

Countywide Stormwater Program Updates

C/CAG Congestion Management and Environmental Quality Committee Meeting
October 28, 2024
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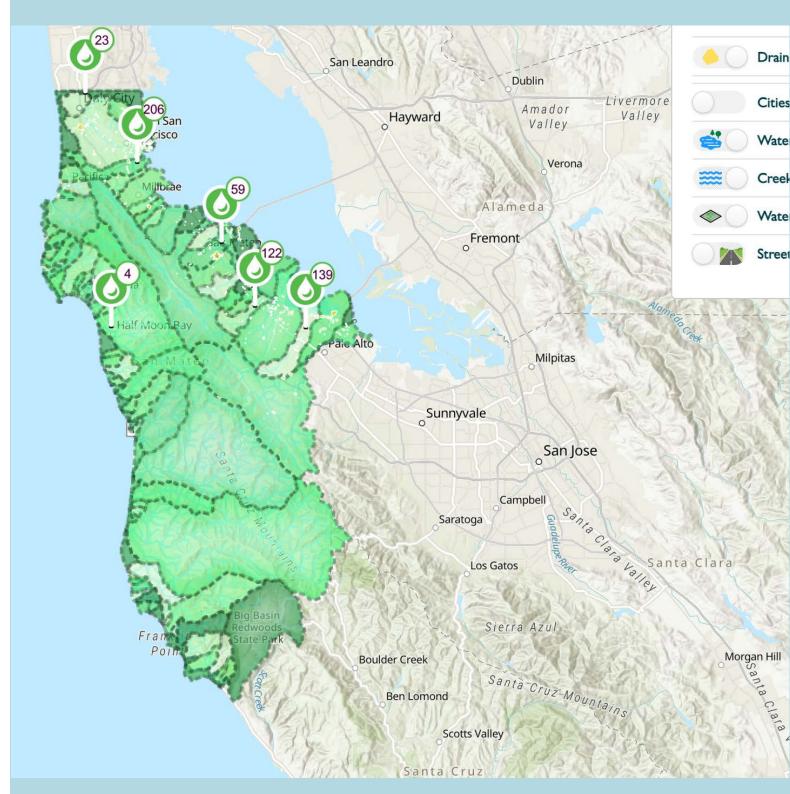


What is the One Watershed Framework?



- OneWatershed Climate Resilience Infrastructure addresses the regional and shared-risk of climate change to water infrastructure and resources (sewer, water, stormwater) with an emphasis on building adaptive capacity to climate impacts for the most vulnerable communities.
- Leveraging prior efforts but taking a more holistic approach to watershed-based resilience



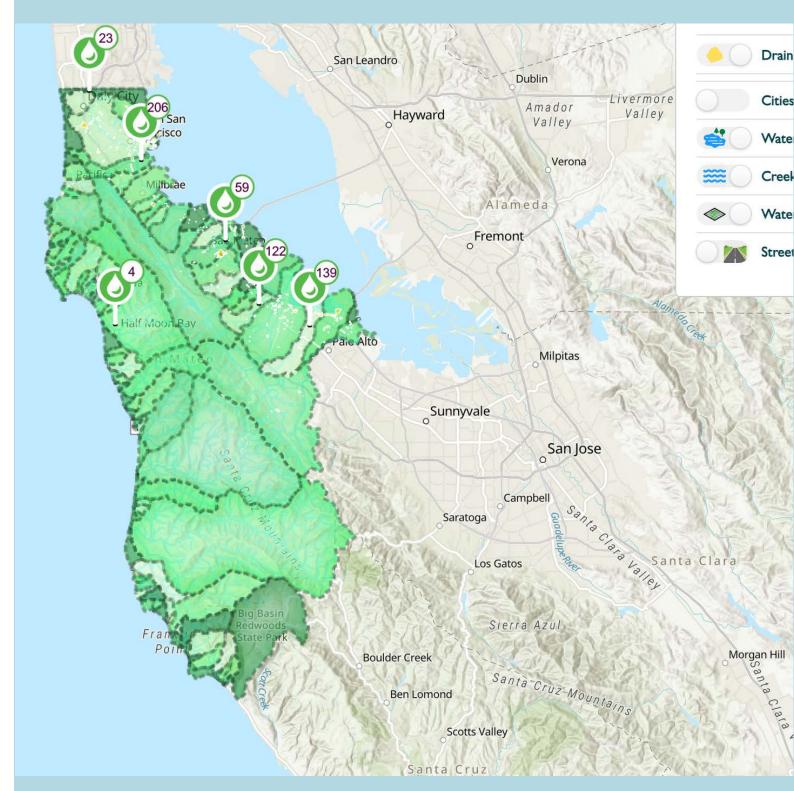


What is the One Watershed Framework?



