



Wildfire Webinar Series with San Joaquin Valley

(22RD018)

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Public Health

March 27, 2024

Likelihood of wildfire risk has increased 25% in California & Poor Air Quality

Affecting communities especially in San Joaquin Valley (SJV)

Particularly marginalized, vulnerable are low-income communities, farmworker communities, monolingual Spanish speakers

Fewer resources to combat wildfire & smoke in these communities

Struggle to access resources in Spanish

Brown, P. T., Hanley, H., Mahesh, A., Reed, C., Strenfel, S. J., Davis, S. J., Kochanski, A. K., Clements, C. B. (2023). Climate warming increases extreme daily wildfire growth risk in California. *Nature*.
Modaresi Rad, A., Abatzoglou, J. T., Kreitler, J. R., Alizadeh, M. R., Aghakouchak, A., Hudyma, N., ... Sadegh, M. (2023). Human and infrastructure exposure to large wildfires in the United States. *Nature Sustainability*, 6, 1343-1351.



Environmental Justice & Co-Liberate Framework Guided Planning of Wildfire Webinar Series



Wildfire Community Vulnerability Framework also guided wildfire webinar planning

- ❖ **Monolingual Spanish speakers**
- ❖ **Socioeconomic status: Low-income communities**
- ❖ **Housing - Mobile Homes**
- ❖ **Multi-generational households**
- ❖ **Demographics: Households with family members with disabilities, family who are >65, rural, mixed status families**



Davies, I. P., Haugo, R. D., Robertson, J. C., & Levin, P. S. (2018). The unequal vulnerability of communities of color to wildfire. PLOS ONE, 13(11), e0205825.

Webinar Series Planning

- Making webinars accessible to the community
 - Hosting webinars at suitable times e.g., early evenings, virtual, 75-90 minutes in length, Spanish/English live stream translation
- What would interest community residents to attend
- Financial compensation for time, modest stipend
- Topics relevant to community members
- Strategically planning webinars to be held immediately after well attended monthly community steering committee meetings
- First webinar structured as a listening session
- Employing popular education methods, personal lived experiences



Recruitment Efforts

- Door-to-door canvassing
- Advertising on CNC EF's social media channels (Instagram)
- Scheduling webinar immediately following monthly community steering committee meetings
- Advertising at other existing CNC EF in-person or virtual community events
- Building off other community interests & activities: COVID-19 vaccination, voter registration, ITIN assistance, air filter workshops, tree planting, affordable housing assistance.
- #homes canvassed = 1611



**SERIE DE SEMINARIOS WEB
E INCENDIOS FORESTALES**
¡A NOSOTROS Y APRENDE MÁS
DE LA LOCALIDAD DEL AIRE

¡PARA MANTENER TU
CASA SEGURA
CONOCE LOS RIESGOS Y
LOS IMPACTOS EN
TU COMUNIDAD
Y OBTÉN AYUDA
Y ASISTENCIA
A CORTO Y
LARGO PLAZO

ORADOR INVITADO
ANGEL FERNANDEZ
Senior Climate Scientist

FECHA
LUNES 22

HORA
6:00 - 7:30 PM

VIRTUAL
via Zoom
<https://bit.ly/3FJG5gh>

REGISTRATE HOY!
https://www.cncedfund.org/merced_wildfire_resilience_webinar_2

CNC **UNIVERSITY OF CALIFORNIA IRVINE** **CALIFORNIA CALIFORNIA STATE**



**SJV WILDFIRE
WEBINAR SERIES**
Join us to learn more about Air Quality

GUEST SPEAKERS
J. PABLO ORTIZ PARTIDA
Senior Climate and Water
Scientist
ANGEL FERNANDEZ
Senior Climate Scientist

DATE
Wed. Sep 27

TIME
6:00 - 7:15 PM

VIRTUAL
via Zoom
<https://us02web.zoom.us/j/8657473470?pwd=Q2RQa1FRQ0A2T8V5bDR6dy9s>

REGISTER TODAY!
https://www.cncedfund.org/merced_wildfire_resilience_webinar_2

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@cncedfund

AIR QUALITY/WILDFIRE RESILIENCE & COMMUNITY CAPACITY BUILDING

Webinar 1

On May 25th at 5 to 6:15pm we hosted the first webinar. We focused on listening to participants' concerns where they spoke about issues like affordable housing, water quality, air quality and how to respond to natural disasters.

