

Alison Linder, PhD Senior Regional Planner Project Manager

1/18/2022

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Project Kick-Off Workshop



#### Ice Breaker - ZOOM POLL



## How often do you shop online?

- Once a month
- Once a week
- More than once a week
- Once a day
- Never



#### **Project Team**



#### SCAG

- Alison Linder, PhD Project Manager
- Prithvi Deore Deputy Project Manager
- Consultant Team Leads
  - Seth Contreras, Fehr & Peers Project Manager
  - Susan DeSantis, Arellano Associates Outreach Lead
  - Tyler Reeb & Tom O'Brien, CITT Education & Workforce Development Leads









# **SoCal Goods Movement Communities Opportunities Assessment Goals and Objectives**

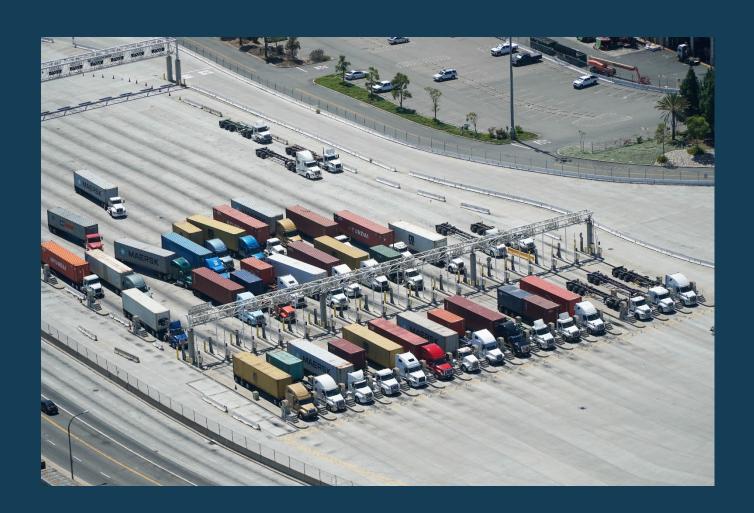


- Engage the populations of identified communities to understand their views related to goods movement challenges and opportunities.
  - Identify burdens related to air quality, traffic, and lack of employment
  - Identify goods movement opportunities and how to connect to them
- Build relationships with disadvantaged, freight impacted and frequently underrepresented communities
  - Prepare, execute, and evaluate an innovative communication approach
- Prepare an Opportunities Toolkit of strategies for the region

#### **Agenda**



- Project Overview
- Workshop Goal + Outcomes
- Listening Breakout Session #1
  - Share-Back
- Listening Breakout Session #2
  - Share-Back
- Next Steps
- Zoom protocol



#### **Workshop Goal and Outcomes**



#### **Primary Goal**

 Present initial analysis of goods movements throughout the region and discuss the opportunities, challenges, and community types associated with goods movement.

#### **Key Outcomes**

- 1. Strategic partnerships with community leaders who are willing to share project updates and opportunities to engage.
- 2. Insight to advance the community types and study process.
- 3. Insight to further define the contents of the opportunities toolkit





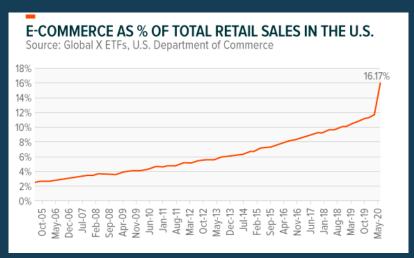
# GOODS MOVEMENT ORIGINS

#### **Supply Chain Evolution**



- Equity & History: How did we get here?
  - Land use and zoning
  - Access to education, jobs and healthcare
- Shift from production, manufacturing, bricks and mortar sale to final assembly, tech developers, and service oriented economy
- In 2020, 16% of total retail sale was e-commerce. Longterm trend shows at least 13% share
- Labour retention: trucking companies are heavily recruiting drivers but they remain short staff

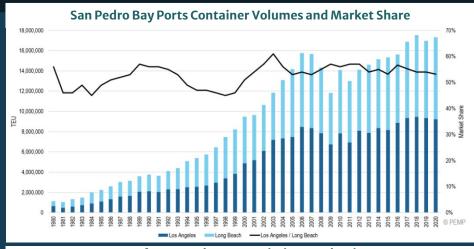


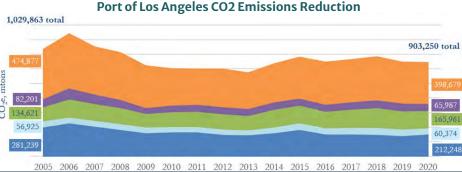


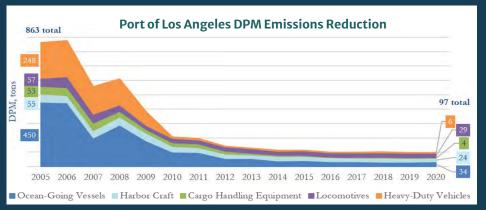
#### **Global Trends and Disruptions**

- Importance of Resiliency: Covid-19 spike in demand (less \$ spent on services and leisure & more on goods) and bottlenecks in global freight flows
- Global Warming: Despite significant investment in zero emission freight technologies and adopting air quality measures, still long way to go.
- Infrastructure deficiency: ports have been pushed to operate 24/7, containers sit too long on docks and terminals due to lack of warehouses, and delayed maintenance of critical facilities









#### **Opportunities**



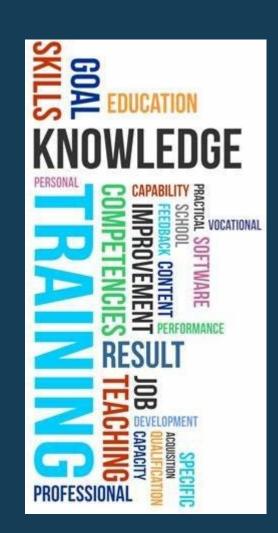
- Economic benefits of goods movement sector: Workforce & career development ensures that local communities have access to the benefits of the freight system, including expanding the ease and speed of obtaining necessary certifications, training programs, and fostering communities of practice where apprenticeships are encouraged in line with community, governmental and industry need
- Pros/Cons when choices/policies are considered
  - Mitigation Strategies
    - Truck Electrification / Plug-in
    - Off-Hour Deliveries / Re-Routing
    - Goods movement infrastructure
    - First/Last Mile Solutions
- Funding resources: AB617, SCAQMD, CARB







- Workforce & Career Development:
  - From High School & Community College to Higher Education: Educate the students on available career pathway opportunities in goods movement
  - Workforce training on truck electrification technology & maintenance
  - Inform communities the skillset prospective logistics employers are looking for when they consider a new development location
  - Here's what the independent/owner operators are also looking for



