



# San Francisco Estuary Partnership Overview

National Estuary Program Review

Monday September 21, 2015









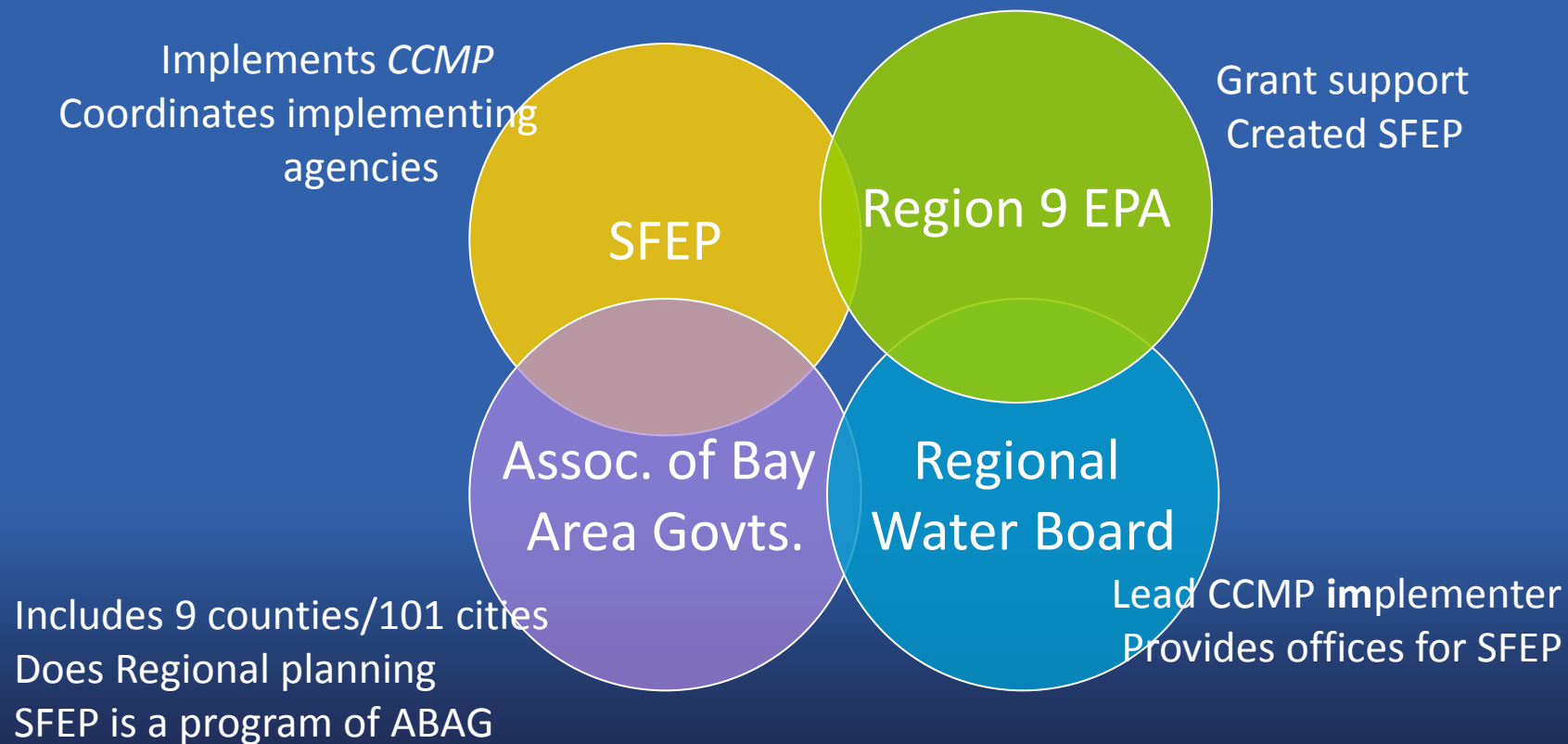
# The San Francisco Bay Delta Estuary is

- Largest estuary on the west coast of Americas
  - 1600 sq mi of water- drains 40% state
  - Highly valued resource
  - Drinking water for 23M people
  - Irrigates 4.5M ac farmland
  - GDP \$535B 19<sup>th</sup> in World [if a nation]
  - Highest patent generation in US
- Rich fish & wildlife habitat
- Highly urbanized 12-county region





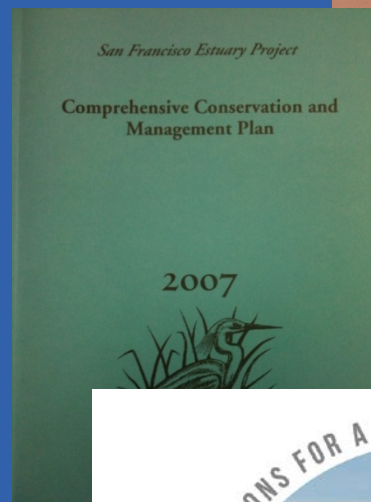
# Our Key Partners

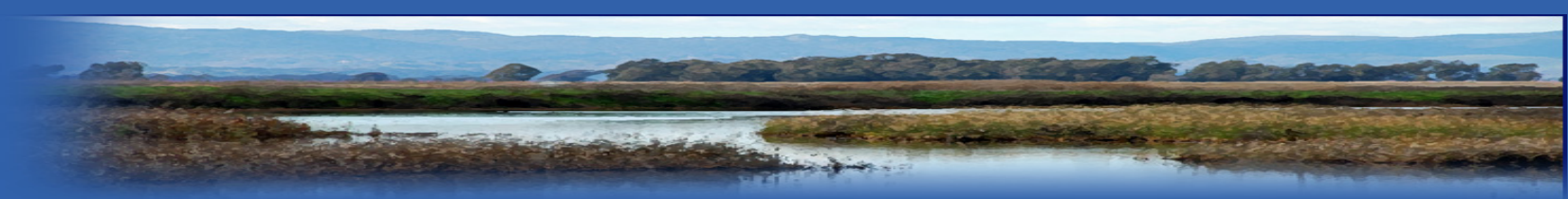




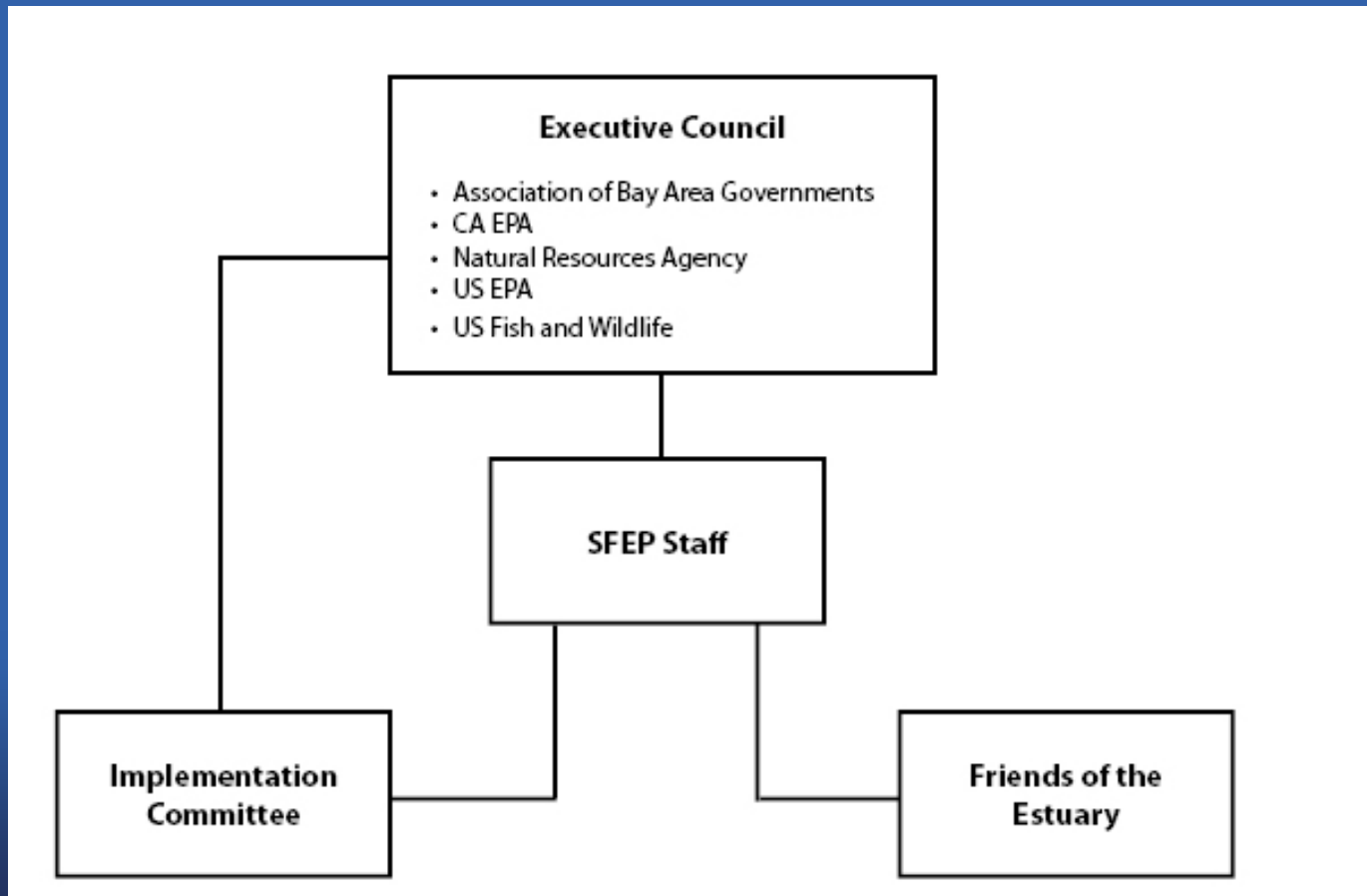
# *The Comprehensive Conservation & Management Plan: CCMP*

- 1993: CCMP written
  - 100+ stakeholders
  - 9 programs, 200 actions
  - Revised 2007: SLR
  - 200+ actions
  - New CCMP 2016
    - 40 actions – detailed tasks
    - Tied to next 5 Annual Workplans
    - To include progress tracking





# SFEP Organizational Structure





# Staff assignment Overview

- Program & partner-project {\$} mgmt *Judy, Athena, Paula*
  - Grant Project oversight *Caitlin, Jennifer, Athena, James, Paula,*
  - LID Focus efforts *Jennifer, Josh*
  - IRWMP [\$90M] *Athena, Jennifer, Judy, Karen*
- Clean Boating Program *James, Adrien*
- Major SFEP Projects *Jennifer, James, Josh, Caitlin*
  - Mercury So. Bay; Stormwater Spine, *trash*, Flood 2.0,
- Contracts supporting Water Board
  - S.Clara VWD, Ala., Marin, Sonoma Co. *4 Staff*
- SOTER *Judy*      CCMP Rewrite *Caitlin, Judy*      IC *Athena, Judy*
- Conference *Karen, staff*



