

# Climate Action and Adaptation Plan 2022

Strategic Plan Development

May 13, 2022

# What will be covered

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- Climate Action Strategy Highlights 2013 - 2020
- Central Coast climate changes
- Regional & local climate action response
- County Climate Action and Adaptation Plan 2022 - initial planning
- Closing questions/comments

# Climate Action Strategy 2013-2020 Successes

- Central Coast Community Energy
- County Campus Solar Installation Projects
- County Energy Efficiency Upgrades
- Sustainable Santa Cruz County Planning Efforts

# Central Coast Climate Change Consequences

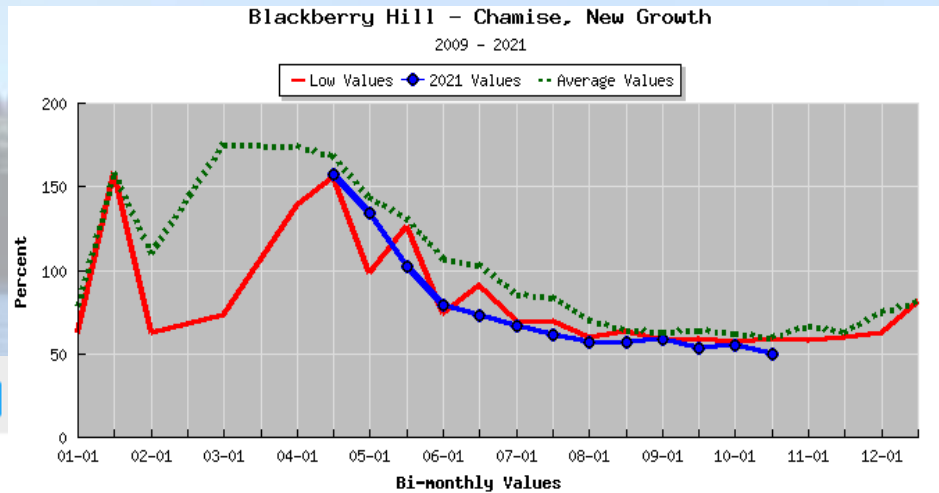
<b>Change</b>	<b>Effect</b>	<b>Outcome</b>
<b>Precipitation Patterns/ Extreme Weather</b>	Decreased Rainy Season Duration	Drought, fuel moisture levels, water supply
	Intensity of Rainfall Events	Winter Storm Events – Road/Infrastructure Damage
<b>Wildfires</b>	Regional	Increased days of unhealthy Air Quality Index (AQI) levels
	Local	Local resident impacts, property damage, potential loss of life, habitat and forest health impacts
<b>Temperature</b>	Average temperature increase	Increased number of days with extreme heat and summer fog

# What does climate change look like in our county?

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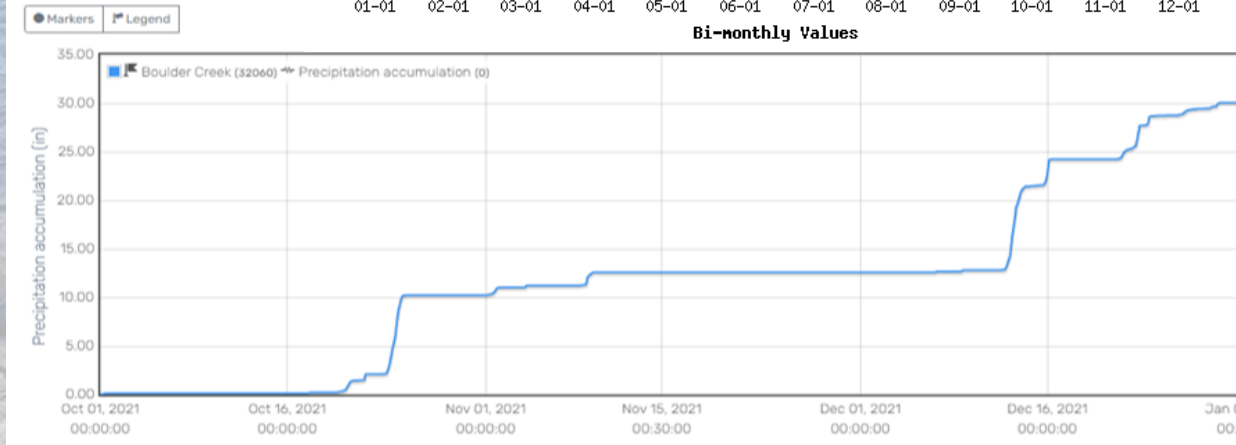


