

Fresno COG Transportation Needs Assessment – Final Presentation

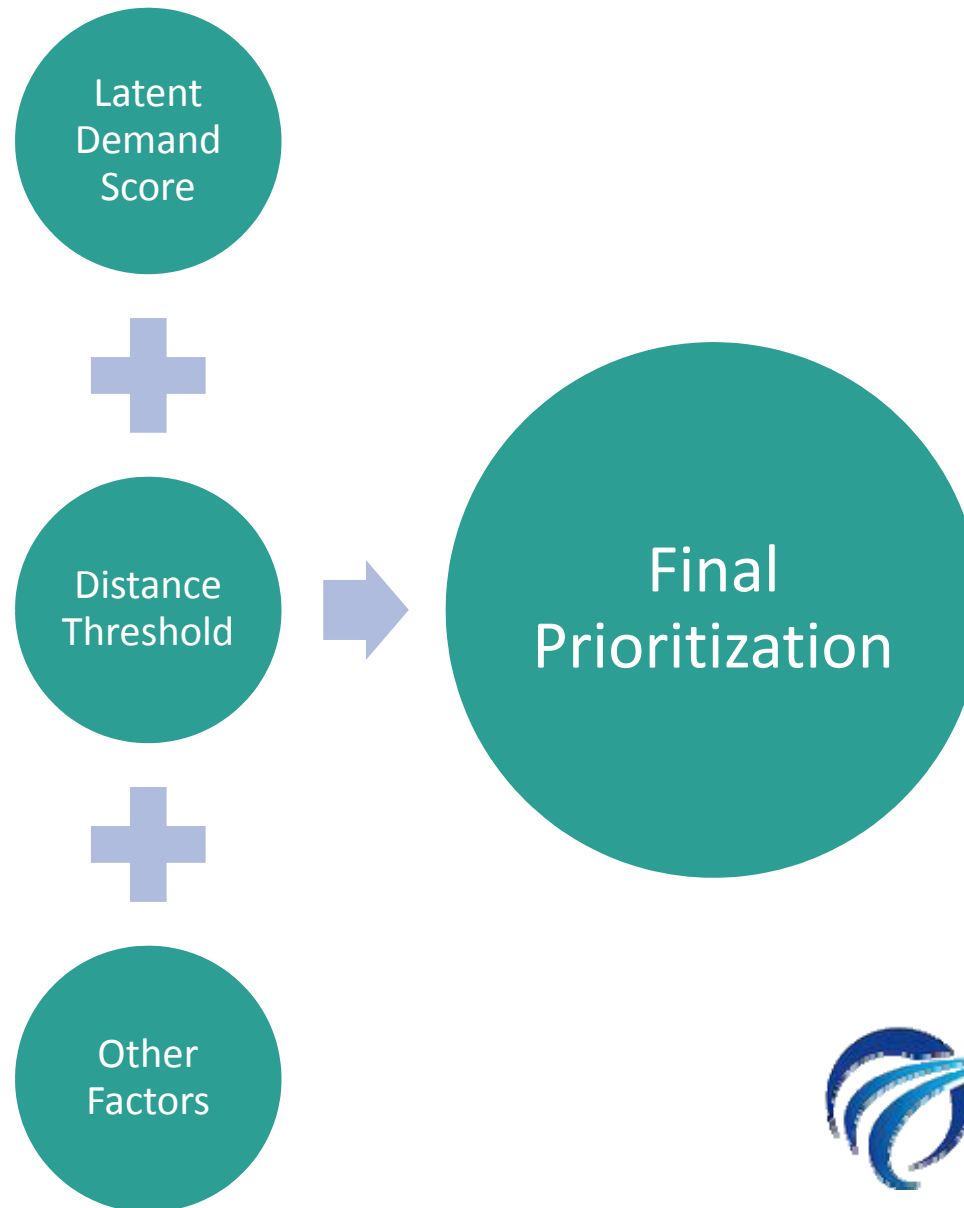
June 8, 2016



Task 1: Regional Gap Analysis for Bike & Trail Facilities

- Identify gaps that disrupt the continuity of biking and walking
- Focus on projects that will provide regional/inter-city connectivity
- Take into account the feasibility of traveling long distance by such modes
- Identify potential sources of funding