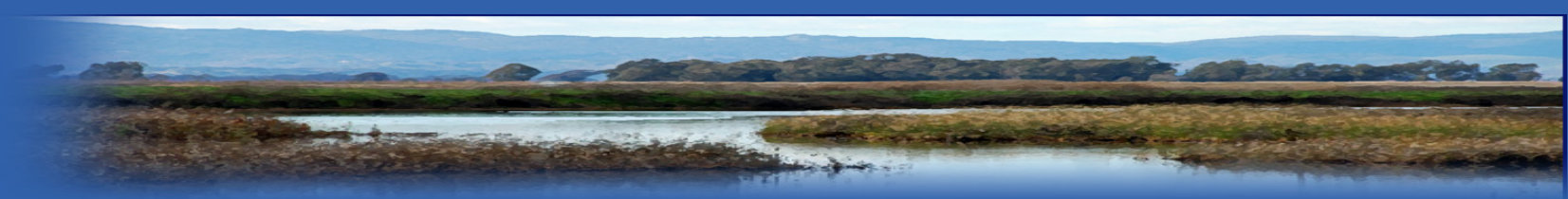
# IC and Partners



THE BAY INSTITUTE







# Role of Implementation Committee

- Ongoing advice to staff and program
- Help communicate between program and home entity [agency or NGO] – *priorities, issues, challenges, opportunities.*
- Approve annual SFEP workplan
- Part of committees for CCMP update
- Ideas for proposals to fund joint efforts



## 13 SFEP Staff

- Core staff manage 50+ projects

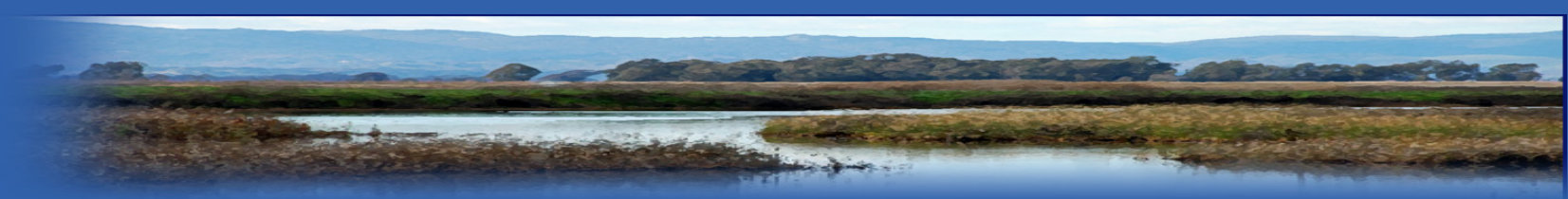
*Judy, Paula, Caitlin, Athena, Jennifer, Karen, Josh, James, Adrien*

- Direct technical assistance to Regional Water Board (contract agreements)

Marin & Sonoma co., SCVWD, Alameda Co. Flood

*Susan, Leslie, Ben, Christina (permit work)*





# Strategic Plans

**2010-2012 [SWAT analysis, role, niche...]  
2013-2018**

- **Goal 1:** Build Estuary readiness for CC
- **Goal 2:** Increase watershed health
- **Goal 3:** Improve wq
- **Goal 4:** Champion the Estuary





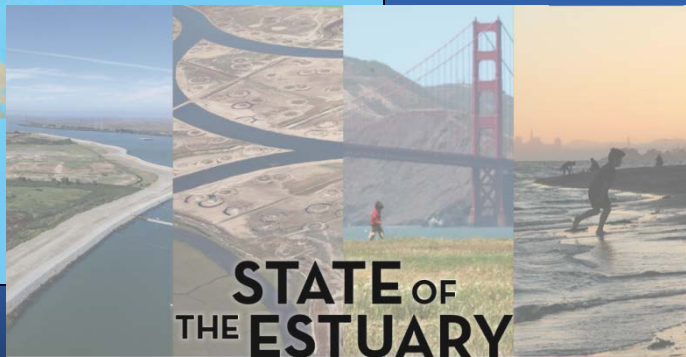
## Major efforts for 2014/15/16

1) Updating 2011 State of the Bay (estuary) report: *Lead Dr. Letitia Grenier*

2) NEW Comprehensive plan (IC + Steering Committee + Working Committees + agency and public outreach)



The  
State  
of  
San Francisco Bay  
2011



STATE OF  
THE ESTUARY  
2015

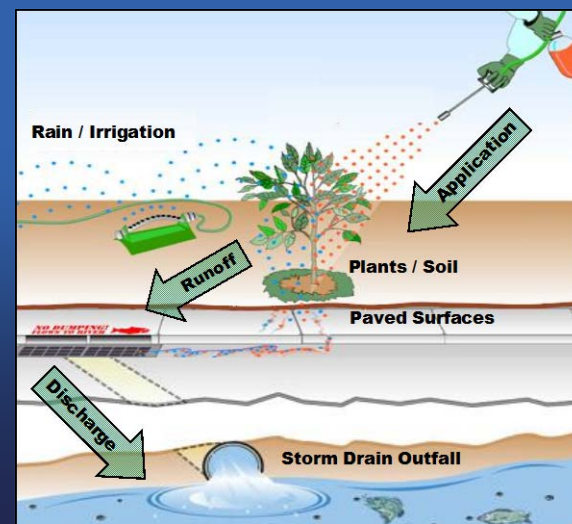
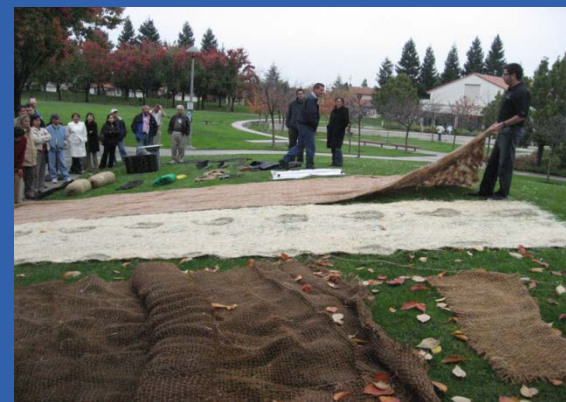
STATUS AND TRENDS UPDATES ON 33 INDICATORS OF ECOSYSTEM HEALTH  
A REPORT FROM  
THE SAN FRANCISCO ESTUARY PARTNERSHIP  
SAN FRANCISCO BAY & SACRAMENTO-SAN JOAQUIN RIVER DELTA  
THE ESTUARY

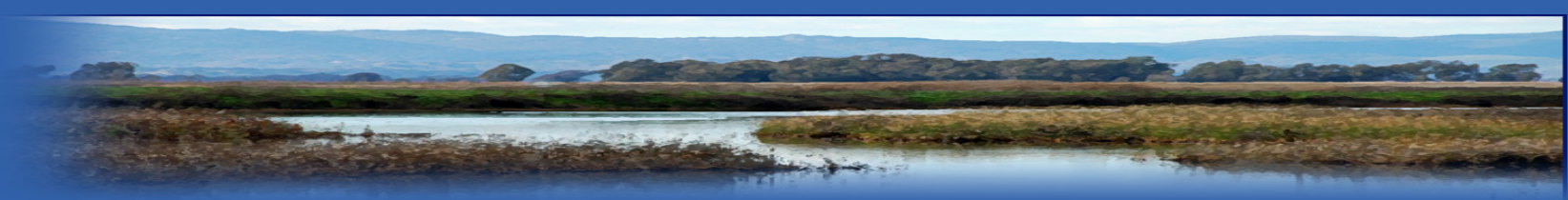




# Projects

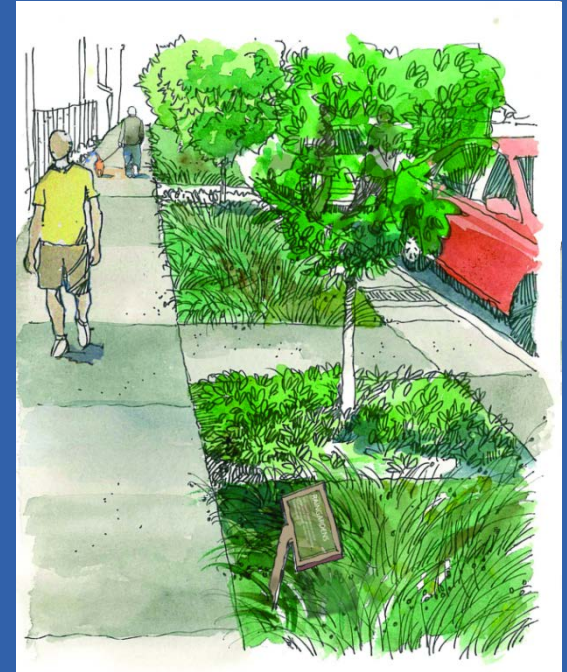
- TMDL implementation, MRP compliance
  - *Trash*
  - Urban pesticides
  - Mercury and *PCB* caulk





# Projects

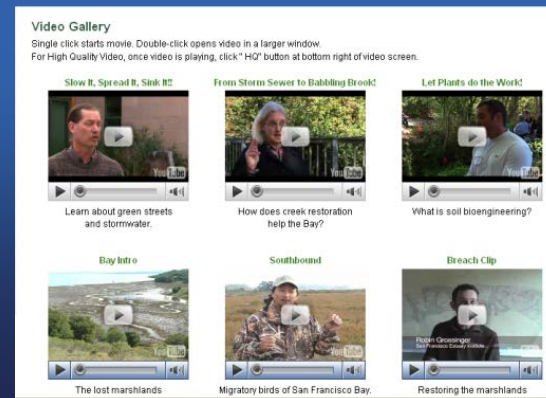
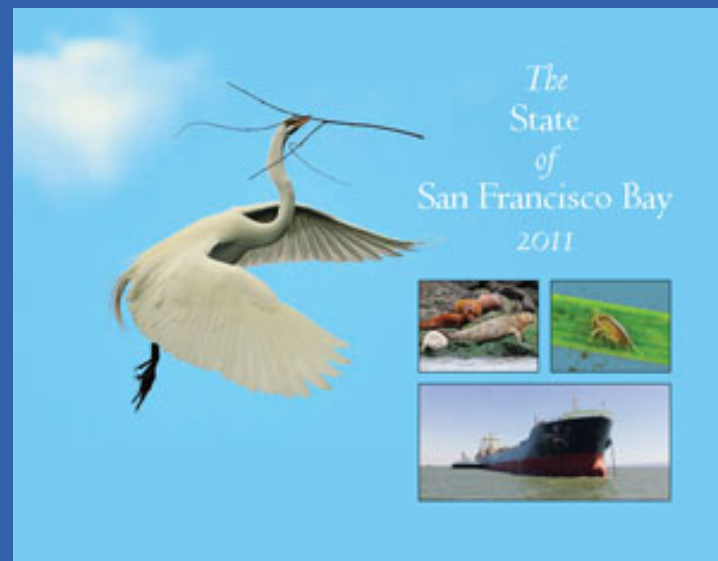
- Low Impact Development
  - San Pablo Ave Stormwater Spine
  - LID Leadership group
  - Green PlanIt Bay Area



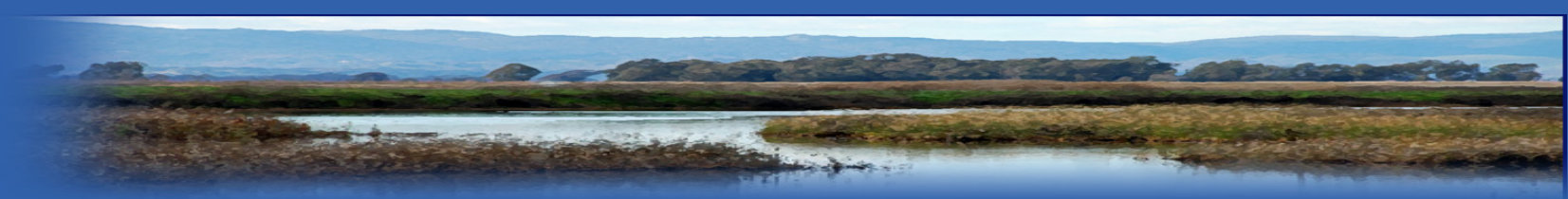


# Public outreach and education

- Media: web, video, print
- Conferences and forums
- *Estuary News*
- Social marketing/behavior change: Got Ants
- Regional outreach







