





Implementing Vehicle-Kilometers Traveled in California

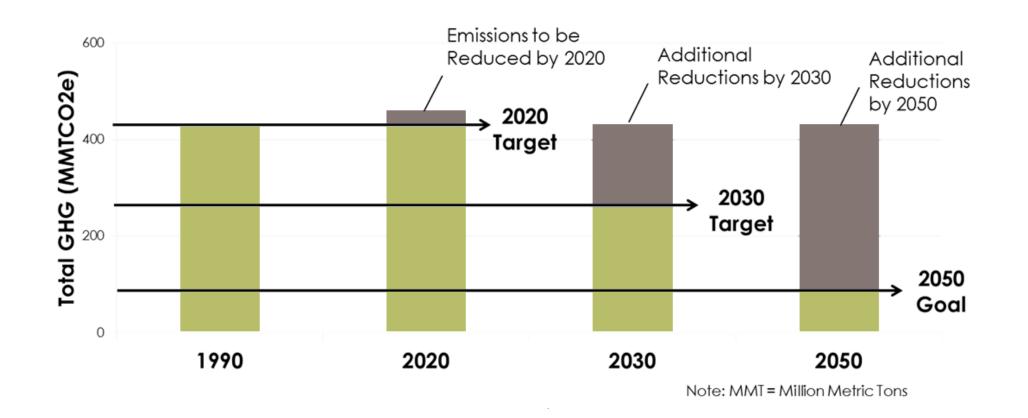
Updating San José's Transportation Analysis Approach

Wilson Tam 2021 Decarbonizing Transport

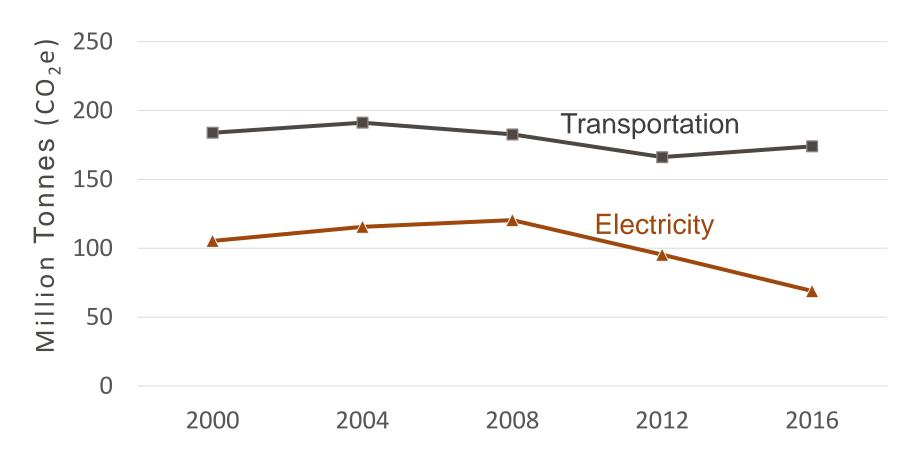




California Climate Goals



California GHG Emission Trends



Longitudinal Display of CA GHG Emissions by Sector. (Source: CARB CA GHG Inventory 2000 to 2016)

True "LOS Impacts"





Traffic engineer:

F

Д

Economist:

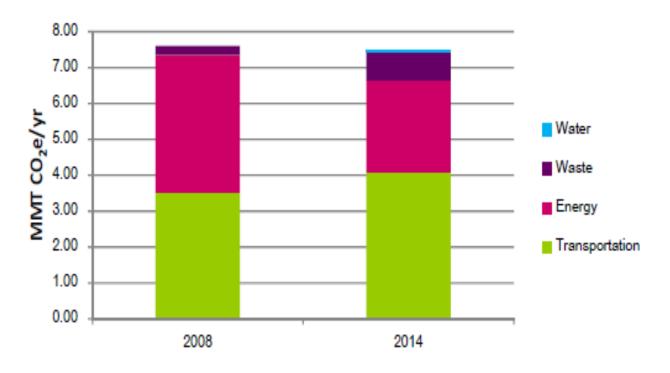
A

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True "LOS Impacts"