Methodology

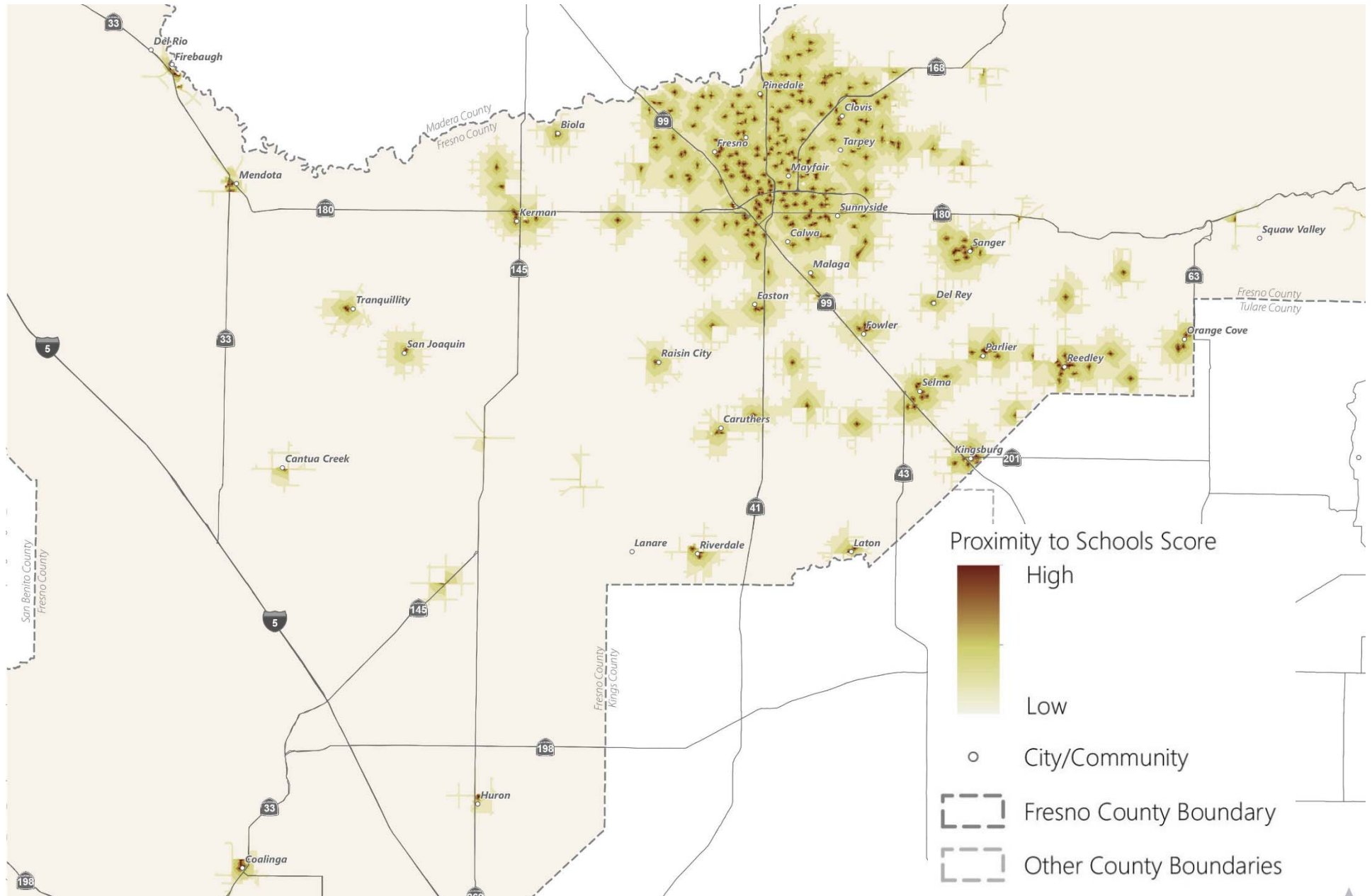


Methodology: Latent Demand

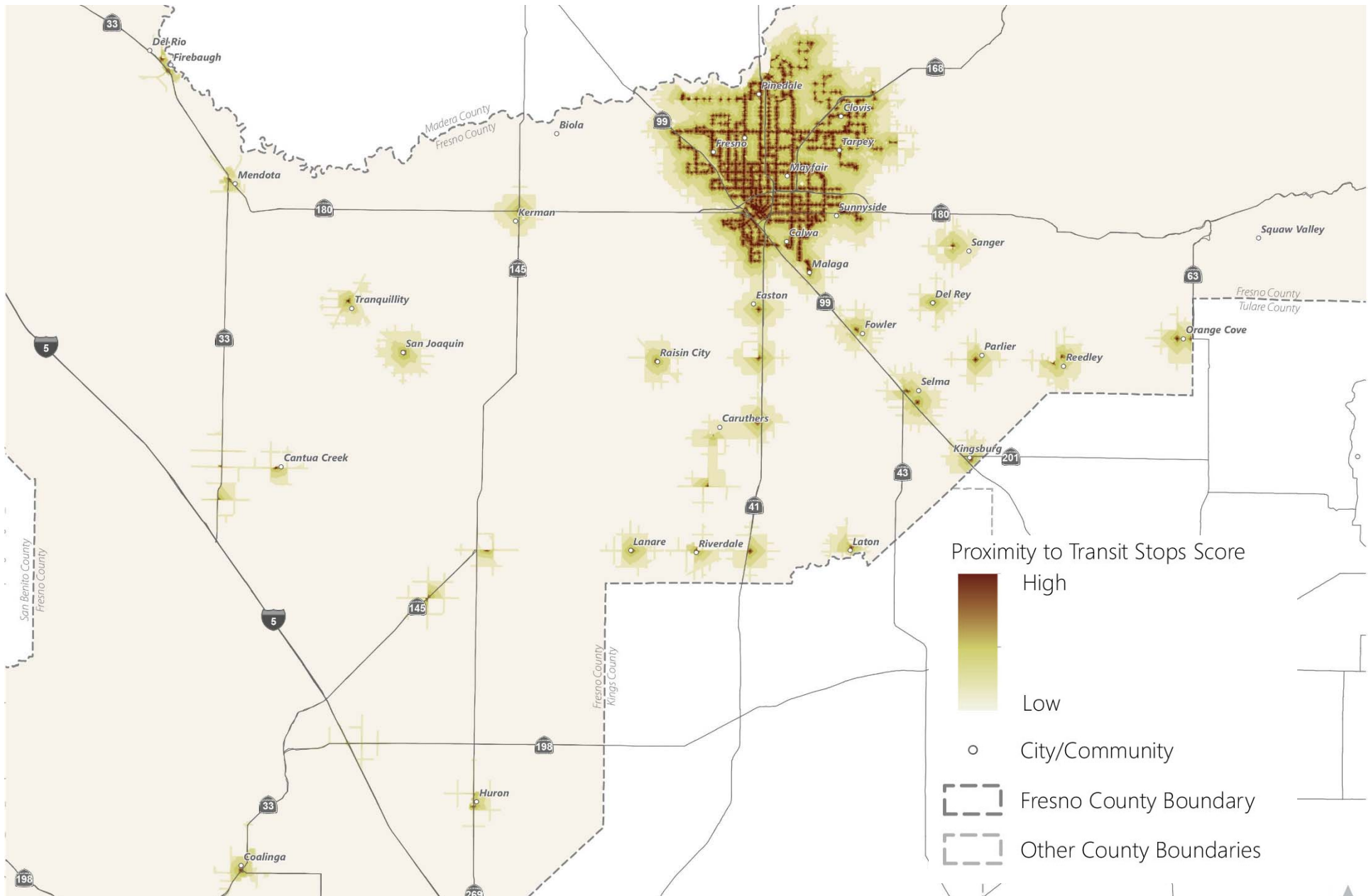
Comprehensive demand score

- Proximity factors
 - Hot spots
 - Schools
 - Transit stops
 - Parks
 - Other key destinations
- Demographic factors
 - Employment density
 - Population density
 - Population 10-17 years old density
 - Percentage of households with zero vehicles
 - Land use mix