- Builds on years of often disaggregated climate resilience planning in the county
- Harnesses resources and partnerships under an umbrella program to advance shared goals around overlapping climate risk, collectively
- Equity first (e.g., San Bruno Creek Watershed "Community-Led Plan")



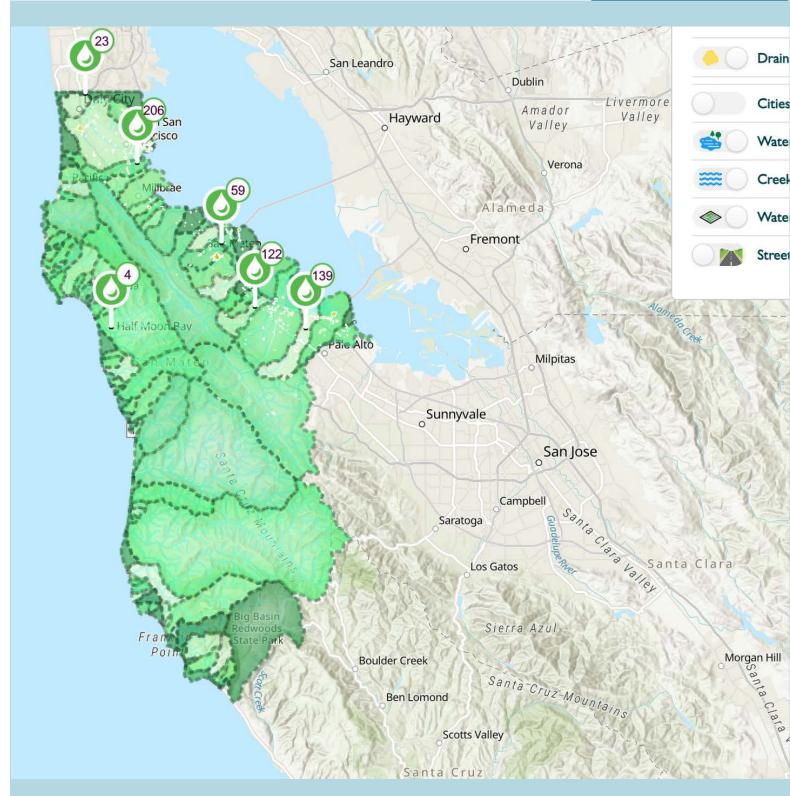


What is the One Watershed Framework?



- Part one of a multi-year, multi-part strategy to build systematic and transformational change with respect to integrated watershed management and resilience in San Mateo County (this is phase one)
- Not a plan itself but a framework for future coordinated resilience planning





Putting the Pieces Together to Build Resilience in San Mateo County









San Mateo Countywide

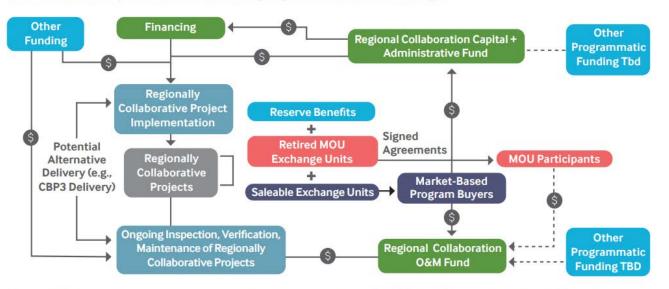
Sustainable Streets Master Plan

FINAL January 2021



REGIONAL COLLABORATIVE

Geosyntec developed a Countywide Regional Collaborative framework with input from the project Technical Advisory Committee, which highlights the project's findings:



This effort built from previous work conducted by C/CAG, including the Stormwater Resources Plan (SRP) for San Mateo County (completed in 2017), Pollutant Control Measures Implementation Plan and Reasonable Assurance Analysis for San Mateo County - Scenarios to Achieve PCBs and Mercury San Francisco Bay TMDL Wasteload Allocations (completed in 2020), and the Sustainable Streets Master Plan (completed in 2021).

This work was funded through a grant awarded by the California Natural Resources Agency



Putting the Pieces Together to Build Resilience in San Mateo County







OneWatershed Shared-Risk Asset and Community Vulnerability Data Inventory

Community vulnerability

- indicators: - Income
- Access to healthcare, food, transportation,



Climate hazards:

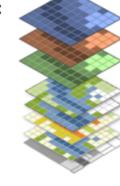
- Flooding

services

- Storm surge
- Sea level rise
- Heat
- Drought

Built environment:

- Conveyance
- Water
- Sewer
- Storm drain
- Pavement condition
- Impervious surface
- Gas/Fuel lines



Community Data

- Lived experience (e.g., observational and anecdotal data)
- Historical data (e.g., written and verbal community records)
- Community approaches (social infrastructure, established community processes / tools)
- Vulnerability indicators: linguistic isolation, race, etc.

Natural environment:

- Groundwater levels
- Soils
- Slope
- Tree cover

Co-Learning

- EPC Group Workshops
- · CCC Team Meetings
- Surveys
- · Event attendance



Adaptive Capacity

Validating technical data with community experience and building a community of practice composed of agency and community expertise that empowers participants to continue momentum.

San

San Mateo County OneWatershed Climate Resilience Framework

- Identified areas of shared agency and community risk
- Community-defined benefit scoring
- Risk reduction scoring
- Adaptive capacity strategies (projects, policy
- updates, and/or programmatic and institutional needs identification)
- Enhanced data visualization tools for viewing shared risk geographies and OneWatershed project opportunities and benefits



