South Central Fresno AB 617 Community Truck Reroute Study and Fresno Community Environmental Health Impact Assessment

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Project Manager

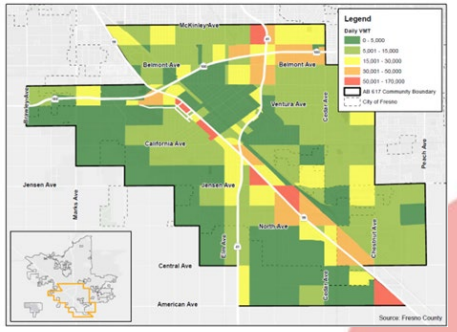
SOUTH CENTRAL FRESNO AB617 COMMUNITY TRUCK REROUTE STUDY

PRESENTED BY ARCADIS IN PARTNERSHIP WITH KATHERINE PADILLA & ASSOCIATES

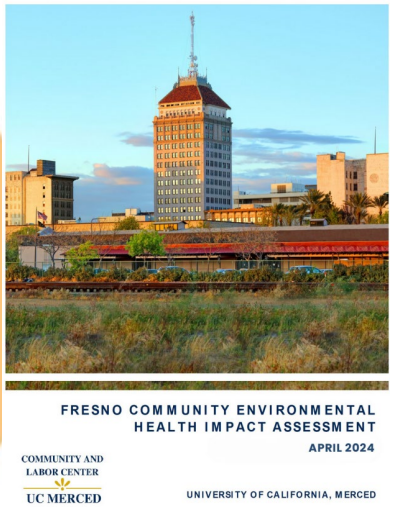
August 29, 2024

TECHNICAL ANALYSIS OVERVIEW

ARCADIS


Legend
Daily VMT
0 - 5,000
5,001 - 15,000
15,001 - 30,000
30,001 - 50,000
50,001 - 170,000
AB 617 Community Boundary
City of Fresno
McKinley Ave
Belmont Ave
Ventura Ave
California Ave
Jensen Ave
Mono Ave
North Ave
Central Ave
American Ave
Cedar Ave
Peach Ave
Source: Fresno County

Feasible Reroute Strategies
Existing Conditions/ Physical Constraints/ Funding
Community Advice & Feedback
Health Assessment
Best Practices
Goods & Produce Movement


FRESNO COMMUNITY ENVIRONMENTAL HEALTH IMPACT ASSESSMENT
APRIL 2024
COMMUNITY AND LABOR CENTER
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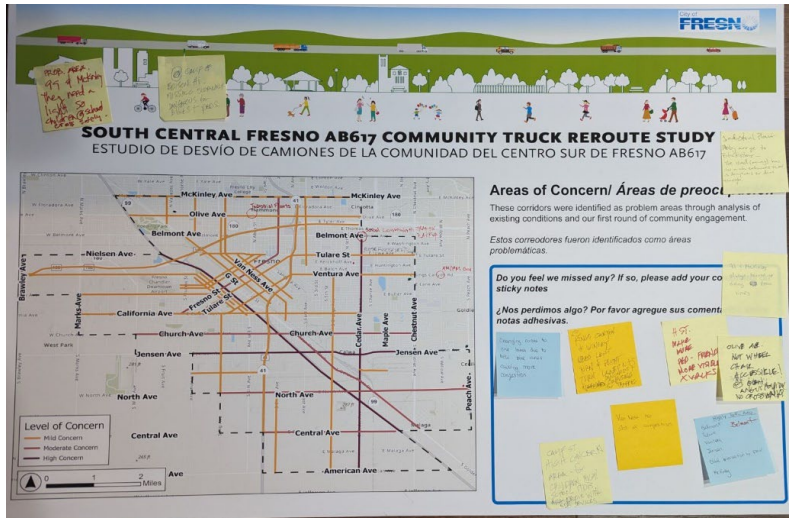
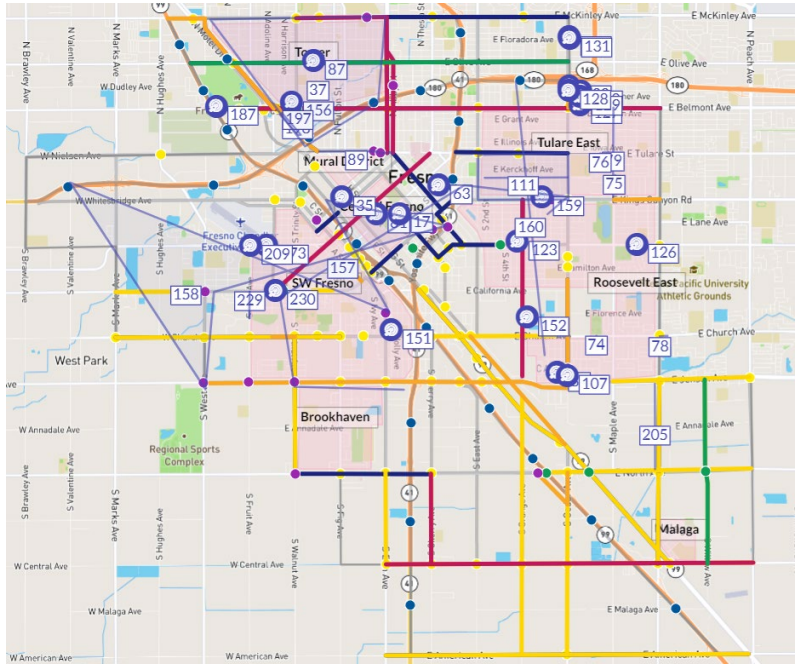
Outreach and Engagement