#### **Regional Challenges**



- Air Quality
- Public Health
- Quality of Life
- Lack of Access to Economic Opportunities
- Disproportionate Impacts on disadvantaged communities
- Potential lack of representation in traditional outreach methods







#### **Local Challenges**



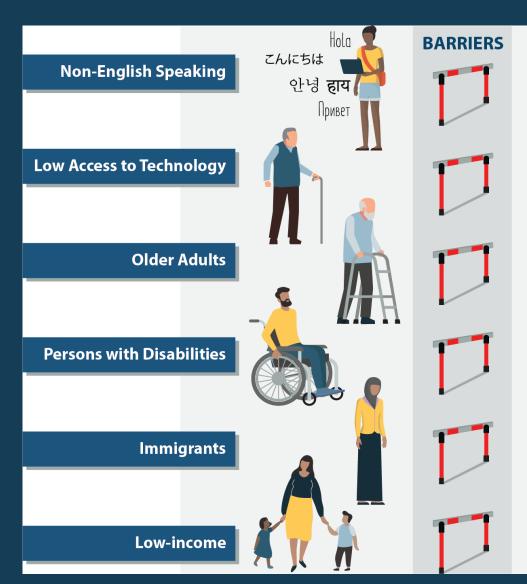
- Parking
- Noise
- Safety
  - Speed, school routes
- Pollution
- Congestion
- Aesthetics / Sense of Community
- Community engagement/participation





#### **Public Engagement Challenges**





- Limited understanding of project/policy issues
- Translation services
- Limited access to internet
- Access to information
- Websites, Surveys, StoryMaps to be mobile-compatible
- Limited access to internet/understanding how to use new technology
- Access to information
- Limited understanding of project/policy issues
- ADA needs venue access, graphics, additional assistance, accessible materials
- Lack of trust or difference in expectations of government
- Limited/different understanding of project/policy issues
- Access to childcare
- Limited time
- Lack of trust in government

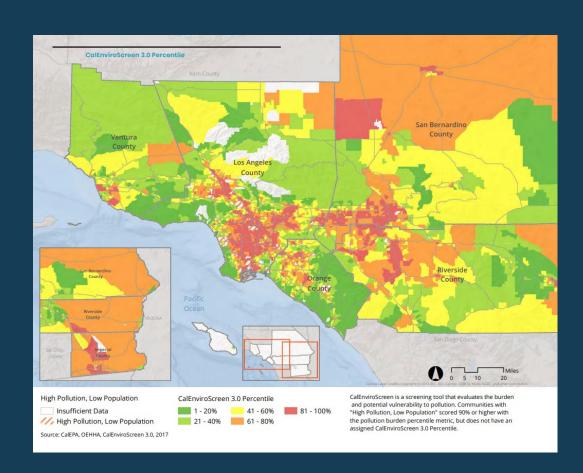


# GOODS MOVEMENT AND EQUITY

#### Study Approach and Deliverables: Community Identification



- Identify 6-8 communities that:
  - Are disproportionately affected by goods movement supply chain
  - Represent various geographic areas and issues
  - Need support to implement and improve equity measures of community health & well-being
- Key Indicators include:
  - Public Health Indicators (tonnage of pollution)
  - Population & Jobs Density
  - Freight intensive Job's Density
  - Median Household Income
  - Access to Transit
  - Proximity to heavy truck corridors
  - Truck-involved collision history
  - CalEnviroScreen



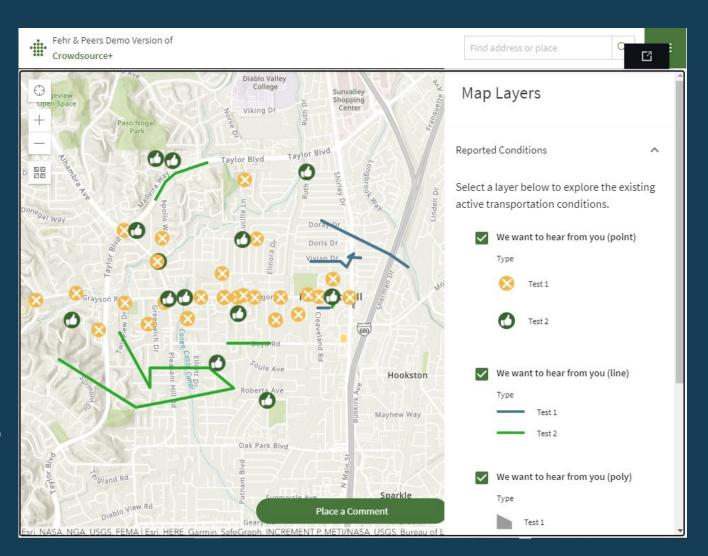


# OPPORTUNITIES TOOLKIT





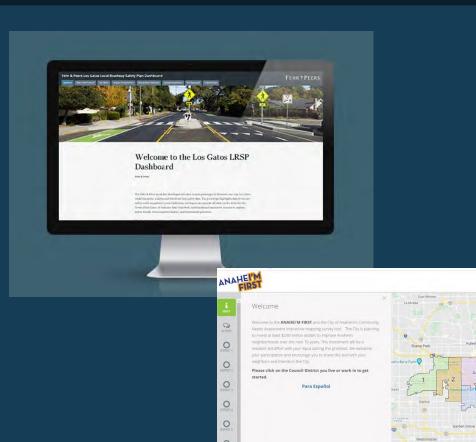
- Discussions with community leaders and elected officials to identify communities of interest
- Public workshops in participating communities
- Online survey using Fehr & Peers Crowdsource+ Tool
- Community Advisory Committee (CAC)
- Partnerships with community-based organizations to amplify grassroots outreach and opportunities to engage







