

Resilient Development in Fontana, CA

Transportation Policy & Planning Studio

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Overview



Increasing
e-commerce



Lost opportunities for
collaboration



Proposed regulation

Agenda

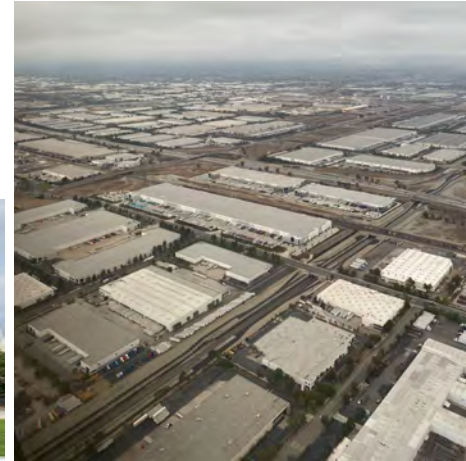
1. Methods
2. Context
3. Findings & Recommendations
 - a. Regulation for Sustainable Growth
 - b. Regional Cooperation
 - c. Just & Inclusive Growth
 - d. Strategic Infrastructure Initiatives
 - e. Community Collaboration
4. Conclusion

Methods



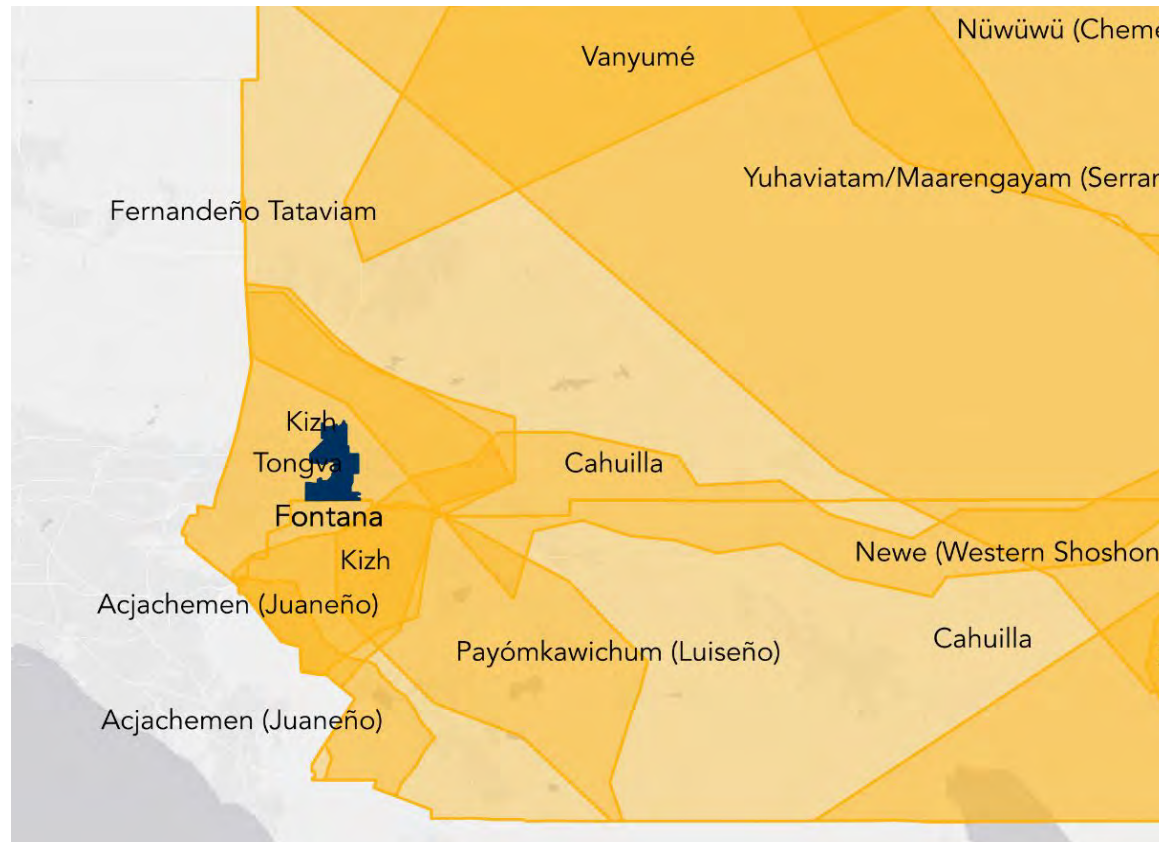
- Site Visit
- Literature & Policy Review
- Socio-Demographic Analysis
- Economic Analysis
- Industry & Occupation Analysis
- Truck Electrification Scenario Modeling

- Road Safety and Collision Analysis
- Air Quality Analysis



Background / Context

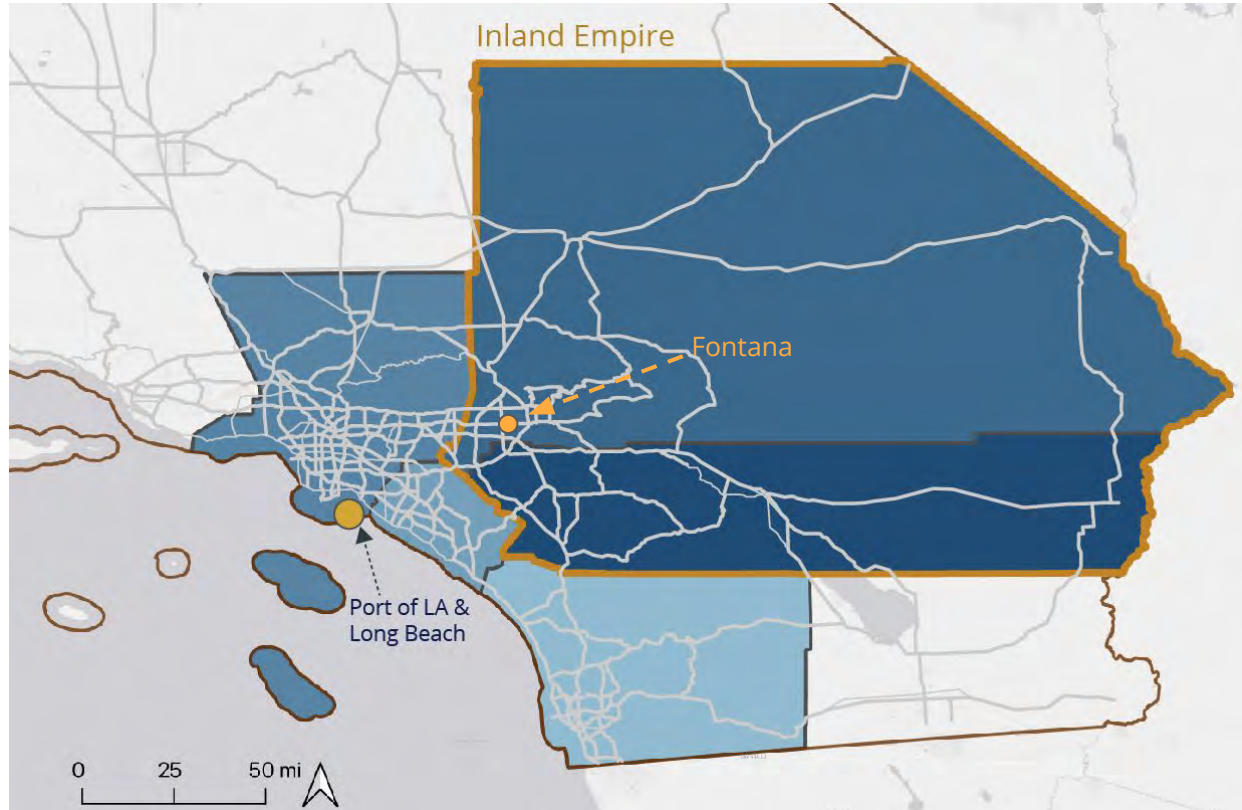
The city has a long history, including indigenous communities, Spanish missions, rural pioneers, agriculture, and steel manufacturing