San Bruno Creek OneWatershed Climate Resilience Plan

- Apply framework to create a roadmap for building community adaptive capacity

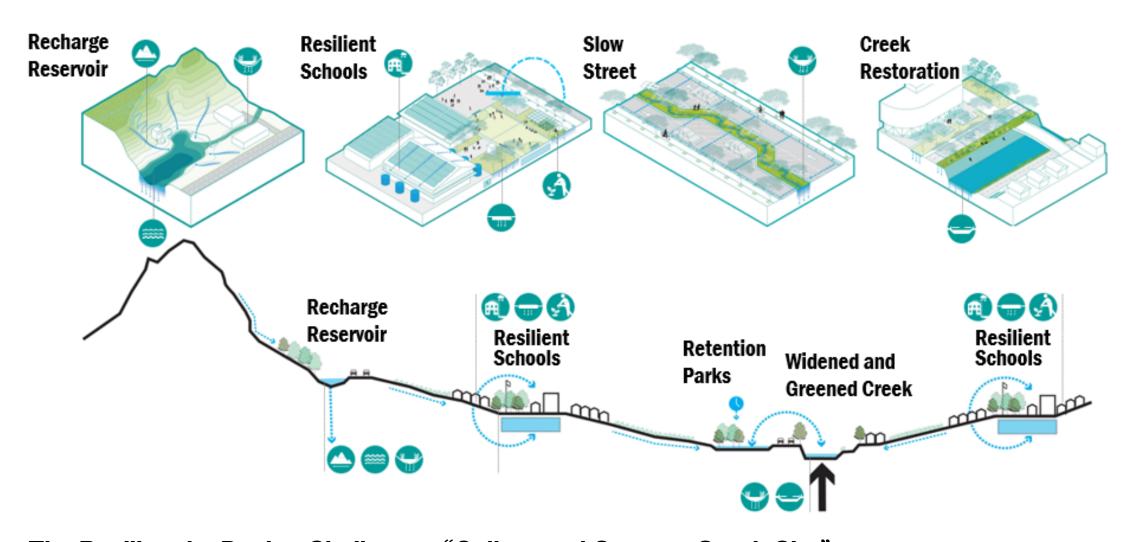
1-3 Project concepts from Framework application and outreach



Putting the Pieces Together to Build Resilience in San Mateo County







The Resilient by Design Challenge "Collect and Connect South City" conducted a watershed-scale analysis of the Colma Creek Watershed and identified green infrastructure opportunities at varying watershed elevations and benefits including water reuse, groundwater recharge, recreation, flood mitigation, water quality, and heat mitigation.



One Watershed Project Partners

- C/CAG Stormwater Program project lead
- Climate Resilient Communities <u>CBO lead</u>
- City of San Bruno <u>San Bruno Creek Watershed lead</u>
- County of San Mateo Sustainability Department
- South San Francisco-San Bruno Regional Water Quality Control Plant
- Bay Area Water Supply and Conservation Agency
- San Mateo County Flood and Sea Level Rise Resiliency District (OneShoreline)









- Geosyntec
 - Prime contractor
- Paradigm
 - OneWatershed Dashboard Lead
- Craig Communications
 - Outreach Support
- Hazen
 - Water Supply Data Lead
- EOA
 - Wastewater Data Lead and Technical Advisor
- Carollo
 - Technical Advisor















Geosyntec Team Tasks

1

Workplan and Initial Engagement

- Develop Work Plan
- Develop Engagement Plan
- Establish Committees



OneWatershed Data Inventory

- Data Collection and Gap Analysis
- Inventory Development
- Shared-Risk Assessment Approach



OneWatershed Framework and OneWatershed Dashboard

- OneWatershed Framework Report
- OneWatershed Dashboard
- Shared-Risk Countywide Results

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Community-Led San Bruno Creek OneWatershed Climate Resilience Plan

- Community-scale Vulnerability Assessment
- Pilot of OneWatershed Framework
- San Bruno Creek OneWatershed Climate Resilience Plan

5.1

NOAA Grant Application

 NOAA Climate Resilience Regional Challenge Grant Application (submitted Feb 2023/notices summer 2024)

5

Project Administration

- Project Kick-Off and Monthly PMT Meetings
- APGP Progress Reports and Final Report

One Watershed Climate Resilience Implementation Program (NOAA Grant)



Program Collaborators (the Partnership):

7 projects in 5 communities, program developments + Pilot Workforce Development Program





