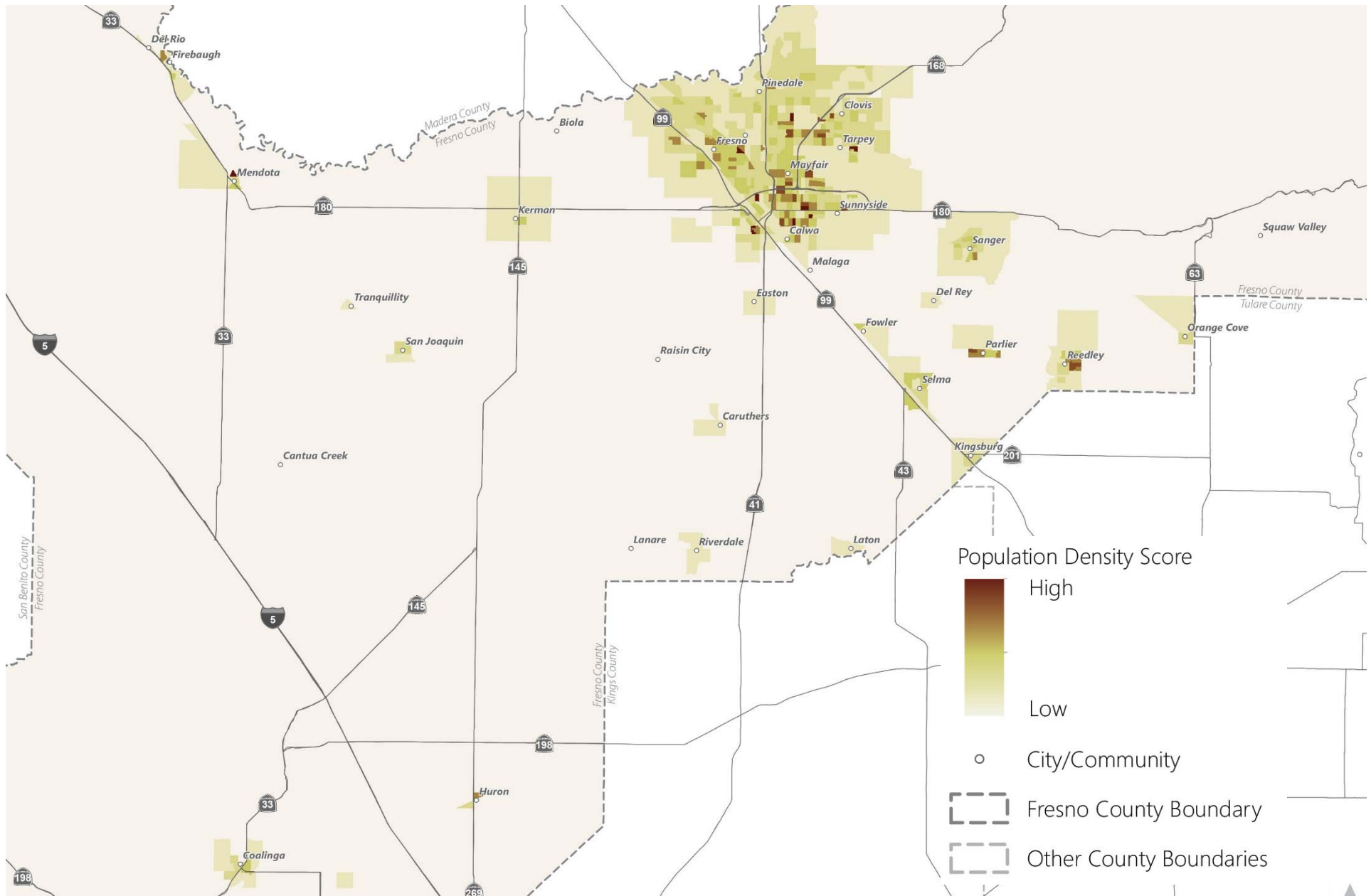
Proximity Factors: Schools



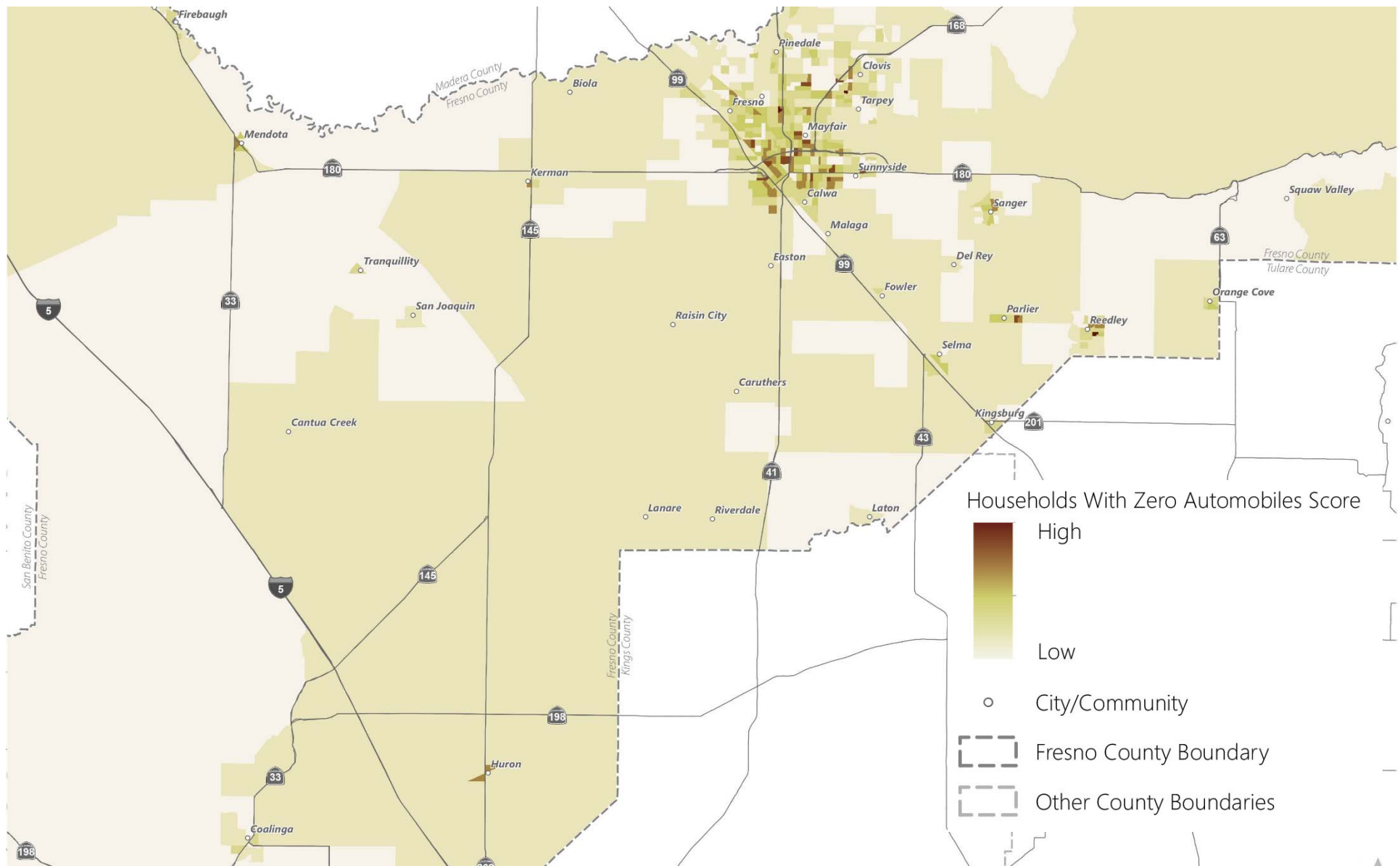
Proximity Factors: Transit Stops



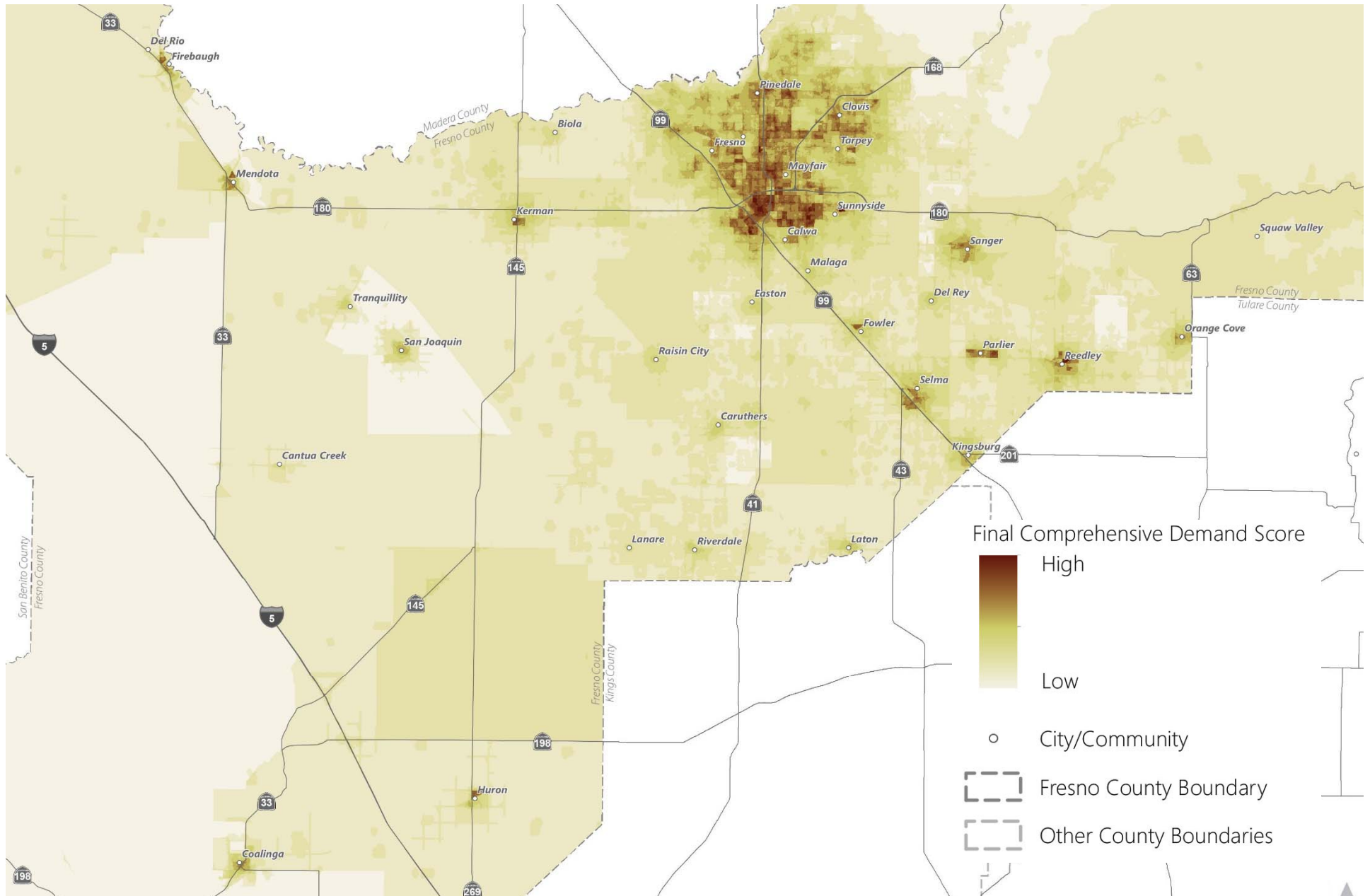
Demographic Factors: Population Density



Demographic Factors: Households with Zero Autos