Acknowledgment of Native Lands within and around Fontana

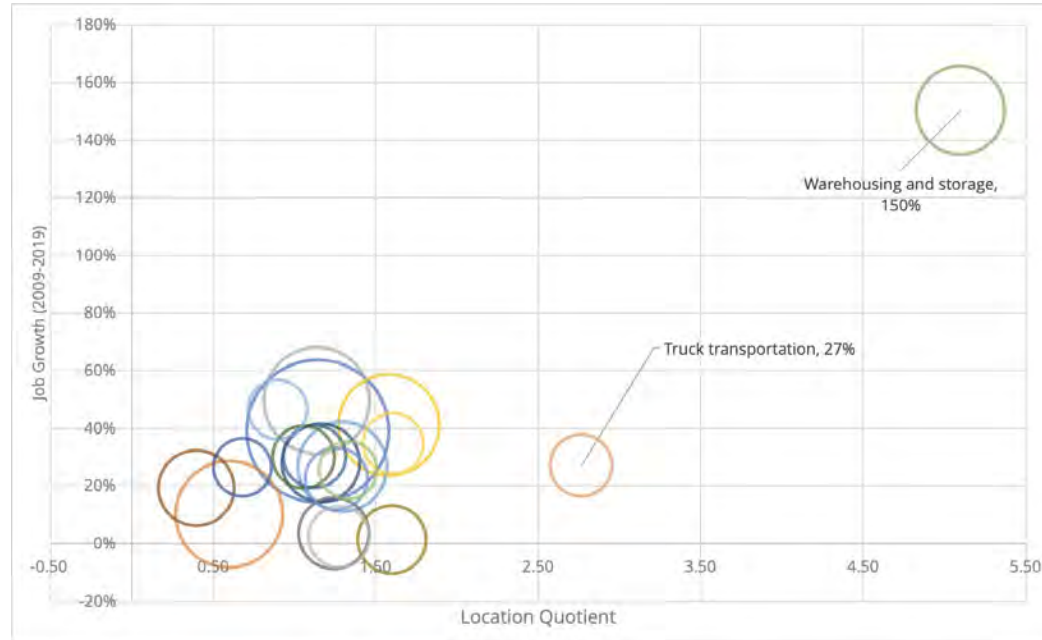
Goods Flows in the Inland Empire

Bedroom community with a strong presence of manufacturing and warehouse services



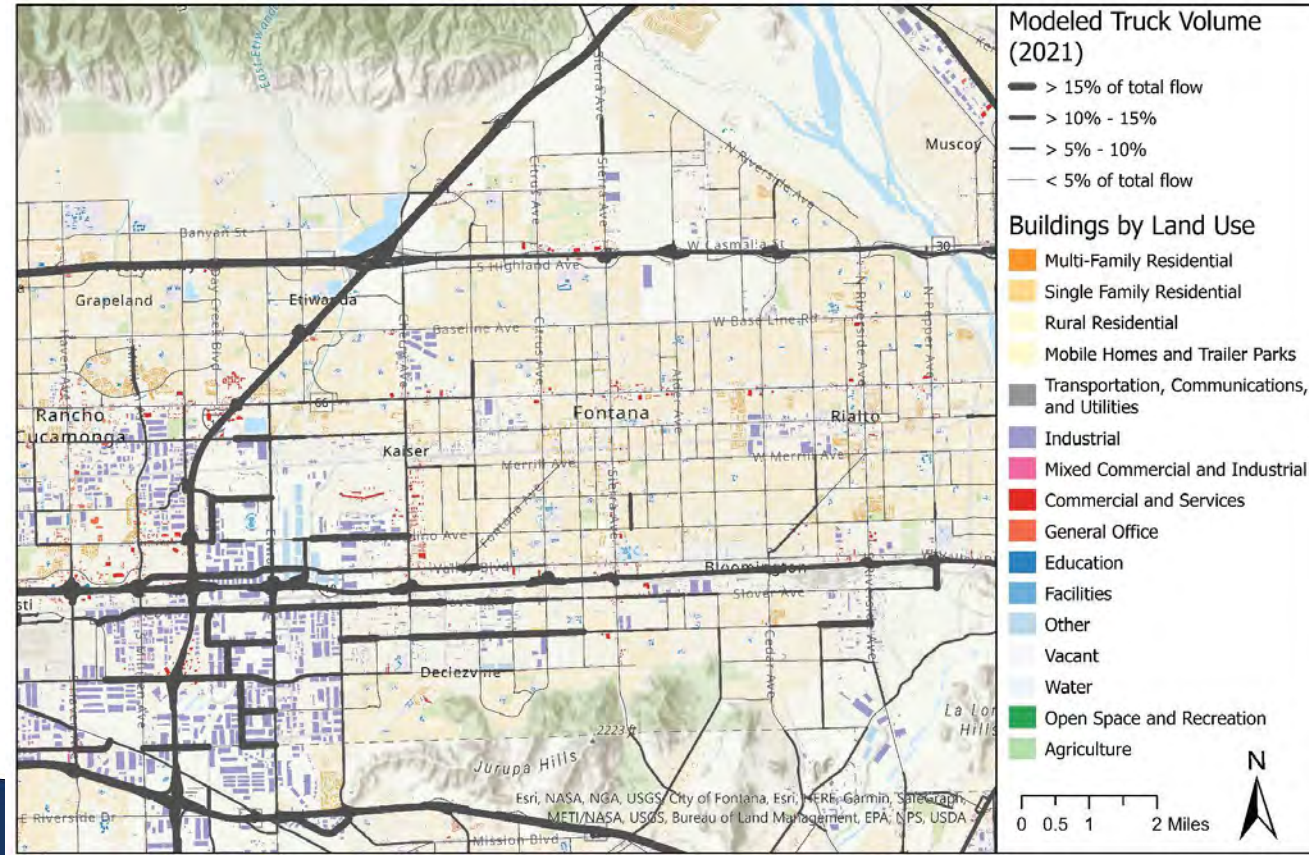
Contextualizing Fontana & Region in Southern California Highway Network