~30 participants

Webinar 2

On September 27th from 6 to 7:30 pm. We spoke about climate change and resilience to wildfires. The guest speaker was Jose Pablo Ortiz, Senior Scientist in Climate and Water - Union of Concerned Scientists

48 participants



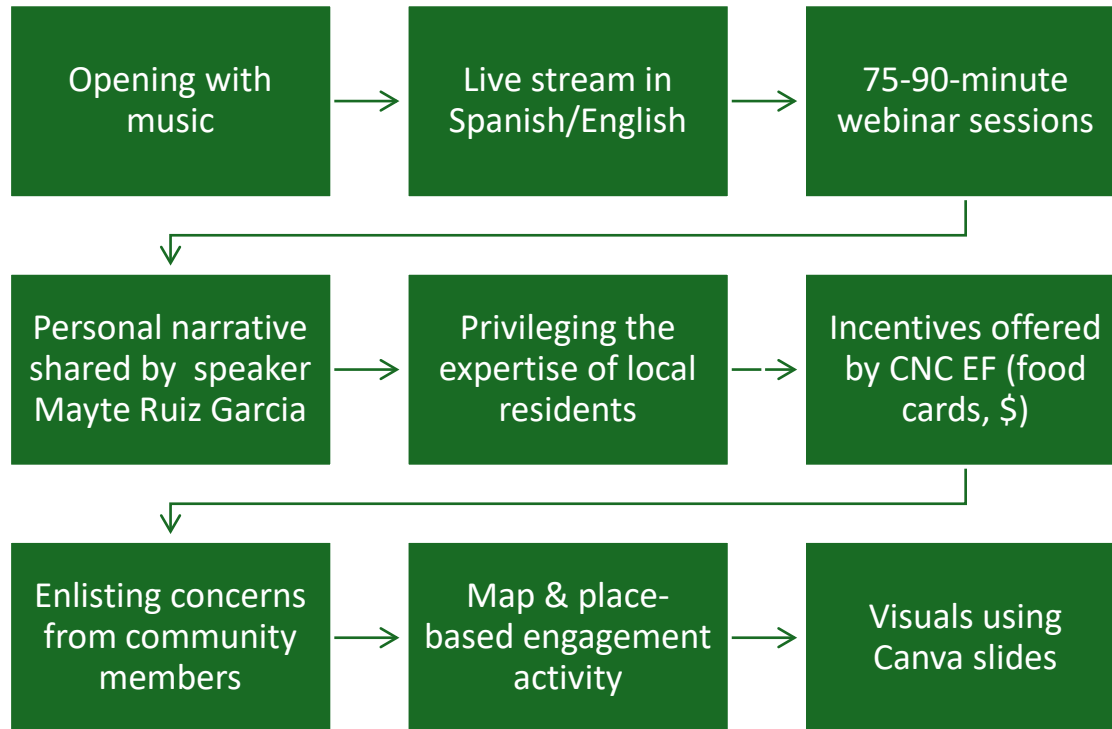
Webinar 3

On October 26th from 6 to 7:30 pm. We spoke about climate change and the quality of air. The guest speaker was Angel Fernandez, Senior Scientist of Climate Change - Union of Concerned Scientists