Comprehensive Demand Score



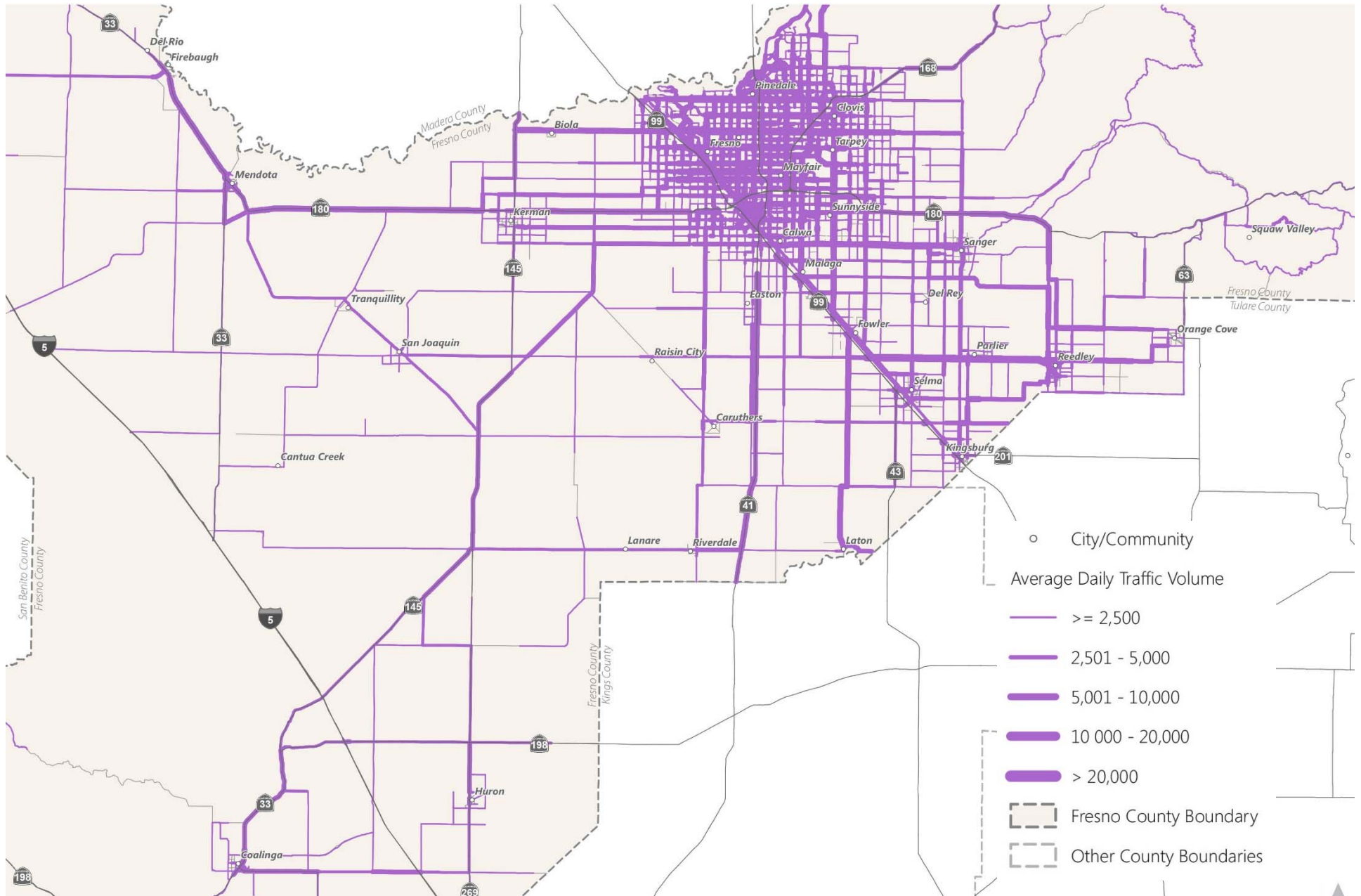
Methodology: Distance Threshold

- Establish reasonable boundaries for the gap analysis
- Maximum distances that bicyclists are likely to travel
- 2012 California Household Travel Survey (Central Valley Region)