Inland Empire has a strong specialization in one industry

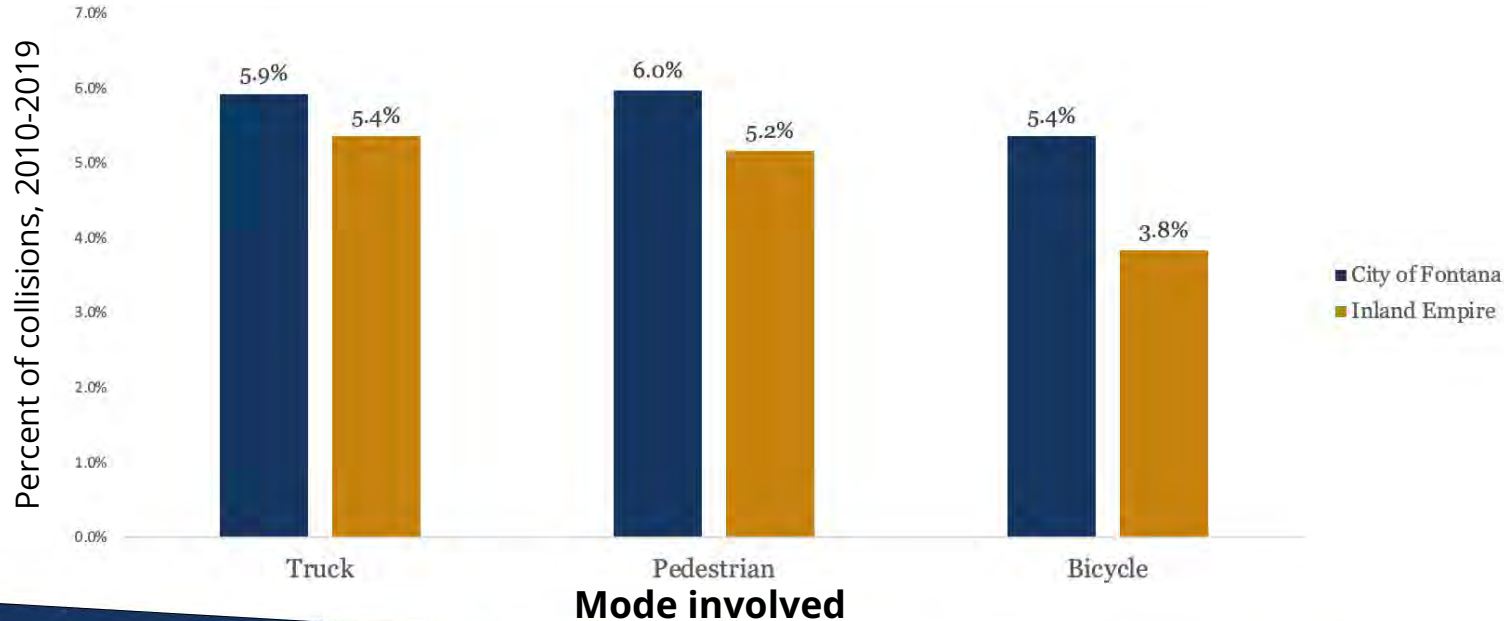


Growth & Strength of Industries in the Inland Empire

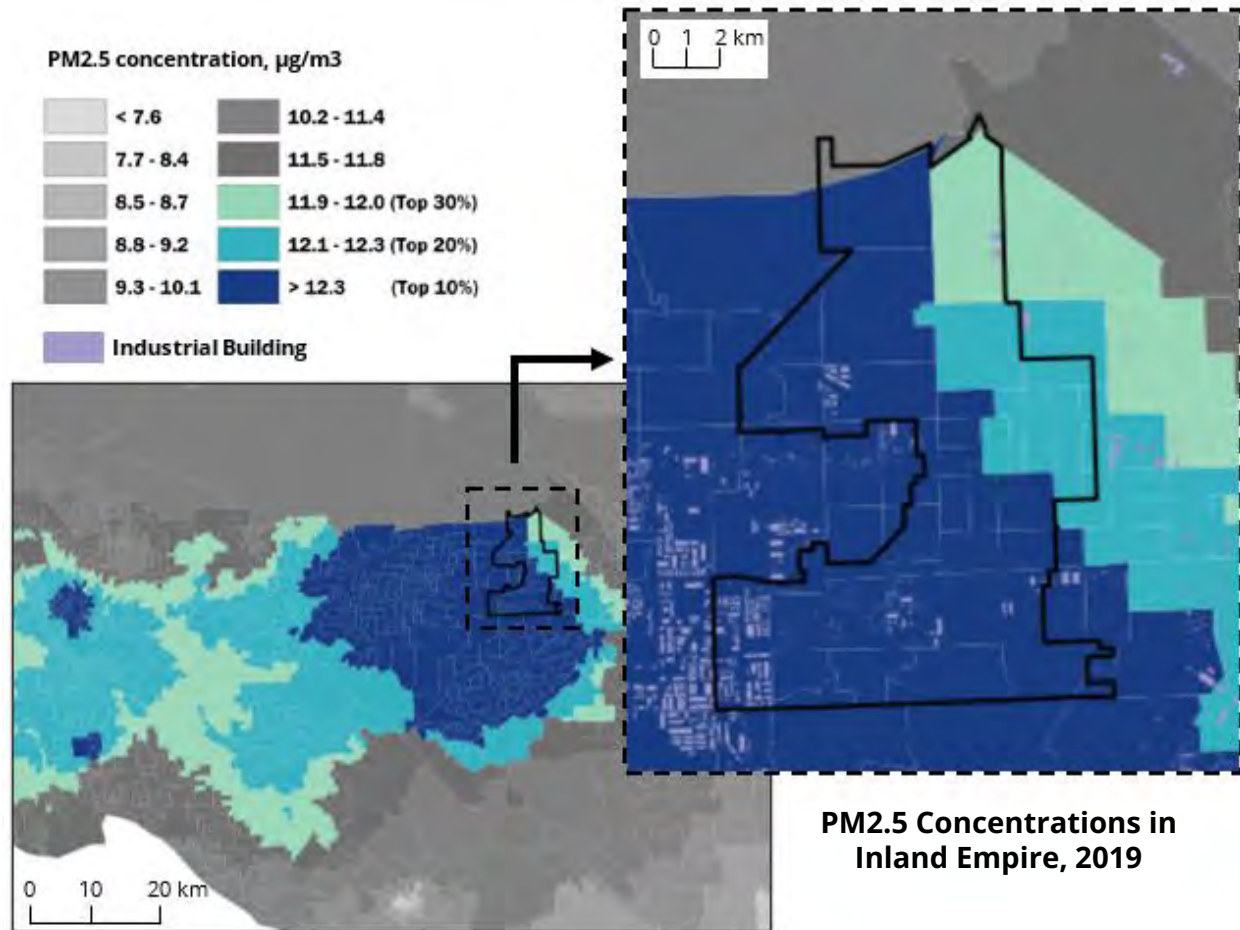
Land Uses & Truck Volumes



Fontana has higher rates of collisions involving trucks, pedestrians, and bicycles than the region