40 participants

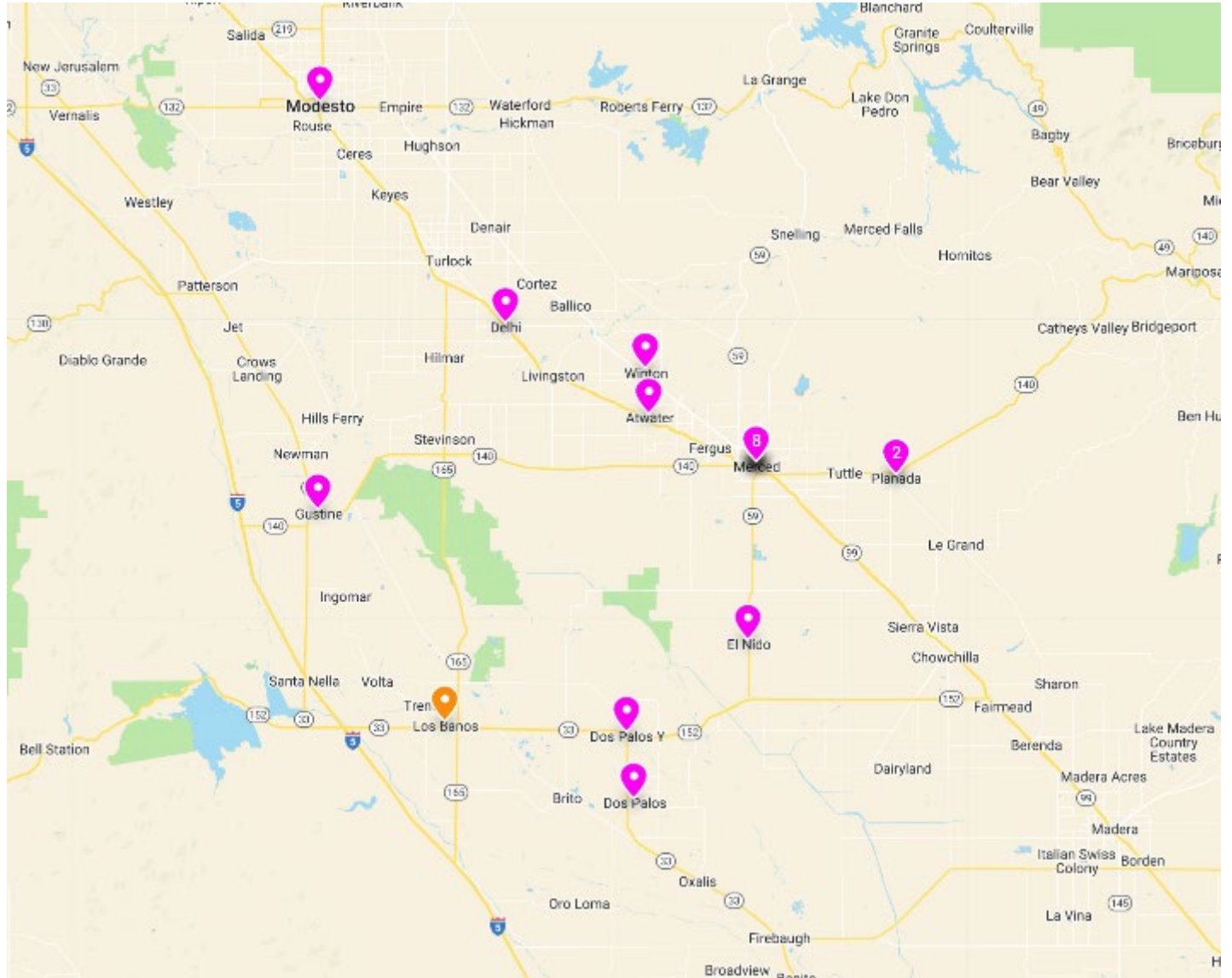


Webinars structured to implement popular education methods for engagement



Webinar #1 Participant Locations Merced & Stanislaus Counties

~30 participants from Merced County,
mostly women/mothers, monolingual
Spanish speakers



W1: Listening Session Enlisting Community Experiences & Concerns with Questions



Q1: What are your community's top 3 concerns?