- 6 miles encompasses 90% - 95% of all trips

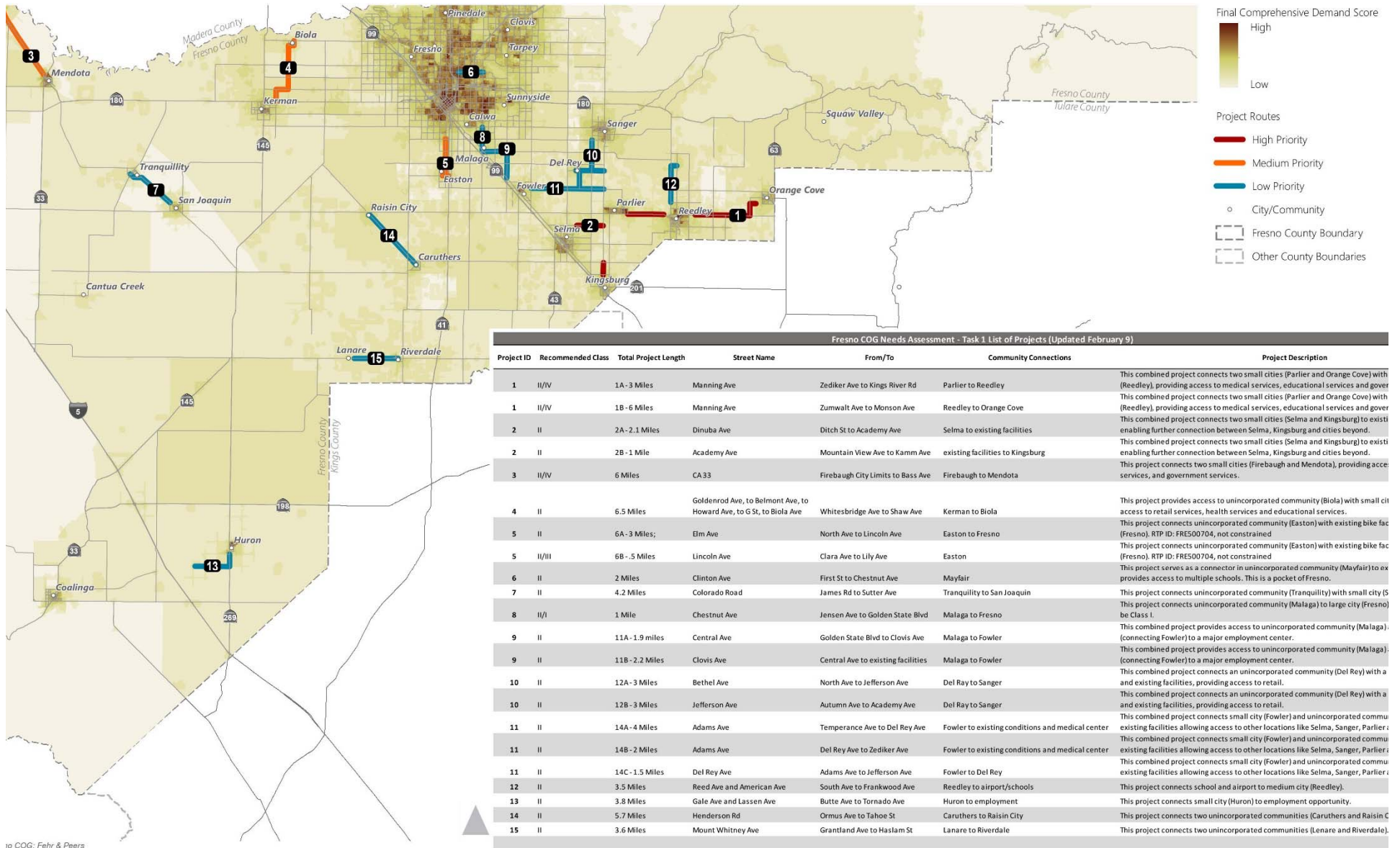
Methodology: Other Factors

- Existing bike and trail network
- Bike related collisions
- Number of lanes
- Traffic volume
- Level of traffic stress
- Limit of incorporated areas

