

Stockton Region Comprehensive Climate Action and Adaptation Plan (CCAAP)

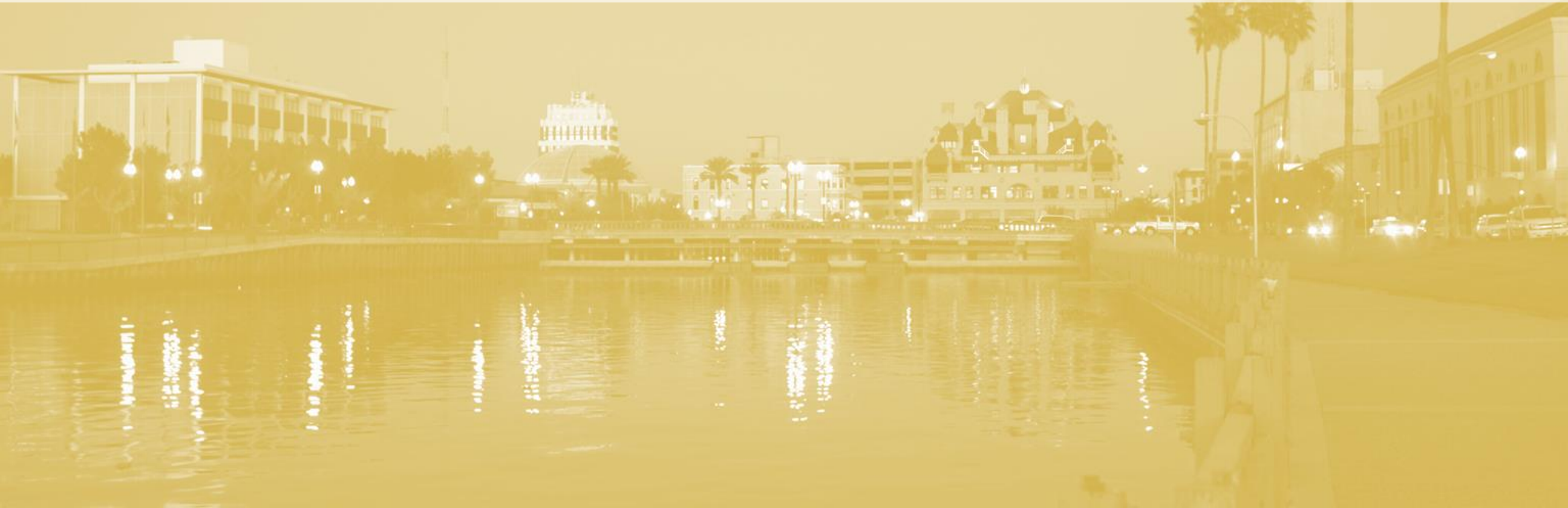
Climate Action Plan Advisory Committee #1

Friday, August 1st

Table of Contents

- Welcome and Introductions
- Introduction to the Comprehensive Climate Action and Adaptation Plan (CCAAP)
- GHG Inventory Introduction
- Draft GHG Action Development
- Next Steps