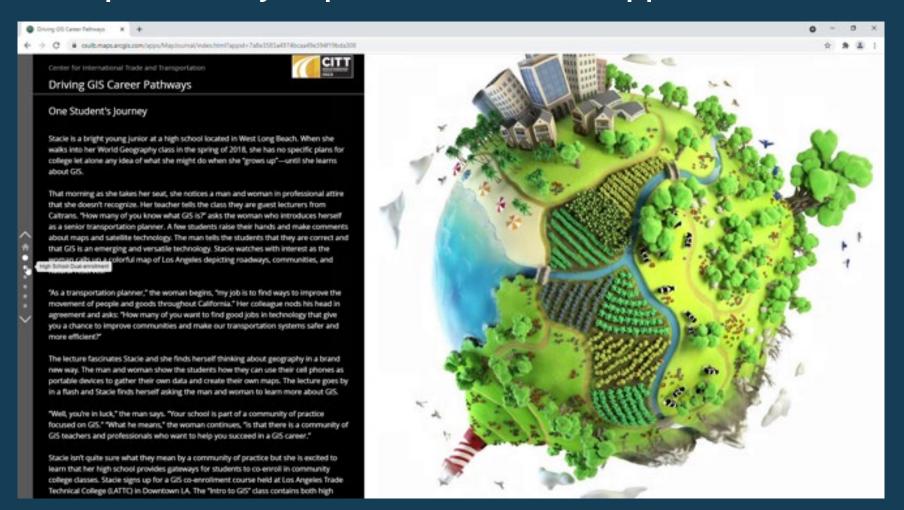
- Toolkit StoryMap development approach
  - CrowdSource+
  - Focus groups
  - ESRI
- Toolkit targeted to 3 different audiences
  - Community-based organizations & leaders
  - Public agencies
  - Elected officials
- Toolkit and strategies shall be focused around
  - Workforce & career development opportunities
  - Co-generated strategies & potential grants/funding
  - Communication & engagement best practices





#### **Study Approach and Deliverables: Toolkit Examples**

Example of StoryMap & CrowdSource + applications



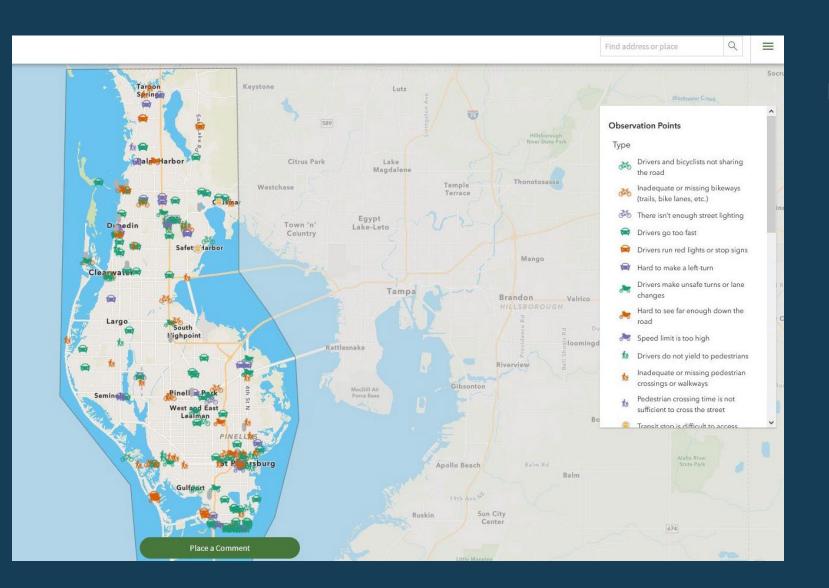
#### Study Approach and Deliverables: Toolkit Development





#### **Study Approach and Toolkit Development**



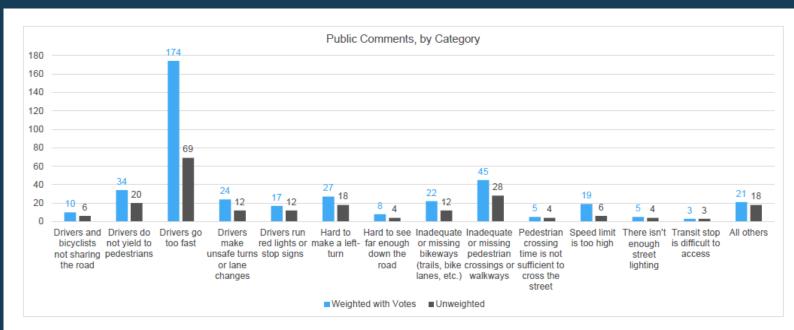


"The Crowdsource+ tool was a valuable resource for Safe Streets Pinellas. It provided the public with an easy way to let us know their concerns, upload a picture, and upvote what other people noted."

> Sarah Caper, AICP, Principal Planner Forward Pinellas

#### **Study Approach and Toolkit Development**





	areas to look into."
Sarah Capei	r, AICP, Principal Planner Forward Pinellas

"We were then able to analyze the feedback using clear categories and see how it looked when compared to other data sources – confirming things we already knew and providing suggestions for other

WEIGHTED	
Туре	Total
Another issue	3
Another issue	18
Drivers and bicyclists not sharing the road	10
Drivers do not yield to pedestrians	34
Drivers go too fast	174
Drivers make unsafe turns or lane changes	24
Drivers run red lights or stop signs	17
Hard to make a left-turn	27
Hard to see far enough down the road	8
Inadequate or missing bikeways (trails, bike lanes, etc.)	22
Inadequate or missing pedestrian crossings or walkways	45
Pedestrian crossing time is not sufficient to cross the stree	
Speed limit is too high	19
There isn't enough street lighting	
Transit stop is difficult to access	3
(blank)	
Grand Total	414

UNWEIGHTED	
Type	Total
Another issue	3
Another issue	15
Drivers and bicyclists not sharing the road	6
Drivers do not yield to pedestrians	20
Drivers go too fast	69
Drivers make unsafe turns or lane changes	12
Drivers run red lights or stop signs	12
Hard to make a left-turn	18
Hard to see far enough down the road	4
Inadequate or missing bikeways (trails, bike lanes, etc.)	12
Inadequate or missing pedestrian crossings or walkways	28
Pedestrian crossing time is not sufficient to cross the stree	4
Speed limit is too high	6
There isn't enough street lighting	4
Transit stop is difficult to access	:
(blank)	
Grand Total	216



## **PROJECT OUTCOMES**

#### **Expected Project Outcomes**



- Improved approach to outreach with goods movement impacted communities
- Identification and evaluation of innovative outreach tools
- Improved understanding of challenges faced by goods movement impacted communities and how they are perceived
- Locally generated solutions and best practices to address goods movement challenges

Ultimately, **community empowerment** to address goods movement challenges and benefit from economic opportunities



#### **Tangible Products**



- Develop a map of goods movement community types using data and stakeholder feedback
- Engage communities to generate solutions to local challenges together, and share them in a storymap, collection of videos and final report
- A toolkit for the region:
  - Directory of workforce opportunities including training programs and job boards
  - Best practices of equitable outreach strategies
    - Templates and facilitator guides for engagement plans, media toolkits, and other outreach tools
  - Best practices for mitigating freight impacts, plus grants/funding