San Jose's Greenhouse Gas Emissions 2008 and 2014 Community Inventory Comparison

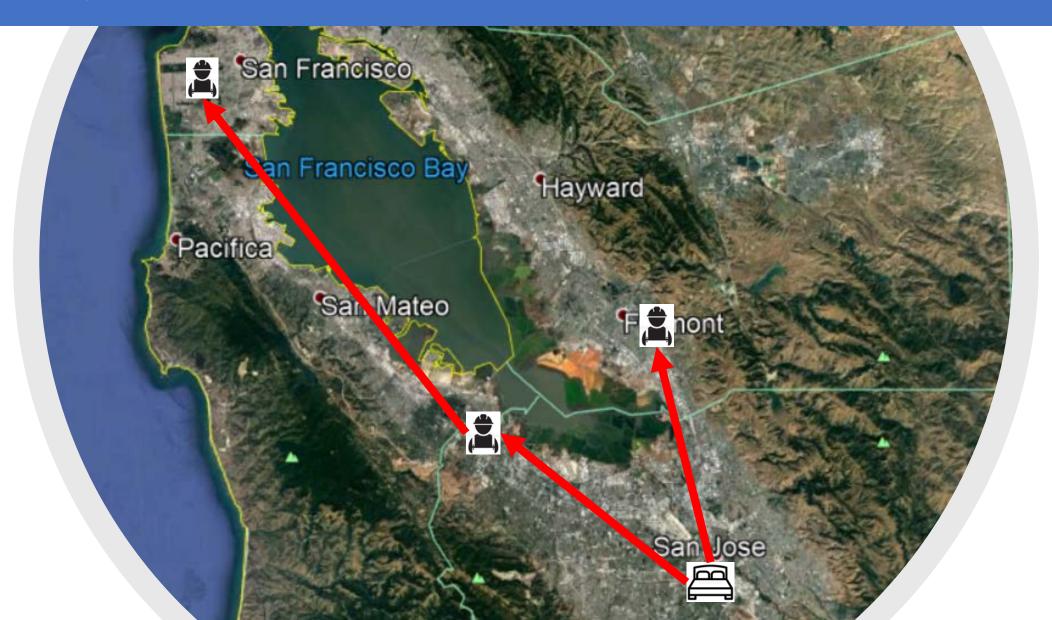


Vehicles-Kilometers Traveled (VKT)

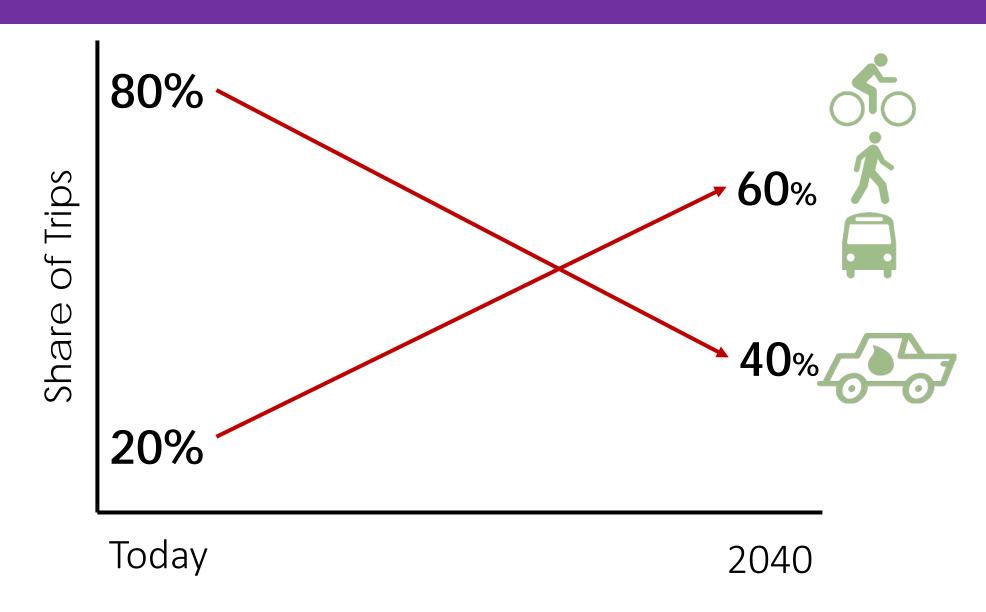


- **Senate Bill 743 (2013):** Requires jurisdictions in California to replace the auto LOS with VKT metric in environmental reviews
- Goals: GHG emissions reduction, infill development near transit, multimodal transportation system
- State Guidelines (2020): Streamline "low-VKT" projects