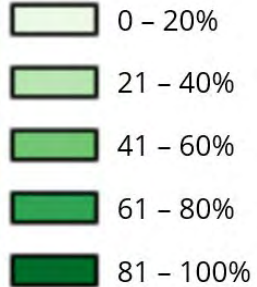


Need for air
pollution
mitigation and
emissions
reductions

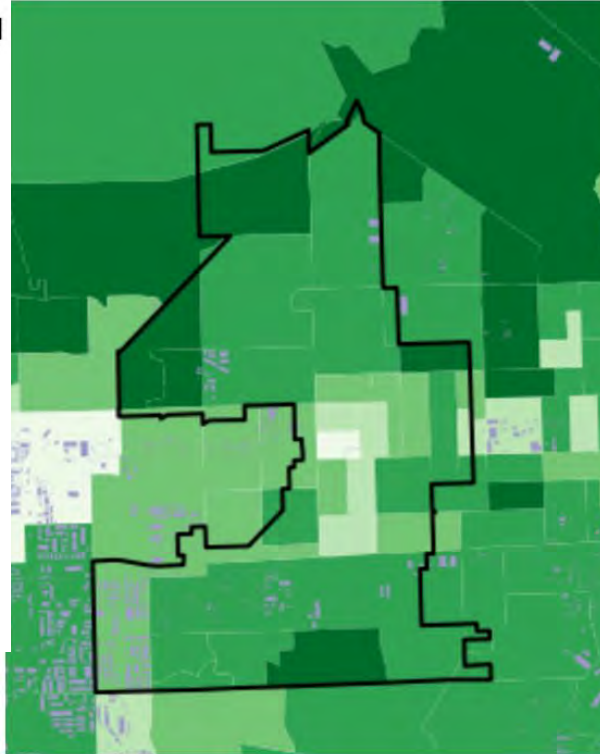


Who is Impacted?

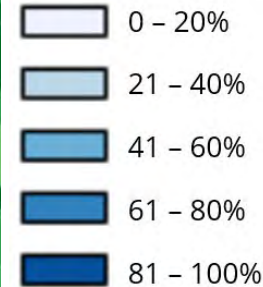
Percent Owner Occupied



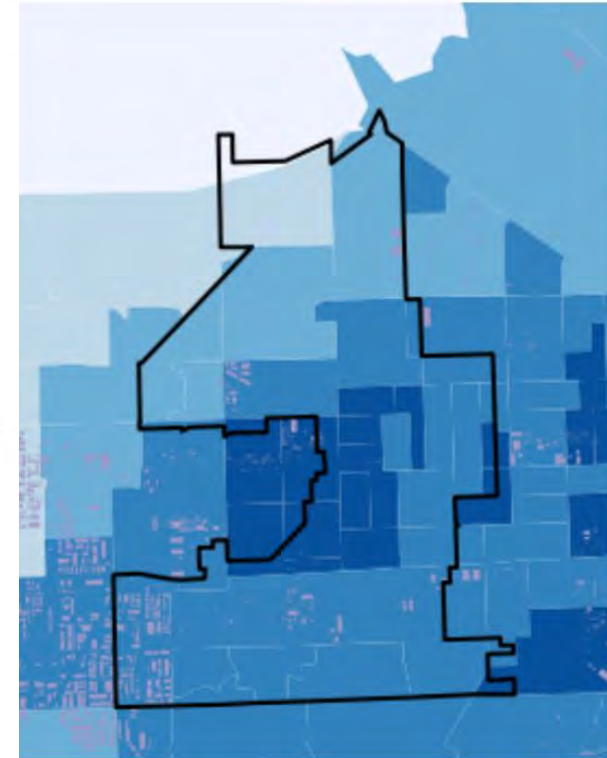
Industrial Building



Percent Hispanic



Industrial Building



Warehousing and logistics industry has a large proportion of low-wage jobs (annually)

\$40,914

mean annual wage
for warehouse and
transportation
employees

\$36,965

living wage for a single
person household in
the Inland Empire

2/3 +

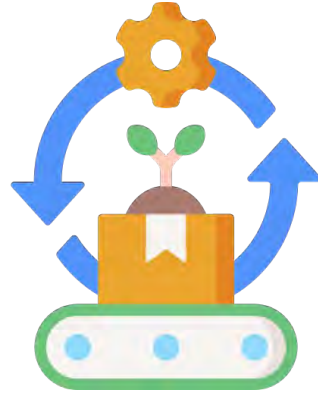
Transportation and
Material Moving
workers make
**below the living
wage (\$18.48/hr)**

Guiding Research Questions

What are the externalities of the warehousing industry and distribution centers in Fontana?

What tactics can decision makers implement to optimize environmental and social wellbeing with ongoing economic development from the warehousing and logistics sector?

Quick
Win!



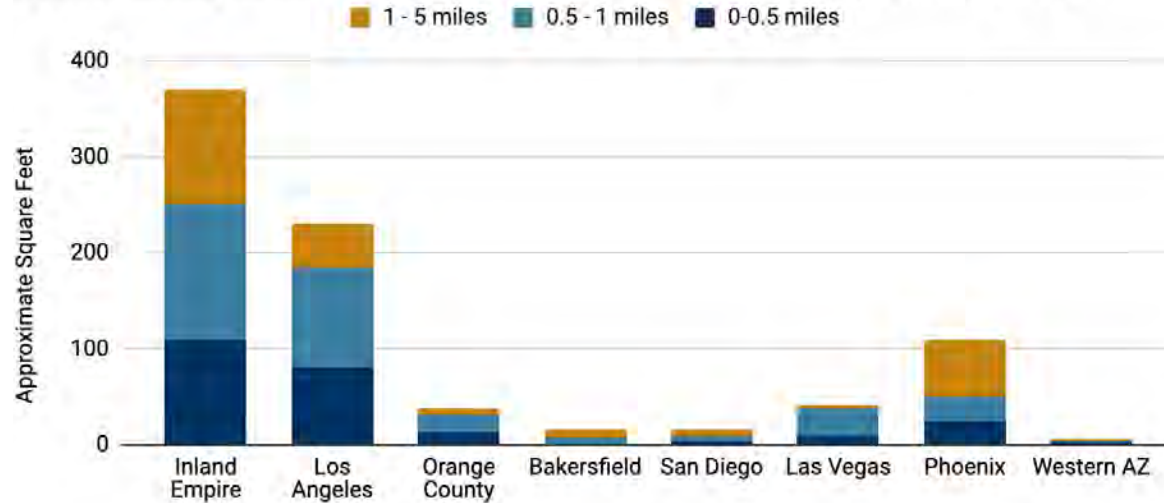
Regulation for Sustainable Growth

Logistics Industry: Rooted in the Inland Empire

Locational advantages of Inland Empire;
Locational choice based on **overall costs** of warehouse operation:

- transportation costs
- labor costs and availability
- real estate costs
- regulatory burdens

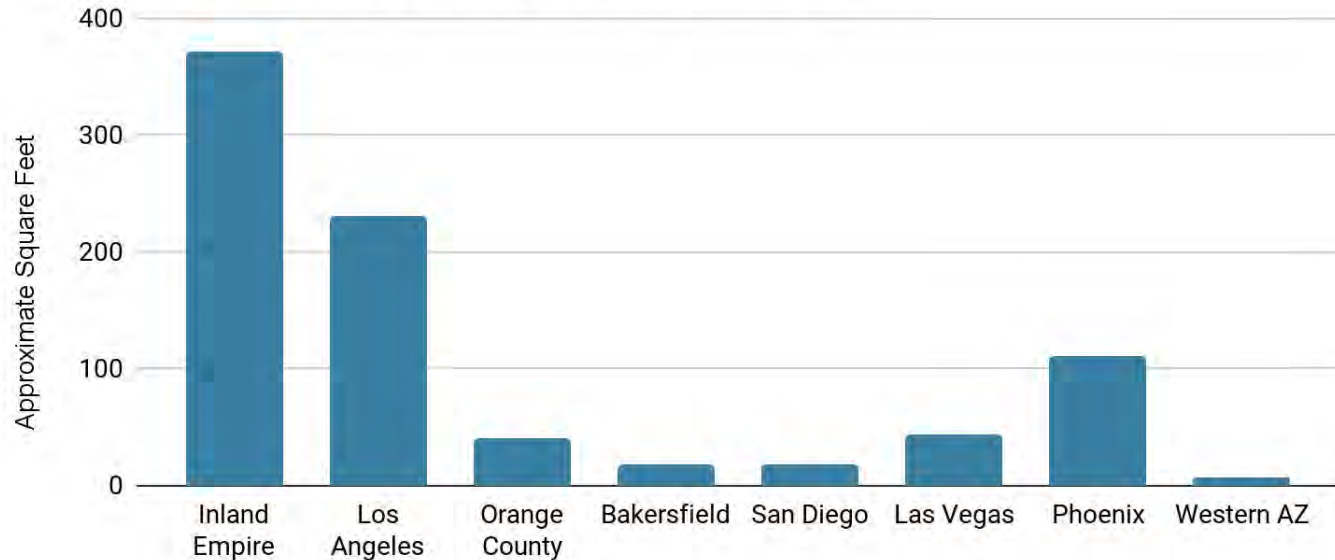
Approximate Square Footage of Properties by Distance from Major Roads (2019)



Only one of many costs!

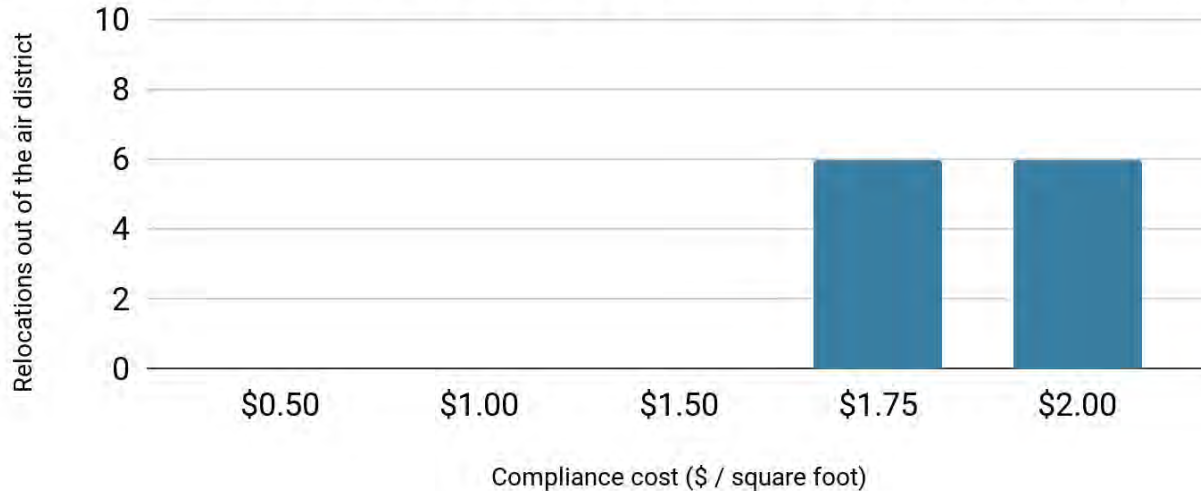
There is low warehousing capacity in surrounding regions

Approximate Warehousing Square Footage by Market (2019)



Minimal impacts from regulatory cost increase of \$2 per warehouse sqft

Modeled Warehouse Relocations out of the South Coast Air District from ISR Costs



0.2%

Warehouses relocate
out of the region

Goal: Strengthen and enforce industrial regulations



Action 1: Strengthen environmental standards and enforcement mechanisms in the proposed Industrial Commerce Center Sustainability Standards Ordinance

Quick
Win!



Action 2: Implement a temporary warehouse moratorium



Regional Cooperation

Municipality development incentives & low-wage work have brought competition for development



Competition for
tax benefits

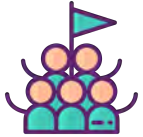


Deprioritization
of environmental
impact



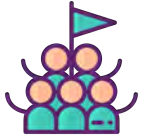
Vulnerable
population & low
wage work

Goal: Reduce development competition through regional coordination & collaboration



Action 1: Work together with neighboring municipalities in the Inland Empire on regulations for warehousing & logistics industry

Goal: Reduce development competition through regional coordination & collaboration

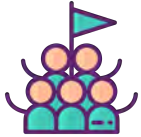


Action 1: Work together with neighboring municipalities in the Inland Empire on regulations for warehousing & logistics industry



Action 2: Work alongside regional partners to raise minimum wage (\$14.00/hr) to a living wage (\$18.48/hr)

Goal: Reduce development competition through regional coordination & collaboration



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Action 2: Work alongside regional partners to raise minimum wage (\$14.00/hr) to a living wage (\$18.48/hr)



Action 3: Advocate for increased funding to Cal/OSHA to enforce workplace safety rules



Just & Inclusive Growth

What is just & inclusive growth?