# LISTENING BREAKOUT SESSIONS



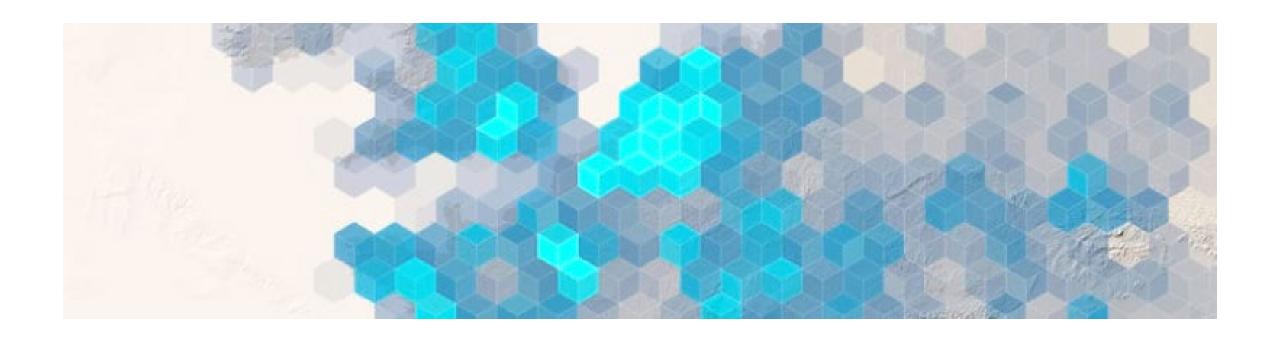
# LISTENING BREAKOUT SESSION #1



# LISTENING BREAKOUT SESSION #1 Share Back



# **Community Identification**



## **COMMUNITY IDENTIFICATION**

FEHR PEERS

# COMMUNITY TYPE VARIABLES



#### **Population**

- Total Population
- Working Population (ages 15 64).
   Census Block Groups with more than 10 people



#### **Pollution Burden**

- Truck Vehicle Hours Traveled (VHT)
- Truck Vehicle Miles Traveled (VMT)
- Pollution Tonnage



#### **Employment**

- Total Jobs
- Freight Intensive Jobs



#### **Income and Access**

- Median Household Income
- Total Population using Public Transportation to travel to/from work



**CalEnviroScreen** 



**Truck-Involved Collisions (2016-2020)** 

#### CALENVIROSCREEN



#### **Exposure Indicators**

 Air Quality, Diesel PM, Drinking Water Contaminants, Pesticides, Toxic Releases, Traffic Impacts



#### **Sensitive Population Indicators**

 Asthma, Cardiovascular Disease, Low Birth Weight Infants



#### **Environmental Effects Indicators**

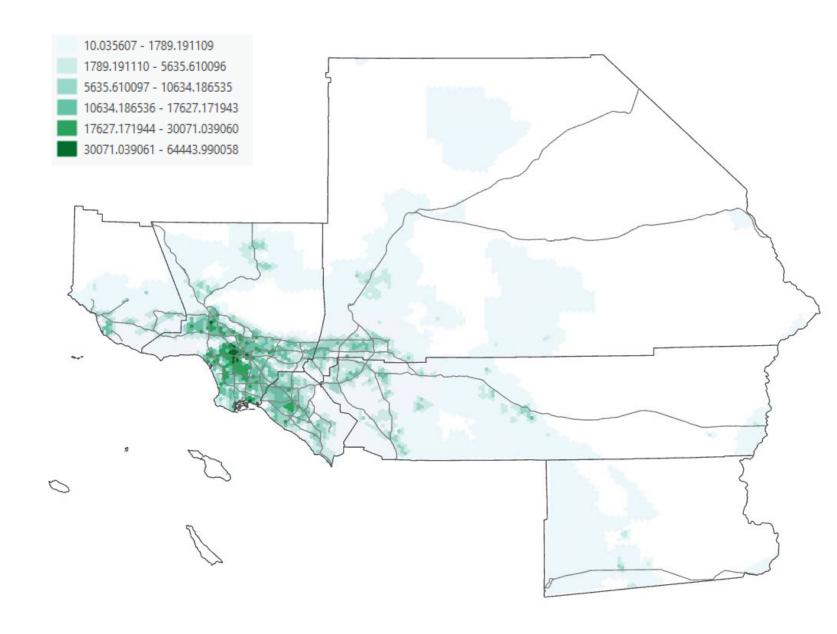
 Cleanup Sites, Groundwater Threats, Hazardous Waste Generators and Facilities, Impaired Water Bodies, Solid Waste Site and Facilities



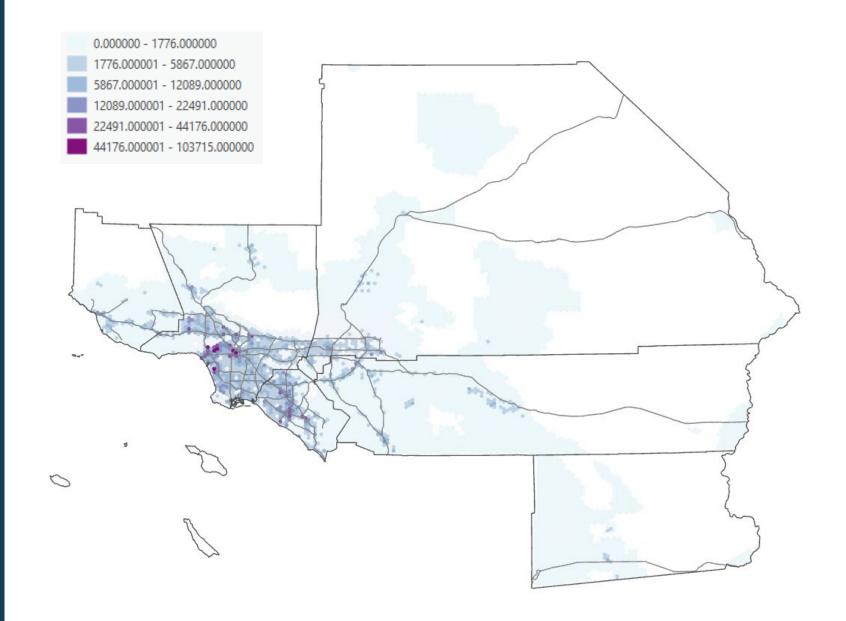
#### **Socioeconomic Factor Indicators**

 Educational Attainment, Housing-Burden Low-Income Households, Linguistic Isolations, Poverty, Unemployment