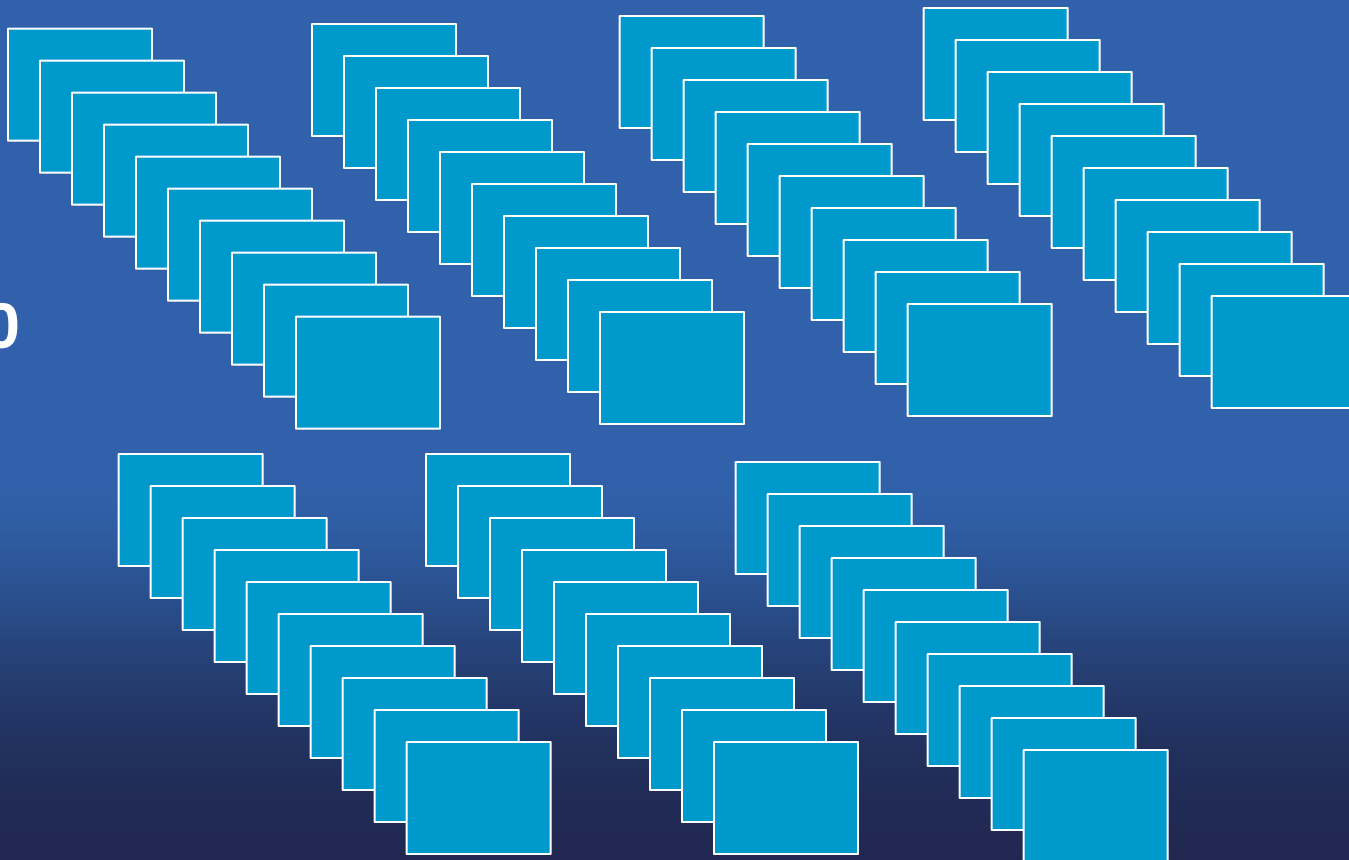
# FINANCES

- Snapshots of a constantly changing mix
- Project types
- Major growth due to IRWM projects
- Leveraging