Q2: What issue do you care about most and would move you to action?



Q3: If you could prioritize one of your community concerns, which would it be?



Q4: Fall 2023 webinar planning about wildfire & smoke impacting community, which topics do you prefer?

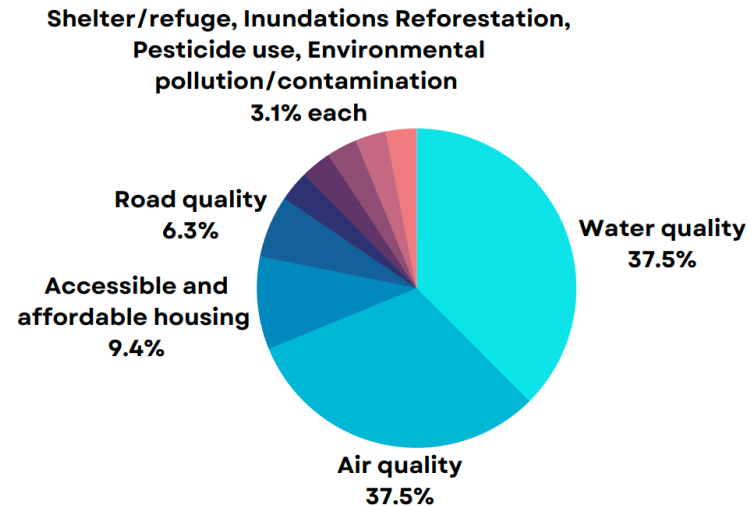
WEBINAR #1 MAY 25, 2023

Listening sessions to enlist community concerns and personal impact stories. Participants mapped their location and community concerns they are experiencing in their location.

Q1: What are your community's 3 main concerns?

Respondents demonstrated that **water quality, air quality, low-cost accessible housing, and emergency planning (especially for wildfires)** were the leading concerns.

Q2: What issues do you care most about and would move you to action?



Q3: If you could prioritize one of your community concerns, which would be your priority?

Concerns in order of greatest to lowest priority:

1. **Water Quality**
2. **Affordable/Accessible Housing**
3. **Air Quality**
4. **Fire Response**
5. **Post-Disaster**

Q4: For fall 2023 webinar planning (September & October) about wildfire and smoke impacting the community. Which topics do you prefer to have covered?

Of the nine topics, respondents preferred **health impacts** and **sheltering measures in the event of a fire** as topics to be covered for the upcoming webinars, followed by **how to prepare and minimize wildfire and smoke impacts** and **what to do in the event of intense and lingering smoke**.



SJV & ECV Community Concerns related to Wildfire

- More information about health effects of wildfires
- Guidance on finding shelters during evacuations including for undocumented individuals
- Preparing for wildfire in the event of severe smoke
- Who to contact during a wildfire
- Essentials of emergency preparedness including how families with members who have disabilities can prepare
- Availability of post-fire resources including financial, energy & mental health support
- Knowledge about evacuation routes including alternatives to ensure readiness
- Education & awareness about factors that can contribute to wildfire
- Local smoke alerts