Other Factors: Traffic Volume



Final Prioritization



Story Map: Regional Gap Analysis for Bike & Trail Facilities

Task 2: Transportation Connectivity and Accessibility Analysis

- Evaluate the transportation system's ability to get people to basic services
- Ten major regional/sub-regional facilities (hot spots)
- All modes
 - Bus
 - Biking
 - Walking
 - Private cars
- Focus on disadvantaged communities

Ten Major Hot Spots

Metropolitan area:

- **Fashion Fair Mall**, 645 E. Shaw Ave., Fresno
- **Fresno City College**, Fresno, 1101 E. University Ave., Fresno
- **Fresno County Superior Court**, 1100 Van Ness Ave., Fresno
- **Wawona Frozen Foods**, 100 W. Alluvial Ave., Clovis

Northwest areas:

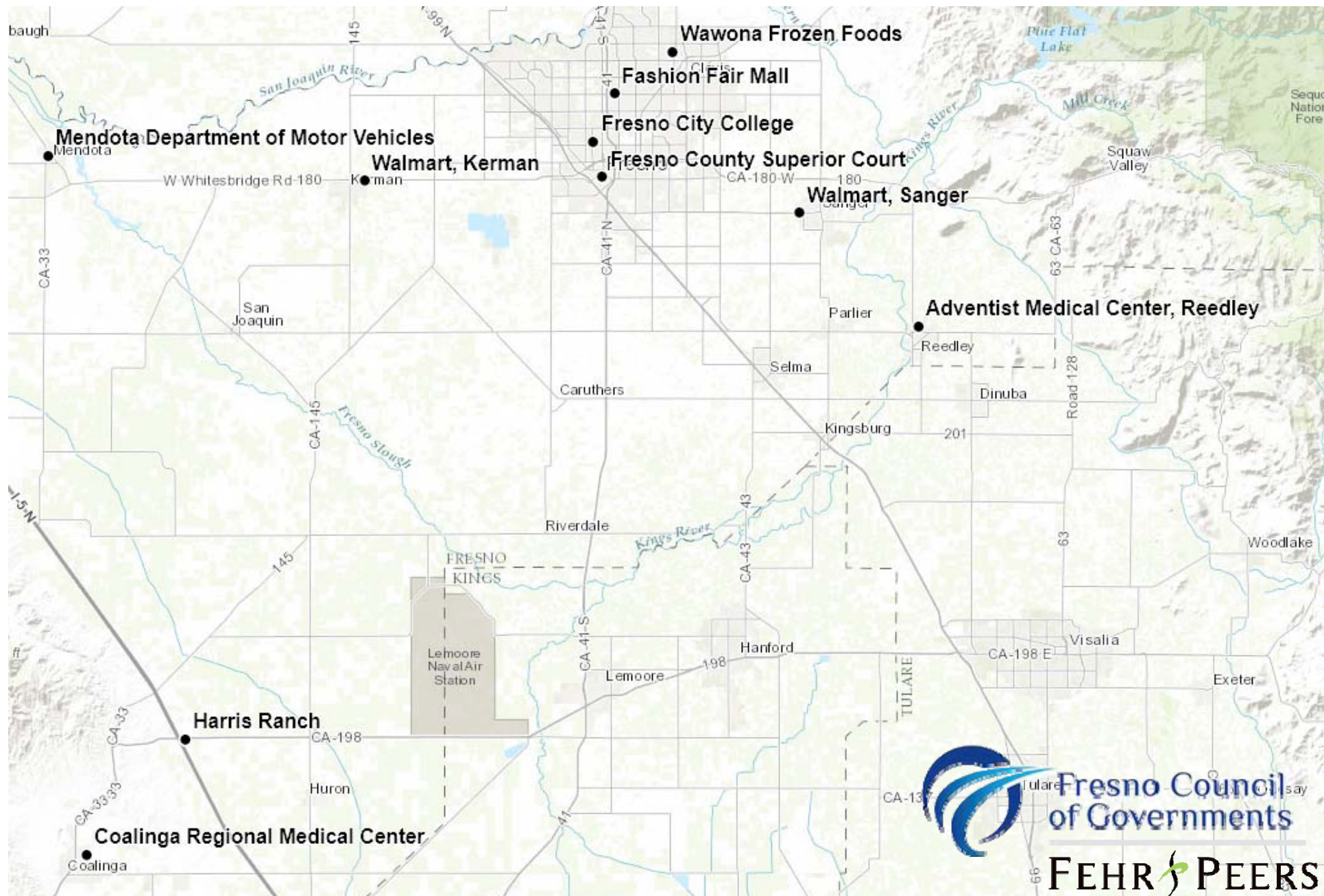
- **Mendota Department of Motor Vehicles**, 642 Pucheu St., Mendota
- **Kerman Walmart**, 14061 W. Whitesbridge Ave., Kerman

Southwest areas:

- **Coalinga Regional Medical Center**, 1191 Phelps Ave., Coalinga
- **Harris Ranch Inn & Restaurant/Dorris Avenue Interchange Commercial Center**, Interstate 5 and State Route 198

East areas:

- **Adventist Medical Center**, 372 W. Cypress Ave., Reedley
- **Sanger Walmart Supercenter**, 2761 Jensen Ave., Sanger



Methodology: Step 1

Missing connectivity and barrier analysis

- Mapped existing connectivity by mode
- Mapped collision locations for pedestrians, bicycles and automobiles
- Evaluated route directness
- Examined the region for missing network connections

Methodology: Step 2

Travelshed analysis

- Walkshed
- Bikeshed
- Transitshed and regional transitshed

Methodology: Step 3

Project Identification

- Recommendations to better serve county residents likely to need access
- Scope did not include a review of full system benefits and costs, further analysis needed to ensure
 - Federal and state ridership thresholds are met
 - Minimum requirement for 10% rural / 20% urban farebox recovery
- Opportunities for more detailed system analysis as funding is available for system improvements

Story Map: Transportation Connectivity and Accessibility Analysis

Next Steps

- Funding
 - Active Transportation Program
 - Measure C
 - San Joaquin Valley Air Pollution Control District (SJVAPCD) Bikeway Incentive Program
 - Other Available Programs
- Identify Opportunities
- Final Decisions Made by Cities/County

Questions?