Strategy Toolkit

New Sidewalks

Close gaps in the existing sidewalk network

Roadway Maintenance

Remove potholes and cracks that reduces truck maintenance and GHG emissions

Traffic Signalization Improvement

Improve intersections to enhance safety and flow of traffic

New & Improved Crosswalks

Create new crosswalks and restripe existing crosswalks to increase visibility

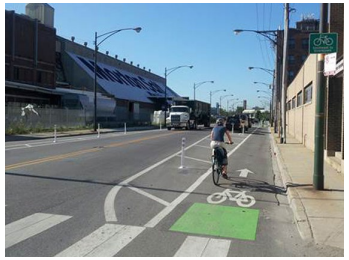
Traffic Calming

Implement measures to reduce truck speeds or divert trucks

Roadway Reconfiguration

Accommodate alternative modes or alter truck movements

New Bike Lanes



Dedicated travel lanes to enhance bicycle accessibility and safety

Truck-Focused Signage

Informs truck drivers on truck routes and regulated areas

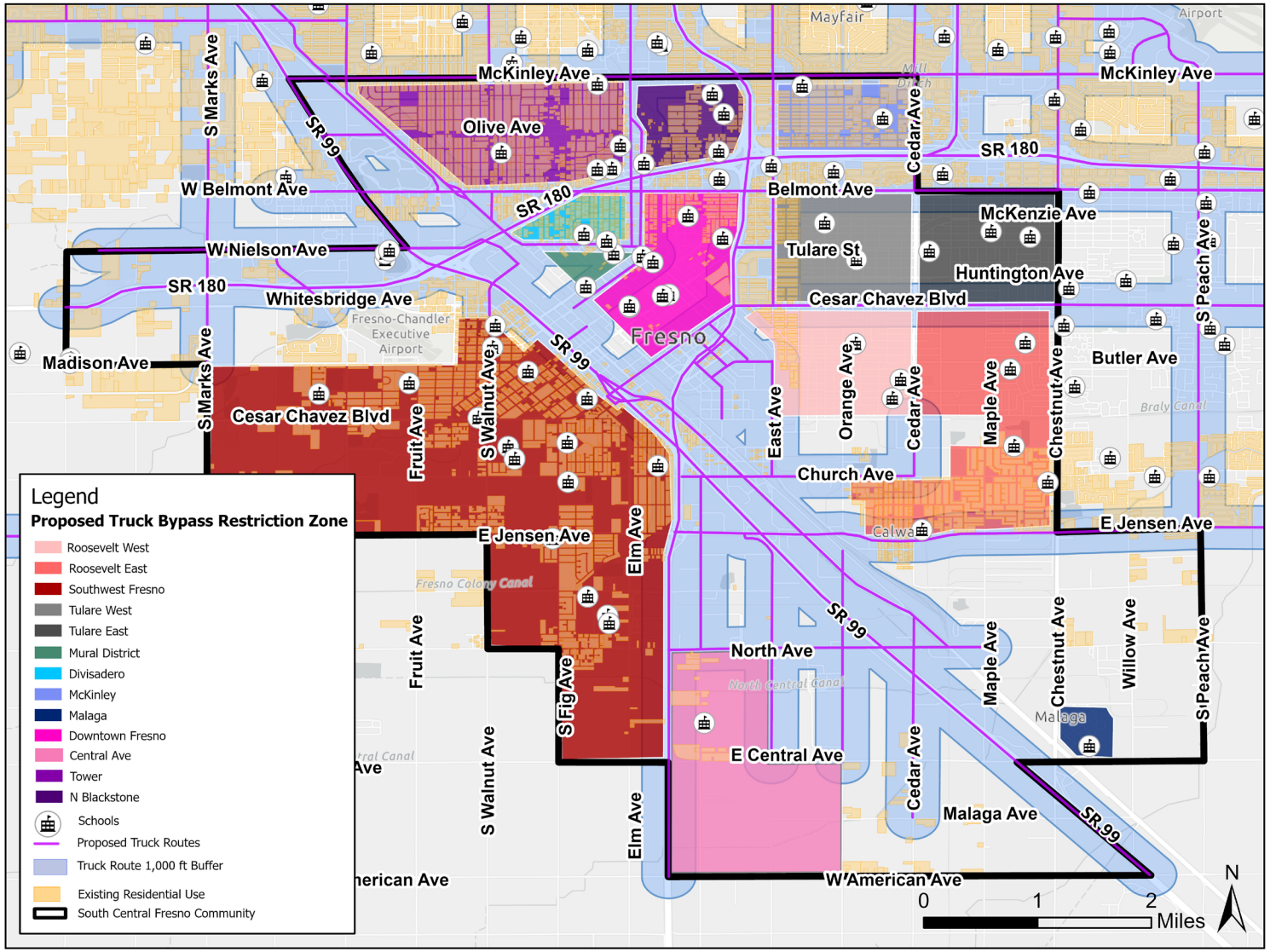
Truck Bypass Restriction Zone

Creates a boundary around sensitive receptors that can be used to limit truck bypass

Proposed Truck Bypass Restriction Zones

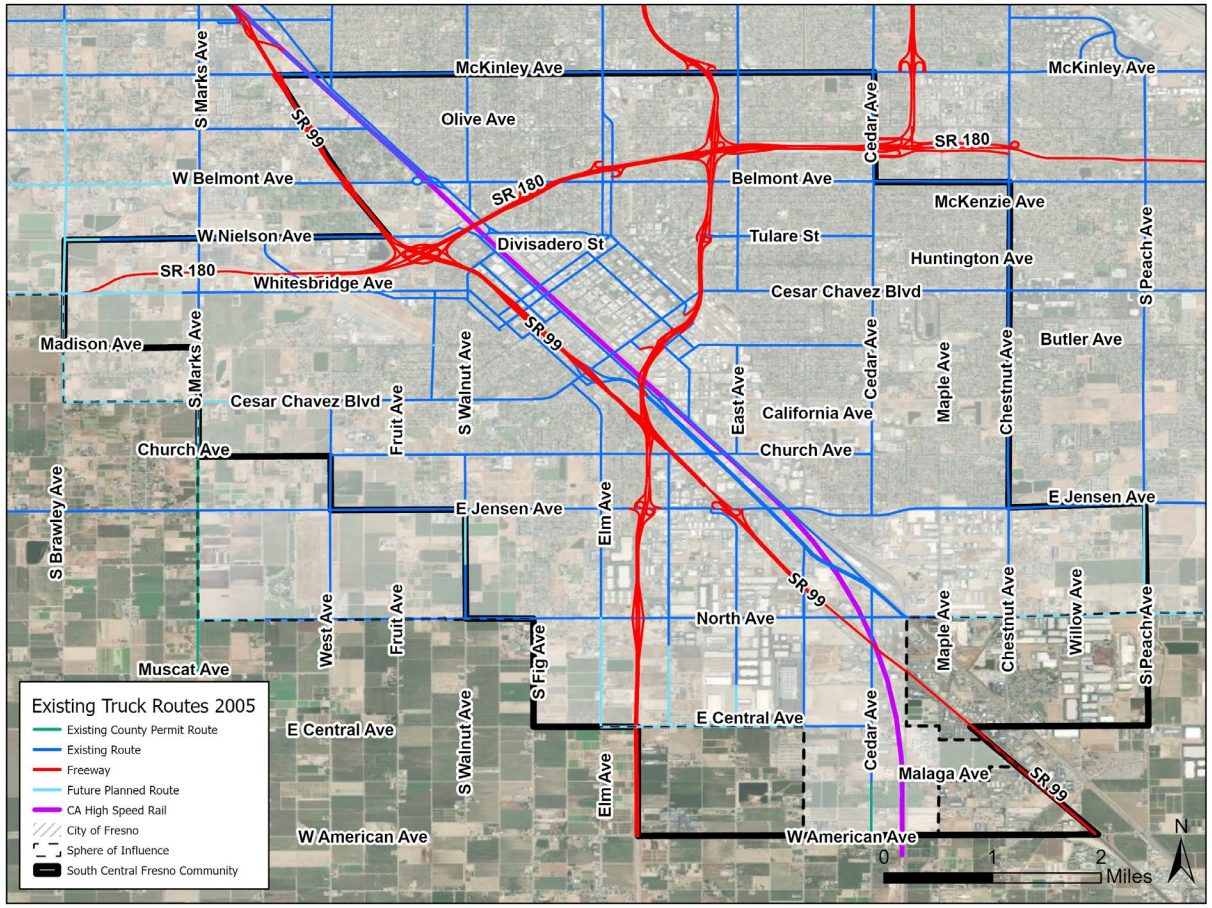
- Restrict bypass truck travel
- Trucks whose origin or destination are located within these zones can still travel within the zones