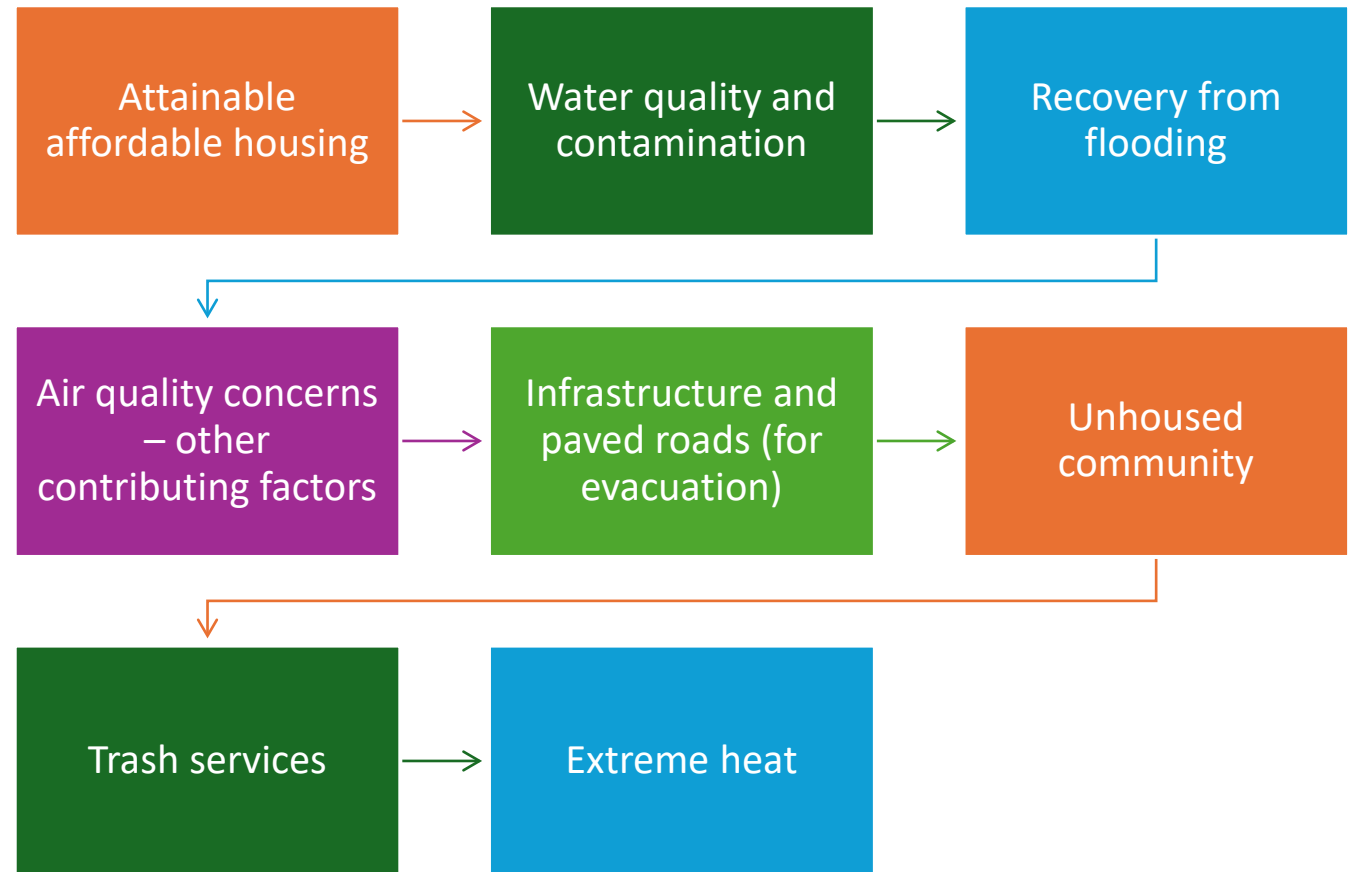


Community Level Vulnerabilities that Compound Risk and Response to Wildfires in SJV

- **Sub-standard living conditions housing (extreme rent burden)**
- **Need for information in languages other than English e.g., Spanish, Punjabi**
- **Poverty**
- **Unincorporated communities**
- **Other extreme weather events (flooding, water contamination, extreme heat, drought, wind/dust storms)**
- **Dry overgrowth after heavy rain**
- **Illegal trash dumping**
- **Unhoused community**
- **Environmental hazards and air pollution from other factors e.g., agricultural practices**
- **Poor infrastructure and built environment (e.g., paved roads) impacting evacuation routes**



Additional High Priority Community Concerns





Angel S. Fernandez-Bou

Webinars 2&3 with Climate Scientists from Union for Concerned Scientists

Presentations focused on climate change impacts in the SJV and on increasing frequency and threat from wildfire, poor air and water quality impacts