Welcome and Introductions



Welcome and Introductions



City of Stockton

Shalilah Bess

Grant Kirkpatrick

Oluchi Njoku



AECOM

Shelley Jiang

Josh Lathan

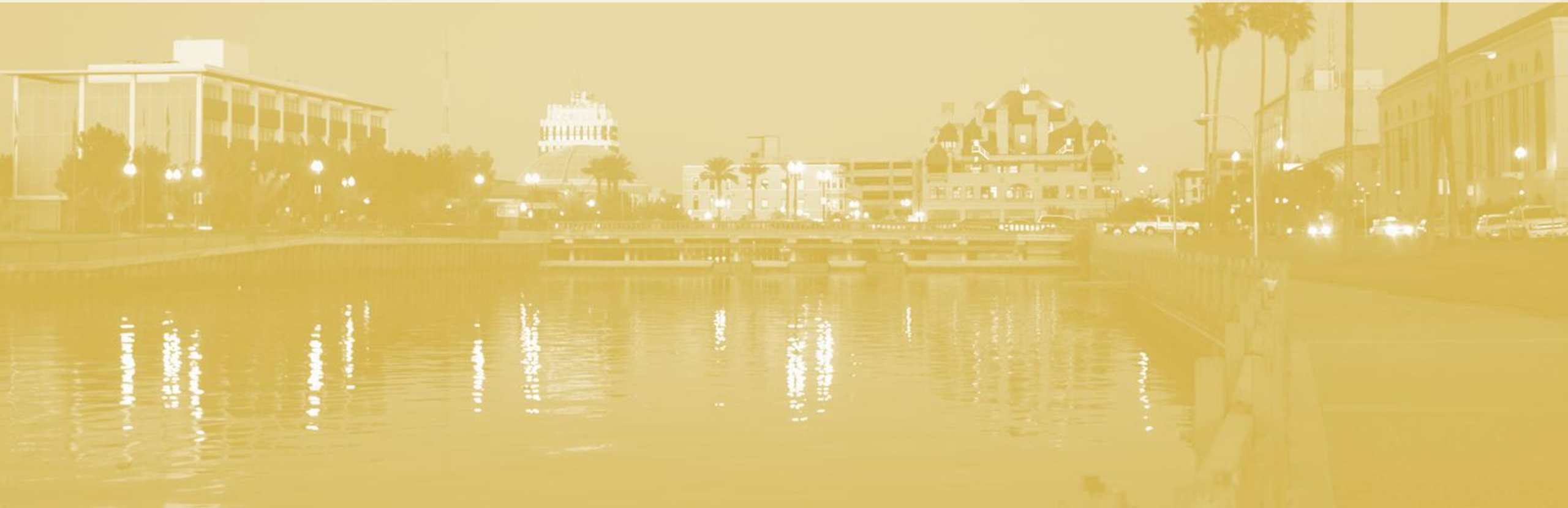
Vanessa Goh



Little Manila Rising

Jasmine Peterson

Introduction to the Comprehensive Climate Action and Adaptation Plan (CCAAP)



CCAAP Objectives



Reduce regional
greenhouse gas (GHG)
emissions



Build **resiliency** against
climate hazards



Center **climate justice**



Prioritize **community**
involvement



Support action
implementation

Primary CCAAP Components



Develop regional GHG inventory and forecasts



Set GHG reduction targets



Assess climate vulnerabilities



Develop climate actions



Estimate action benefits and impacts



Plan for implementation

Additional CCAAP Analysis

Analysis	Steps/Deliverables
Co-pollutants	<ul style="list-style-type: none"> • Criteria air pollutant and hazardous air pollutant base year inventory and forecast • Co-pollutant reductions per GHG measure
Community co-benefits	<ul style="list-style-type: none"> • 10 co-benefit criteria (e.g., public health, utility costs, ecosystem services, etc.) • Qualitative co-benefit analysis per GHG reduction measure
Low-income and disadvantaged communities (LIDAC) Analysis	<ul style="list-style-type: none"> • LIDAC identification • Qualitative co-benefit analysis per GHG reduction measure in LIDACs • Quantitative GHG and co-pollutant reductions in LIDACs
Workforce development	<ul style="list-style-type: none"> • Workforce development assessment memo
Funding & financing	<ul style="list-style-type: none"> • Applicable federal and state funding source identification

CCAAP Structure

The CCAAP addresses climate change in two ways:

Climate Mitigation:

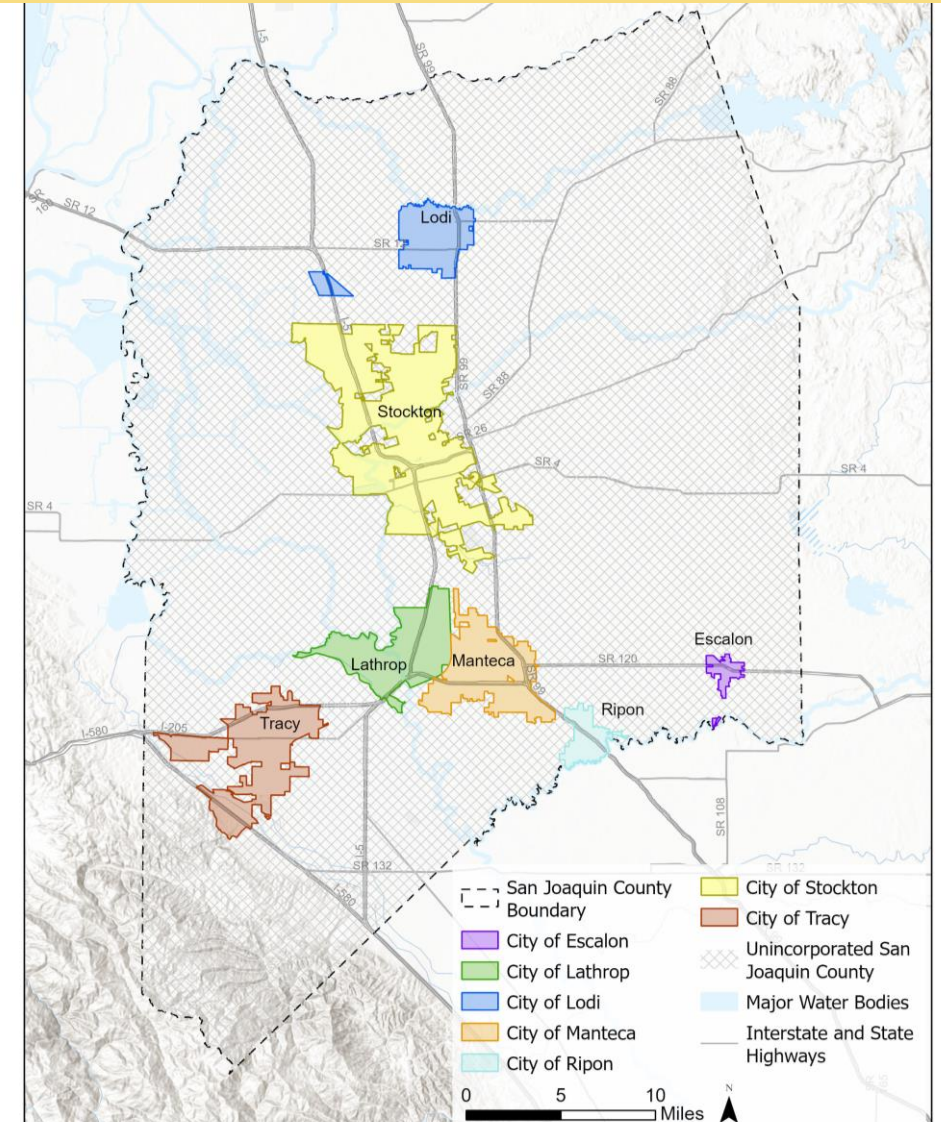
Reducing GHGs we put into atmosphere

Encompasses **City of Stockton, unincorporated San Joaquin County, and other cities in the County**

Climate Adaptation:

Adapting to impacts of climate change, such as extreme heat, droughts, and flooding

Focus is on **City of Stockton**



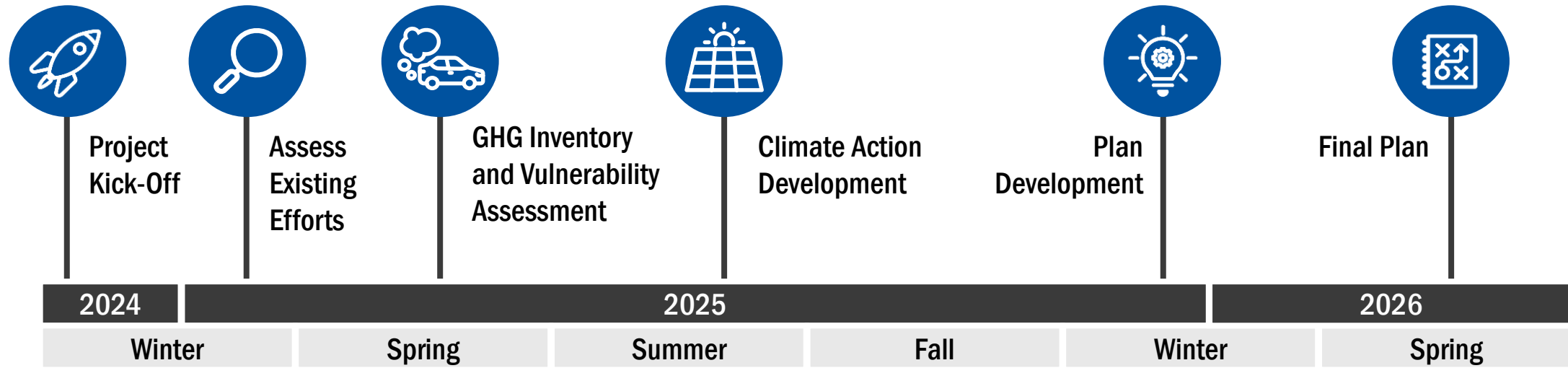
How is the CCAAP funded?

- **U.S. EPA's Climate Pollution Reduction Grant (CPRG) program** - Awarded to metropolitan statistical areas to develop CAPs and Status Reports
- **California Governor's Office of Land Use and Climate Initiatives' Adaptation Planning Grant (APG) Program** - Supports communities to identify climate resilience priorities and develop a pipeline of resilient infrastructure projects, prioritizing equity and integrated social and physical infrastructure planning



Each grant has specific program requirements that inform the scope of the CCAAP

Schedule Overview



GHG Inventory and Forecasting



Climate Vulnerability Assessment



Action Development and Analysis



Community Engagement

Equitable Engagement



Partner with Little Manila Rising to lead community engagement events throughout San Joaquin County

Targeted Stakeholder Outreach

CCAAP Project Collaborators

- Quarterly meetings to guide project progress
- City departments, inter- and regional-agency staff, municipal partners

Stakeholder Interviews

- Hear lived experiences to inform plan
- Resident/community groups, City depts, agency partners, regional agencies