#### WORKING POPULATION



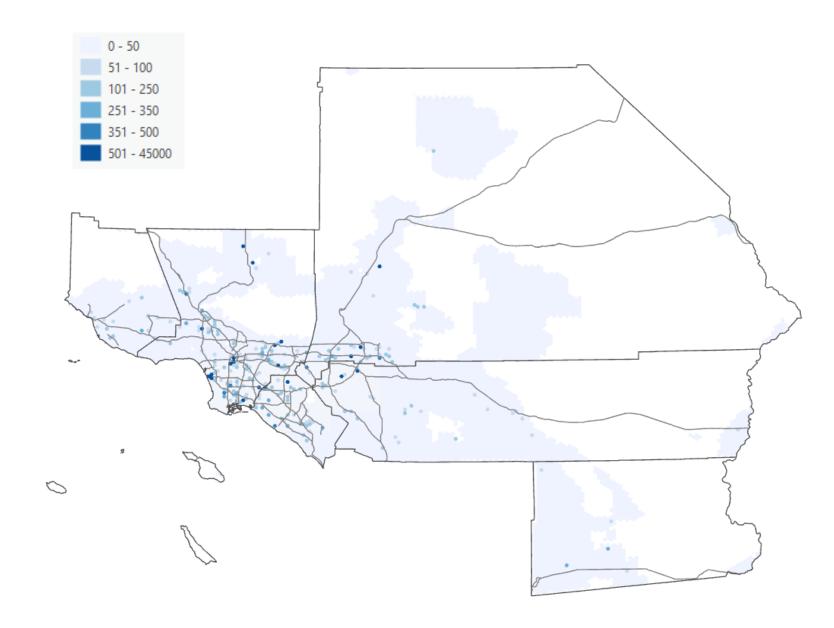
#### TOTAL JOBS



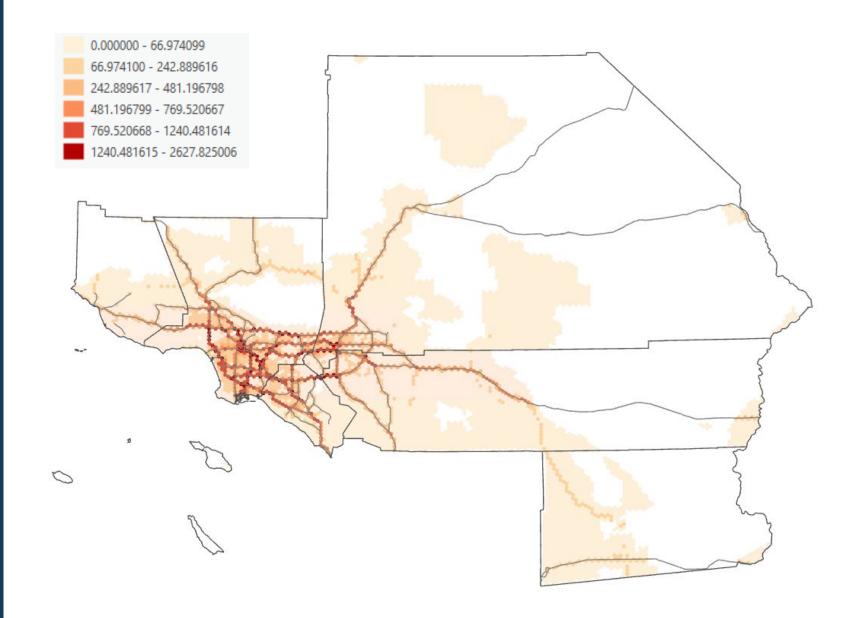
## FREIGHT INTENSIVE JOBS

## North American Industry Classification System (NAICS):

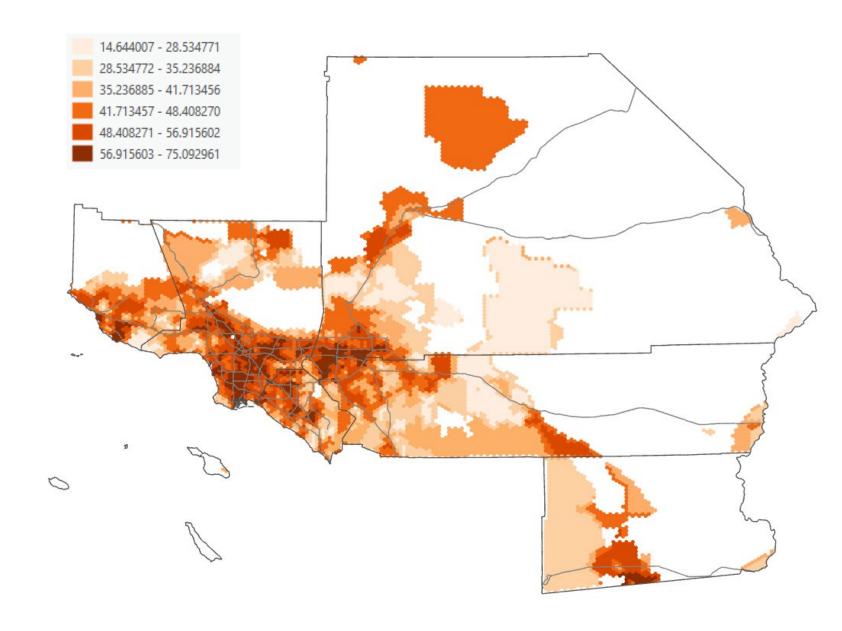
- Agriculture, Forestry, Fishing and Hunting
- Mining, Quarrying, and Oil and Gas Extraction
- Utilities
- Construction
- Manufacturing
- Wholesale Trade
- Transportation and Warehousing