Green Schoolyards America

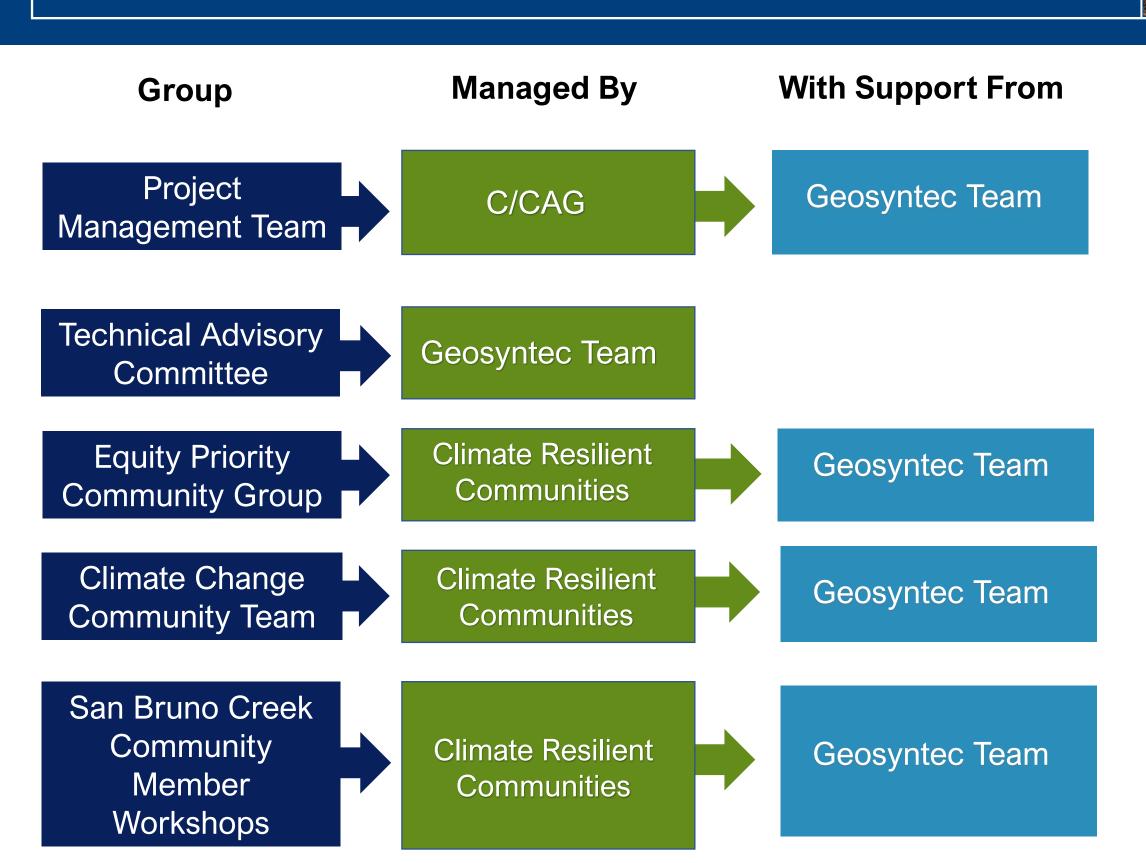


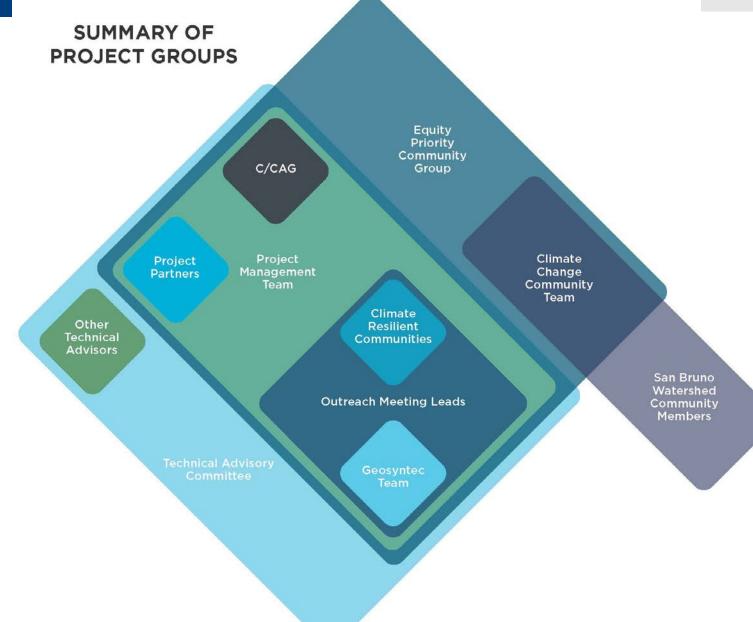
Project Outreach Approach













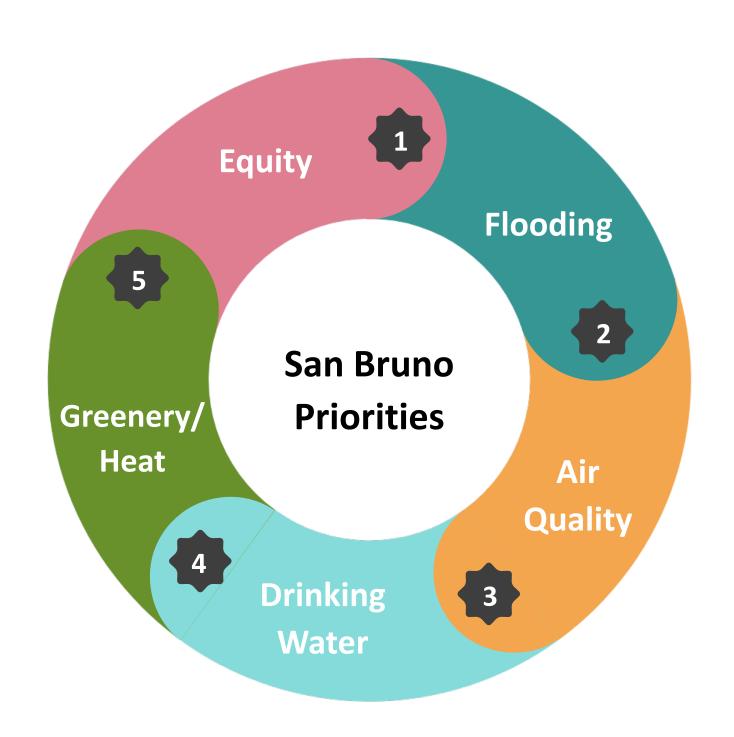
Plays a key role in outreach activities for Project

Resilient San Bruno CCCT









The Resilient San Bruno CCCT

- Primarily impacted community members with City Council involvement
- Meets monthly following model for grass roots community organizing with support from Climate Resilient Communities
- Community-driven discussions regarding climate change impacts
- Focusing on highest priorities and opportunities to take action as a group and with other community members and organizations (including mobilization around potential ballot measure to fund infrastructure and other needs)
- CRC is providing \$15K for a community scale project chosen by the members

13

4

Geosyntec[>]

consultants

Overall Timeline

Winter-Spring 2024

- Project Kick off
- TAC and EPC #1 and #2
- Community
 Engagement
 Plan and
 Project Work
 Plan
 development