Public Outreach

Community Workshops & Surveys

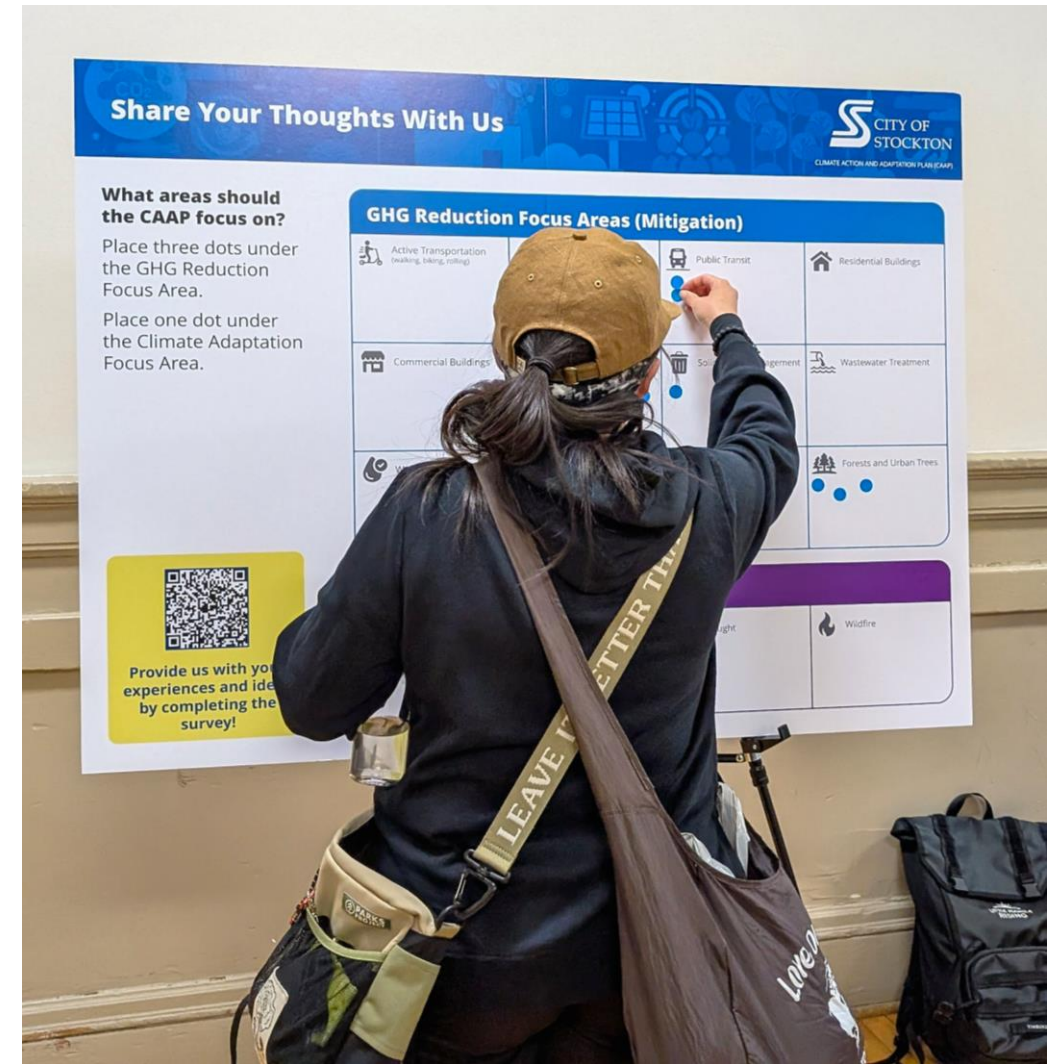
- Learn about project and provide input into strategies, actions, and prioritization
- Residents and members of the public

Community Meetings & Events

- Bring project to existing community events and CBO meetings
- Reach residents where they are

Past Engagement Events

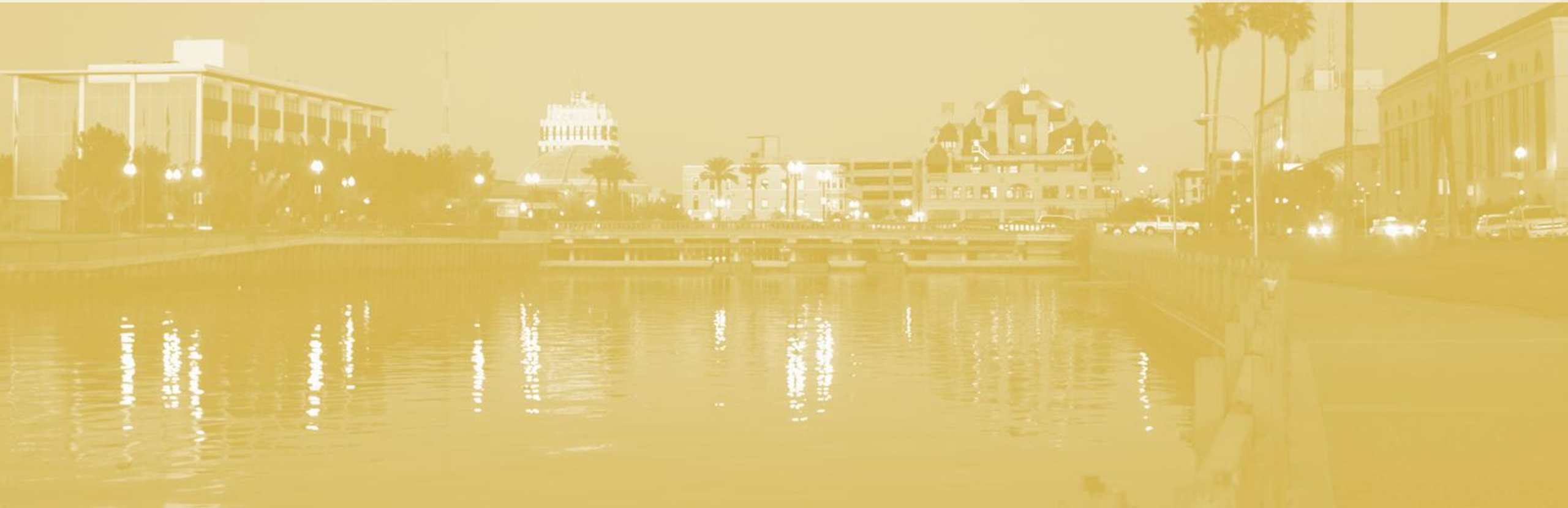
- **Community workshop #1:**
April 23, City of Stockton
- **Community survey #1**
- **Community events, including:**
 - Earth Day – Stockton (April)
 - Rise Stockton – Stockton (May)
 - State of the City – Stockton (June)
 - Music on Maple – Manteca (July)
 - Sustainable Neighborhood Action Plan events – Stockton and Lodi (July)
- **Regional partners:** Regional partners meeting in May, Cities of Lodi and Manteca in June