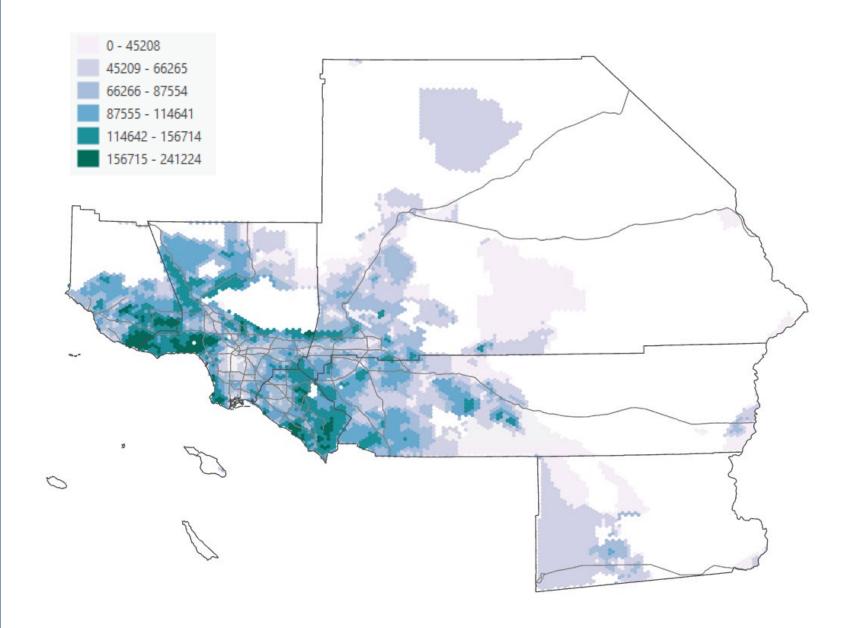
# TOTAL TRUCK VHT



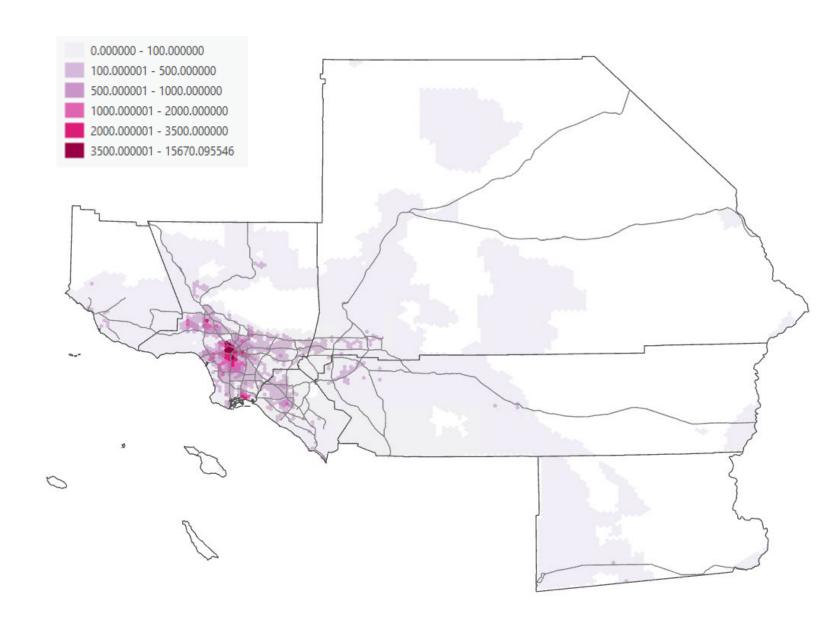
## POLLUTION TONNAGE



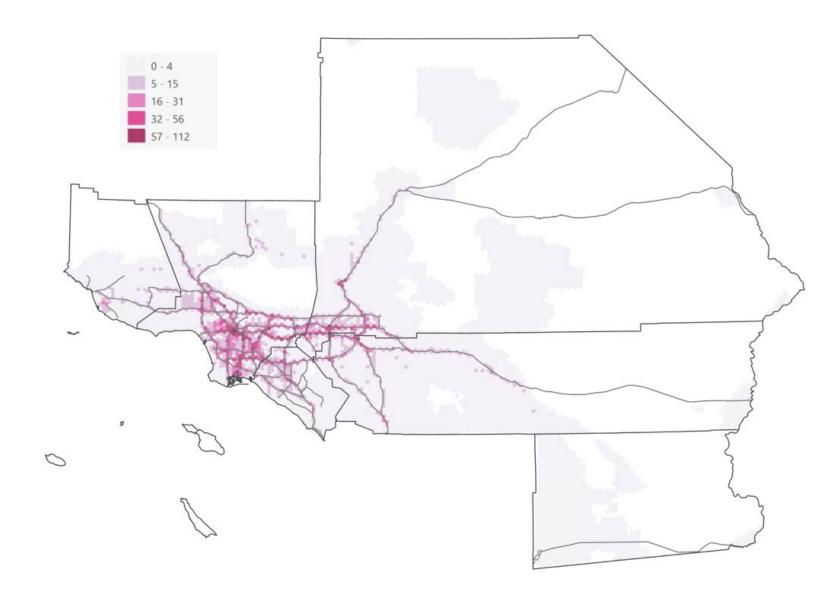
## MEDIAN HOUSEHOLD INCOME



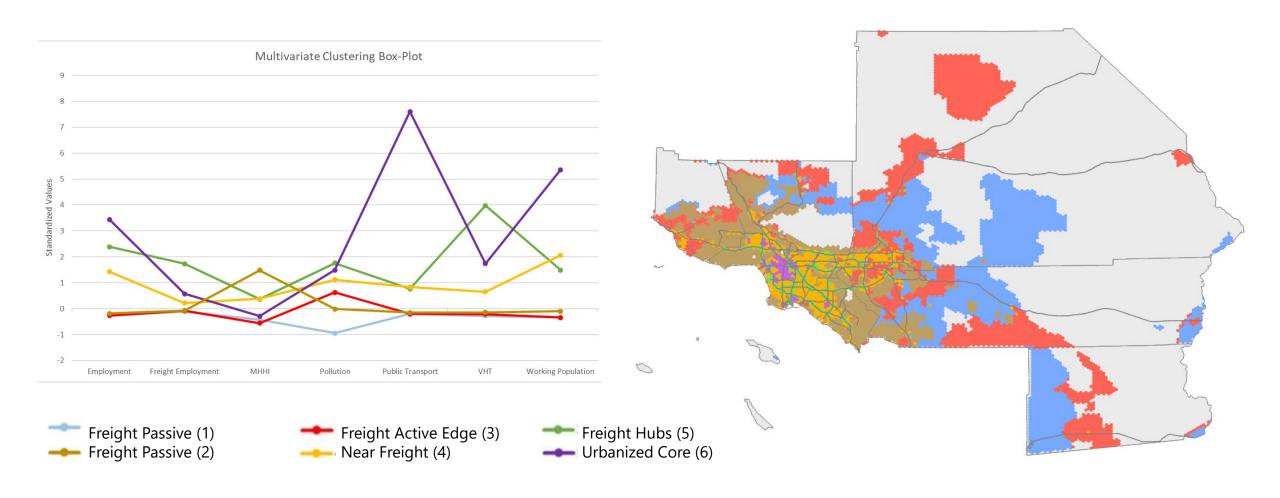
## PUBLIC TRANSPORT



# TRUCK-INVOLVED COLLISIONS



# SCENARIO OVERVIEW-6 COMMUNITY TYPES



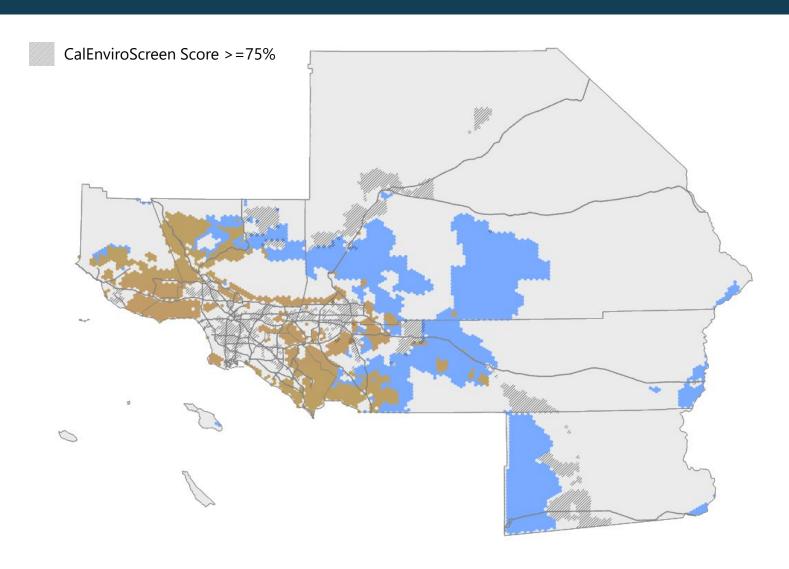
# FREIGHT PASSIVE TYPE

#### **Community Types 1 & 2 Breakdown**

Variable	Type 1	Type 2
Total Employment	Low	Low
Freight Employment	Low	Low
МННІ	Low	High
Pollution	Low	Low
Public Transport	Low	Low
Truck Vehicle Hours Traveled (VHT)	Low	Low
Working Population (15 – 64)	Low	Low

#### **Community Examples**

None



# FREIGHT ACTIVE EDGE **TYPE**

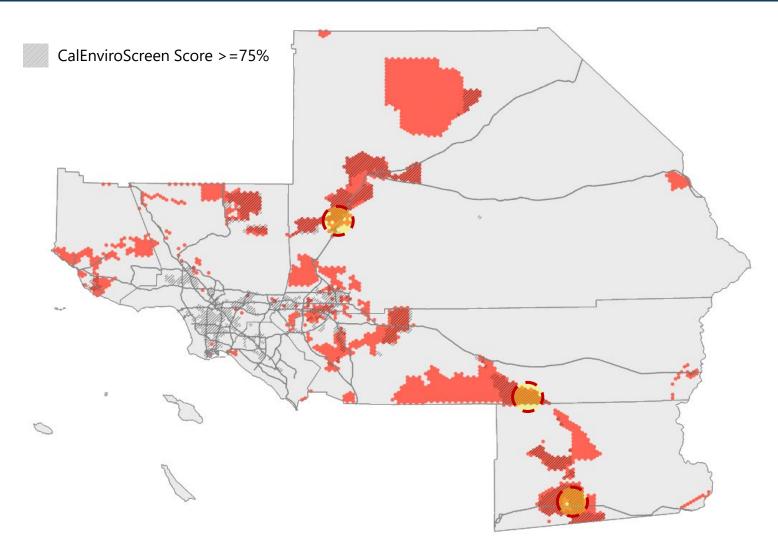
#### **Community Type Breakdown**

Variable	Community Type 3
Total Employment	Low
Freight Employment	Low
МННІ	Low
Pollution	Medium
Public Transport	Low
Truck Vehicle Hours Traveled (VHT)	Low