“**Inclusive growth** is a process that encourages long-run growth (growth) by improving the productivity of individuals and firms in order to raise local living standards (prosperity) for all (inclusion).” ([Parilla, 2017](#) - [Brookings Institute](#)).



Growth



Prosperity



Inclusion

Goal 1: Promote “just growth” in the logistics industry cluster



Action 1: Move up value chain through innovation, diversification, and creating more good and promising jobs

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Action 2: Create local mechanisms to enforce labor laws

Goal 1: Promote “just growth” in the logistics industry cluster



Action 1: Move up value chain through innovation, diversification, and creating more good and promising jobs



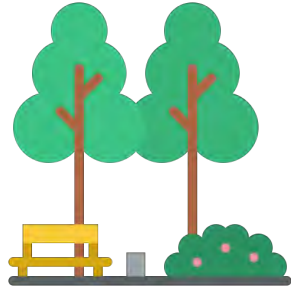
Action 2: Create local mechanisms to enforce labor laws



Action 3: Become more hospitable to union formation to:

- Improve working conditions
- Grow proportion of good and promising jobs

Goal 2: Utilize discretionary funds & impact fees towards community benefit



Parks &
Recreational
Facilities



Improve roadway
safety



Community
resources

Goal 3: Foster environment of inclusion & transparency through regulation






Action: Our team recommends reinstating CEQA for all industrial development in order to create transparency & to enable process for community engagement and feedback



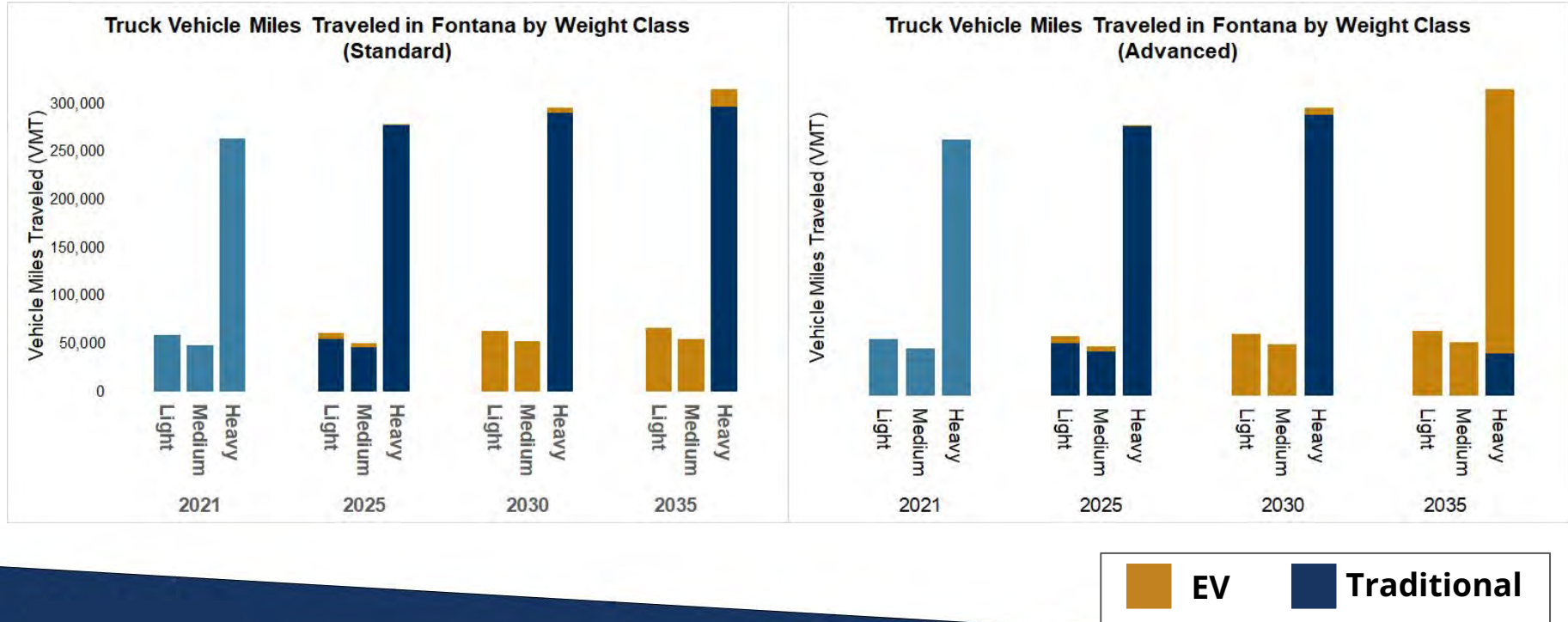
Strategic Infrastructure Innovation

Strategic Infrastructure Innovation in Trucking

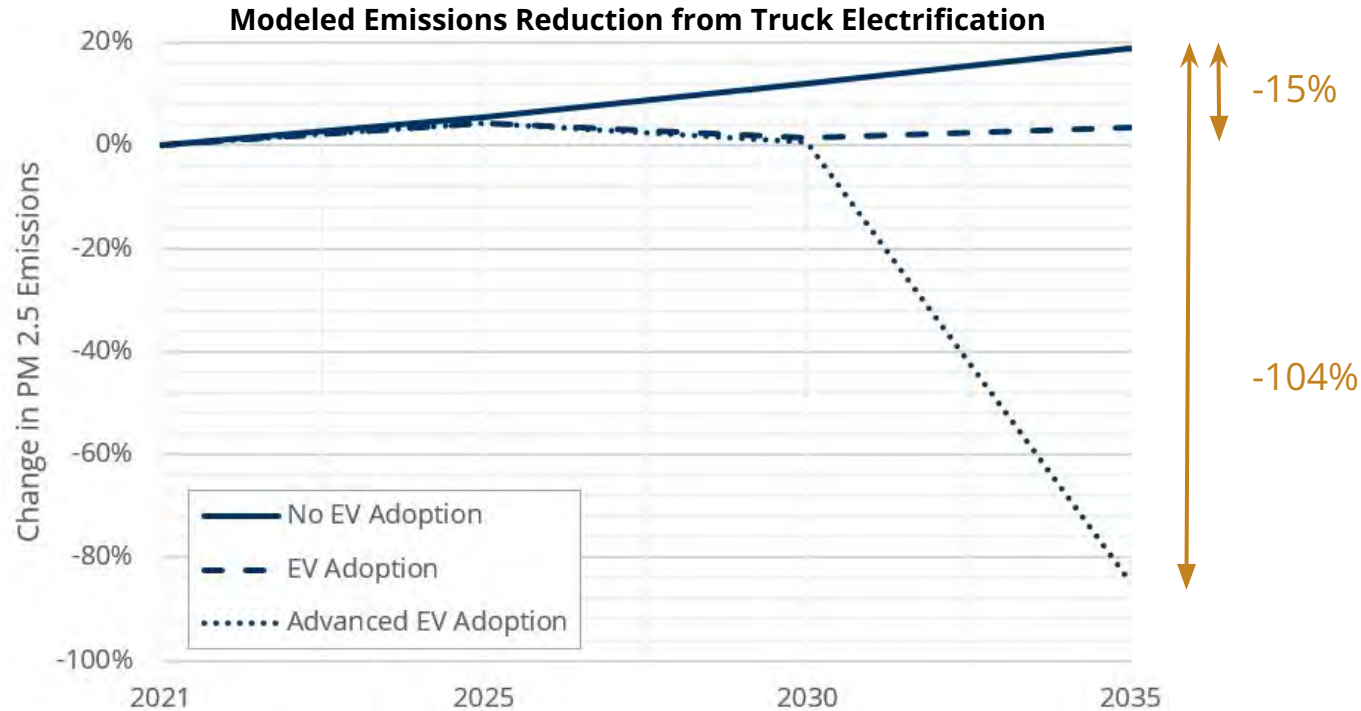
CARB's Advanced Clean Trucks (ACT) Regulation sets benchmarks for electric truck sales to meet state emissions targets

