

Welcome and Goals and Agenda

Learn about community concerns and acade work

Provide opportunities for creating partnerships for positions
 change

 Deepening our networking and developing meaningful collaborations following principles of community-based research

Agenda:

11:00 Welcome and Goals (Iris Stewart-Frey, SCU)

11:10: Panel Presentations (Martha Armas-Kelly, CC) + Q&A

12:05: Break

12:10 - 12:50 pm Breakout groups (Alec Castellano, CC)

12:50: Report back and closing (Edgar Garibay, TRT)





1. Planning for Climate Change in the Northern SJV Charles (C.J.) Gabbe, Santa Clara University

C.J. Gabbe is an assistant professor in Santa Clara University's Department of Environmental Studies and Sciences. C.J.'s research is organized around three foundational issues in urban planning: (1) land use regulatory effectiveness and design; (2) housing and environmental quality; and (3) climate change vulnerability. He teaches courses related to sustainable urban planning, environmental policy, and geographic information systems (GIS).

C.J. has a Ph.D. in Urban Planning from UCLA and a Master of Urban Planning degree from the University of Washington. He is also a member of the American Institute of Certified Planners (AICP) and has more than 10 years of professional experience in planning and public policy.





Planning for Climate Change in the Northern San Joaquin Valley

C.J. Gabbe

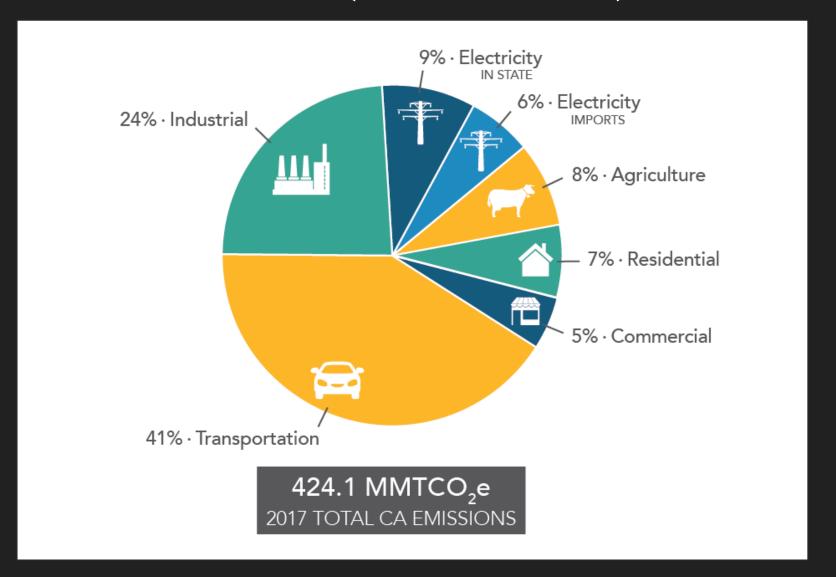
Voices of the Community workshop | October 15, 2020 cgabbe@scu.edu | @CJGabbe



Overview

- 1. Reducing greenhouse gas emissions
- 2. Adapting to climate change
- 3. Opportunities for advocacy & research

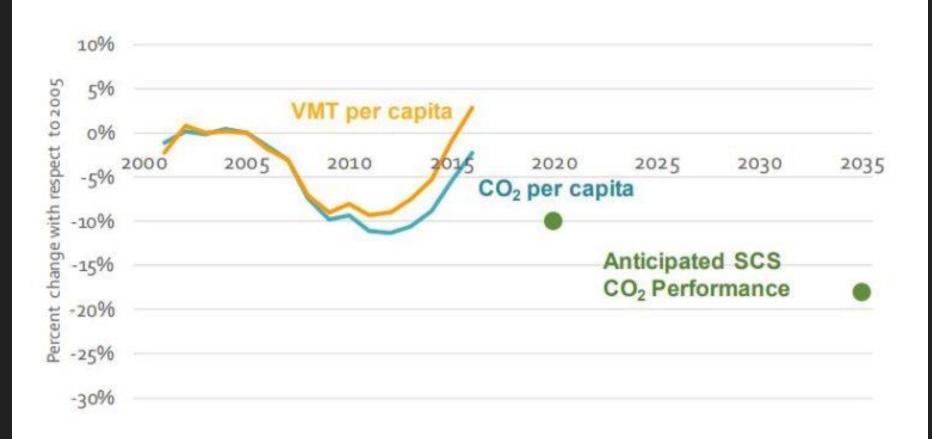
GHGs (California)



Reducing emissions from transportation

- 1. Fuel switching
- 2. Fuel efficiency
- 3. Operating practices
- 4. Reducing travel demand (vehicle miles traveled)

Statewide CO₂ and Vehicle Miles Traveled (VMT) Per Capita Trend with Respect to Anticipated Performance of Current SB 375 SCSs²