Summer 2024

- Data Inventory and OneWatershed Framework Approach memo
- Shared Risk
 Assessment
 Section of Draft
 Report

Additional Public Engagement

Fall 2024

- Draft
 OneWatershed
 Framework
 Report
- TAC and EPC #3

Additional Public Engagement

Winter 2024 – Winter 2025

- Final OneWatershed Framework Report
- OneWatershed Dashboard development
- San Bruno OneWatershed Plan

San Bruno Climate Change Community Team Meetings (monthly)

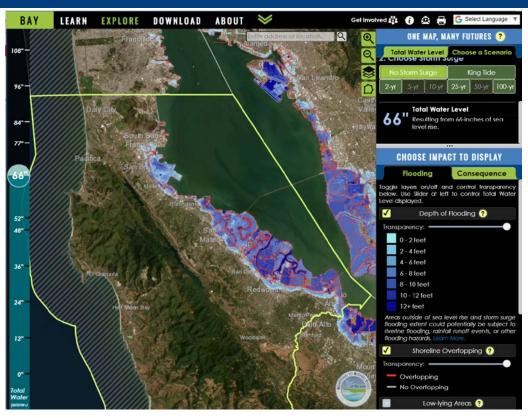
San Bruno Creek Resilience Plan Public Workshops

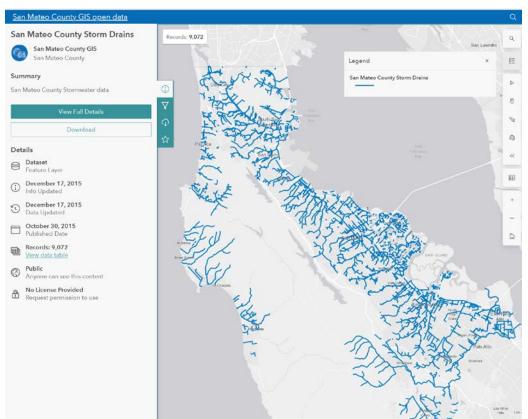
OneWatershed Data











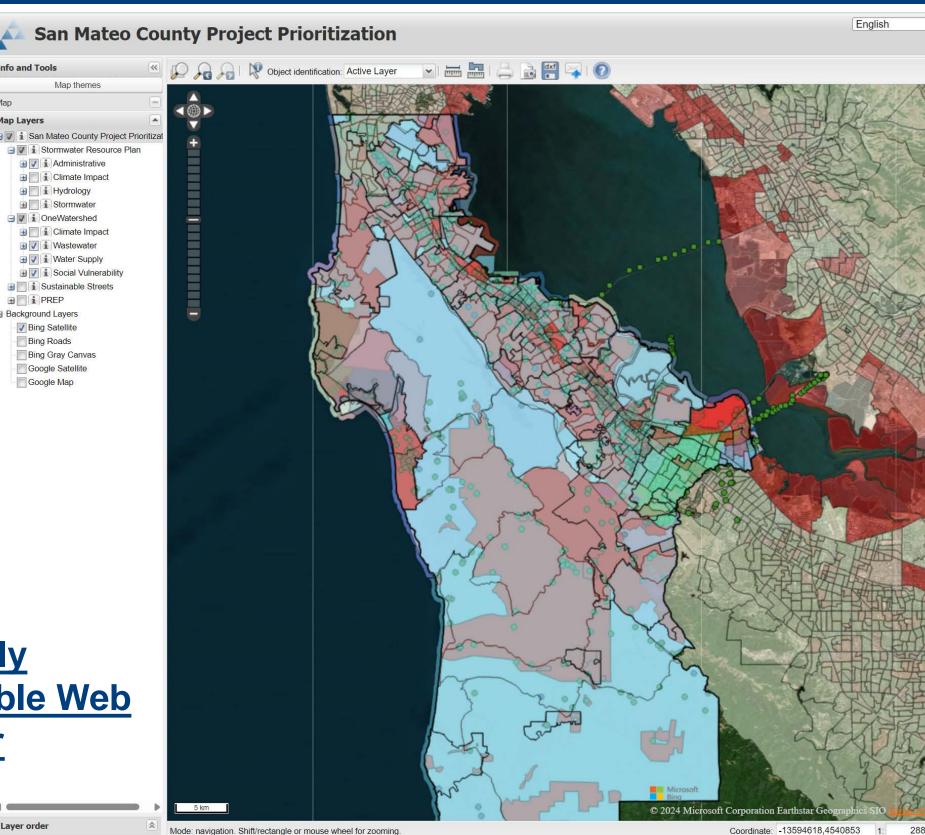
Climate Risk Data

Asset Data Publicly Available Web Viewer

■ Climate Impact ∄ Stormwater ■ OneWatershed ■ Climate Impact

■ Sustainable Streets

⊕ i PREP ∃ Background Layers ☑ Bing Satellite Bing Roads Bing Gray Canvas Google Satellite Google Map



Shared Risk Approach



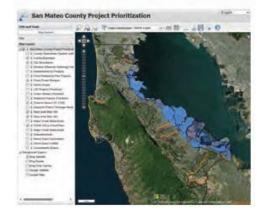




Four Future Climate Scenarios (Consistent with BCDC RSAP)