Working Population (15 – 64)	Low

#### **Community Examples**



Calexico/El Centro, North Salton Sea, Victorville



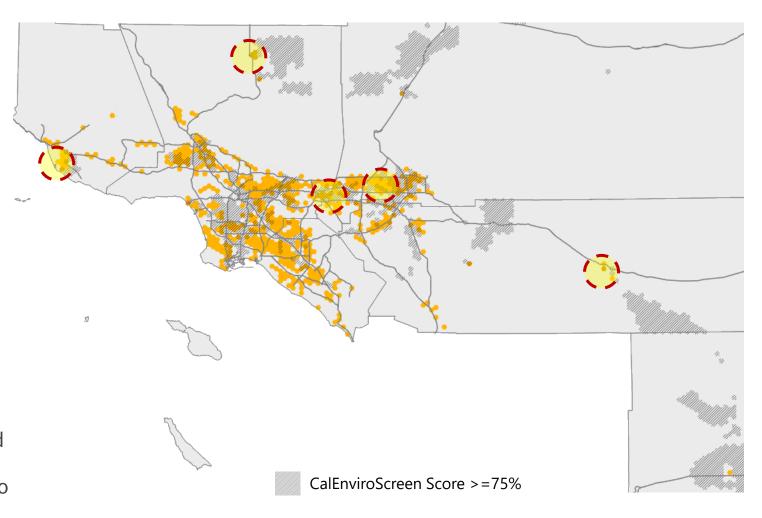
#### NEAR FREIGHT TYPE

#### **Community Type Breakdown**

Variable	Community Type 4
Total Employment	Medium
Freight Employment	Medium
МННІ	Medium-High
Pollution	Medium-High
Public Transport	Medium
Truck Vehicle Hours Traveled (VHT)	Medium
Working Population (15 – 64)	Medium-High

#### **Community Examples**

Indio, Lancaster (e/o SR-14), El Rio/Nyland Acres (NE/o Port Hueneme), Pomona (w/o Ontario Airport), Colton (n/o 10 fwy), Rialto



# FREIGHT EMPLOYMENT HUBS & FREEWAY ADJACENT TYPE

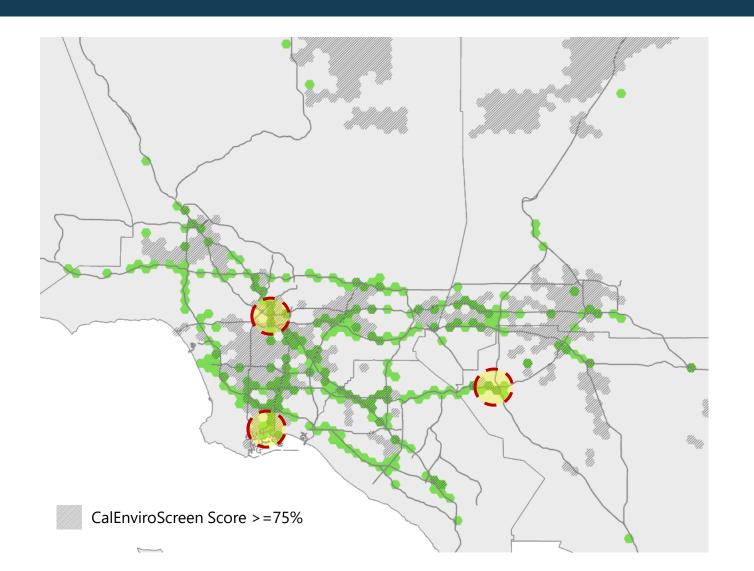
#### **Community Type Breakdown**

Variable	Community Type 5
Total Employment	Medium
Freight Employment	High
МННІ	Medium
Pollution	High
Public Transport	Medium
Truck Vehicle Hours Traveled (VHT)	High
Working Population (15 – 64)	Medium-High