Source: CDTFA, U.S.EIA, U.S.EPA, CARB

Plans to coordinate land use, transportation, and housing





2035 reduction targets* San Joaquin 16% Stanislaus 16%

Co-benefits beyond reducing VMT

Environment

- Lower building energy and water use
- Smaller urban footprint/reduce farmland loss
- Less impervious surface

Social equity

- Housing choices and affordability
- Better access to economic opportunities
- Decreased segregation and inequality
- Improved health outcomes

Contents lists available at ScienceDirect

Land Use Policy

journal homepage: www.elsevier.com/locate/landuse

Research-Based Article

Why Are Regulations Changed? A Parcel Analysis of Upzoning in Los Angeles

Journal of Planning Education and Research 1–12 © The Author(s) 2017 Reprints and permissions: sagepub.com/journalsPermissions.nav DOI: 10.1177/0739456X17696034 jpe.sagepub.com

> Routledge Taylor & Francis Grou

\$SAGE

C. J. Gabbe¹

Local regulatory responses during a regional housing shortage: An analysis of rezonings in Silicon Valley



C.J. Gabbe

Department of Environmental Studies and Sciences, Santa Clara University,

HOUSING POLICY DEBATE, 2017 https://doi.org/10.1080/10511482.2017.1368031





How Do Developers Respond to Land Use Regulations? An Analysis of New Housing in Los Angeles

C. J. Gabbe

Department of Environmental Studies and Sciences Santa Clara University, CA, USA





Journal of the American Planning Association

ISSN: 0194-4363 (Print) 1939-0130 (Online) Journal homepage: https://www.tandfo

Changing Residential Land Use Regulation Address High Housing Prices

C. J. Gabbe



Housing Policy Debate

ISSN: 1051-1482 (Print) 2152-050X (Online) Journal homepage: http://www.tandfonline.com/loi/rhpd20

Hidden Costs and Deadweight Losses: Bundled Parking and Residential Rents in the Metropolitan United States

C. J. Gabbe & Gregory Pierce

The need for climate adaptation

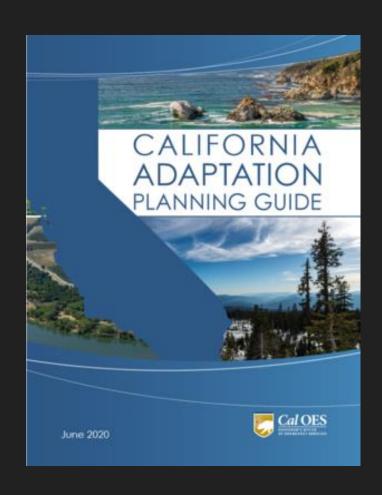


Image: https://www.recordnet.com/news/20180730/thick-smoke-blanketing-stockton-san-joaquin-county

Adaptation in California

Key issues

- Water supply and drought
- Extreme heat
- Sea level rise
- Flooding
- Wildfires