- Based on:
  - Location of sensitive receptors (residential areas and schools)
  - UC Merced Health Impact Assessment recommendation to remove truck routes within 1,000 ft of residential areas

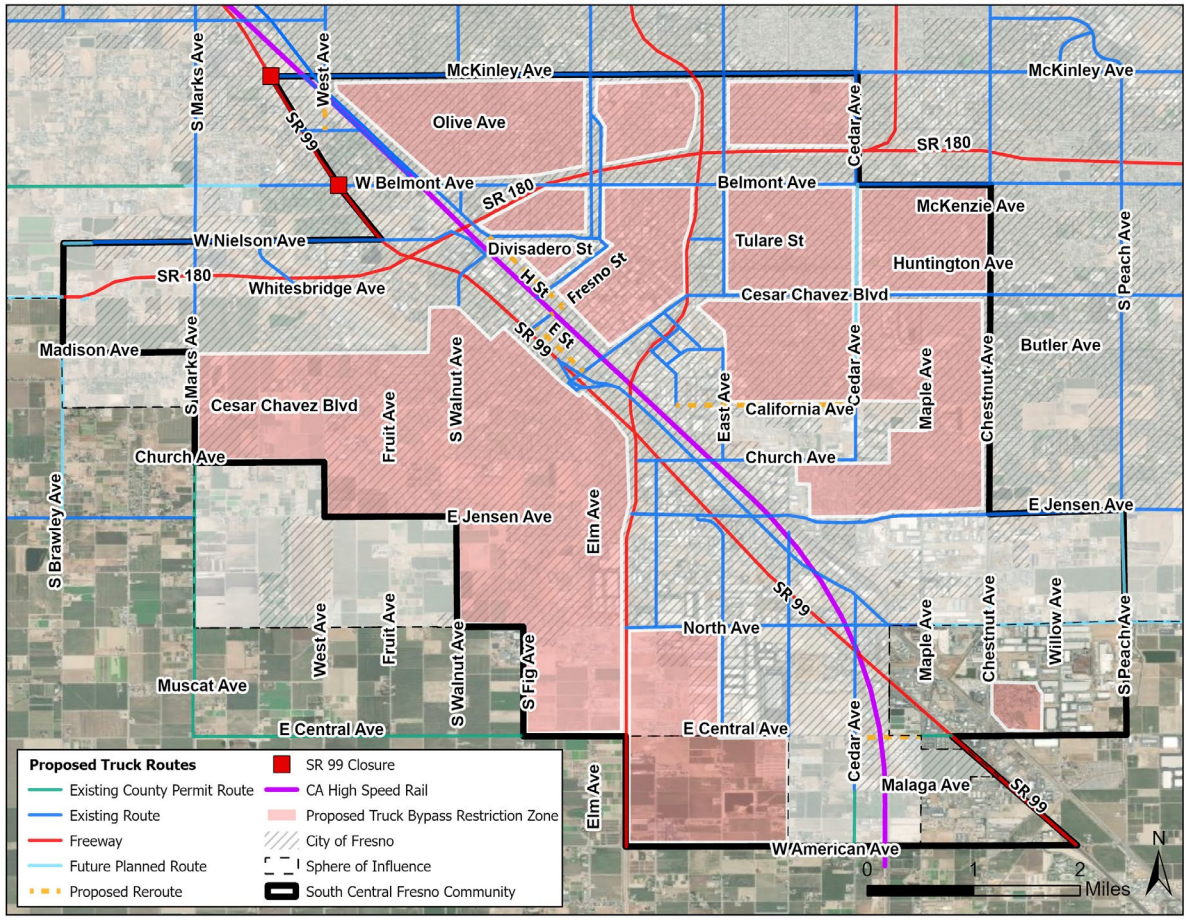


Proposed Truck Routes

43 miles removed
3.6 miles added as re-routes
16 square miles of Truck Bypass Restriction Zones



Existing Truck Route Map (2005)



Proposed Truck Route Map

Non-Infrastructure Strategies

Education & Outreach Programming