#### **Community Examples**



Long Beach (w/ol-710) around ICTF area, Corona Airport (I-15 and CA-91 interchange), around LATC railyard (DT LA)



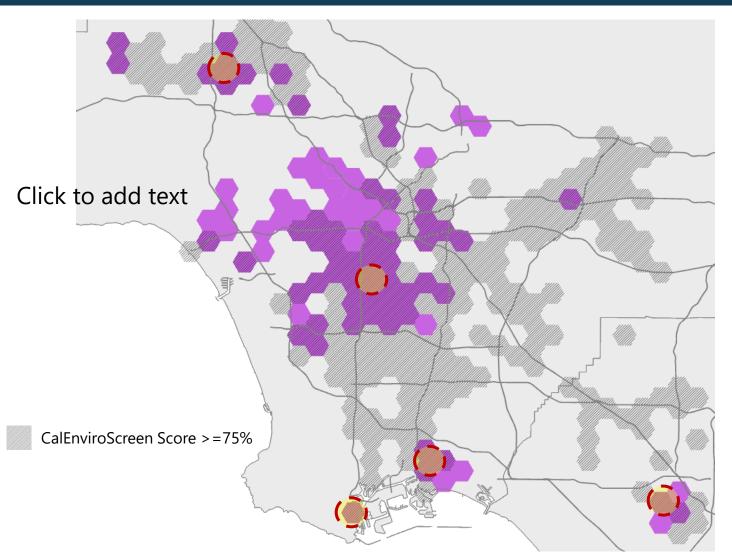
# DENSE URBAN CENTERS TYPE

#### **Community Type Breakdown**

Variable	Community Type 6
Total Employment	High
Freight Employment	Medium
МННІ	Medium-Low
Pollution	High
Public Transport	High
Truck Vehicle Hours Traveled (VHT)	Medium
Working Population (15 – 64)	High

#### **Community Examples**

San Pedro, DT LB, Santa Ana, along 110 (n/o 105), Van Nuys/Panorama City



### HIGHLIGHTS OF EACH COMMUNITY TYPE

#### **Freight Employment Hubs Dense Urban Centers Freight Active Edge Near Freight** & Freeway Adjacent Low freight Moderate freight High total High freight employment/working pop. employment/working pop. employment/working pop. employment/working pop. density density density density Moderate pollution Moderate pollution • High access to transit High pollution Low truck traffic Moderate truck traffic Moderate truck traffic • High truck traffic













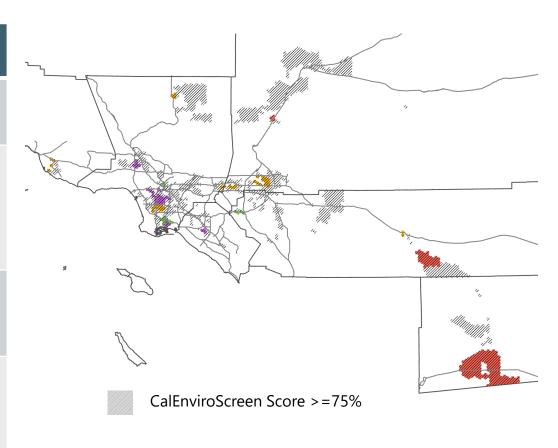




Images are from google photos

## **COMMUNITY EXAMPLES**

Community Types	Community Examples	Sub Regions
Freight Active Edge Type	<ol> <li>Calexico/El Centro</li> <li>North Salton Sea</li> <li>Victorville</li> </ol>	<ul><li>Imperial County</li><li>Coachella Valley AG</li><li>San Bernardino County</li></ul>
Near Freight Type	<ol> <li>Indio</li> <li>Lancaster (e/o SR-14)</li> <li>El Rio/Nyland Acres (NE/o Port Hueneme)</li> <li>Pomona (w/o Ontario Airport)</li> <li>Colton (N/o I-10)</li> <li>Rialto</li> </ol>	<ul><li>Coachella Valley AG</li><li>North L.A. County</li><li>Ventura County</li><li>San Gabriel Valley</li><li>San Bernardino County</li></ul>
Freight Employment Hubs & Freeway Adjacent Type	<ul><li>10. Long Beach (W/o I-710) near Intermodal Container Transfer Facility (ICTF)</li><li>11. Corona Airport (I-15 &amp; CA-91 interchange)</li><li>12. LATC railyard (Downtown Los Angeles)</li></ul>	<ul><li>South Bay Cities</li><li>West Riverside COG</li><li>Central Los Angeles</li></ul>
Dense Urban Centers Type	<ul> <li>13. San Pedro</li> <li>14. Downtown Long Beach</li> <li>15. Santa Ana</li> <li>16. Near I-110 (n/o I-105 fwy)</li> <li>17. Van Nuys/Panorama City</li> </ul>	<ul><li>South Bay Cities</li><li>Gateway Cities</li><li>Orange County</li><li>Westside Cities</li><li>San Fernando Valley</li></ul>





# LISTENING BREAKOUT SESSION #2



# LISTENING BREAKOUT SESSION #2 Share Back

#### **Next Steps**



- Reconcile the feedback with the initial analysis & Identify the 6-8 Communities
  - Diverse geographic & issue representation
  - Community interest & engagement
- Opportunities to get involved:
  - We'd like to hear from the CBO & COG members
    - Early on Other than funding opportunities, what information would be helpful for you to include in the toolkit?
    - What are some of your existing barriers to implementing strategies that reduce goods movement impacts on your communities?
    - Later on Volunteers to review the beta version of the Toolkit and provide feedback



Everything you buy touches a truck at some point!

# Thank you

Alison Linder, PhD
Senior Regional Planner
linder@scag.ca.gov | +1 (213) 236-1934
www.scag.ca.gov



# SOCAL GOODS MOVEMENT COMMUNITIES OPPORTUNITIES ASSESSMENT

Project Kick-Off Workshop



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