Extreme heat

HOUSING POLICY DEBATE https://doi.org/10.1080/10511482.2020.1768574



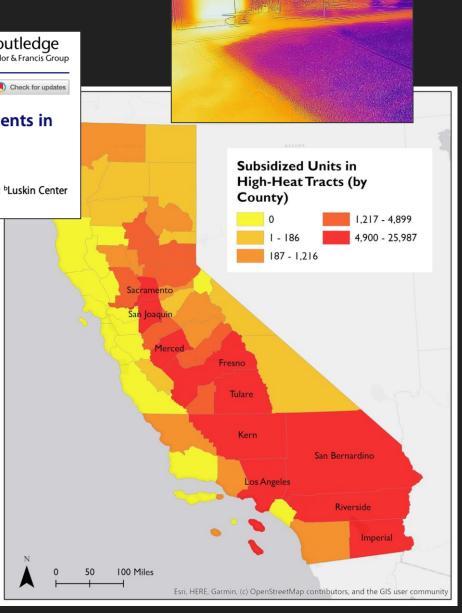


Extreme Heat Vulnerability of Subsidized Housing Residents in California

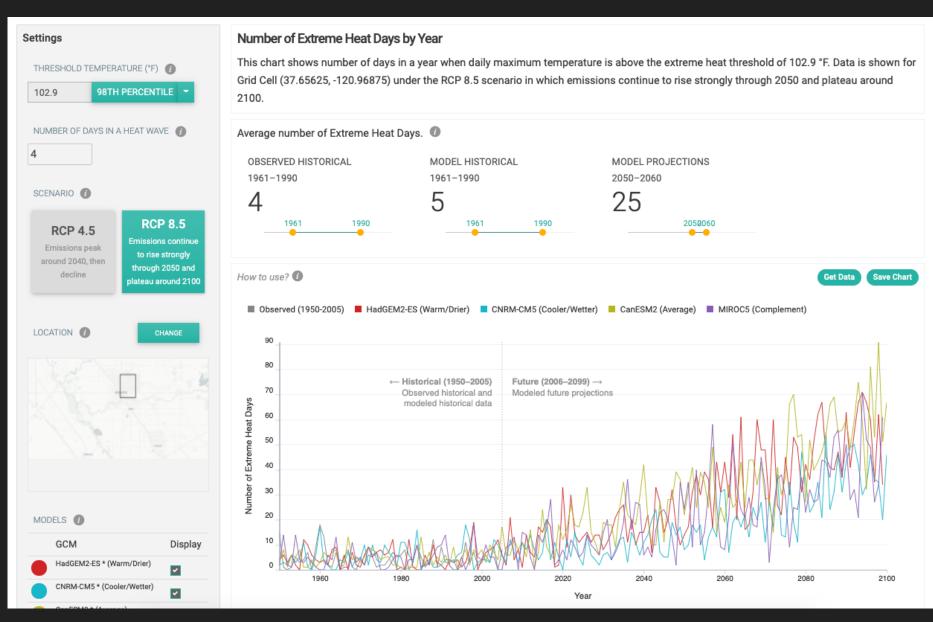
C. J. Gabbe^a and Gregory Pierce^b

^aDepartment of Environmental Studies and Sciences, Santa Clara University, Santa Clara, CA, USA; ^bLuskin Center for Innovation, Luskin School of Public Affairs, University of California, Los Angeles, CA, USA

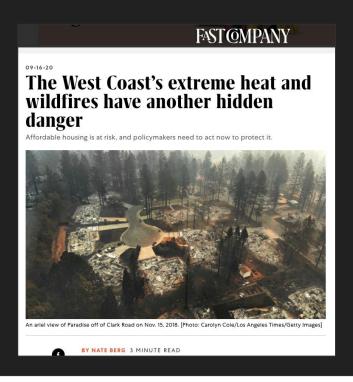




Extreme heat in Modesto



Wildfires



Environmental Management https://doi.org/10.1007/s00267-020-01340-2

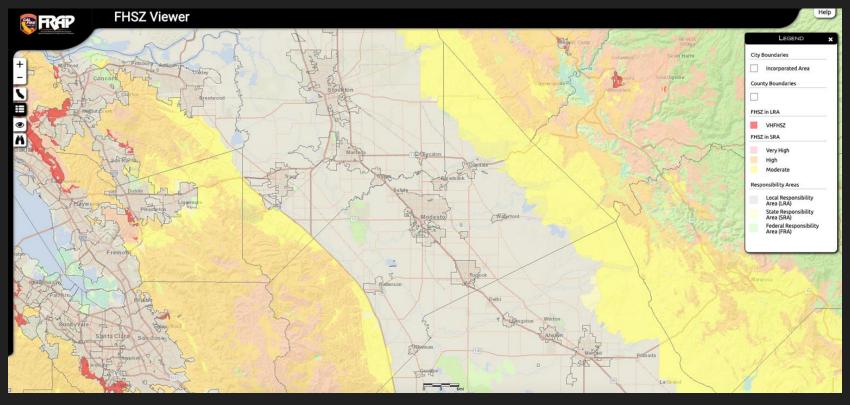




Subsidized Households and Wildfire Hazards in California

C. J. Gabbe 1 · Gregory Pierce · Efren Oxlaj 1

Received: 20 November 2019 / Accepted: 17 July 2020 © Springer Science+Business Media, LLC, part of Springer Nature 2020





Opportunities for advocacy & research

- Effects of land use & housing policies
- Disparities in vulnerability to climate hazards
- Efficacy of potential solutions



THANK YOU!

C.J. Gabbe

Voices of the Community workshop | October 15, 2020 cgabbe@scu.edu | **∑** @CJGabbe



2. Organizing for air quality in the San Joaquin Valley Nayamin Martinez, Director Central California Environmental Justice Network (CCEJN)

Prior to joining CCEJN, Ms. Martinez worked for the Madera County Public Health Department as a Health Education Coordinator and for ten years was the Health Projects Coordinator for the Binational Center for the Development of the Oaxacan Indigenous Communities.

Ms. Martinez has vast experience working with immigrants and residents of disadvantaged communities across the San Joaquin Valley managing public health programs; conducting participatory research and launching leadership and civic engagement programs.

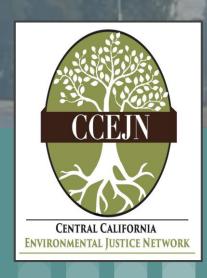
Ms. Martinez serves in various advisory groups including the "Environmental Justice Advisory Group of the San Joaquin Valley Air Pollution Control District"; the "Community Stakeholders Advisory Committee" of the UCD Environmental Health Science Core Center. Recently she was invited to join the working group for the cancellation of Chlorpyrifos. Ms. Martinez holds a Master's Degree in both Public Health and Sociology.