# Precipitation Patterns & Temperature Changes



- Duration of Rainy Season
- Precipitation Frequency, Intensity & Volume of Storm Events
- Changing Fog Patterns
- Increased Extreme Heat Events

01 October, 2021 - 05 January, 2022



# 2017 Storm Damage Impacts to County of Santa Cruz

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- Over 200 Damaged Sites
  - Close to \$150,000,000 in Damages
  - SB1 Funds – Used for Match –  
Nearly \$7,000,000
  - 91 Sites Completed To Date



# 2020 CZU Fire – Impacts to Santa Cruz County



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- 86,509 acres burned from August 16, 2020, to September 22, 2020
  - Costs of over \$20 million in road & infrastructure damage and recovery response support
  - 911 homes destroyed



# State Response – Fiscal Priorities

DRAFT California Climate Adaptation Strategy – released Oct 2021

**2021 Budget Act - \$15 billion over three years to support:**

Package	Funding (FY 2020-22)
Wildfire Resilience Expenditure Plan	\$1,524 million
Water Resilience Package	\$5,157 million
Climate Resilience Package	\$3,689 million
Sustainable Agriculture Package	\$1,100 million
Circular Economy	\$270 million
Cap and Trade Expenditure Plan	\$1,534 million (FY 2021-2022 only)

# Local Climate Action Response

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- City of Watsonville – Completed - 2030 Climate Action and Adaptation Plan
- City of Santa Cruz – In progress - Climate Action Plan 2030
- Opportunities
  - Alignment/collaboration on modeling
  - Greenhouse gas inventories
  - Equity framework

# Climate Action Strategy (CAS) 2013

## Key Elements

- Greenhouse Gas Emissions Inventories and Emissions Reductions Targets
- Proposed GHG Emissions Reduction Strategies
- Implementation of Emissions Reduction Strategies
- Vulnerability Assessment
- Risk Assessment
- Climate Adaptation Strategy

COUNTY OF SANTA CRUZ OFFICE OF  
Response, Recovery and Resilience



County of  
Santa Cruz

## Climate Action Strategy



Prepared by:

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Approved by:

County of Santa Cruz Board of Supervisors  
February 26, 2013

# Climate Action and Adaptation Plan(CAAP) 2022

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Over-arching goal is a plan with adaptation and mitigation strategies, founded upon the principles of equity, and actionable within the span of local government response

# What do we mean when we say...

## **Adaptation**

Anticipating (experiencing) adverse effects of climate change and **ADJUSTING** our government processes, infrastructure and our community to **minimize or prevent impacts**.

## **Mitigation**

Addressing impacts of climate change by **reducing emissions** of greenhouse gases (GHG) into the atmosphere.

## **Equity**

Environmental equity means **both protection from environmental hazards** as well as access to environmental benefits for all, regardless of income, race, and other characteristics. Climate change is expected to disproportionately affect low-income communities.

# CAAP Proposed Workplan Activities

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## Phase 1: Plan

- Scoping, team and resources
- Climate effects & community impacts/assets
- Equitable approach & engagement planning

## Phase 2: Assess

- Assess CAS Strategies
- GHG Inventory, Assessment of System sensitivities, Social Vulnerability Index

## Phase 3: Framework and Strategies

- Developing adaptation & mitigation strategies/frame works
- Draft Plan
- Outreach & engagement