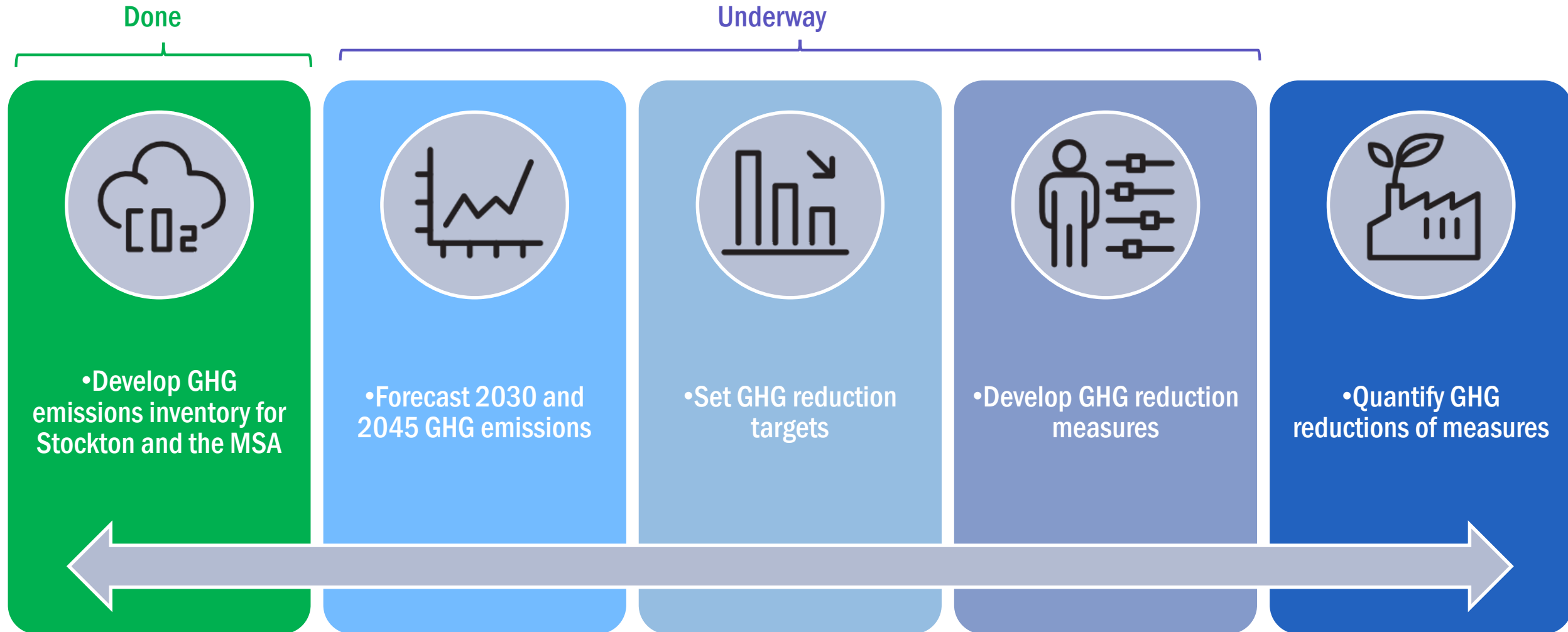
CAPAC Meetings & Tentative Topics

- **#1 – Aug 2025:** Kickoff, GHG inventory review, draft action development
- **#2 – Sep 2025:** Review draft action feedback, finalize actions
- **#3 – Oct 2025:** Review co-pollutants, LIDAC analysis, climate vulnerability assessment
- **#4 – Nov 2025:** Review workforce planning analysis, funding & financing, and action prioritization
- **#5 – Dec 2025:** Review Draft CCAAP, discuss implementation roadmaps
- **#6 – Jan 2026:** Review Draft CCAAP, discuss implementation roadmaps
- **#7 – Feb 2026:** Discuss next steps following CCAAP adoption