Organizing for air quality in the San Joaquin Valley

By Nayamin Martinez, MPH





STATE A R



PEOPLE AT RISK IN CITIES MOST POLLUTED BY PM2.5

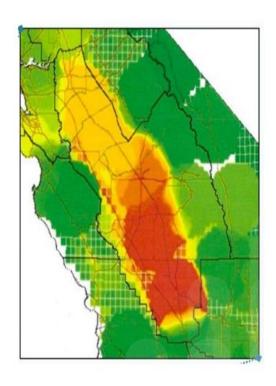
#1: Bakersfield, CA

#2: Fresno-Madera, CA

#2: Visalia-Porterville-Hanford, CA

#4: Modesto-Merced, CA

#5: Fairbanks, AK



OZONE POLLUTION 2016

#1: Los Angeles-Long Beach, CA

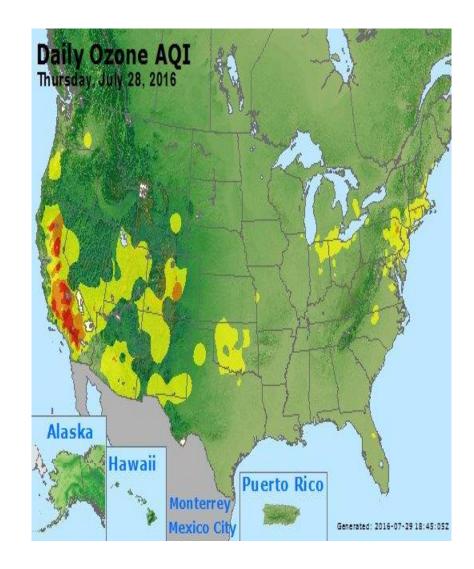
#2: Bakersfield, CA

#3: Fresno-Madera, CA

#4: Visalia-Porterville-Hanford, CA

#5: Phoenix-Mesa-Scottsdale, AZ





Central Valley of California

- Main sources of pollution:
 - Pesticides & fertilizers
 - Oil & Gas
 - Dairies
 - Waste disposal facilities
 - Biomass Facilities
 - Highways (99 & 5)
 - Warehouses