Having community leaders who live in the area, presented in the audience language (Spanish), and are also experiencing wildfire and climate impacts



J. Pablo Ortiz-Partida



4 BEST PRACTICES for ENHANCING WILDFIRE COMMUNICATION

- **Importance of acknowledging and integrating into messaging the cumulative impacts of structural level determinants of wildfire risk (e.g., other extreme weather co-occurrences like extreme heat & wind, level of local govt interaction with community, waste management & code enforcement services, affordable housing, unhoused community)**
- **Addressing messaging from a Behavior Adaptation Model (BAM). Families may not be able to remove themselves from risk environments, need to adapt to those environments**
- **Community capacity building efforts, solutions must be driven from within communities (intersectional)**
- **Bi-lingual and Map based communication tool may facilitate community involvement in documenting cumulative factors and understanding best messaging**

Solutions-Oriented Discussions

CNC *Consejos y recomendaciones útiles para las familias incluyen:*

LA COMUNICACIÓN

En su teléfono móvil descargue la aplicación: California Smoke Spitzer (Observador de humo de California) para actualizaciones sobre incendios forestales y/o eventos de humo en su comunidad.




CNC *Consejos y recomendaciones útiles para las familias incluyen:*

AIRE LIBRE (AFUERA)

IMPORTANTE: Si usted o otros están en peligro, marque al 911 y busque un lugar seguro inmediatamente.

En su teléfono móvil descargue una aplicación para verificar la Calidad del Aire a través del índice del Aire local.



Consejo Lúcete

Si está considerando en su caso el humo, póngase en contacto con el Observador de humo de California en caso de necesidad. Consulte sobre cómo cubrirse con un filtro para evitar respirar en caso de un incendio forestal. www.cnc.org

CNC *Consejos y recomendaciones útiles para las familias incluyen:*

LA COMUNICACIÓN

Escuchar tantos canales como sea posible para recibir alerta y educación sobre los impactos de los incendios forestales.



Recursos educativos y los sitios web

Federal: www.cnc.org, www.cnc.org/observador-de-humo

Local: www.cnc.org

Región: www.cnc.org, www.cnc.org/observador-de-humo

CNC *Consejos y recomendaciones útiles para las familias incluyen:*

INTERIORES (HOGAR)

Cree una sistema de filtración interior fácil y económico cuando permanezca en su hogar con un ventilador de caja y un filtro de aire MERV 13



Recursos e información

El costo total para la sistema de filtración interior es de \$30.00 - \$40.00

El costo para un filtro de aire MERV 13 de reemplazo es \$15.00 o \$40.00 para un paquete de cuatro filtros.

CNC *Consejos y recomendaciones útiles para las familias incluyen:*

AIRE LIBRE (AFUERA)

Utilice cobre boca KN95 en caso de humo o incendio y cuando la calidad del aire sea muy mala. Asegúrese de colocar su cobre boca correctamente y oprimir la parte sobre la nariz.



IMPORTANTE: Solamente, cobre boca KN95 lo protege de materia particulada (PM 2.5) que es un contaminante relacionado con el humo.

Consejo Lúcete

Puede comprar cobre bocas KN95 por mayoreo en varios sitios de web o también puede visitar su farmacia local.

Long term Solutions & Strategies



Supporting policies in California focused on improving health of Californians, policy around cleaner energy sources, sustainable agriculture



Implementing educational curriculum for K-12 but also for adults around wildfires and climate change



Understanding what contributes to poor air quality and health impacts with goal of lowering emissions from harmful sources