- Ensures drivers are aware of routing changes and optimizes new routes

Truck Fuel-type, Emissions, and Idling Standards

- Allows trucks to operate efficiently and produce fewer emissions

Truck-specific GPS Administration

- Provides info for critical route restrictions avoiding sensitive receptors

Time-of-Day Restrictions

- Minimizes peak time congestion and improves safety

Enforcement

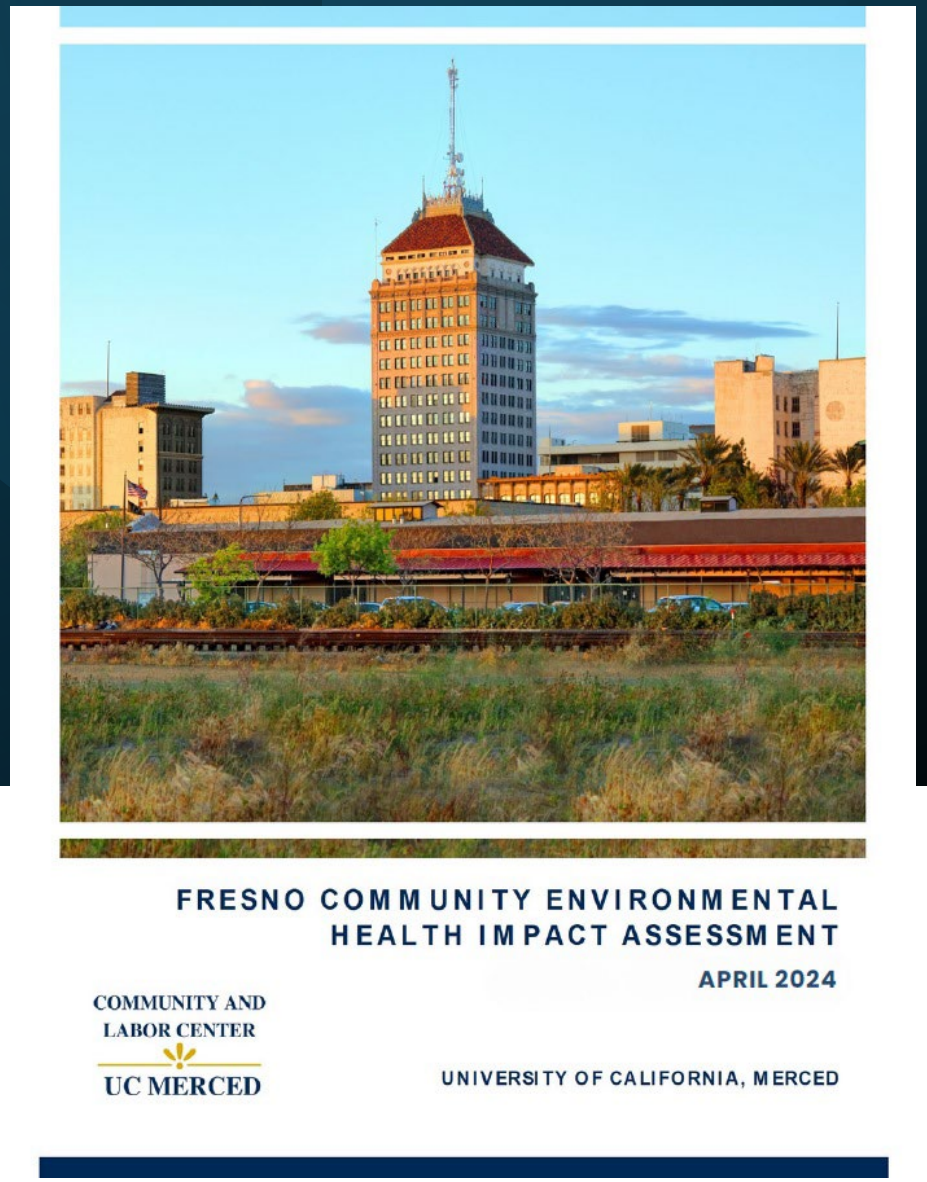
- Helps maintain order and safety on roadways and deters violations