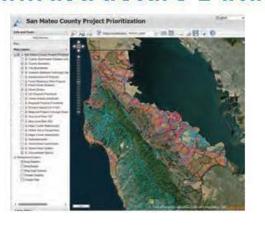
Time Frame	Emissions Scenario	Sea Level Rise	OneWatershed Scenario	
2050	Intermediate	1 foot	Mid-Century – Intermediate	
2100	Intermediate	3.1 feet	End of Century – Intermediate	
2100	Intermediate- High	4.9 feet	End of Century – Intermediate-High	
2100	High	6.6 feet	End of Century – High	

Climate Risk Data





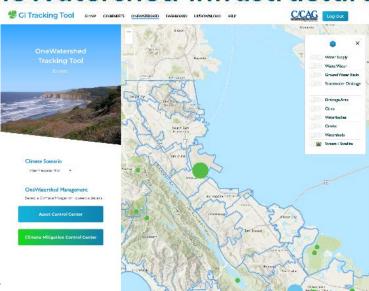
OneWatershed Infrastructure Data



Climate Impact Shared Risk Analysis



Countywide OneWatershed Infrastructure Risk Exposure



Shared Risk Approach







We are examining the risk exposure for the following climate impact categories based on available studies:

- Sea Level Rise
- . Extreme Heat
- Extreme Precipitation
- Hydrologic Drought
- . Wildfire

We identified "Low", "Moderate", and "High" exposure risk thresholds for each climate impact

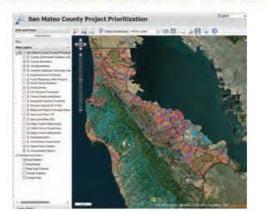
We identified available climate impact study scenarios that corresponded with OneWatershed scenarios

Climate Risk Data

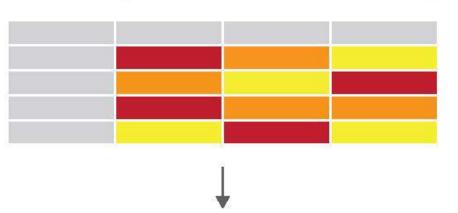




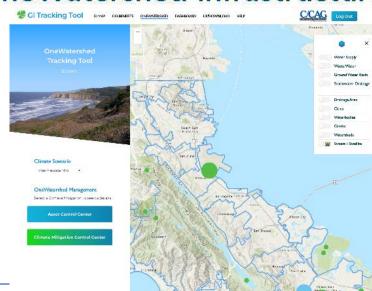
OneWatershed Infrastructure Data



Climate Impact Shared Risk Analysis



Countywide OneWatershed Infrastructure Risk Exposure

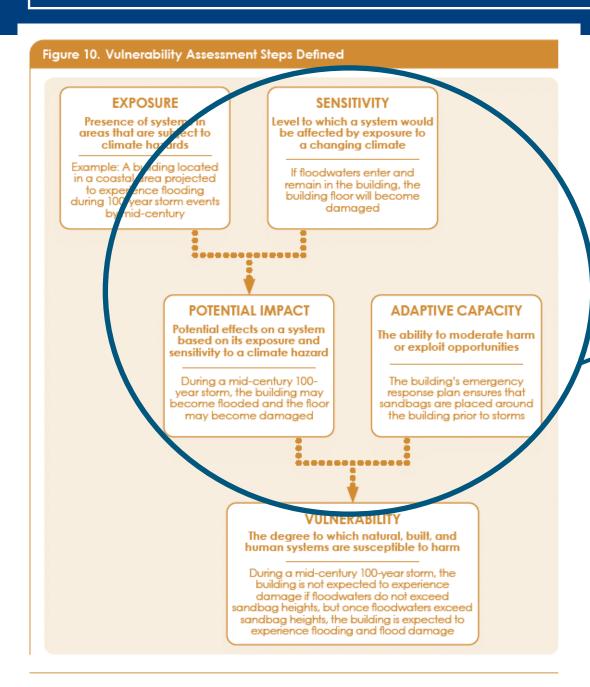


OneWatershed Framework







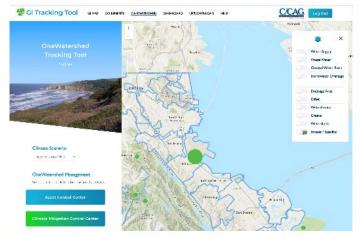


Governor's Office of Emergency Services, 2020 OneWatershed Framework — Watershed Scale Application

