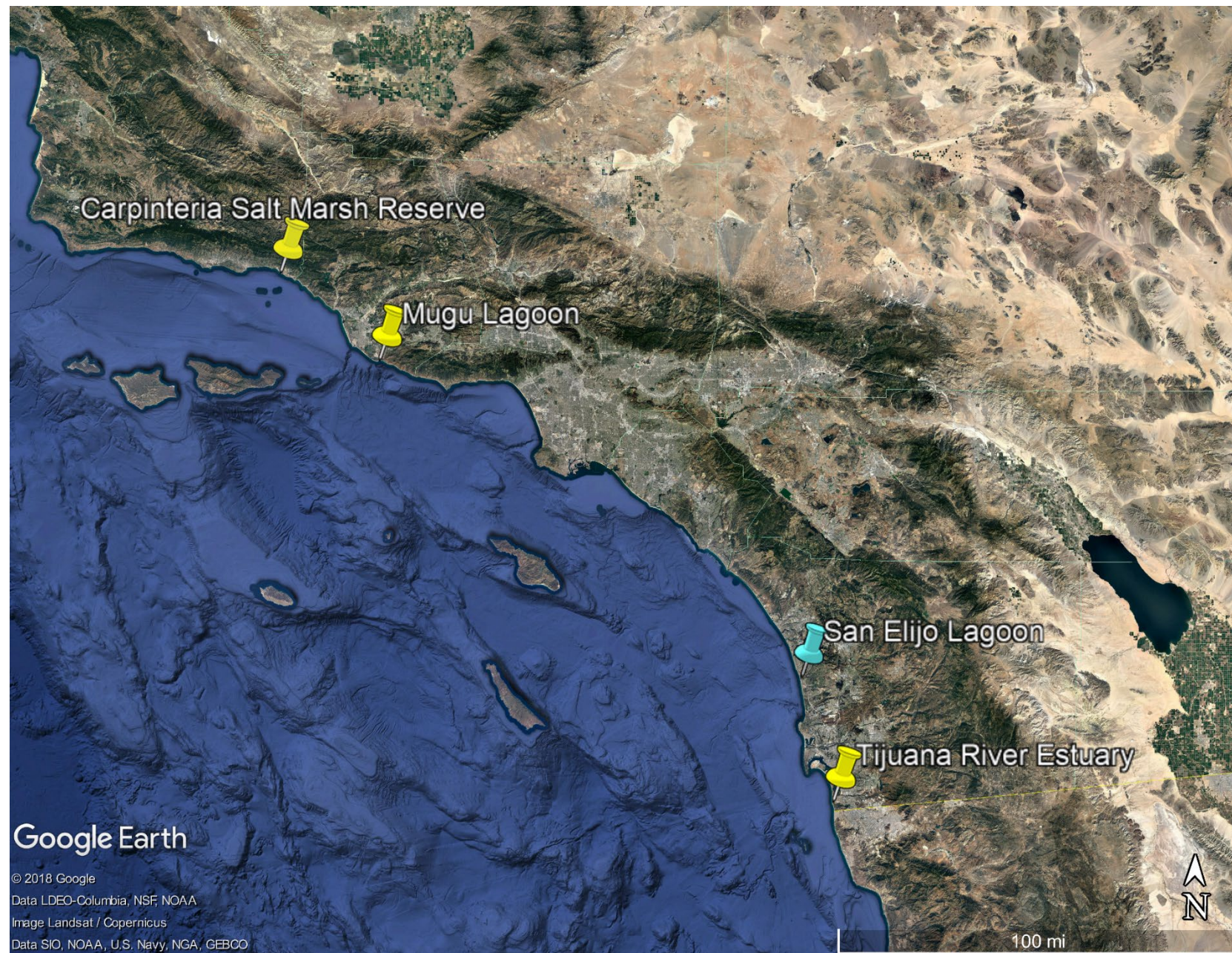
(San Elijo functions like similar SoCal wetlands)

Absolute Standards

(San Elijo is the same or better than it was before)

50 years of resiliency to climate change







Project Monitoring 2031-2071

- Sandy Beach Habitat and Ecosystems
 - Rocky Intertidal Habitat and Ecosystems
 - Rocky Subtidal Habitat and Ecosystems
 - Topography
 - Bathymetry
 - Tidal Elevations
 - Wetland Habitats
 - Vegetation Cover
 - Sediments
 - Invasive Species
 - Birds
 - Eelgrass
 - Water Quality
 - Benthic Invertebrates
 - Spartina (cordgrass)
 - Fish
- Key:**
Marine Standard
Absolute Standard
Relative Standard



Project Monitoring Schedule

Pre-Construction Monitoring: January 2017 - July 2018

Marine Monitoring: July 2018 - July 2023

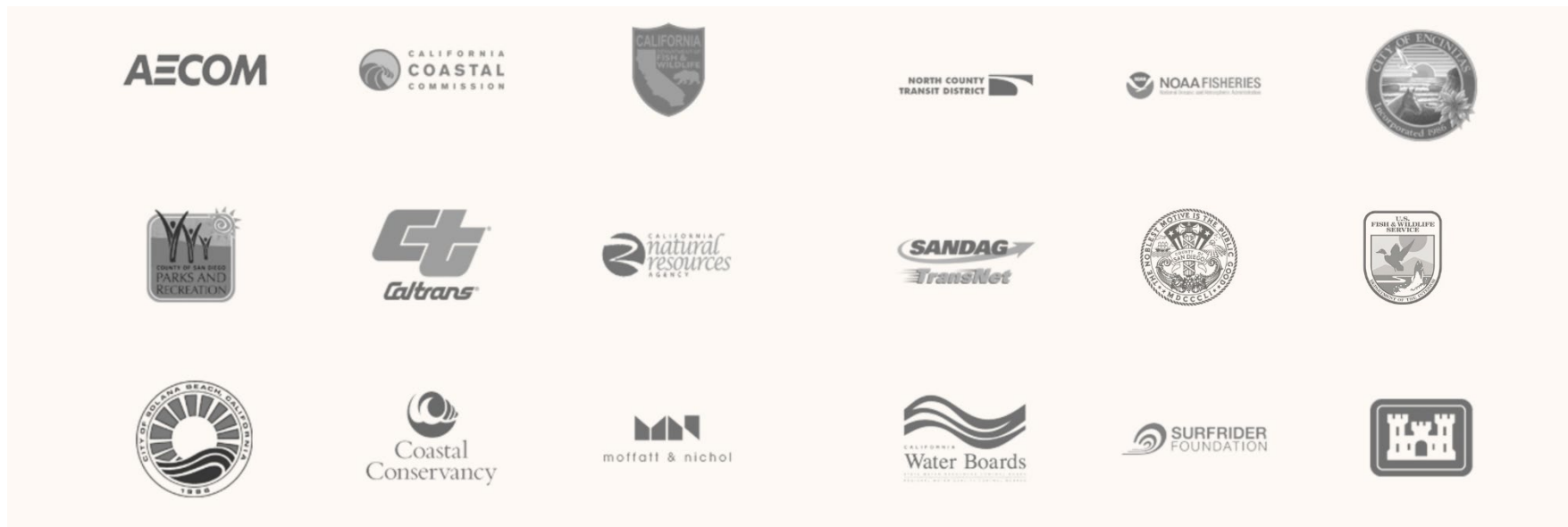
Lagoon Performance Monitoring: 2020 - 2030

Lagoon Long Term Monitoring: 2030 - 2070





Project Partners





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