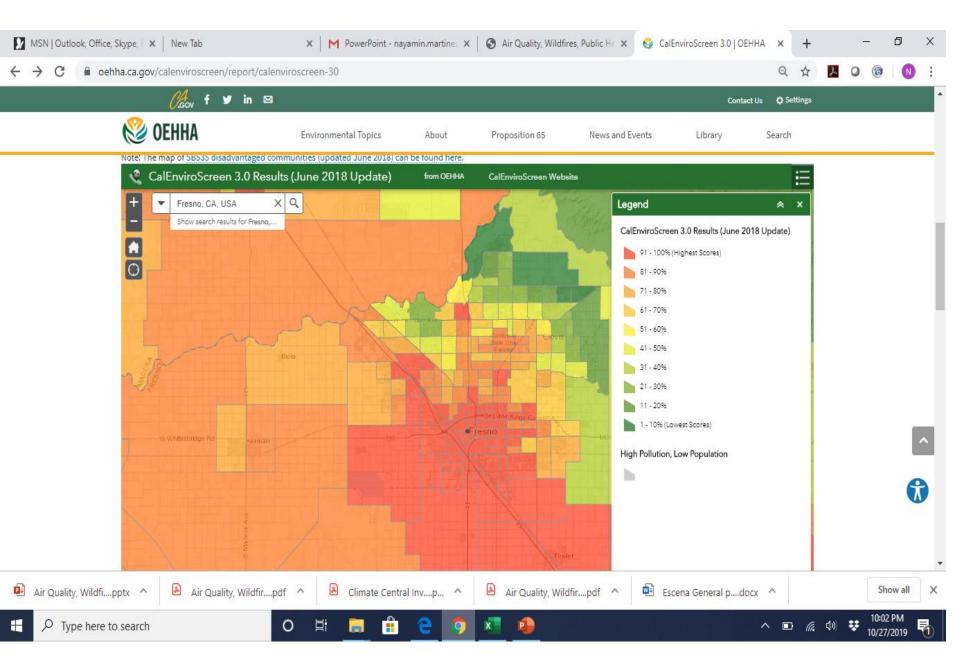




Most pollution is homegrown



Environmental Justice



Environmental Justice

North Fresno

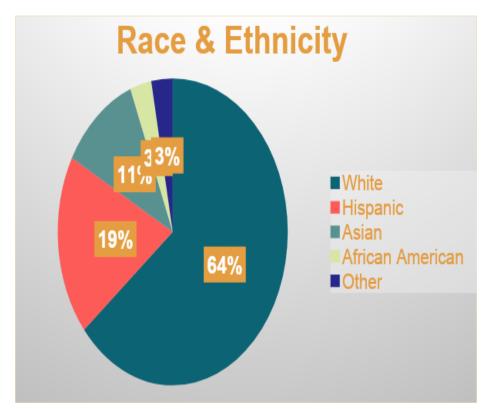
Ozone: 98 PM2.5: 97 Diesel: 58

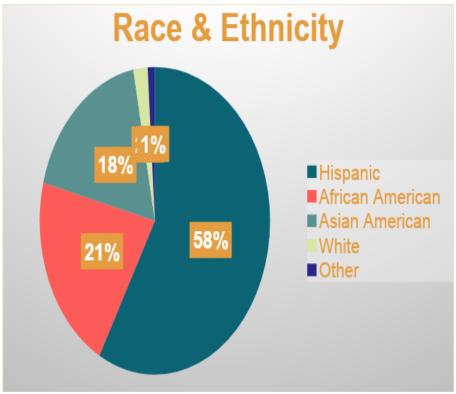
Asthma: 34 Poverty: 24

South Fresno

Ozone: 98 PM2.5: 97 Diesel: 95

Asthma: 98 Poverty: 98







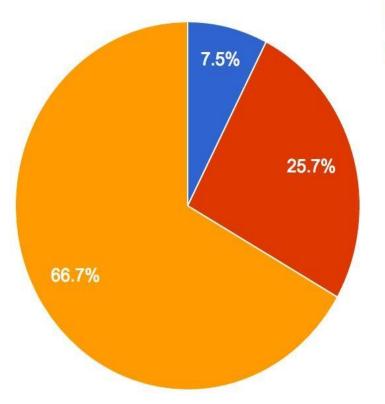
Biomass Incinerator

Glass Factory

Distribution Center



PM2.5 Emissions (ton) by Facility

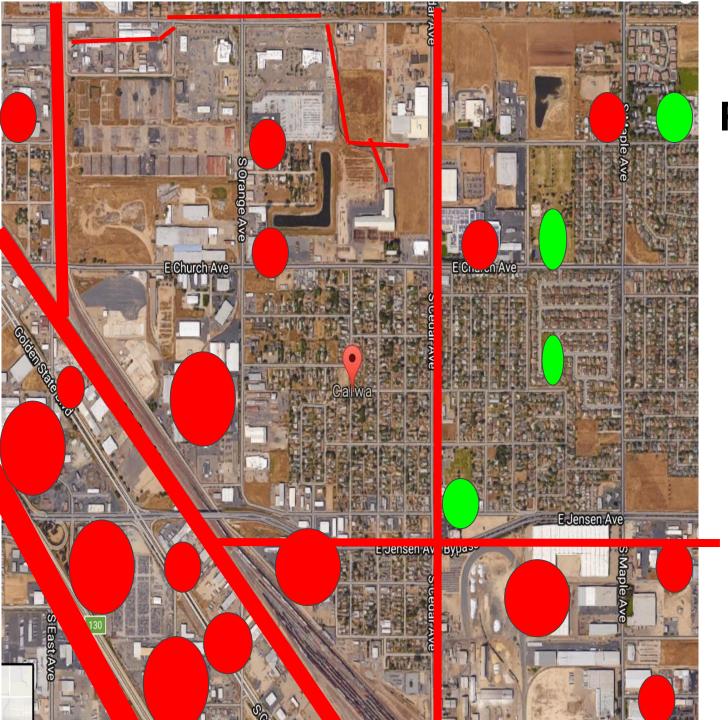


Malaga Power, LLC

- Rio Bravo Fresno

BIOMASS PPG Industries Inc. INCINERATOR





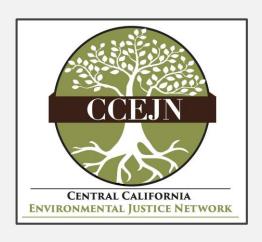
AIR POLLUTION

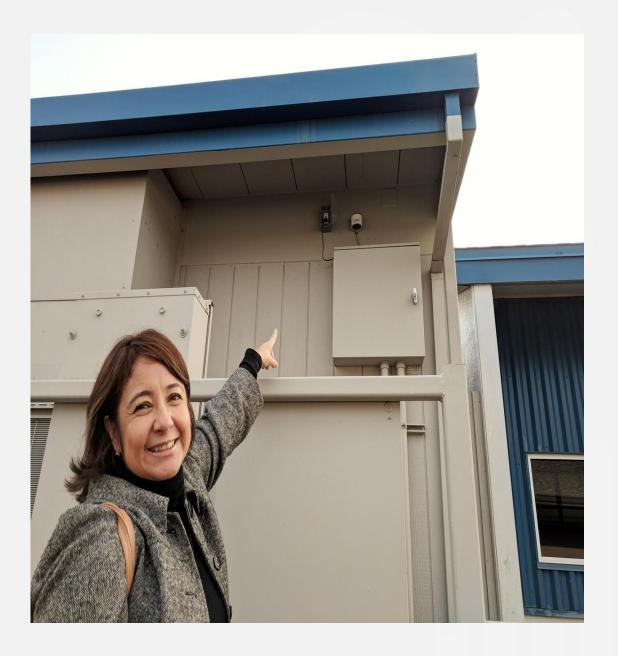




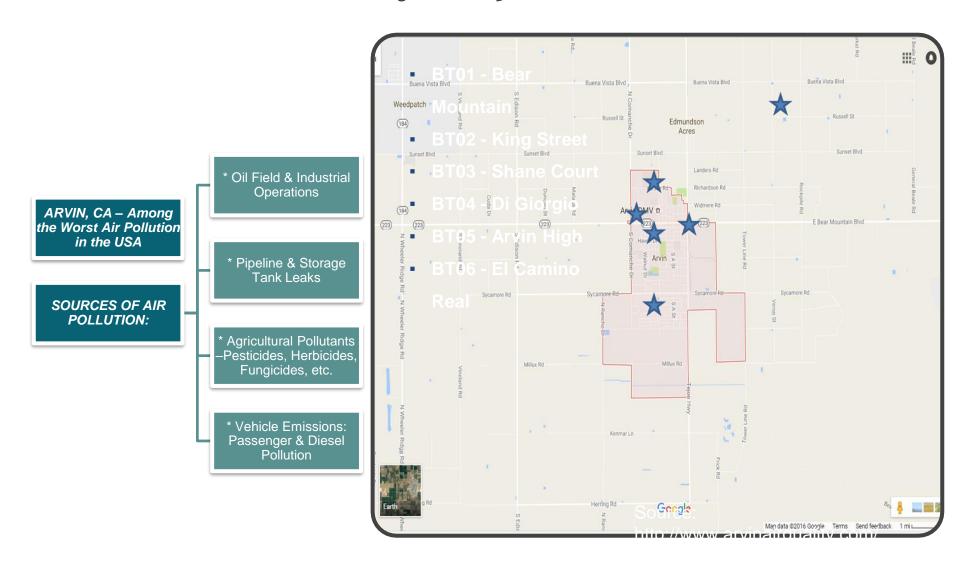


Community Air Monitoring Work





Arvin Air Quality Project.



Why Community Air Monitoring?

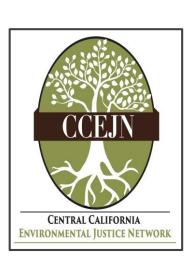
- We have very few Regulatory Monitors because they are very expensive
- Air quality can change from one hour to the next depend on wind, weather conditions, pollution emissions