Thank you.

Next…

UC Merced's Fresno Community Environmental Health Impact Assessment

THE FRESNO HEALTH IMPACT ASSESSMENT



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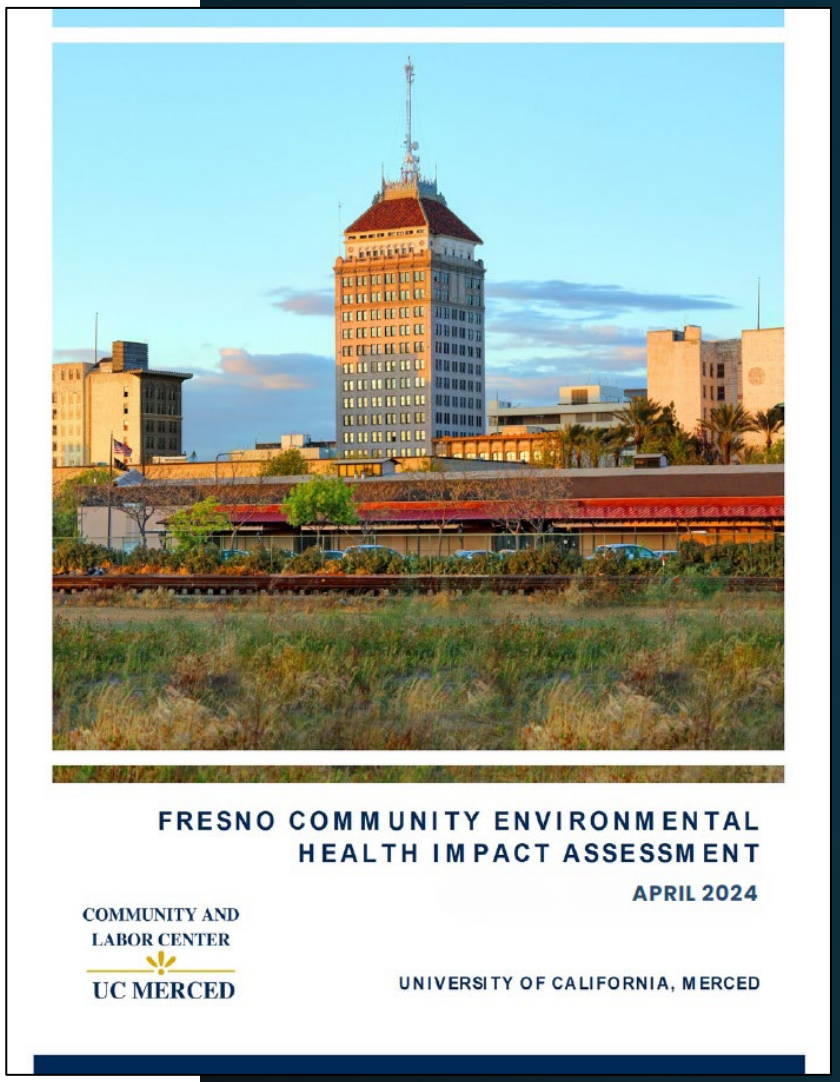
COMMUNITY AND LABOR CENTER