# Projects Managed 2015

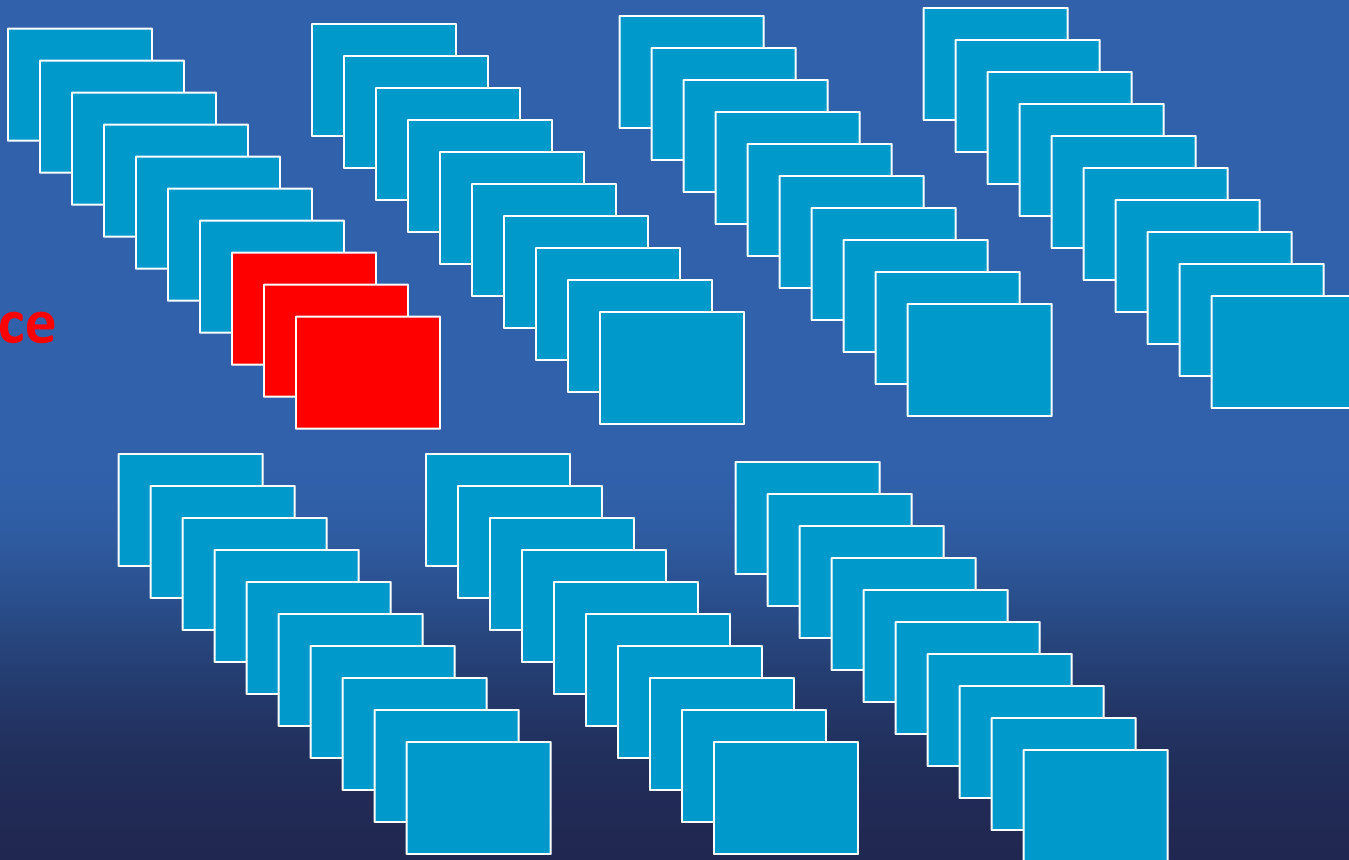
About 70





# Projects by Category

Conference  
Support





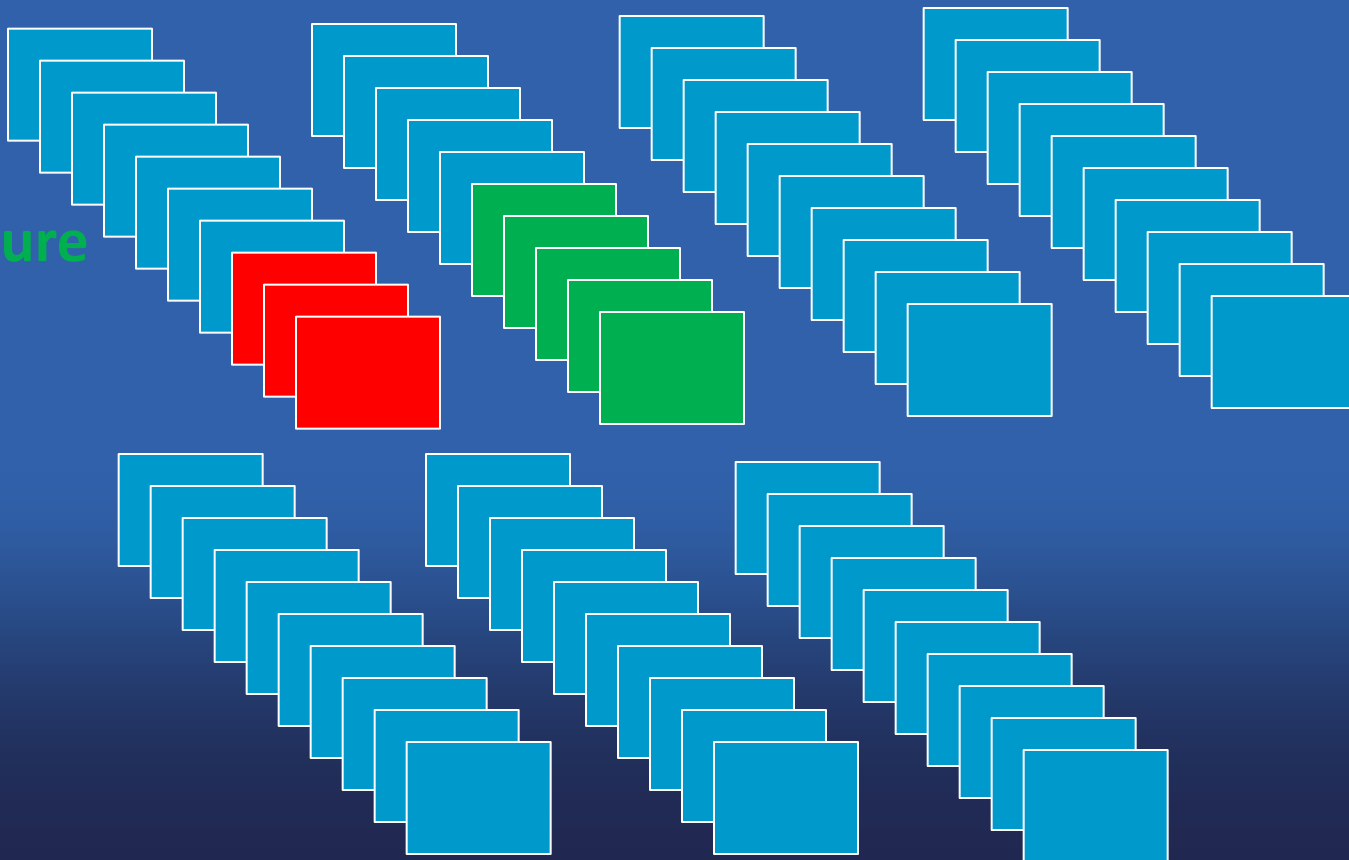


# Projects by Category

Conference  
Support

Green

Infrastructure



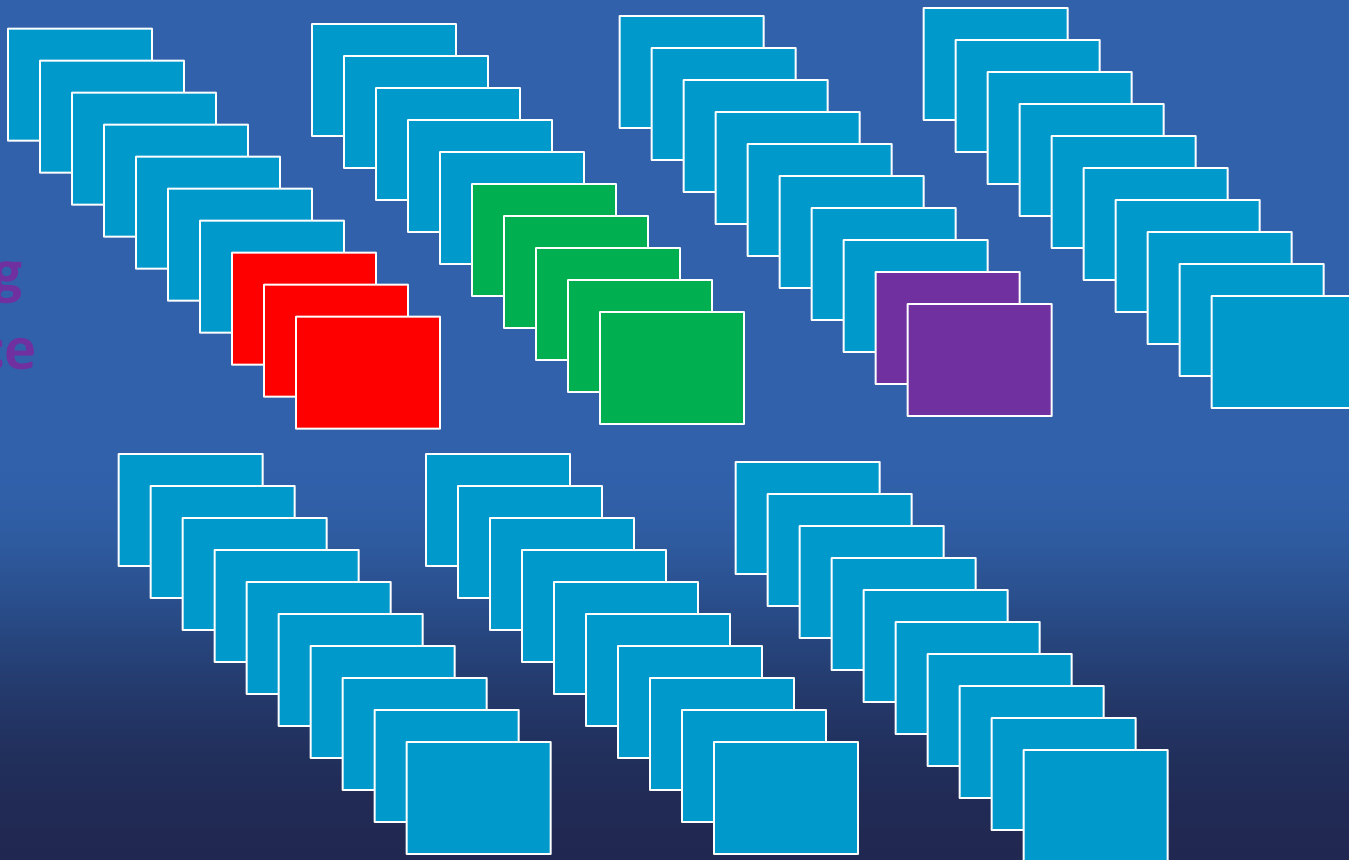


# Projects by Category

Conference  
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Green  
Infrastructure

Monitoring  
and Science





# Projects by Category

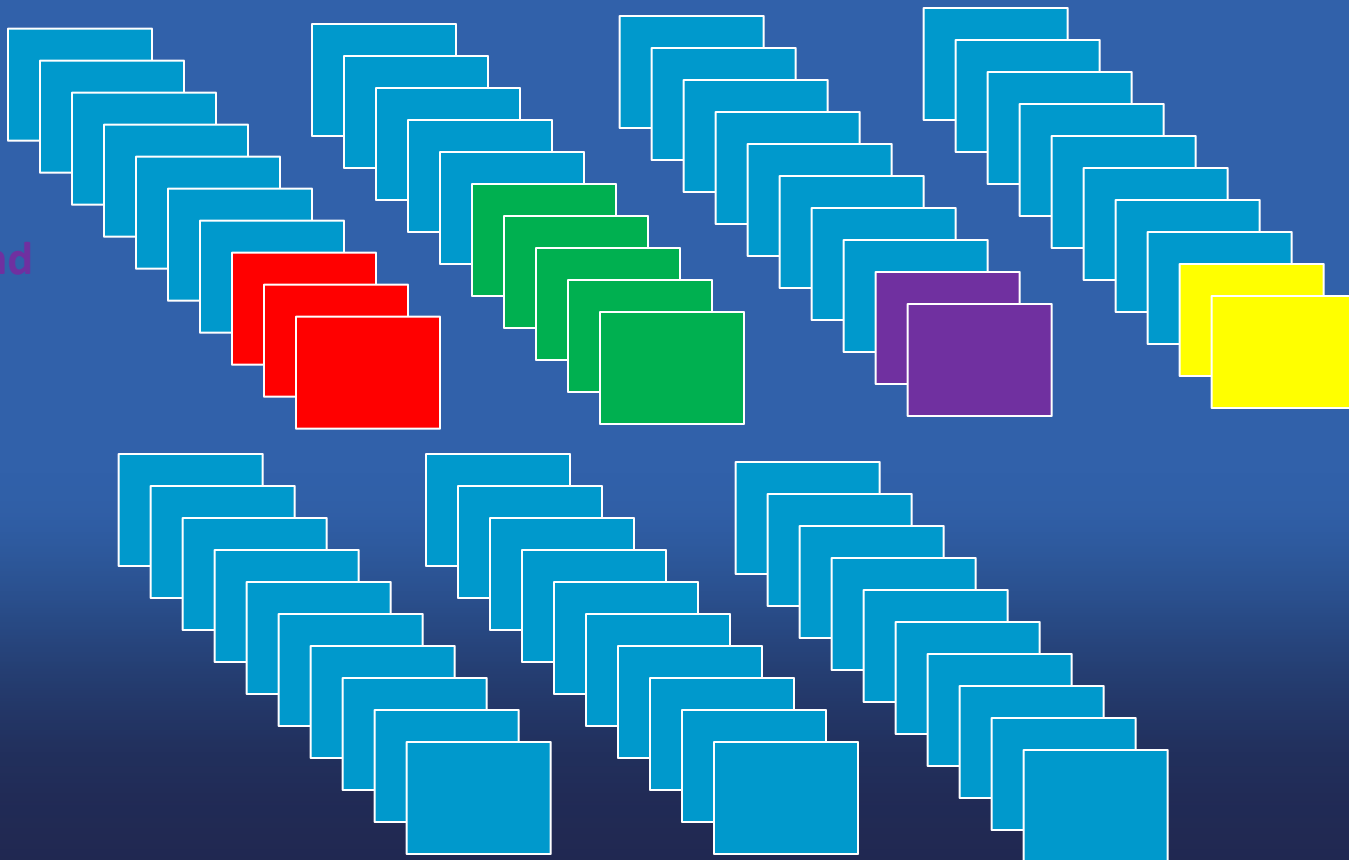
Conference  
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Monitoring and  
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Outreach







# Projects by Category

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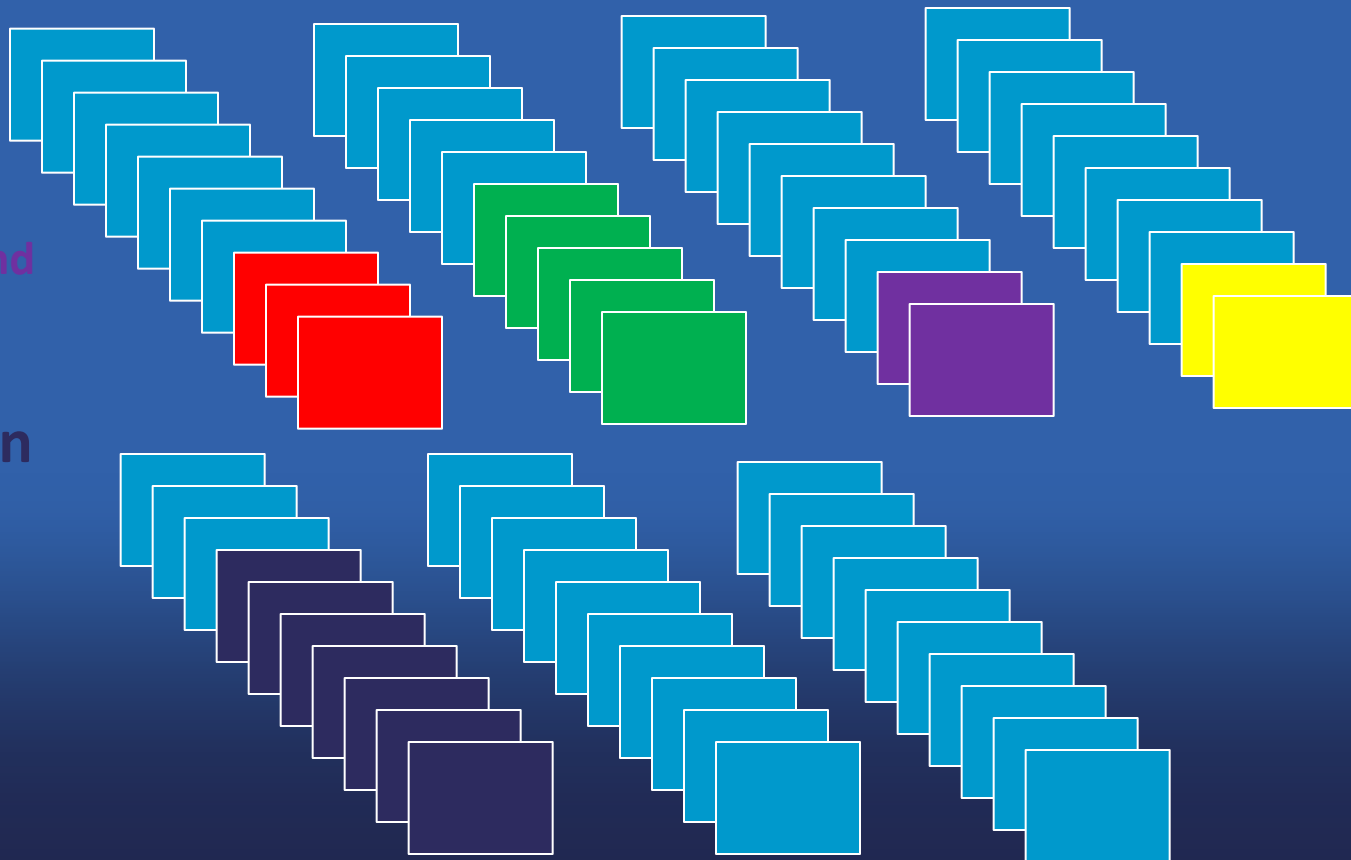
Green