- To identify Hot Spots where pollution is emitted
- To give more information to community:
 - Alert when air quality is poor to protect health
 - Advocate for policies and programs to clean the air



San Joaquin Valley Community Air Monitoring Network (SJVAIR)







https://www.sjvair.com/

Background

- Program was created as a result of the approval in July of a new law: AB617
- AB617 recognizes that although progress has been made in improving air quality in California, there are still severe pollution problems in some communities due to their proximity to ...

*Industrial Zones

*Railway Tracks

*Highways

*Oil Industry

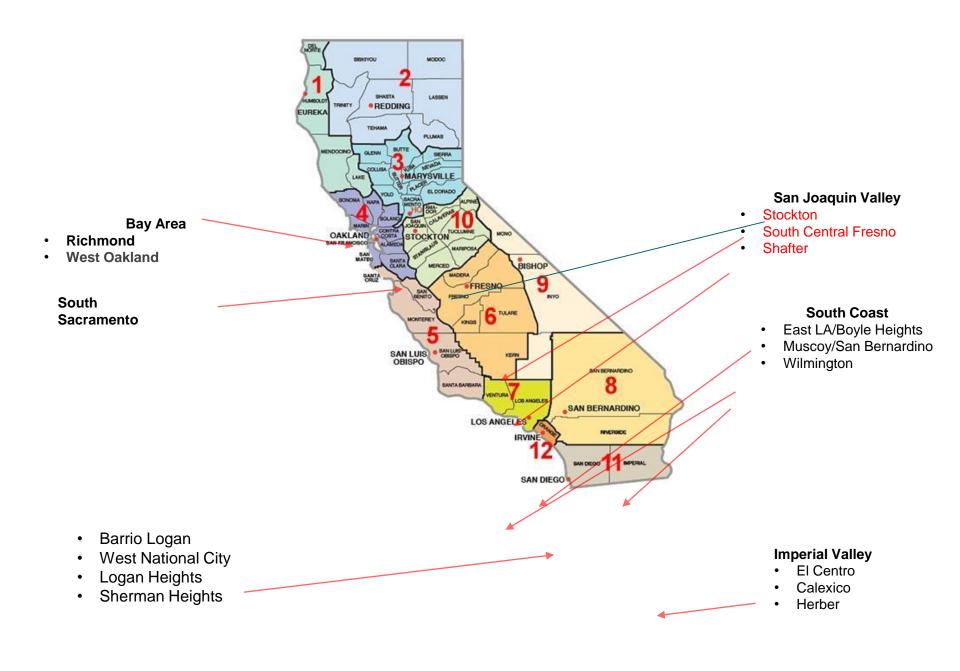
*Distribution Centers



GOAL OF THE AIR PROTECTION PROGRAM

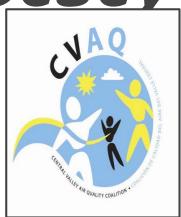
- Creation of new measures focused on reducing air pollution and improving public health in the most affected communities with pollution.
- An innovative aspect of this program is that it recognizes that community residents must actively participate in planning, developing and implementing new measures that will clean up pollution.