EPEG
THE ENVIRONMENTAL AND PERINATAL EPIDEMIOLOGY GROUP

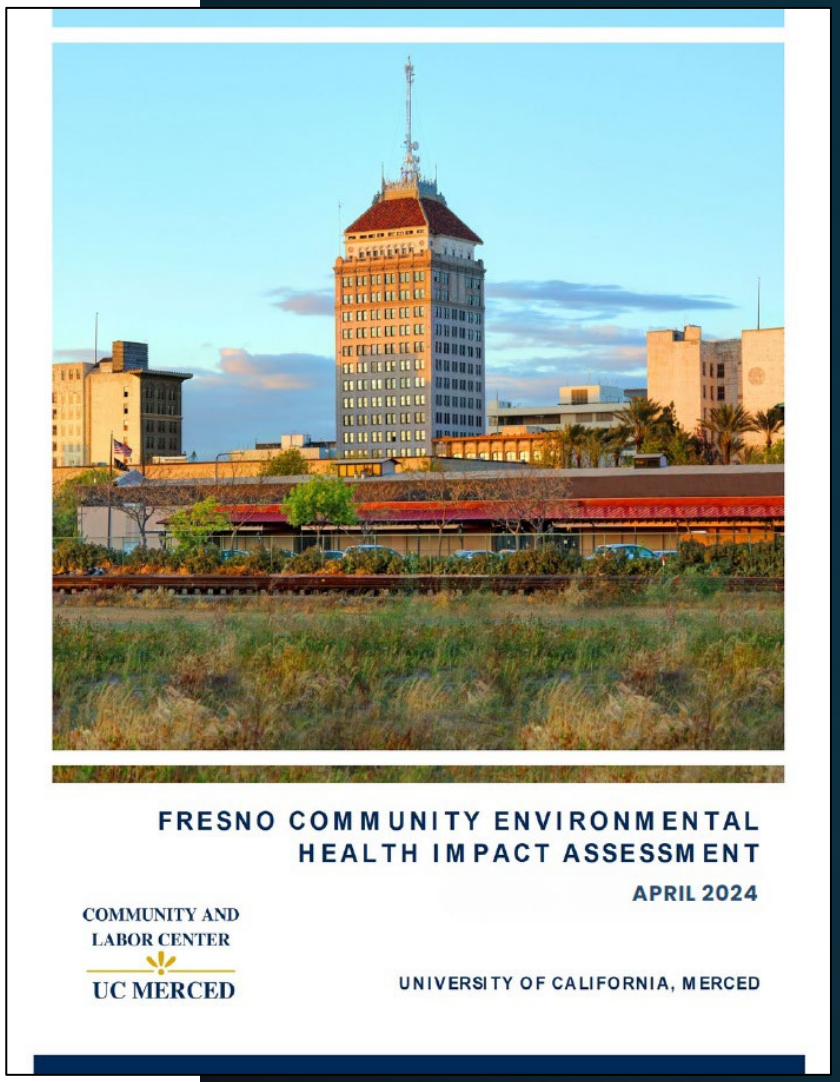
FRESNO HIA

- In April 2024, the **UC Merced Community and Labor Center** released the **Fresno Community Environmental Health Impact Assessment** ("Fresno HIA").
- The 88-page report was a three-year study funded by City of Fresno/ State of California AB 617.
- The PI and lead author is Sandie Ha, Associate Professor of Public Health at UC Merced.



FRESNO HIA

- The Fresno HIA report had two broad aims, to assess:
- 1. How air pollution exposures influence Fresno residents' risk of common health outcomes across the lifespan and identify who may be more affected.
- 2. Residents' health experiences relevant to regional air pollution, and their attitudes towards public policy on the issue.



POPULATION-BASED ASSESSMENT

- The first component of the report, a Population-Based Health Risk Assessment, estimated the impact of common pollution exposures on health across the lifespan.
- Data was analyzed from several major public data sources, including: the California Department of Public Health Vital Statistics; California Office of Health Care Access and Information(HCAI 2011-2020); SJV Air District; Fresno GIS Hub; and CalEnviroScreen 4.0
- The following health outcomes were analyzed among Fresno residents:
  - Birth outcomes (pre-term birth, infant mortality)
  - Asthma
  - Cardio-cerebral vascular diseases