Infrastructure

Monitoring and  
Science

Outreach

Restoration





# Projects by Category

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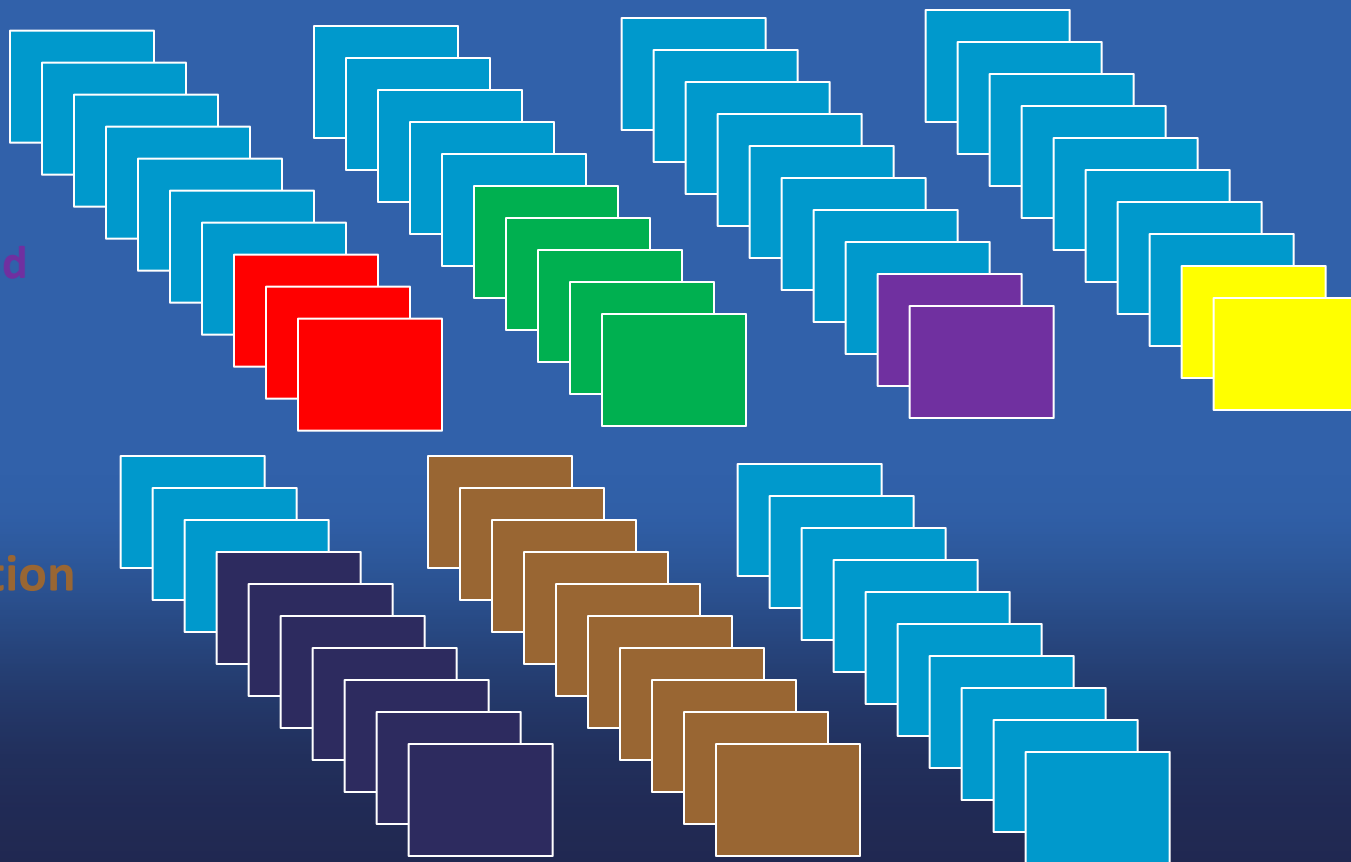
Monitoring and  
Science

Outreach

Restoration

TMDL

Implementation





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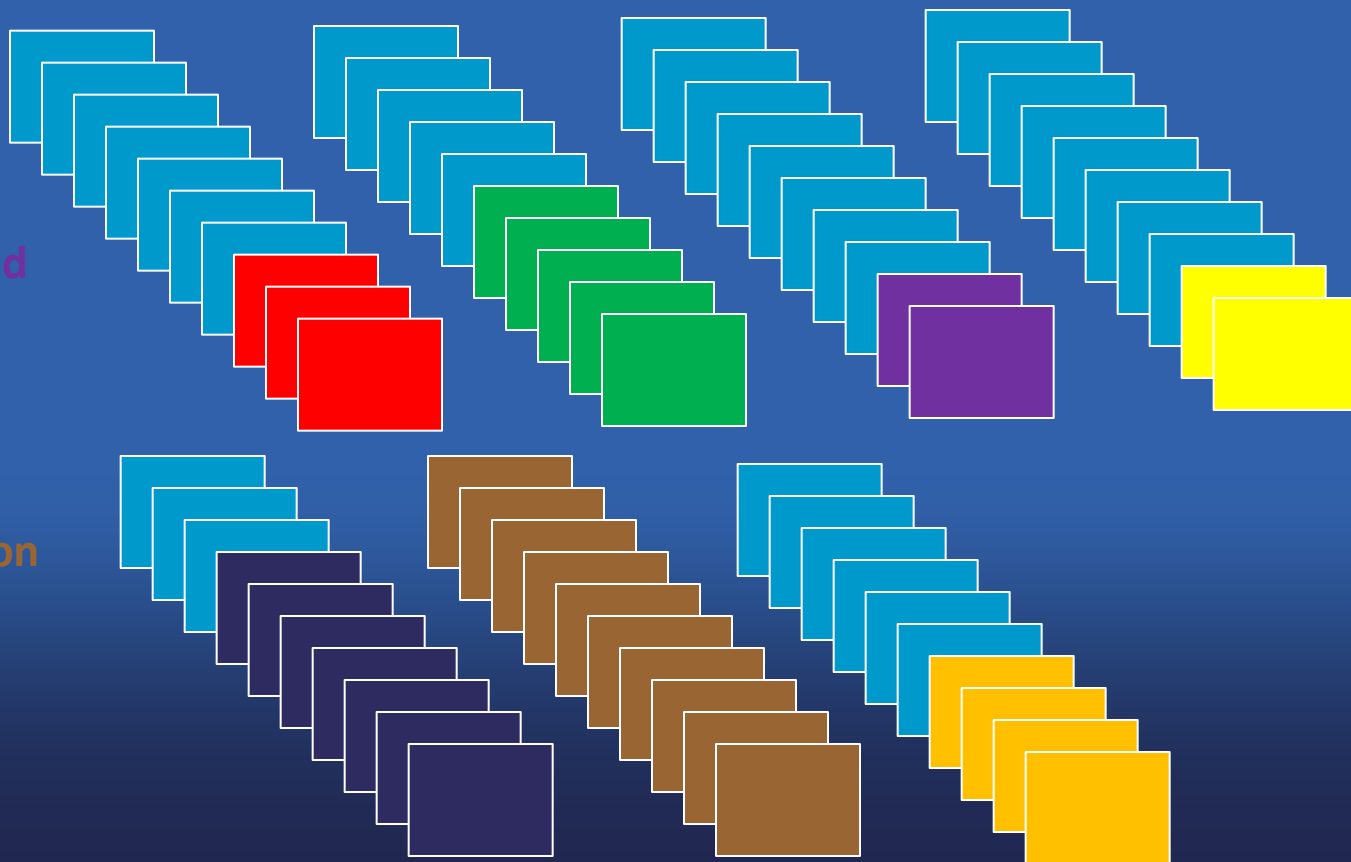
Restoration

TMDL

Implementation

Permit

Writers







# Projects by Category

Conference

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Green

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Science

Outreach

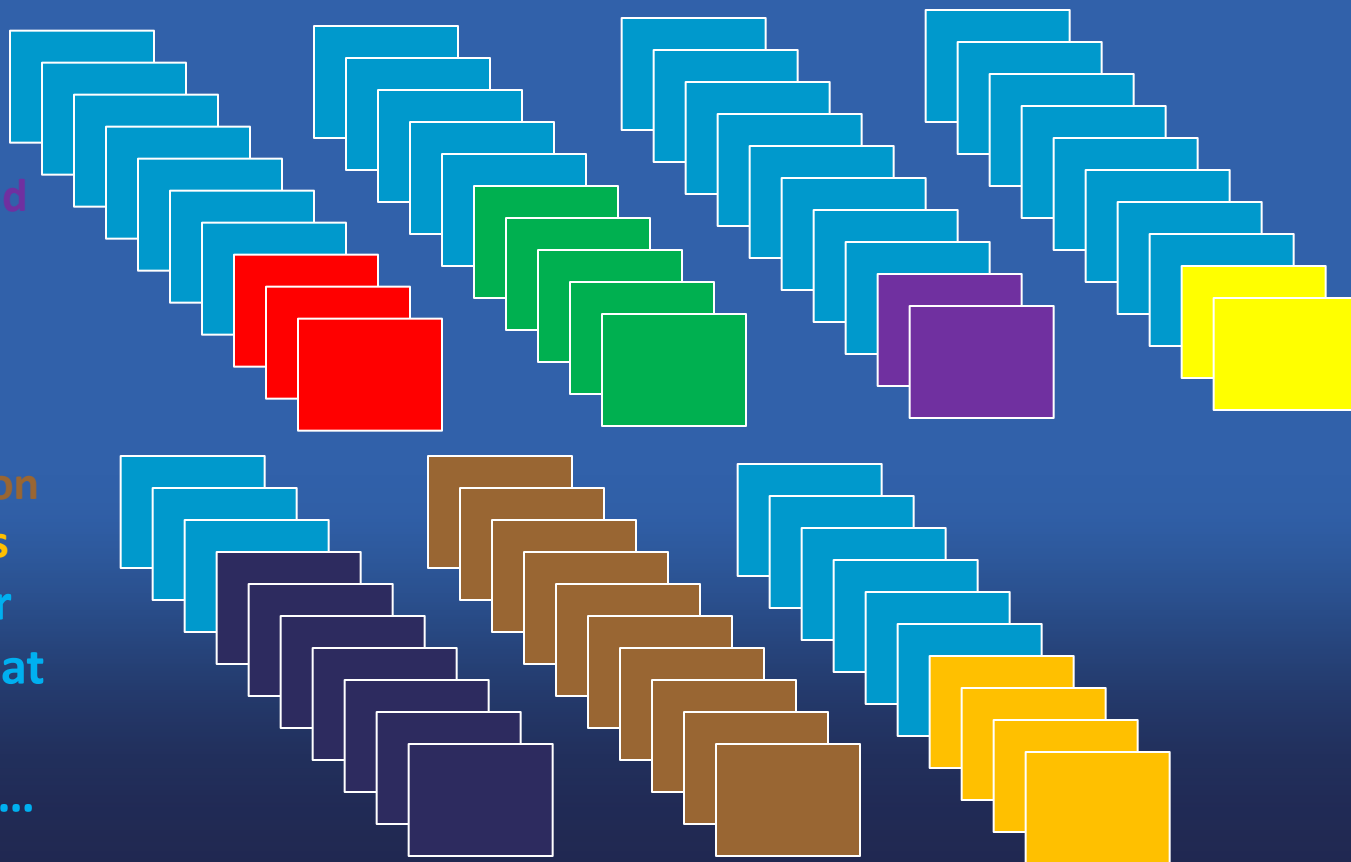
Restoration

TMDL

Implementation

Permit Writers

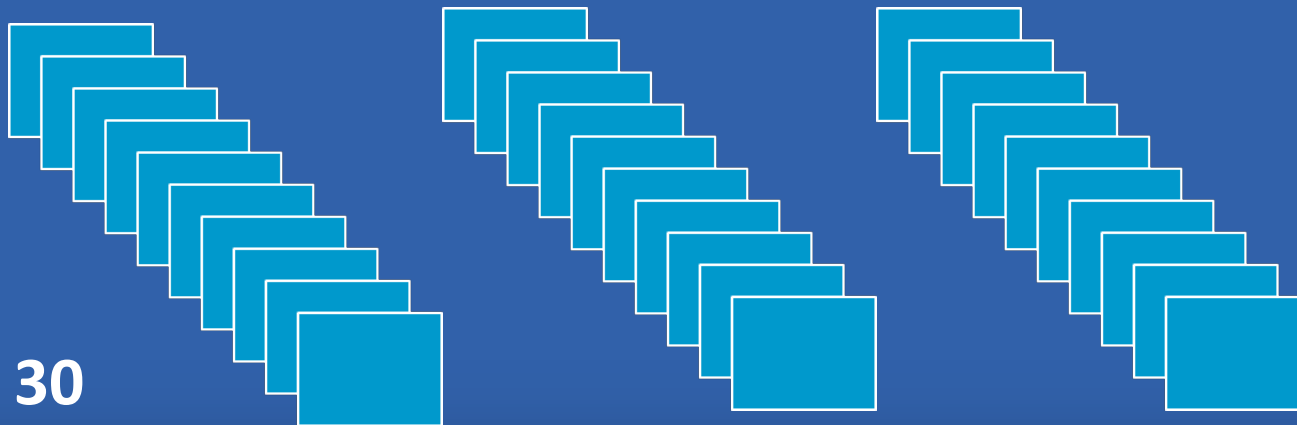
IRWM: water  
supply, habitat  
restoration,  
stormwater, ...