Advocacy Work





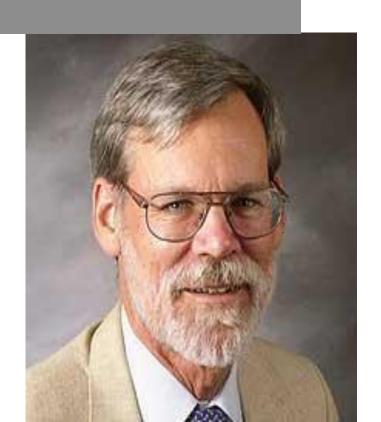






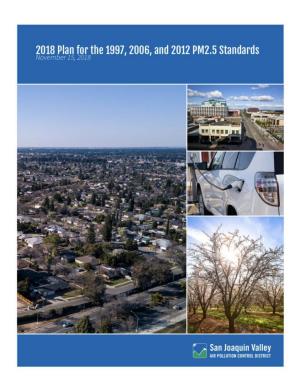
TWO EJ SEATS





2018 PM 2.5 Plan for the San Joaquin Valley

- Plan to meet Federal PM 2.5 Standards for 1997, 2006, and 2012
 - 1997: Annual Standard of 15 μg/m³ and
 24-hour standard of 65 μg/m³
 - 2006: 24 hour standard of $35 \mu g/m^3$
 - 2012: Annual Standard of 12 μg/m³



A Big Win!

Emission Reduction Credits (ERCs) Program Review

- Earthworks "Undeserved Credit" report:
 November 2018
- CARB Findings: June 2020
- September 2020: Air District provisional withdrawal of credits from agricultural engine electrification projects associated with the AG-ICE incentive program and unbanked facility shutdowns ("orphan shutdowns")

The work continues! Public working group meets monthly. To join contact CVAQ's Director, Dr. Catherine Garoupa catherine@calcleanair.org





Food Security and Community-Engaged Scholarship Stergios (Steve) Roussos (Community Initiatives for Collective Impact, CI4CI)

Steve Roussos, PhD, MPH is the Director and Community Scientists with CI4CI, serving the priorities of the San Joaquin Valley. CI4CI drives social and environmental justice efforts as a backbone organization for grassroots groups and as a mediating agency for community-academic partnerships.

Dr. Roussos has over 25 years of experience as a researcher and educator in community health and development with underserved and vulnerable populations. Based in Merced, he leads teams to use participatory research to understand and improve social justice outcomes through community-academic initiatives.

At UC Merced Dr. Roussos has shaped community-engaged scholarship since 2002, including through developing the Resource Center for Community-Engaged Scholarship (ReCCES), In 2017, Dr. Roussos led university and community stakeholders to establish CI4CI as a regional catalyst for social and environmental justice.



Food Security and Community-Engaged Scholarship



Stergios (Steve) Roussos, PhD, MPH Community Initiatives for Collective Impact (CI4CI), Merced, CA

Voices of the Community:
Building Community-Academic Partnerships
for Environmental Justice in the
Northern San Joaquin Valley

A Virtual Meeting, October 15, 2020



A Tribute to Dang Moua

Passed Away in October 2020

Pioneer and founder of the Hmong community in Merced, CA leading to California becoming the most populous Hmong state in the USA

Helped to establish Hmong farming throughout the region

Leader in development of the UC Merced
Community Pledge, a communitybenefit agreement guiding the launch
of the 10th UC campus as an engaged
research university in the San Joaquin
Valley

Rest in Power Yawg....

Peb sawv daws yuav nco koj txoj kev hlub rau peb txhuas leej txhaus tus. Mus zoo koj os mog.











Community Engaged Scholarship (CES)

The approach of academic stakeholders (e.g., faculty, students) and "community" members (e.g., lay, professional, legislative) PARTNERING toward mutually beneficial means and ends through teaching, discovery, integration, application, and engagement.¹

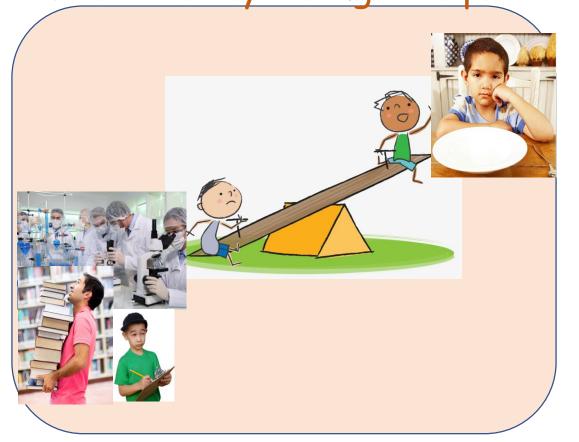






Community Engaged Scholarship (CES)

How can community and academic partners balance our drive to understand with action to improve solutions to society's toughest problems?