GHG Inventory Introduction



Greenhouse Gas Emissions Analysis Steps



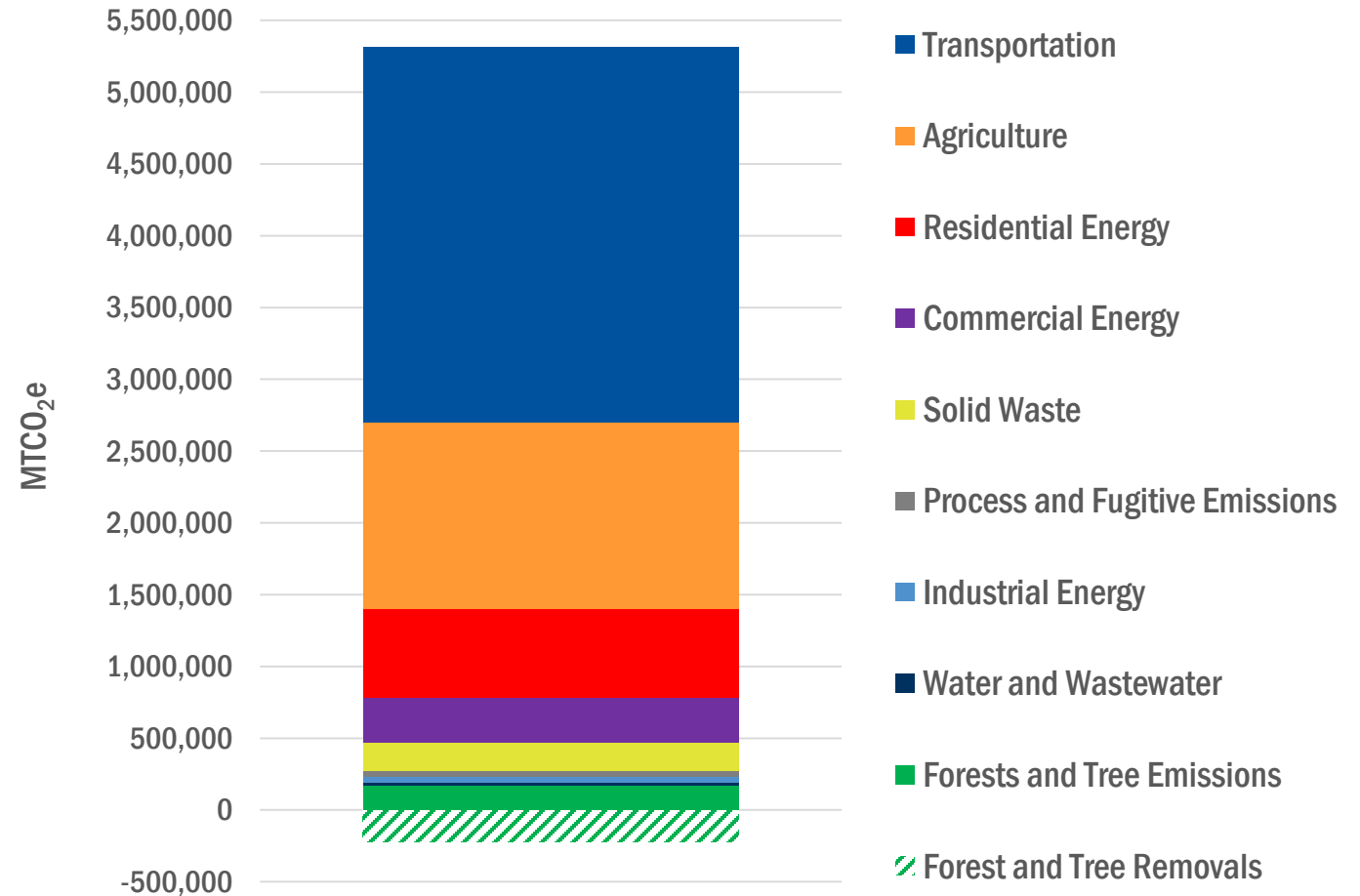
GHG Inventory Development

GHG Inventory Development Steps:

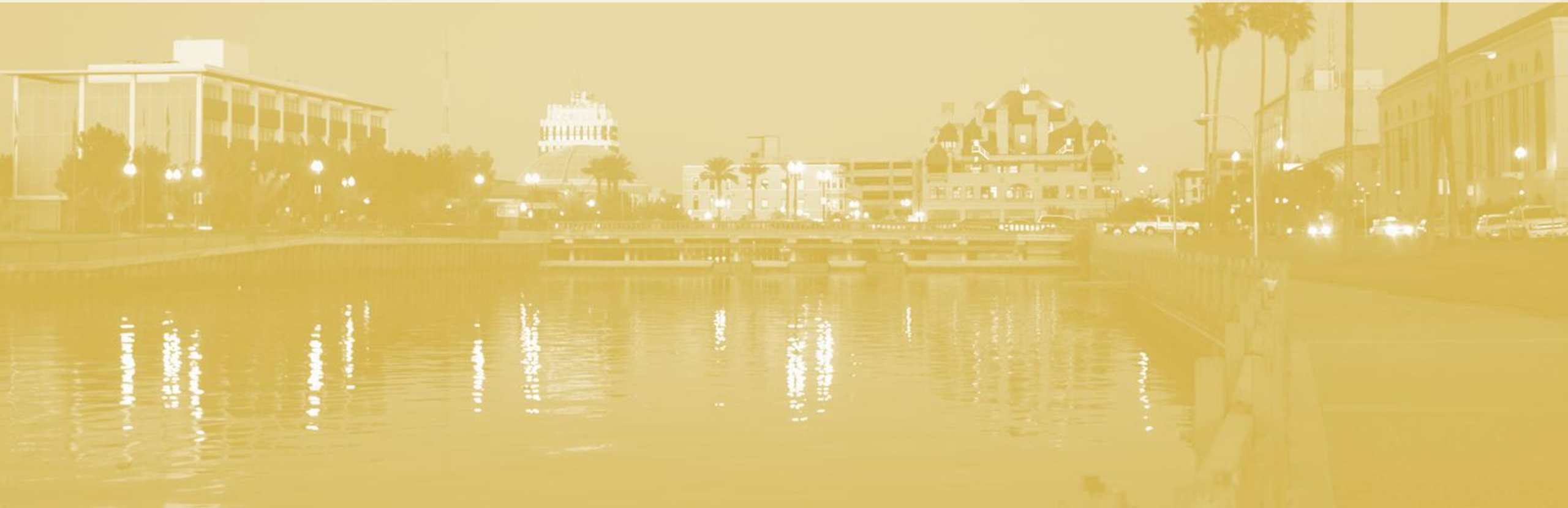
1. **Collected or estimated activity data and emissions factors**
 - County-wide electricity and natural gas use data provided by PG&E
 - Additional electricity data provided by Lodi Electric, Lathrop Irrigation District, and Ava Community Energy
 - Vehicle miles traveled (VMT) from 2021 regional SJCOG travel forecasting model, which was updated to reflect 2022 conditions by adding land use developed from 2016 – 2022
 - Agriculture emissions are from USDA National Agricultural Statistics Service Census and EPA Sate Inventory Tool data
 - Landfill data from CalRecycle
2. **Entered activity data and emissions factors into ICLEI USA ClearPath inventory tool to calculate GHG emissions**

Where do the region's GHG emissions come from?

- Chart shows draft San Joaquin county-wide 2022 GHG emissions inventory
- Emissions are primarily from **Transportation (51%)**, **Agriculture (25%)**, and **Residential Buildings (12%)**
- Transportation emissions are mainly from on-road vehicle fuel use, agricultural emissions mainly from livestock, and residential emissions mainly from natural gas use



Draft GHG Action Development



Action Development Overview

1. Reviewed existing CAPs or planning documents across region (e.g., Stockton CAP and General Plan, Lodi CAP, Tracy Sustainability Action Plan, etc.)
2. Integrated California Air Pollution Control Officers Association Handbook measures
 - Focused on sectors that generate high levels of GHGs (e.g., Transportation)
3. Interviewed action implementers (e.g., city staff) on existing and new actions

Result: Draft list of 44 actions

Action Sectors and # of Actions

- **Transportation – Mode Shift/VMT Reduction: 16**
- **Transportation – Zero Emission Vehicles: 6**
- **Waste: 6**
- **Building Energy: 2**
- **Electricity Generation: 3**
- **Off-road: 3**
- **Water Supply: 3**
- **Agriculture: 2**
- **Sequestration: 2**
- **Cross-Cutting: 1**

Meeting #1 Objective

Objective: Select **40 draft actions** to share at the next public workshop and to advance for further analysis.

- i. Which actions should be **removed** (not included in CCAAP) or **de-prioritized** (included in CCAAP but not further analyzed/developed)?
- ii. **Should any new actions be added?** Note: If we are adding actions, we also need to remove/de-prioritize other actions

After the 40 draft actions are selected:

- Community members and action implementers will review and provide feedback on draft list through meetings and a survey
- List will be finalized during CAPAC meeting #2 (September) based on public/implementer feedback and CAPAC direction for further analysis

Actions – Building Energy (BE) & Electricity Generation (EG)

#	Action*	
BE.1	Upgrade public outdoor lighting (street/traffic lights)	
BE.2	Promote existing incentives for energy efficient and electric building equipment (e.g., utility incentives)	
EG.1	Install solar on local government properties	
EG.2	Streamline solar installation process (incentives, education, permitting, etc.)	
EG.3	Join Community Choice Energy program (Ava Community Energy)	
	New Actions?	

**See action excel sheet for detailed description of each action*

Actions – Transportation – Mode Shift/VMT Reduction

#	Action*	
T.1	Improve pedestrian network	
T.2	Expand bike networks and facilities	
T.3	Expand electric bikeshare program	
T.4	Develop and implement Safe Routes to School Plan	
T.5	Establish a school bus program	
T.6	Improve transit service and frequency	
T.7	Provide transit pass and incentives	
T.8	Provide last-mile solutions to transit (e.g., active transport infrastructure)	
T.9	Expand carpool/vanpool and carshare programs	

#	Action*	
T.10	Support rail expansion	
T.11	Incentivize infill development	
T.12	Establish Transit-Oriented Development overlay zones	
T.13	Revise parking standards (shared parking, preferred parking, etc.)	
T.14	Improve traffic signaling (e.g., transit signal priority)	
T.15	Create community-based travel education program	
T.16	Incorporate TDM elements in new developments	
	New actions?	