Task 1 (Regional Gap Analysis) story map:

<http://gis.fehrandpeers.com/fresnocogtask1>

Task 2 (Connectivity and Accessibility) story map:

<http://gis.fehrandpeers.com/fresnocogtask2>

Rod Brown

r.brown@fehrendpeers.com

Carrie Carsell

c.carsell@fehrendpeers.com

Fred Choa

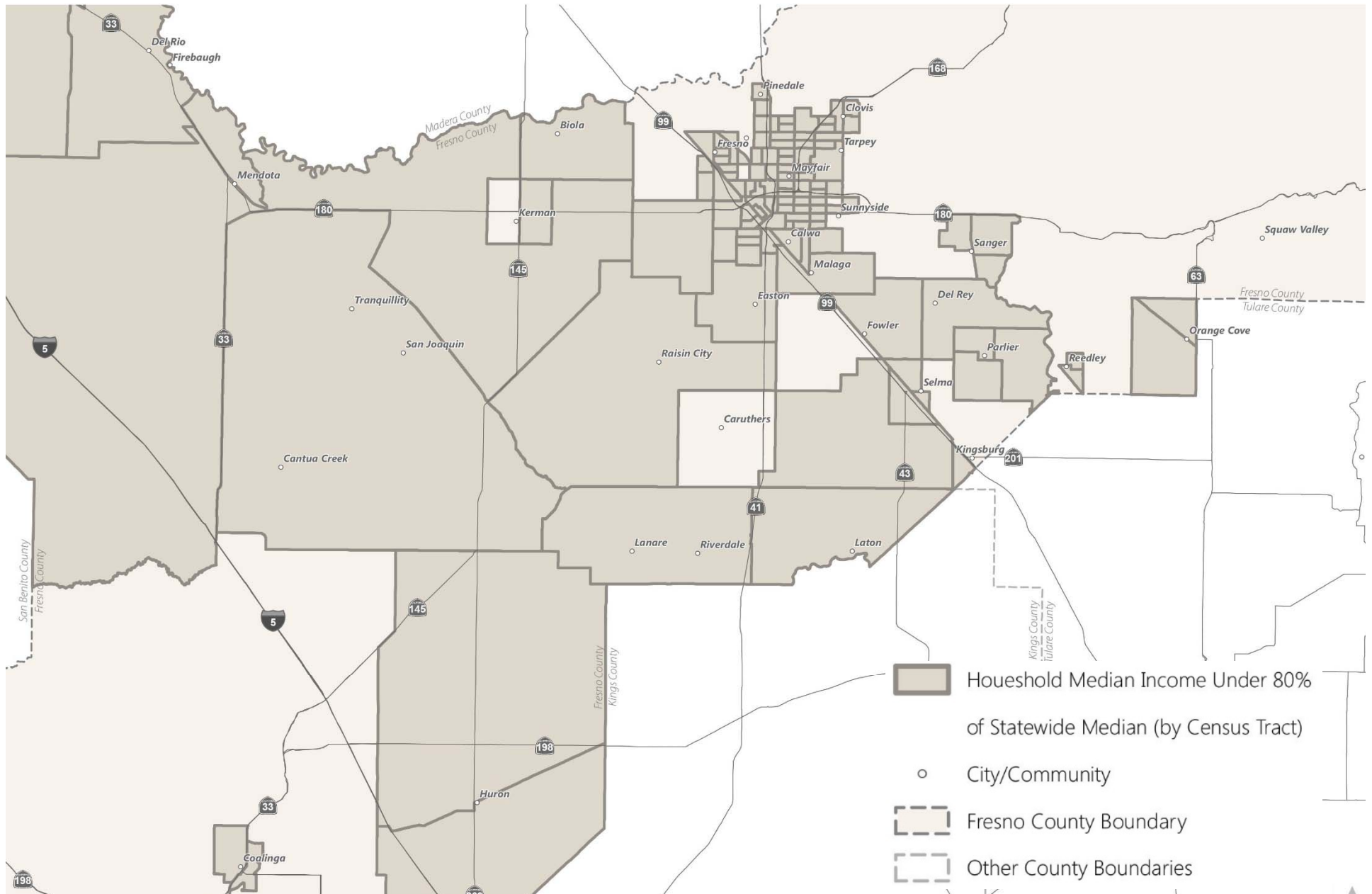
f.choa@fehrendpeers.com

Backup slides

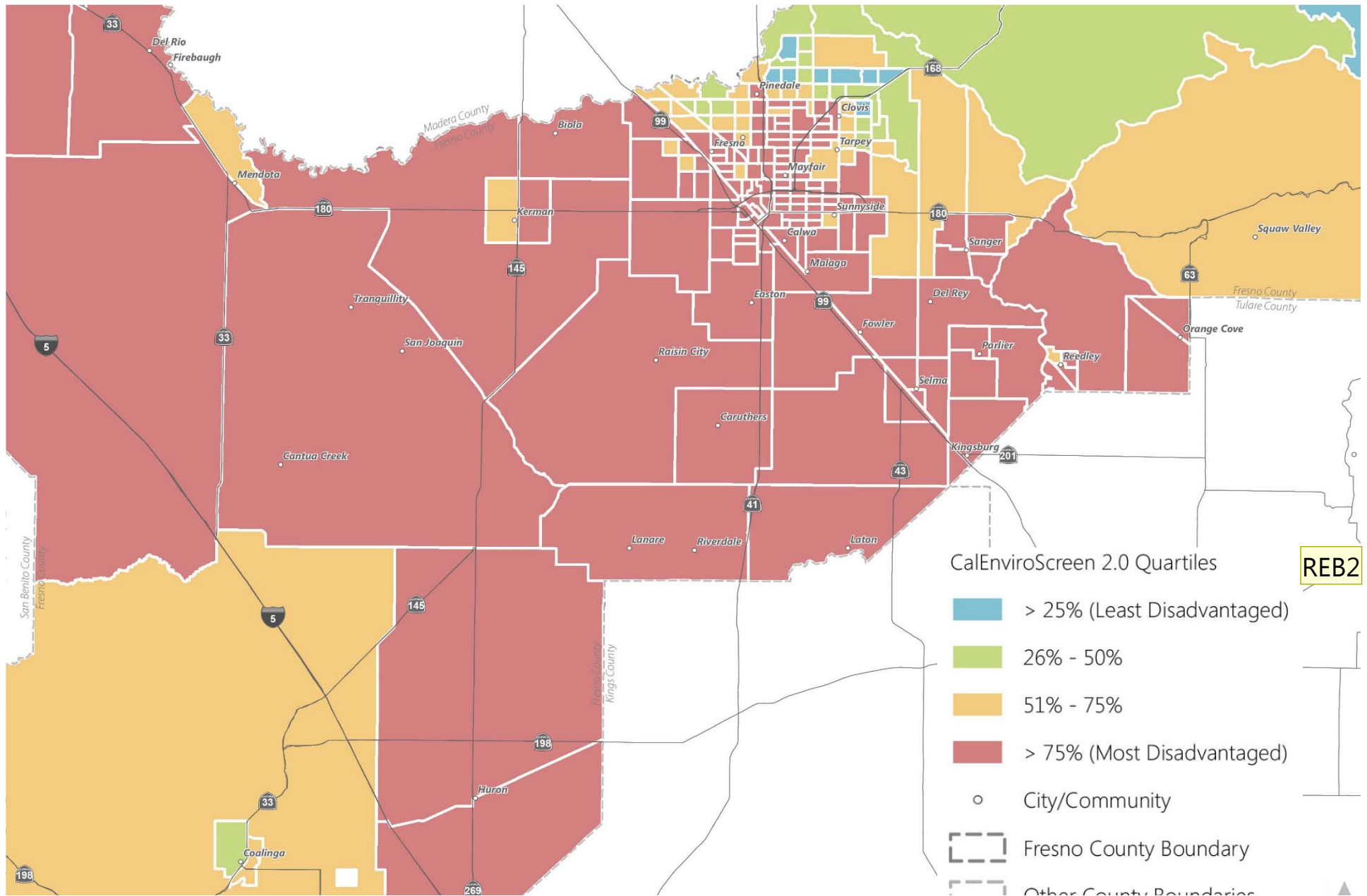
Project Background (KC)

- Needs Assessment program formed in 2014 as part of the implementation of the RTP/SCS