## Contracts Managed 2015

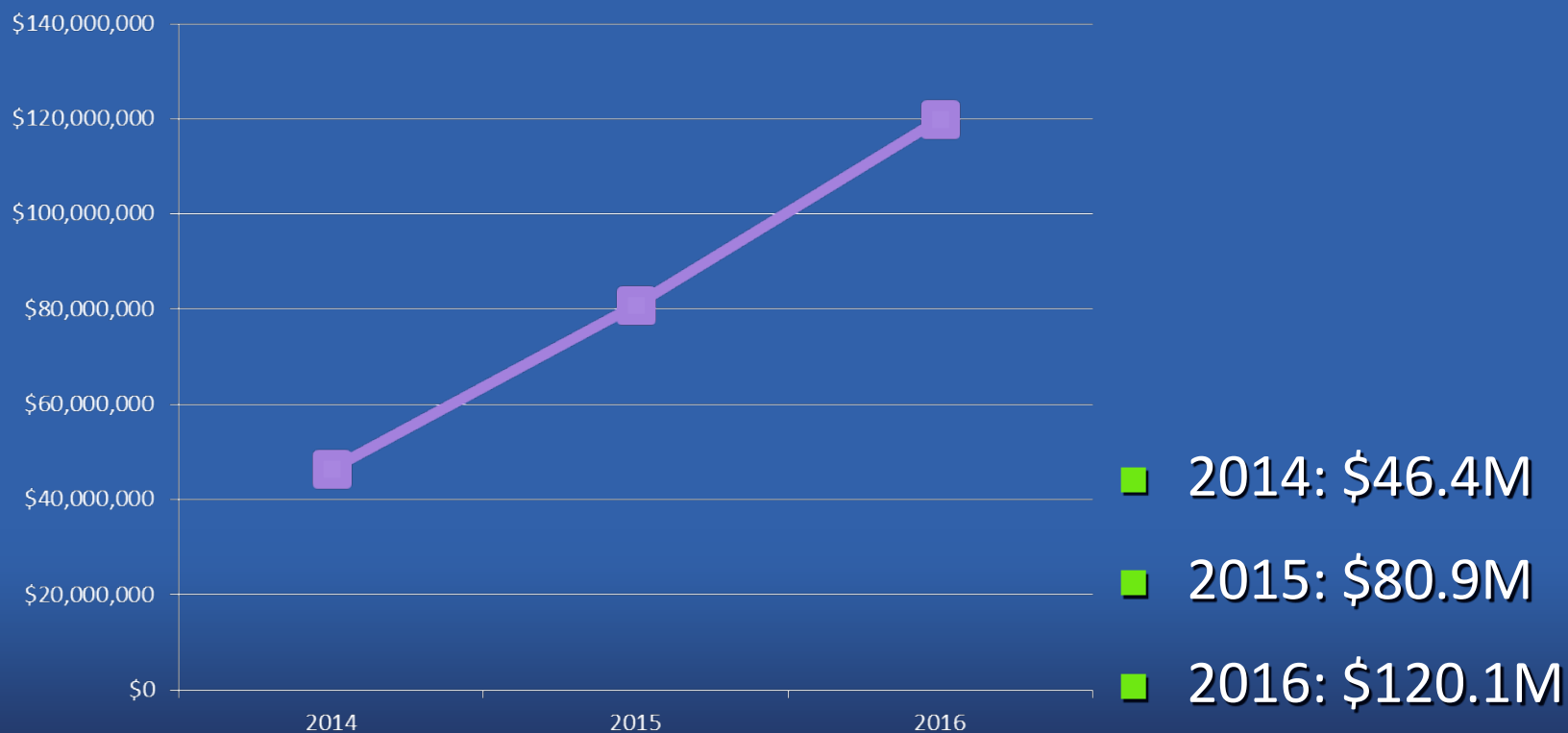
About 30



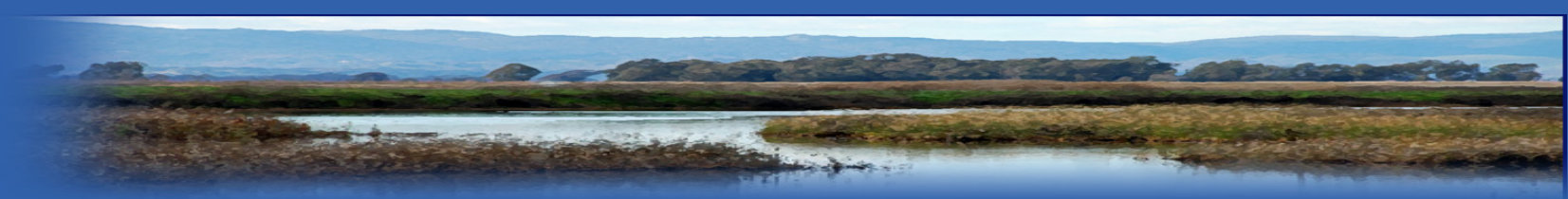
Dynamic equilibrium as grants/projects wrap up and new ones come online



# Total Current Funds Managed





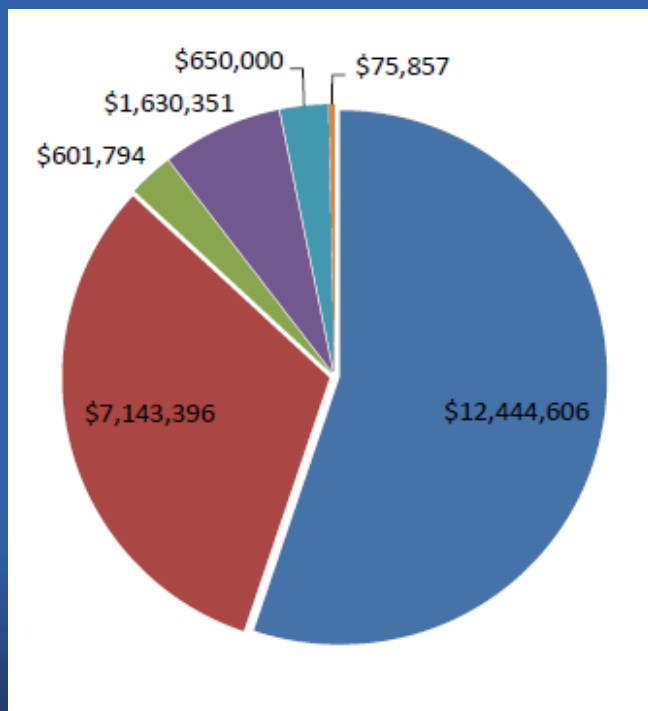


## What happened? IRWM

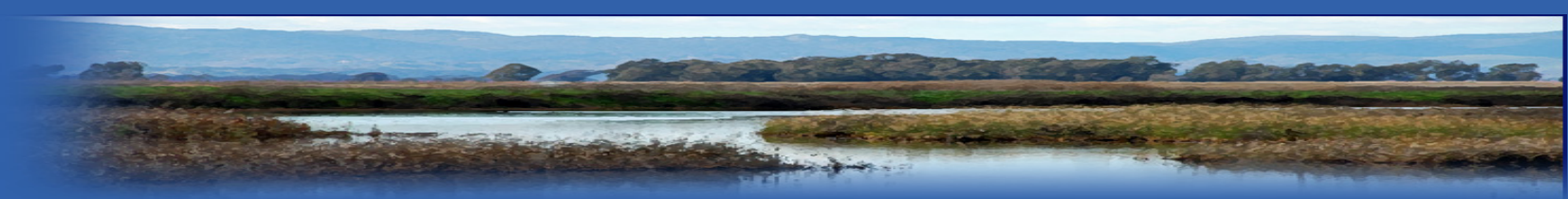
- Integrated Regional Water Management
- ABAG/SFEP grantee for all IRWM projects in SF Bay region:
  - Round 2 (2014): \$20M
  - Round 3 (2015): \$32.2M
  - Round 4 (expected 2016): \$41.3M
    - Total: \$93.5M



# This FFY Budget Estimate: \$22.5M



- IRWM project funds managed for partners
- Other project funds managed for partners
- Permit writers
- SFEP management funds
- Discretionary funds (EPA NEP funding)
- Other discretionary funds



## Leverage

- Recently reported to NEPORT the FY 14-15 totals
- Leveraged \$38.5M
- 68:1 ratio of leveraged funds to NEP base funding





## Funding categories

Project \$ we are awarded and manage for our partners

Permit writer contracts

Operating funds for our work to manage the grants and contracts

Discretionary staff support/project funds we receive each year from our Section 320 and incidental conference fees and donations



# TALKING TRASH

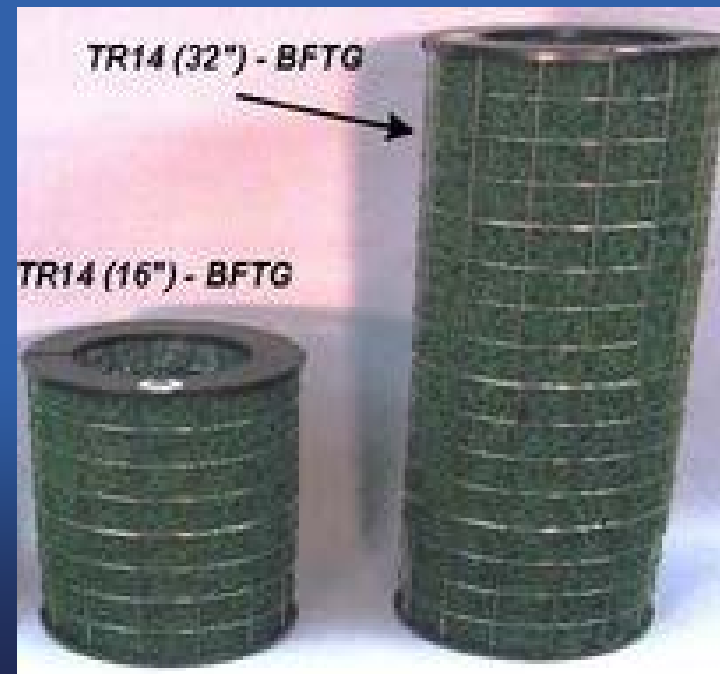


# Trash Capture Demonstration Project

- 2009–2013
- \$5 million in federal stimulus and CA bond funds
- 65 participating municipalities
- 12 vendors under contract
- 4003 devices installed
- Final report at <http://sfep.sfei.org/our-projects/water-quality-improvement/trashcapture/>