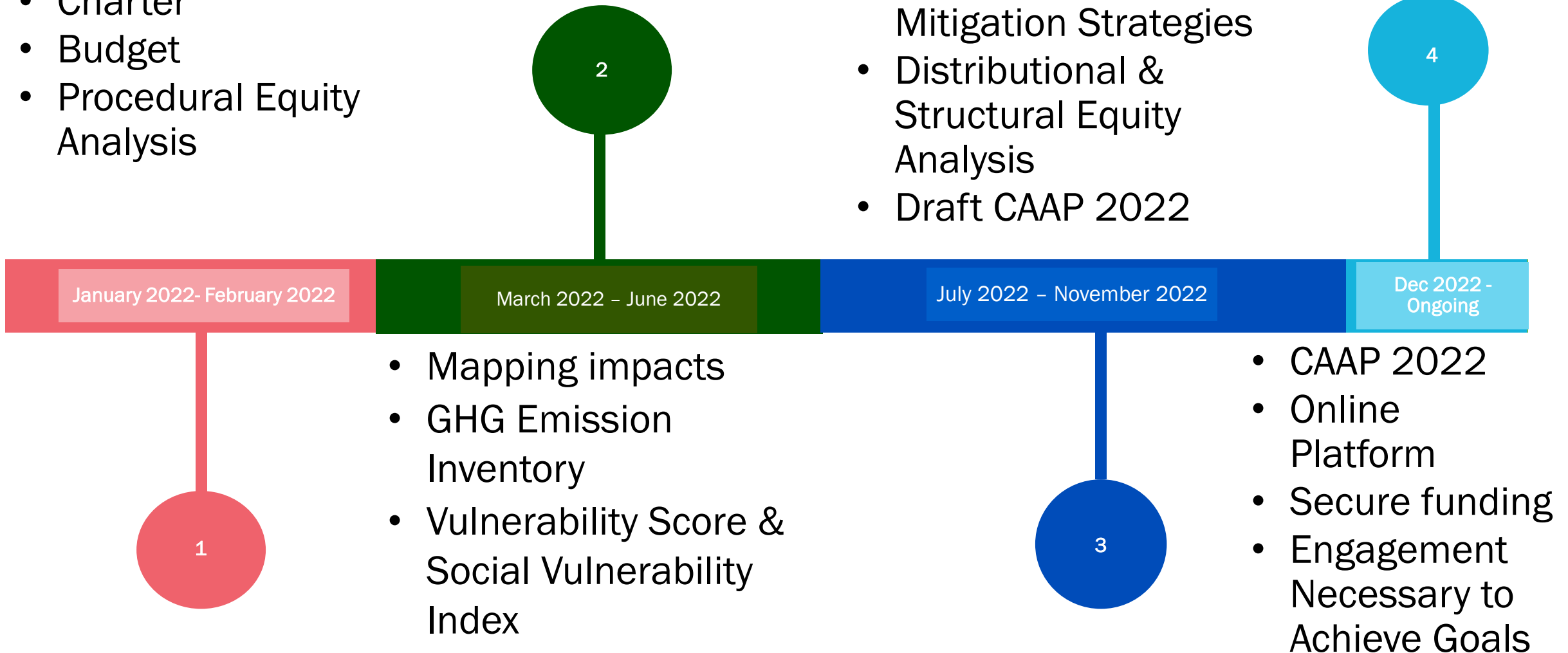
## Phase 4: Implement

- Implementation Plan for integrated, cross-departmental action including metrics
- Oversight & Accountability for Outcomes and Required Resources
- PDCA

# CAAP Proposed Workplan Timeline with Outcomes

- Project Team
- Charter
- Budget
- Procedural Equity Analysis

- Outcomes & Metrics
- Adaptation & Mitigation Strategies
- Distributional & Structural Equity Analysis
- Draft CAAP 2022



# Collaborative Planning

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- Scoping with CAO Carlos Palacios & ACAO Elissa Benson & Departments
- CAAP Steering Committee
- CAAP Workgroups: Built Environment, Community & Economy and Natural Environment
- Commission on Environment
- Drought Working Group
- Agricultural Commission
- County Administrative Office
- Department of Public Works
- General Services Department
- Health Services Department (including Environmental Health)
- Human Services Department (including Workforce Development Board)
- Parks Department
- Personnel Department
- Planning Department
- Probation Department
- Sherriff's Department



# Priority Areas – Initial Ideas

Focus Areas
<b>Water &amp; Energy</b> – microgrid development, water supply issues
<b>Land Use</b> – high density transit corridors, impacts of coastal erosion
<b>Carbon Reduction</b> – develop carbon sinks and carbon sequestration capacity
<b>Electrification</b> – new homes, rental homes, County fleet, charging stations
<b>Workforce</b> – training programs in HVAC and electrical skills
<b>Disaster Preparedness</b> – cooling centers
<b>Policy within the county</b> – lower Ag emissions, sustainable public transit
<b>Food Systems /Waste</b> – County facilities waste management, decreased meat purchase

# Questions?

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