ÚNETE A NOSOTROS MERCED



Community
Capacity Building
in Merced and in
ECV



PROYECTO DE INVESTIGACION PARTICIPATIVA

JUEVES , 29 DE FEBRERO
5:00 - 6:00 PM TRAVES DE ZOOM

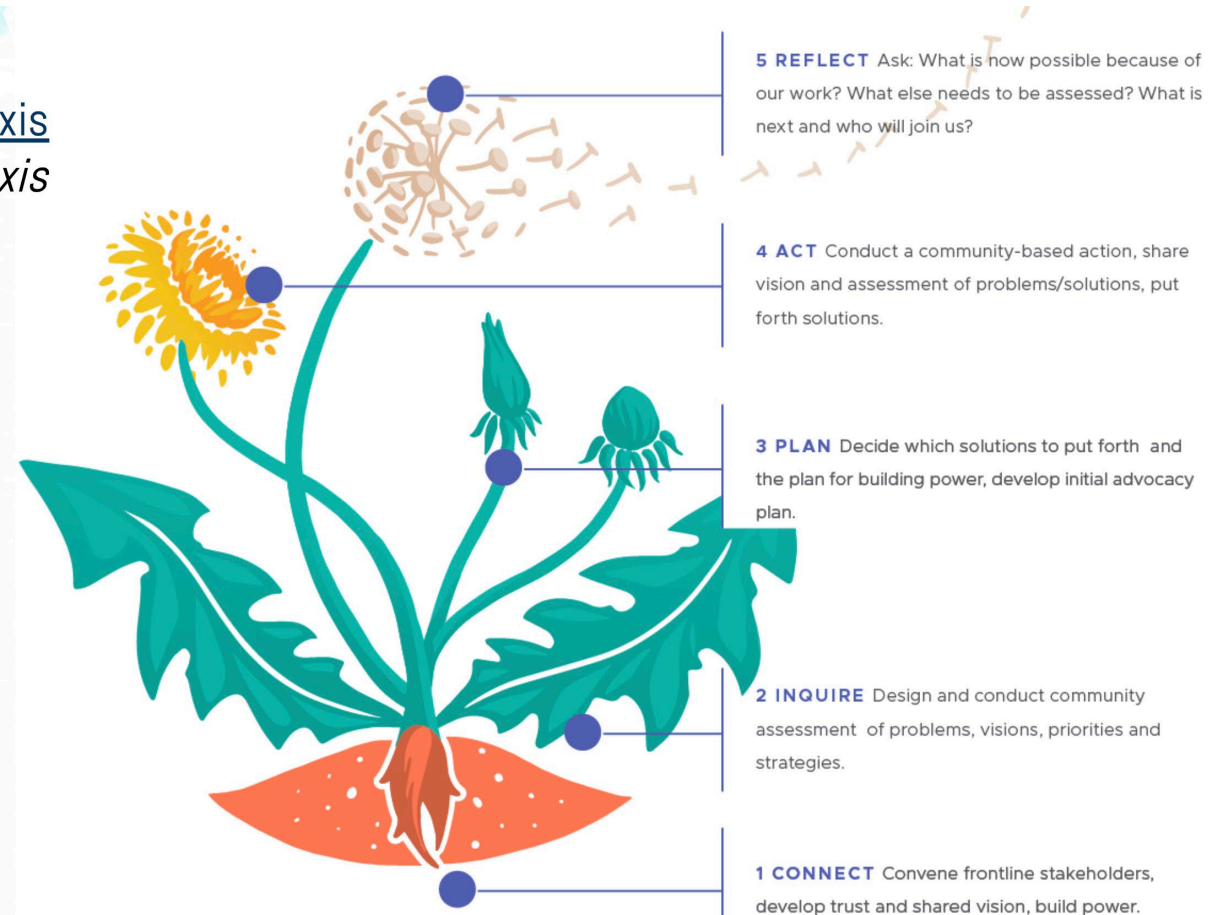
TENEMOS MUCHO
QUE COMPARTIR
CONTIGO ACERCA DE



Merced and ECV conducting 10-week community capacity building workshops

- Community residents participate 2x week Feb-June 2024
- Community driven priorities, experiences
- Collaboratively decide priority community concern
- Collect data
- Analyze
- Convene with stakeholders

Flower of Praxis
Flor de la Praxis



QUESTIONS?