- Two part study:
 - Regional gap analysis
 - Transportation connectivity/accessibility analysis
- Special focus on disadvantaged communities
 - Annual median household income less than 80% of statewide
 - Lowest scoring 25% census tracts per CalEnviroScreen 2.0

Household Median Income



Cal EnviroScreen 2.0



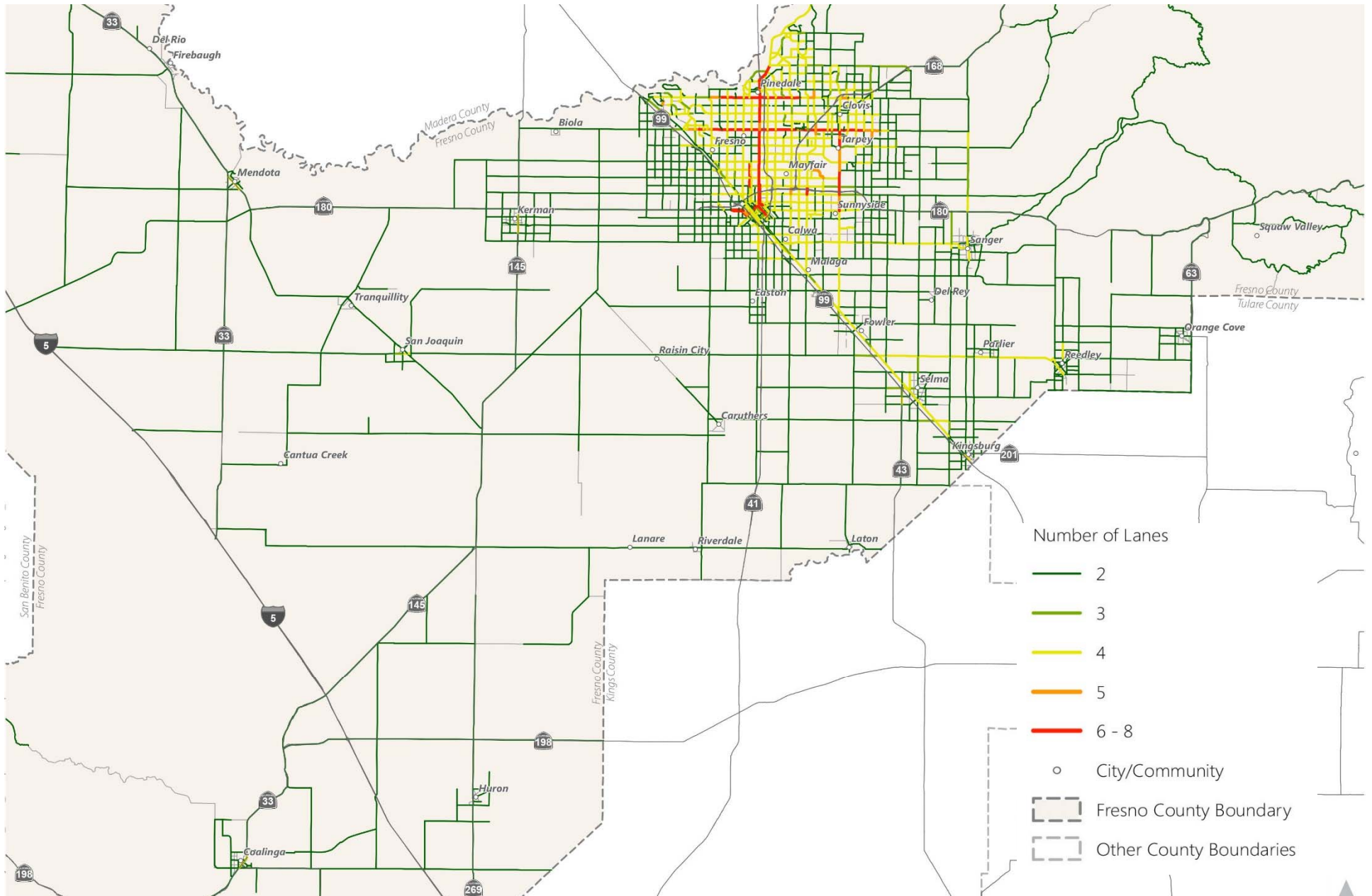
Slide 27

REB2

Should be <25%, not >

Rod Brown, 6/2/2016

Other Factors



Other Factors