Actions – Transportation – Zero Emission Vehicles

#	Action*	
T.17	Convert municipal fleets to cleaner fuels	
T.18	Convert buses to cleaner fuels	
T.19	Provide public EV chargers	
T.20	Install Hydrogen fueling infrastructure	
T.21	Develop a regional freight plan	
T.22	Develop warehouse freight truck requirements in new projects	
	New Actions?	

**See action excel sheet for detailed description of each action*

Actions – Waste

#	Action*	
W.1	Provide outreach and education on recycling and composting programs	
W.2	Provide assistance for food recovery programs	
W.3	Develop waste diversion enforcement program	
W.4	Increase construction and demolition waste diversion requirements	
W.5	Require sustainable local government purchasing practices	
W.6	Collect and use biogas at landfills and wastewater treatment plants	
	New Actions?	

**See action excel sheet for detailed description of each action*

Actions – Off-road (OR) and Water Supply (WS)

#	Action*	
OR.1	Promote the use of cleaner-fuel off-road equipment	
OR.2	Require cleaner-fuel off-road equipment for new development	
OR.3	Use cleaner-fuel off-road equipment for municipal operations	
WS.1	Require water efficiency in new commercial developments and renovations	
WS.2	Install smart meters	
WS.3	Use recycled water	
	New Actions?	

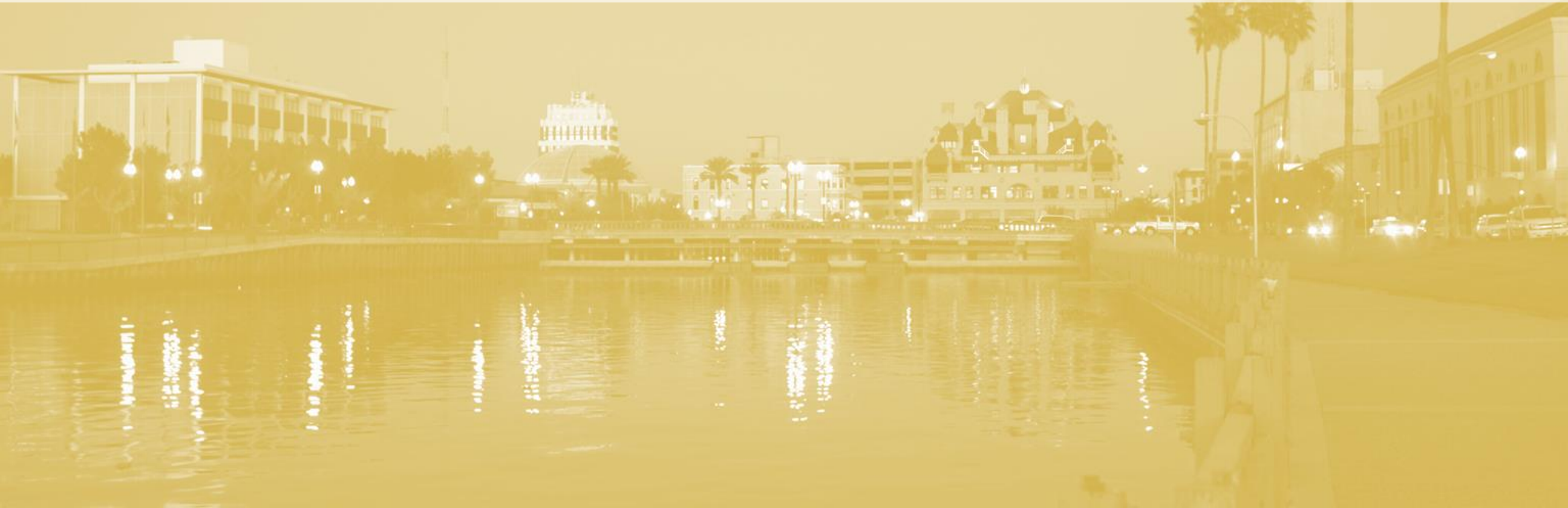
**See action excel sheet for detailed description of each action*

Actions – Agriculture (A), Sequestration (S), & Cross-cutting (C)

#	Action*	
A.1	Implement best management practices for manure management	
A.2	Implement best management practices to improve the health and function of agricultural lands	
S.1	Expand urban tree planting	
S.2	Increase public parks	
C.1	Develop a one-stop-shop for climate action resources	
	New Actions?	

**See action excel sheet for detailed description of each action*

Next Steps



Next Steps

01

Attend and Promote
Community Workshop #2 on
August 13th

4:00pm - 8:00pm

Lathrop Community Center

02

Promote Survey #2

Timing TBD

03

CAPAC Meeting #2 – Finalize
CCAAP Actions **September
2025**

Time TBD

Thank you!