Light-Heavy (4.25 - 7 tons)	
Medium-Heavy (7 - 16.5 tons)	
Heavy-Heavy (over 16.5 tons)	

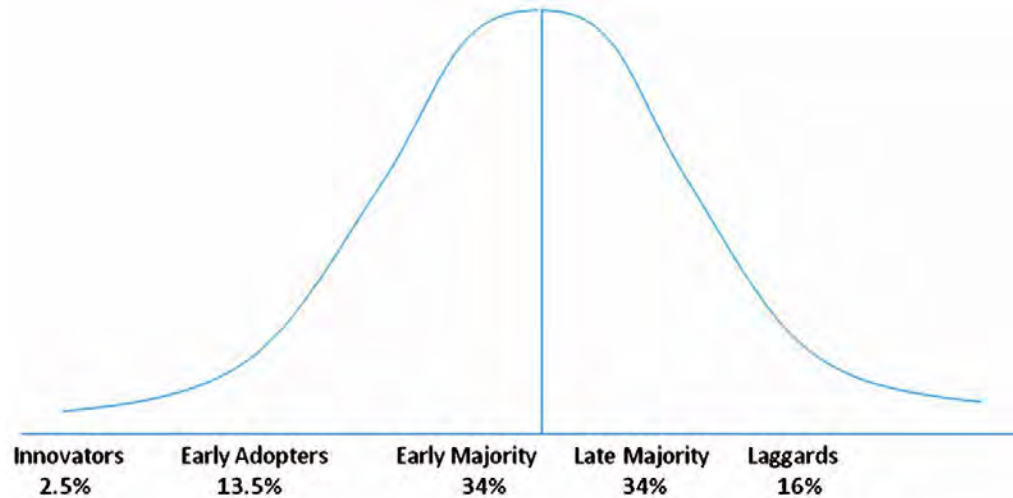
Goal 1: Be an early adopter in semi-truck electrification



Goal 1: Be an early adopter semi-truck electrification



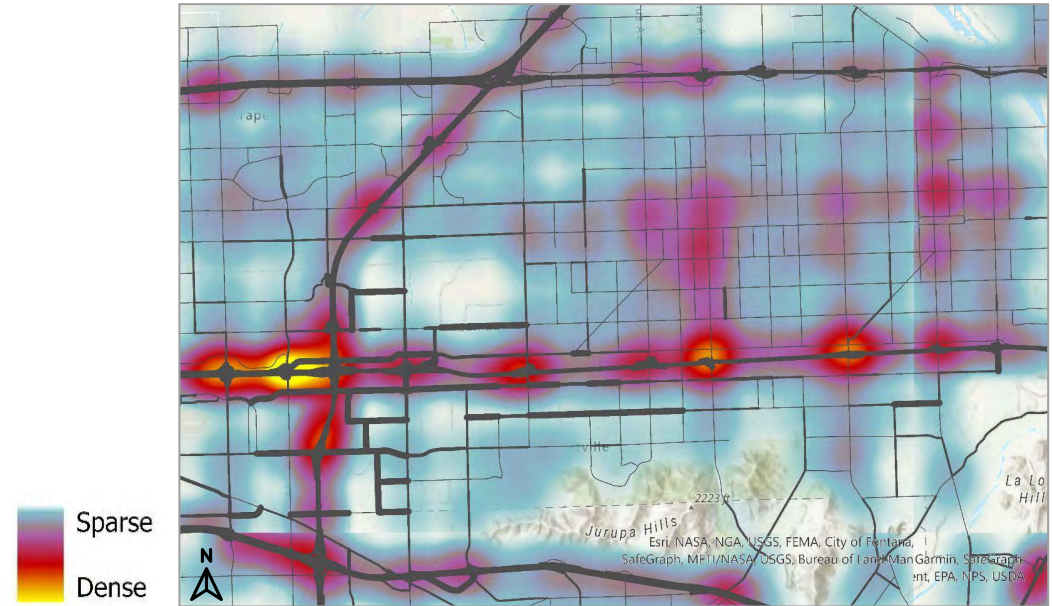
Goal 2: Focus on regional problems and solutions through a "Future Fleet Fontana" incubator



Goal 3: Improve road safety

Action 1: Calm traffic in dangerous locations

Heat Map of Traffic Collisions, 2010-2019



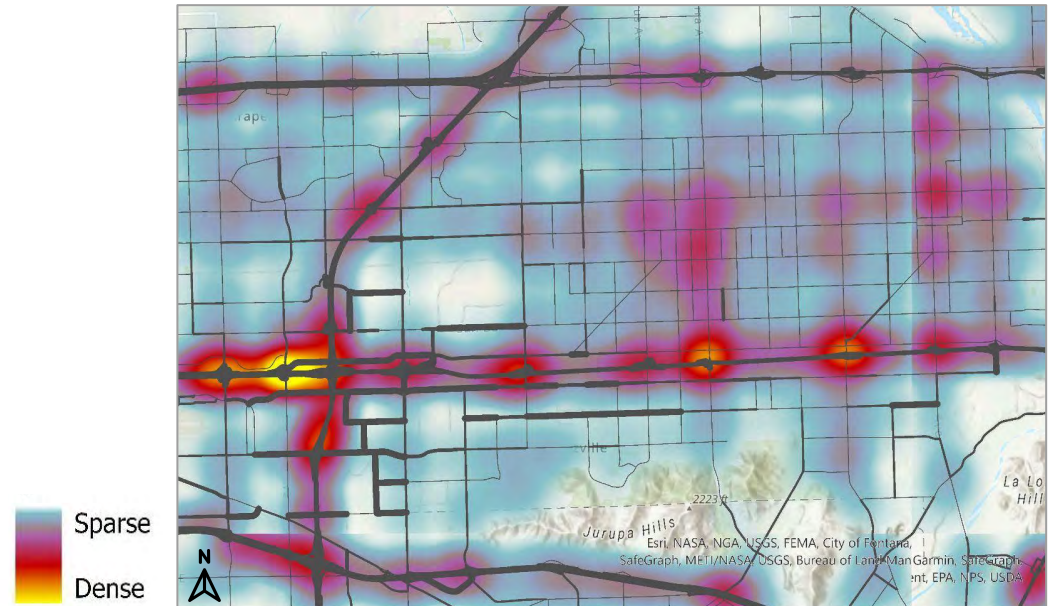
Goal 3: Improve road safety

Action 1: Calm traffic in dangerous locations

High-injury corridors:

- Sierra (659 collisions)
- Foothill (430 collisions)
- Citrus (396 collisions)
- Cherry (306 collisions)
- Valley (276 collisions)
- Baseline (270 collisions)
- Arrow (207 collisions)

Heat Map of Traffic Collisions, 2010-2019

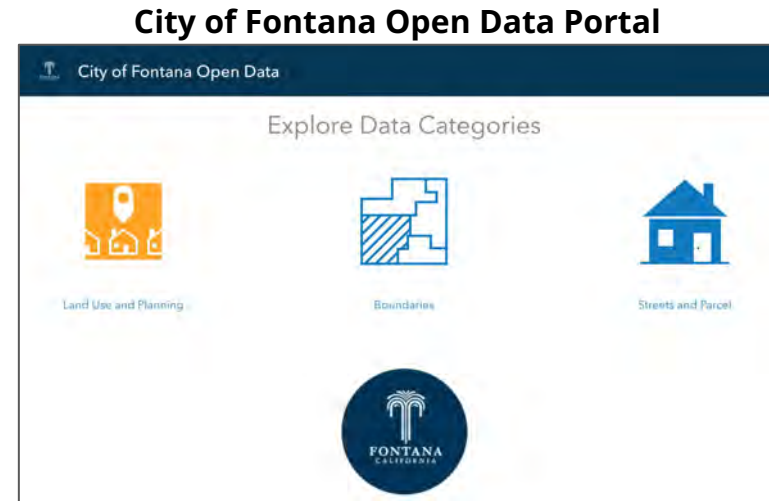




Proactive & Ongoing Collaboration

Goal 1: Increase constituent participation and data transparency

Action: Actively maintain city's open data portal

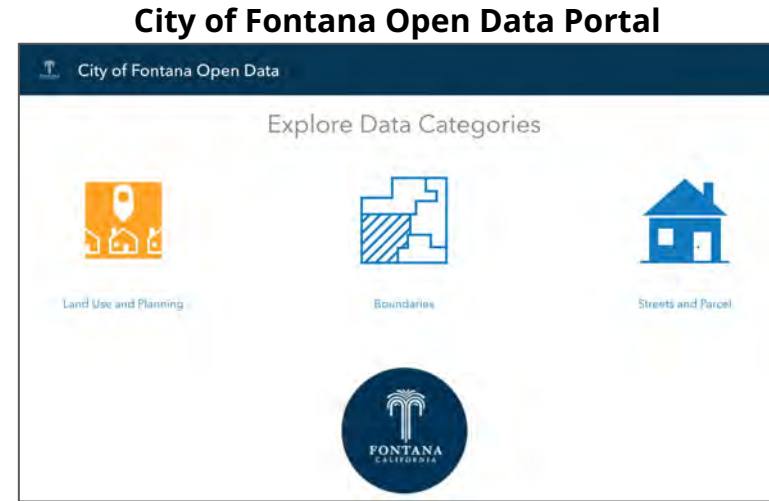


Goal 1: Increase constituent participation and data transparency

Action: Actively maintain city's open data portal

Data on the existing portal is limited to:

- Street network
- Zoning plans
- Owner parcel data
- Council district maps

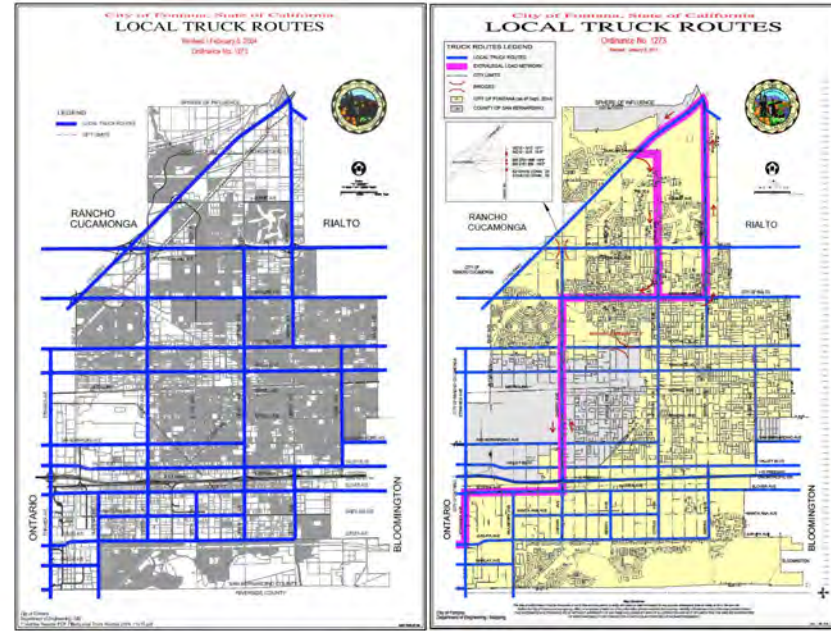


Goal 2: Increase community involvement in planning processes

Action 1: Engage with key stakeholders (e.g., truck drivers, CBOs, and faith based organizations)

Action 2: Prioritize air pollution mitigation in sensitive communities

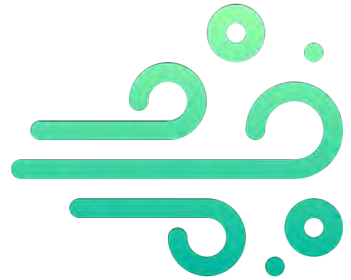
**Local Truck Route Maps
2004 (left) and 2017 (right)**



Goal 3: Invest in air quality monitoring



Action: Require air pollution monitoring at logistics industry facilities and sensitive receptors



Goal 4: Facilitate ongoing collaboration among local partners

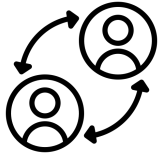


Action 1: Adopt a good neighbor policy that includes community benefits agreements (CBAs) and project labor agreements (PLAs)



Action 2: Build collaborative relationships between educational institutions and employers

Goal 5: Develop proactive, ongoing, and committed engagement strategies



Co-created



Accessible



Have teeth!



Ongoing

Thank you!

Questions & Comments?

Contact us at: fontanastudio2021@gmail.com

Website: <https://resilientfontana.com/>