# Small Devices





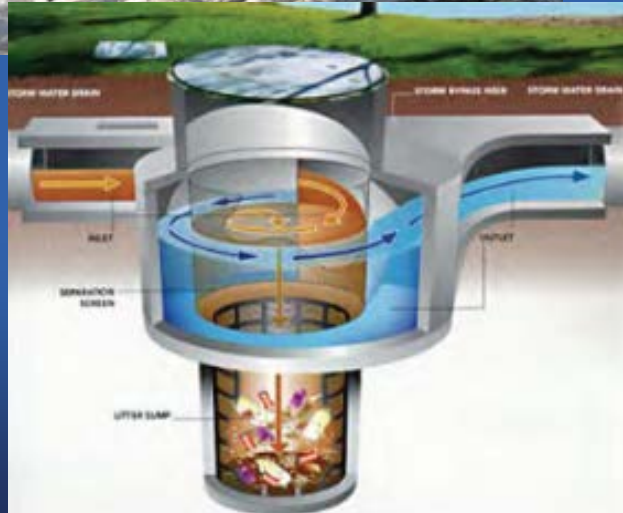


SAN FRANCISCO



ESTUARY  
PARTNERSHIP

# Large Capacity Devices

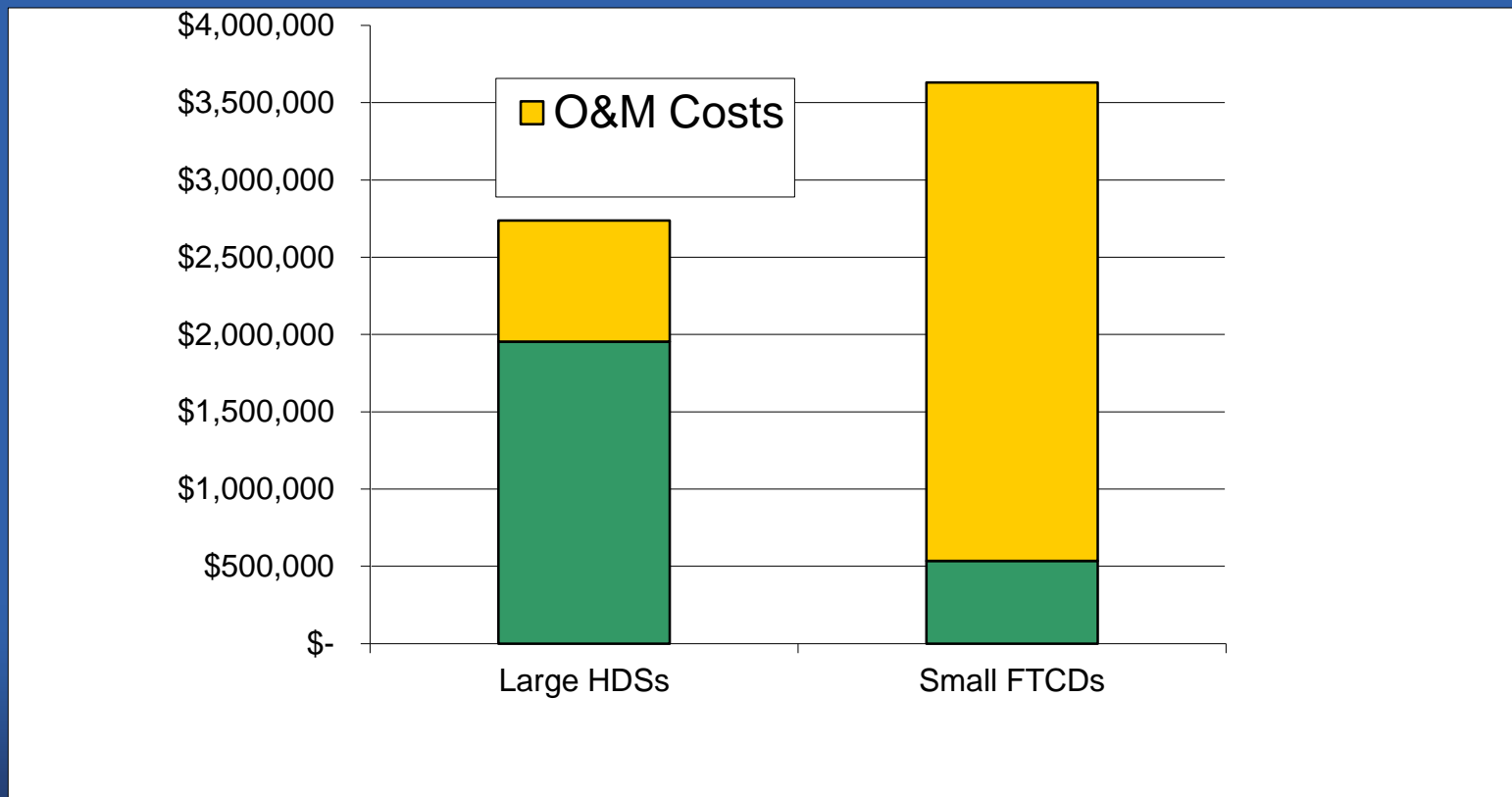


## What did we learn?

- Designs for So. CA needed redesign
- Most holding up
- Vendors honoring warranties
- Many munis installed curb screens (ARS) in combo with inserts to reduce maintenance
- 5 mm standard is challenge for nets in lg. devices
- Over 10-20 years, costs lower for large over small devices



# Capital + O&M Costs, 20 years



Charts from a preliminary report by the City of San José



# Mercury in South Bay





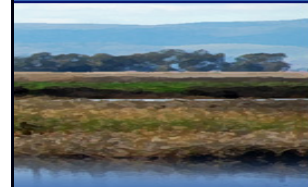
SAN FRANCISCO















SAN FRANCISCO



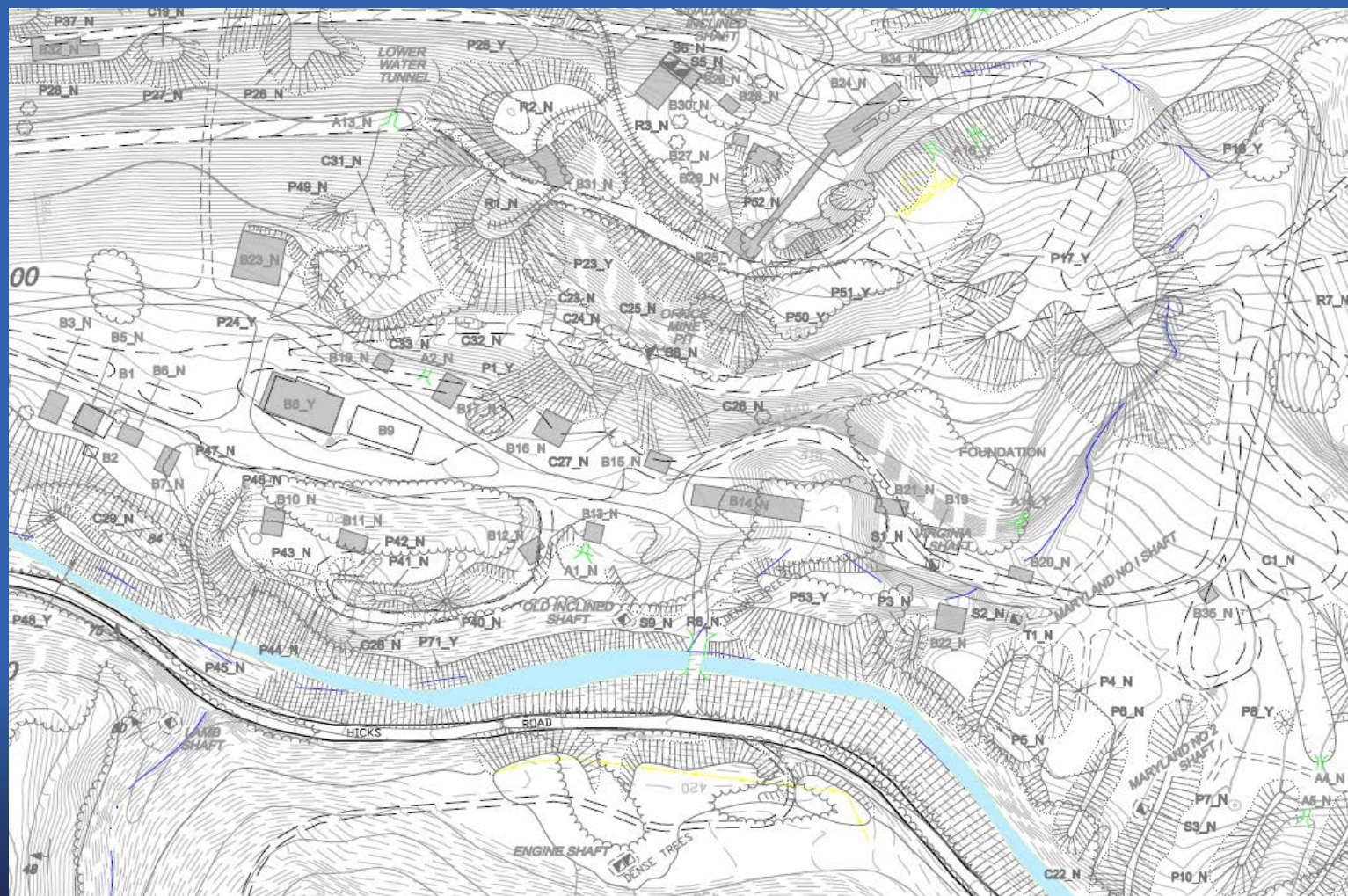
ESTUARY  
PARTNERSHIP

# Guadalupe Mine 1883





# USGS map from early 1940s





# With Mining Waste





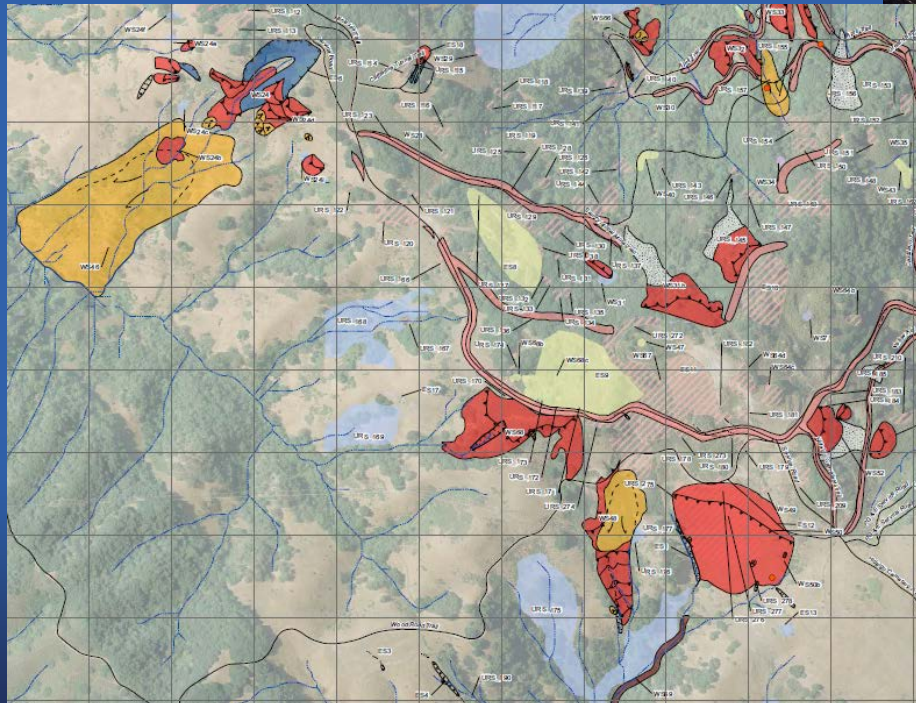


# Senador Mine





## A photograph of a dirt road in a wooded area, showing a large, deep, linear erosion gully running down the center of the road. Several people are standing on the road, observing the erosion. A map inset in the bottom left corner shows the location of the site within a larger landscape.