Community Engaged Scholarship (CES)

People Most Affected
By a Problem
(Live Experience)



People Trained to Solve
a Problem
(Expertise/Professionalism)

3 Core Values

- Mutual Value of Wisdom
- 2. Mutual Engagement in Decisions
- 3. Mutual Benefit



Community Initiatives for Collective Impact (CI4CI) in Merced, CA

- Mediator for communityacademic collaborative partnerships
- Backbone for grassroots & community-driven efforts
- Facilitator for translating research to action

Guiding Question:

How do we create community-owned organizations that function to articulate, negotiate and advance joint goals and action between academic and community partners?





What led us here? Early drivers in Merced and SJV

UC MERCED'S COMMUNITY PLEDGE
A COMMITMENT TO THE COMMUNITIES OF MERCED COUNTY
AND THE GREATER SAN JOAQUIN VALLEY

University of California, Merced September 2003



UC Merced, as the first University of California of the 21st century, is committed to becoming a premier institution of higher learning that benefits all Californians. We recognize that the success of UC Merced depends, in part, on the communities that surround and support it. Further, we recognize the need to form a partnership with community leaders to realize the opportunities ahead and to shoulder the responsibilities that attend such opportunities. As such, UC Merced will continue to work with the many facets of the community to ensure that the academic, cultural, and economic benefits of the campus reach all segments of the population.



2009 First Lady Michelle Obama Keynote Speaker at UC Merced's "1st Class" Commencement



2015 Carnegie
Classification as
Community Engagement



FOR THE UNIVERSITY OF CALIFORNIA AT MERCED

Carol Formlinson-Keasey Chancellor Date Date

UC MERCED

ReCCES

RESOURCE CENTER FOR Community Engaged Scholarship

What led us here? Drivers in Merced and SJV

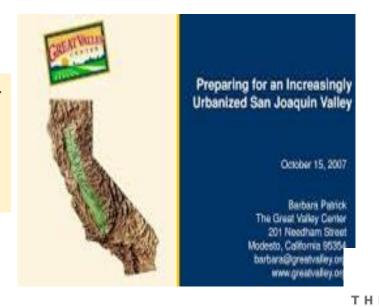
Great Valley Center

Carol Whiteside, Challenges & Choices for California's Great Central Valley
President

Keynote Address, The New Face of California: The Great Central Valley Symposium, UC Berkeley, Nov. 2005 Community University

Research and Action for Justice (2006 -)





San Joaquin Valley Health Fund (2015 -)

Place Matters for Health in the San Joaquin Valley: Ensuring Opportunities for Good Health for All

Central Valley Health Policy Institute, CSU Fresno (2012)

The State of the Great Central Valley: Assessing the Region via Indicators – The Environment 2006-2011

Great Valley Center (2012)



Why Food Security and Community-Engaged Scholarship in the San Joaquin Valley?



- SJV counties consistently rank higher in the rate of childhood food insecurity than the state (estimated 1 in 4 children)¹
- SJV counties' higher birth rate and higher proportion of youth lead to greater youth and population-level collateral damage from malnutrition (on physical and social development, health, lifetime contributions, quality of life, etc.)



 Unethical paradox of "breadbasket of the world" maintained by food insecure families



- Participatory budgeting & grant writing
- Student and community member training in participatory governance
- Community-academic garden planning and maintenance
- Demonstration site for food security data collection and pilot study











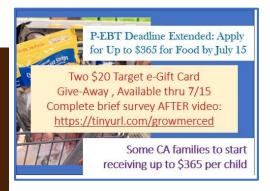
- Food security assessment, referral and systems change
- Driven by pre-Covid demands, escalated post-Covid
- Participatory ideation, grant-writing, and implementation
- Participatory dissemination of results to community and academic stakeholders
- Translation of research to action



725 people with Medi-Cal screened:

80% Worried that their food would run out before getting money to buy more in past 12 months)

81% Bought food that did not last and did not have money to get more (in past 12 months)





- Evolved and maintained with community-academic partnership
- Designed as a pilot for replication in local food desserts
- Data-driven evaluation, refinement, and sustainability







- Evolved and maintained with community-academic partnership
- Designed as a pilot for replication in local food desserts
- Part of nationwide "Fridge" movement
- Live data monitoring for implementation and research





People's Fridge

Open Every Day, 9 AM- 5 PM

Take what you need! Leave what you don't!

Please place any donations in the donation drop-off station!







Thank

You!

Stergios (Steve)Roussos, PhD, MPH <u>sroussos@ci4ci.org</u>, 209-489-9913 936 W. 18th St, Merced, 95340 209-769-3231

https://www.facebook.com/MercedPeoplesGarden/

https://www.facebook.com/projectgrowmerced/

https://www.facebook.com/popuppeoplespantry/

https://www.facebook.com/PeoplesFridge/