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COMMUNITY HEALTH SURVEY

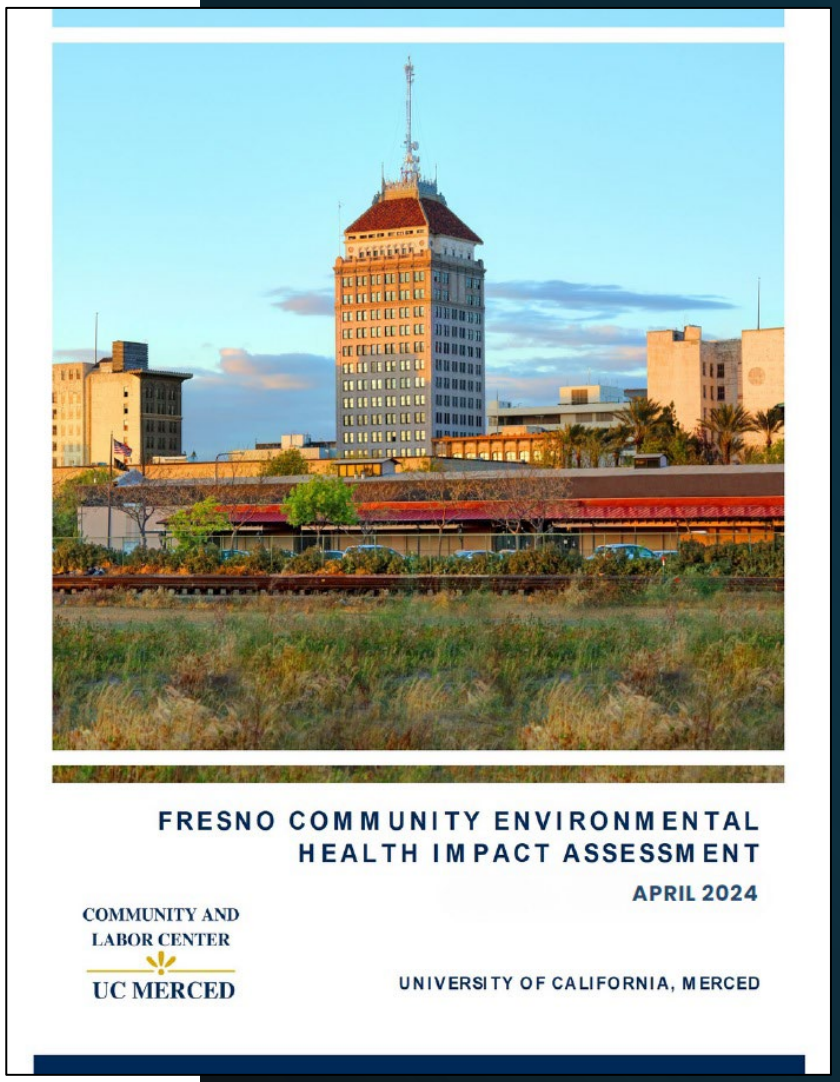
- The second component of the report, a **Community Health Survey,** had one key goal: to further understand residents' health and experience related to environmental issues in the region.
- The study sample was drawn from a representative sample of **1,766 South Fresno residents.**
- The study was carried out by a Fresno non-profit organization, Valley Forward.

COMMUNITY HEALTH SURVEY

- **The Community Health Survey found that:**
- 1. An overwhelming majority of South Fresno residents have strong concerns about environmental issues, including traffic pollution
- 2. Many are unable to rest because of air pollution and traffic/truck noise
- 3. More than 40% of participants had 1 or more chronic conditions
- 4. Pregnancy outcomes are also common
- 5. Those who reported being unable to rest due to air pollution or traffic/truck noise experienced more adverse health outcomes
- **6. The majority want policy action; more than 84% supported a truck reroute to reduce pollution in their neighborhood**

POLICY RECOMMENDATIONS

- The research findings provide support for the following policy recommendations:
- 1. Truck routes should not be placed within 1000 feet of residential areas; or trucks should be zero-emission.
- 2. More careful considerations are needed for vulnerable populations, such as the South Fresno AB617 community (and particularly communities of color).



Thank you.

Next…

City of Fresno Staff

ADDITIONAL OUTREACH

- AB 617 Community Steering Committee (CSC) Meetings
  - Monthly Updates and four Presentation
- Council District Community Meetings
- Community Outreach Meetings

- Flyers
- Cards
- E-Blast
- Pop-ups
- Surveys
- Interviews
- Social Media

Thank You!

Members of the Community

Community Advisory Group

AB 617 Community Steering Committee

QUESTIONS?