# Gulch Project



Before

After



Jacques Gulch 2008-2009



# Hicks Flat Project

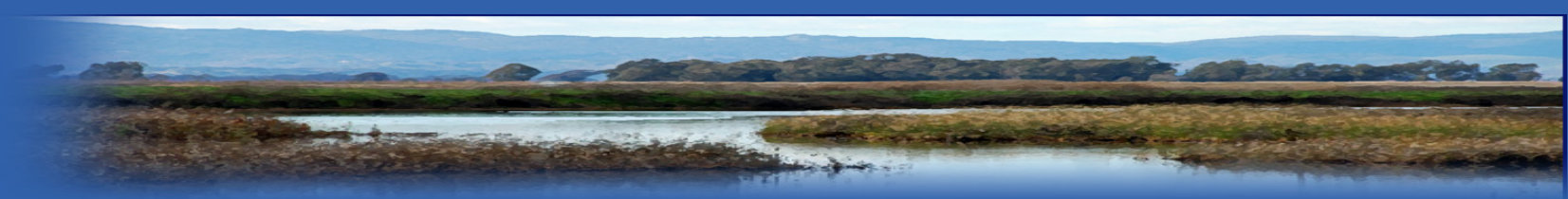


Hicks Flat 2013  
From: Google Earth



Hicks Flat 2011  
Midpeninsula Regional Open  
Space





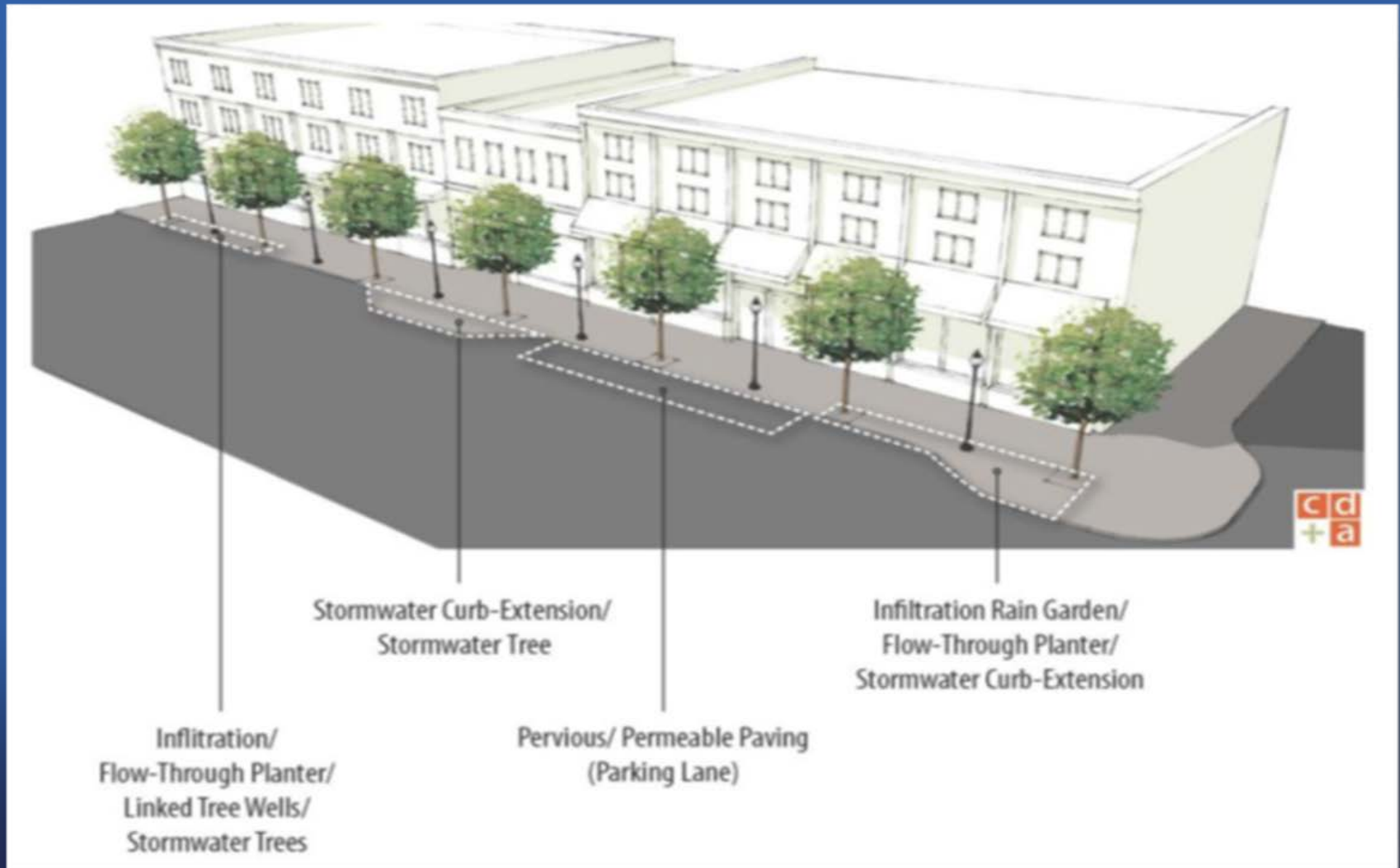
## Keys to success?

- Multiple sources of funding
- Focusing on high value, highly impacted watersheds
- This is a legacy pollutant and this is a journey and not an end





# Green Stormwater Infrastructure





# SFEP's Green Streets Progression







# EL CERRITO RAIN GARDENS



BEFORE



AFTER

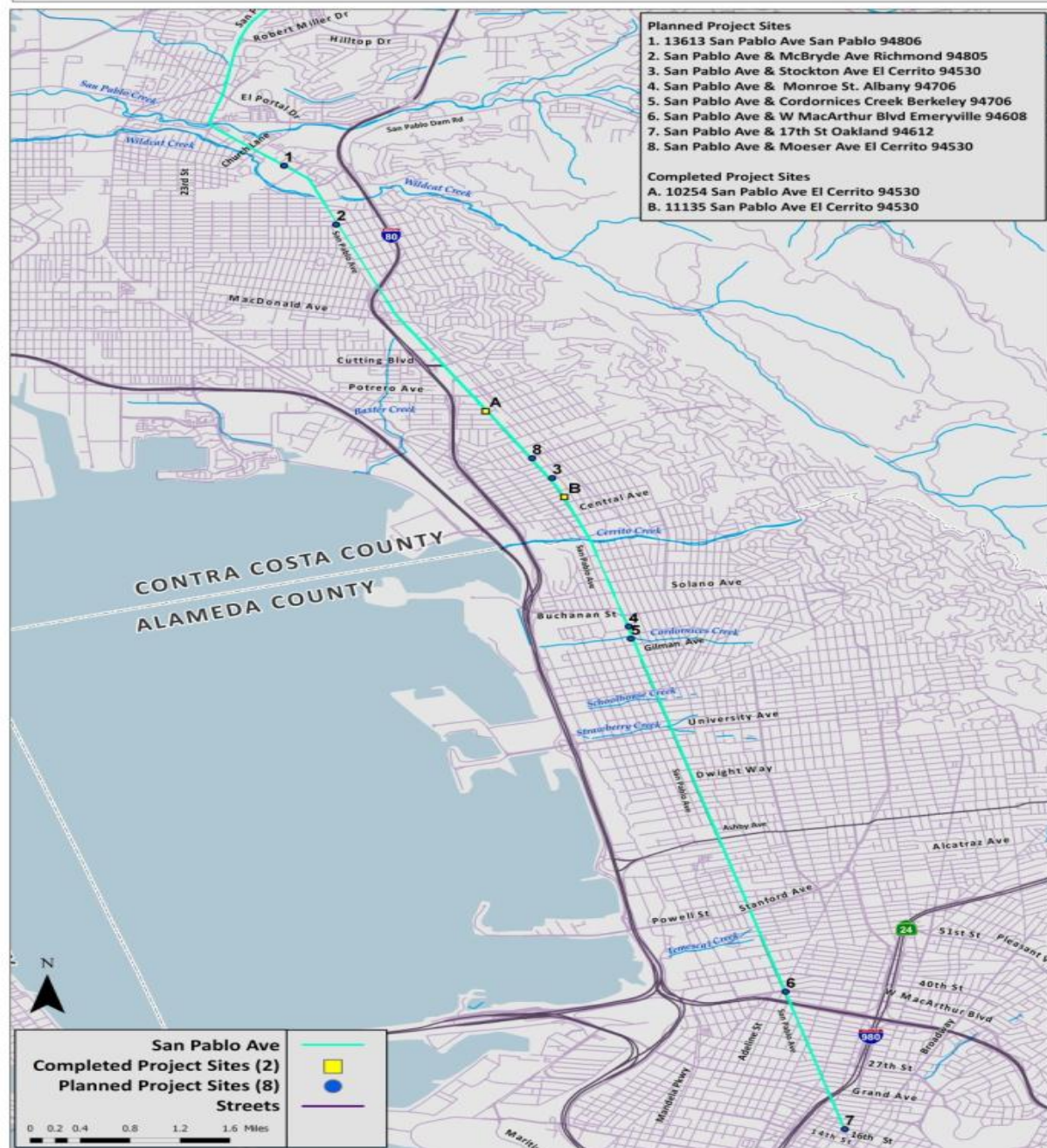


# San Pablo Ave Green Stormwater Spine

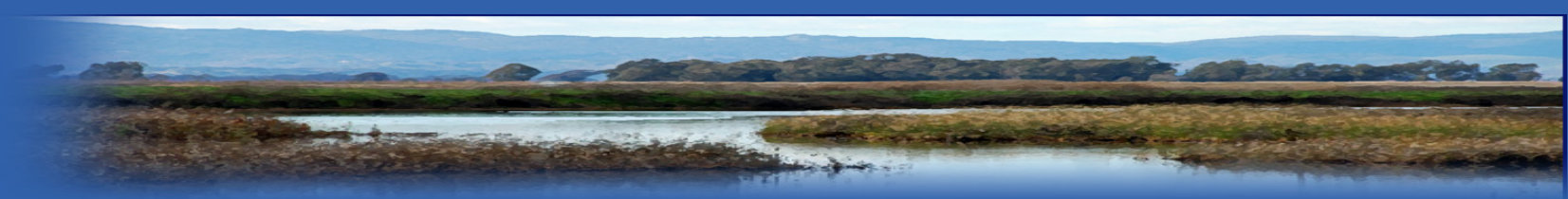
- Oakland
- Emeryville
- Berkeley
- Albany
- El Cerrito
- Richmond
- San Pablo
- Caltrans

## San Pablo Avenue Green Stormwater Spine Selected Project Sites

November 2012  
San Francisco Estuary Partnership







# Urban Greening Bay Area Overview

Planning

City Green  
Plans

GreenPlan-IT  
2.0

Regional  
Roundtable

Implementation

Design  
Guidance

San Mateo

Sunnyvale

San Jose

Tracking

Tracker  
Tool