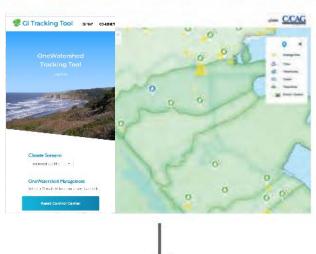
Community Vulnerability Assessment



Watershed Scale Risk Exposure



Community Prioritized Vulnerable OneWatershed Infastructure



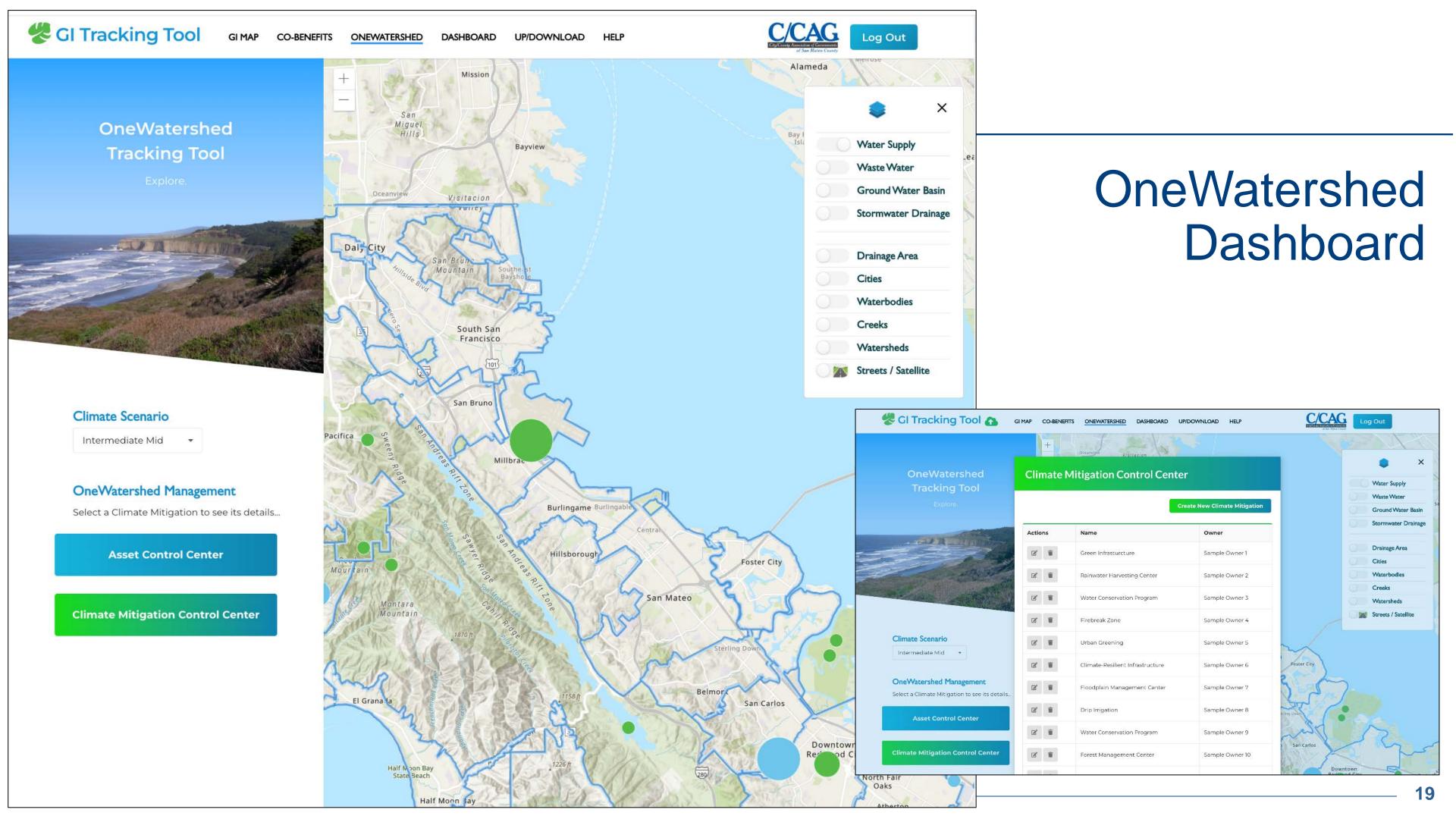






Community-led OneWatershed Climate
Resilience Project, Program, and Policy Selection

CASQA | 2024 _____





C/CAG Committee Input

- Presentation of OneWatershed Framework vision, goals, data inventory development and OneWatershed Framework approach to Stormwater Committee in July
- Presentation of OneWatershed Framework development to the CMEQ Committee in November
- Return to Committees and C/CAG Board in December with the draft OneWatershed Framework Report
- Plan for public webinar on draft OneWatershed Framework Report in December

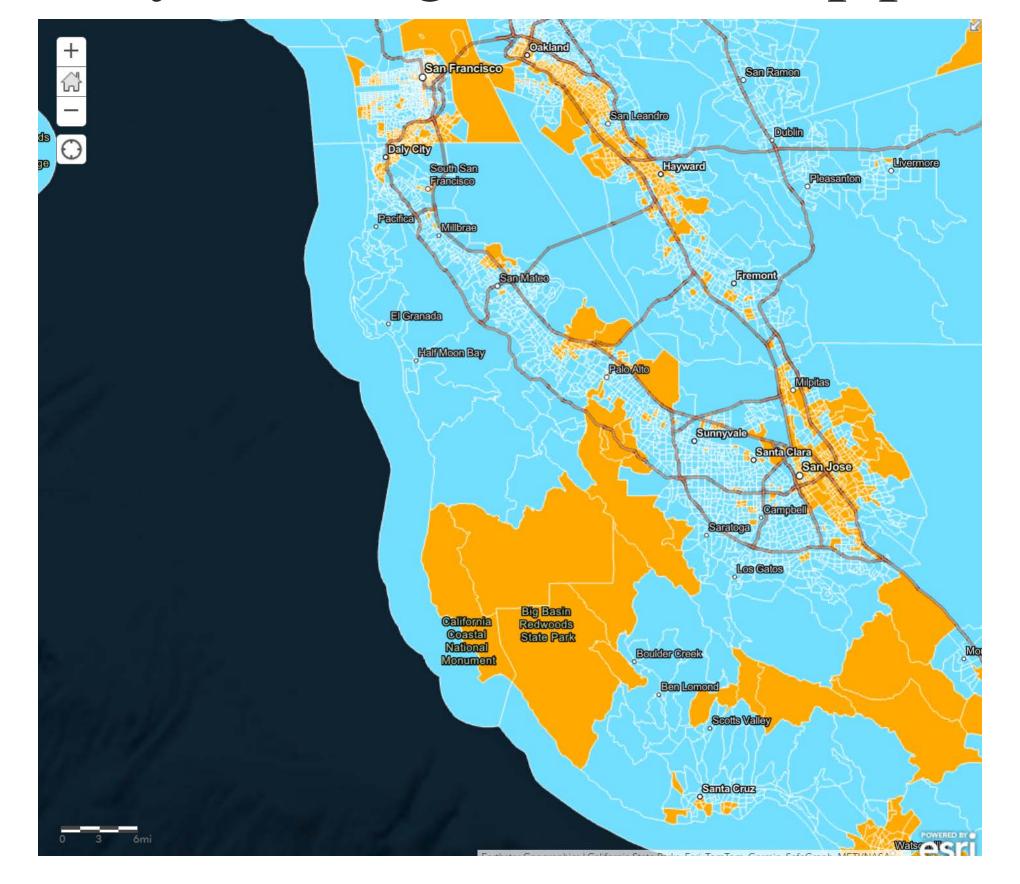




Background:

- US EPA Community Change Grant Program has \$2B in Inflation Reduction Act funds for implementation of community-driven climate resilience/pollution prevention projects that directly benefit designated Disadvantaged Communities (DACs)
- Focus on building capacity to address environmental and climate justice challenges with community input
- No match, but projects must be located within or provide direct benefit to designated DACs from the <u>EPA IRA Disadvantaged</u> <u>Communities and Environmental Justice Program Map</u>
- Track 1 \$10-20M for up to ~150 projects









Background:

- Proposals must include at least one Community Based
 Organization (CBO) as a lead partner and a Statutory Partner that can be another CBO or a government entity
- The lead CBO and Statutory Partner must enter into a Partnership Agreement as part of the application
- Applications are accepted on a rolling basis, due no later than Nov 21, 2024





C/CAG's Proposal:

- C/CAG is working with Climate Resilient Communities (CRC) on a proposed application for Track 1 to fund several interrelated climate resilience/pollution prevention projects
- Focus on leveraging NOAA application projects
 - OneWatershed strategy
 - Pipeline sustainable streets projects (EPA/Daly City/SSF)
 - Workforce Development Pilot Program
 - Schoolyard greening
- C/CAG will be lead applicant and CRC will be Statutory Partner
 - Additional partners (Canopy, Grass Roots Ecology, Nuestra Casa, YUCA, Green Schoolyards America, Count Office of Education, JobTrain, Rescape CA)



Preliminary Draft Scope/Budget:

No.	Strategy	Lead	Location	Bu	dget
	10neWatershed Community Change Infrastructure Planning and Implementation				
	a) Implementation (full or partial) of Sustainable Streets projects in East Palo Alto/Daly City/SSF	C/CAG	EPA/DC/SSF	\$	5,425,000
	c) San Bruno Walnut Pump Station Retrofit and Creek Restoration	OneShoreline	San Bruno	\$	5,725,000
	e) San Mateo Countywide OneWatershed Strategic Plan	C/CAG	Countywide	\$	265,000
	2Community Change Engagement Activities and Pilot Greening				
	Expand community capacity-building through rain gardens at residential properties and public	,	EPA/NFO/RWC/Daly		
	a) sites	CRC	City/San Bruno/SSF	\$	3,500,000
			School Distrticts in		
	Schoolyard tree-planting pilot projects/District Resilient Schoolyards Training + Symposium		eligible DACs		
	b)	Canopy/COE/GSA	countywide	\$	2,835,000
	3Community Change Workforce Development Pilot Program				
		JobTrain/Rescape/Cano			
	a) Pilot Green Workforce Development Program focusing on urban forestry and GSI maintenance	py	EPA/Menlo Park Pilot	\$	1,800,000
	4Grant Management/Administration				
	a) C/CAG Admin	C/CAG		\$	200,000
	b) Grant Management	C/CAG/Consultant		\$	250,000
			Grant Tota	al\$	20,000,000





Next Steps:

- Finalize scope and budget with project partners
- Develop grant application (leveraging EOA Task Order-17 for Fiscal Year 2024-25 not to exceed \$21,500) in partnership with CRC consultant lead
- Execute Partnership Agreement with CRC in November (C/CAG Board approval November 14)
- Submit application no later than November 21 via grants.gov



Rain Barrel Rebate Campaign

FY21-22 Pilot Bulk Order Campaign

- Two events San Mateo/Lyngso
- ~730 barrels distributed

FY22-23 Bulk Order Campaign

- Four events
 - Daly City
 - Millbrae
 - Redwood City
 - San Mateo
 - Estimated ~825 barrels

FY23-24 Bulk Order Campaign

- One event San Mateo
- ~300 barrels distributed





Rain Barrel Rebate Campaign

FY 24-25 Rain Barrel Campaign

- Two events
 - Hillsborough Town Hall Dec 7
 - San Carlos Corps Yard Dec 14

All residents of San Mateo County may participate

Estimated 600 barrels to be distributed

Will continue to program future years and seek new partner agencies to host sites





Any Questions?

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SAN MATED COUNTYWIDE
West Pollution
Prevention Program
Clean Water, Healthy Community.

Maga Source: http://estanahollaw.com/2020/03/02/sana-mateo-south/a-p.sa/s/s-gmergency-ordinance-establishing-paid-sick-leaya-foetha,-coronavi (assourd-19-pandomic).