Local Implementation of VKT: San José



San José's Mobility Goals



Promote Infill Development

Residential

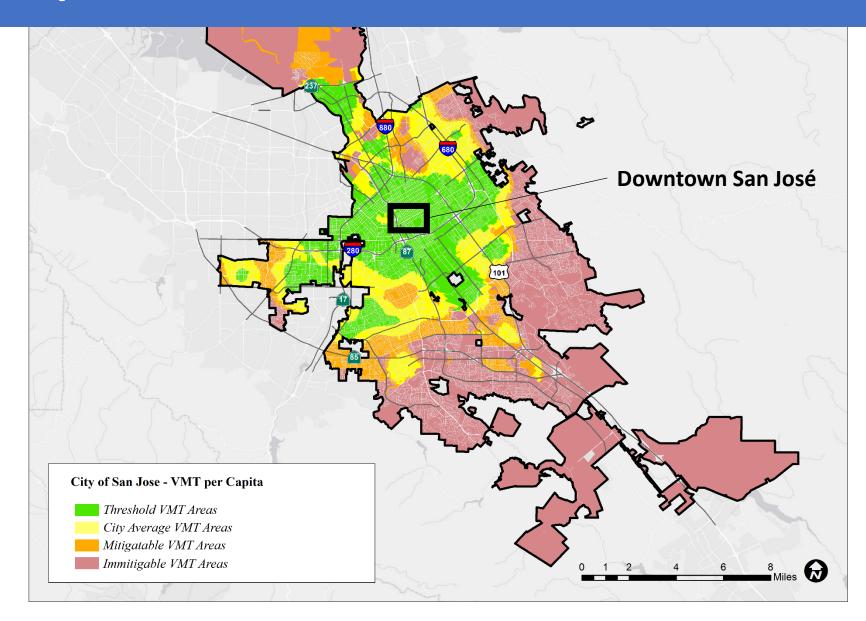
VKT per resident

Existing San José Average

11.9

Threshold (15% below)

10.1



Promote Infill Development

Employment

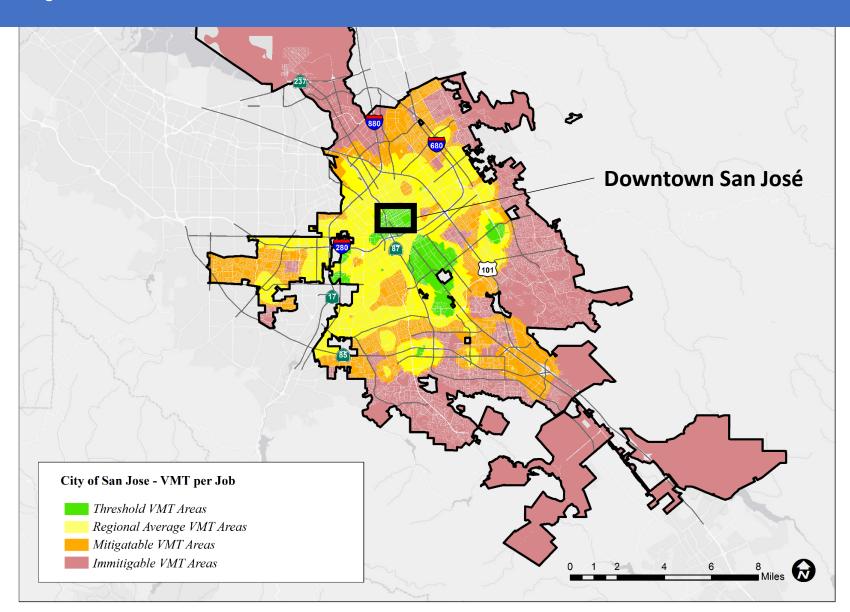
VKT per worker

Existing Bay Area Average

14.4

Threshold (15% below)

12.2

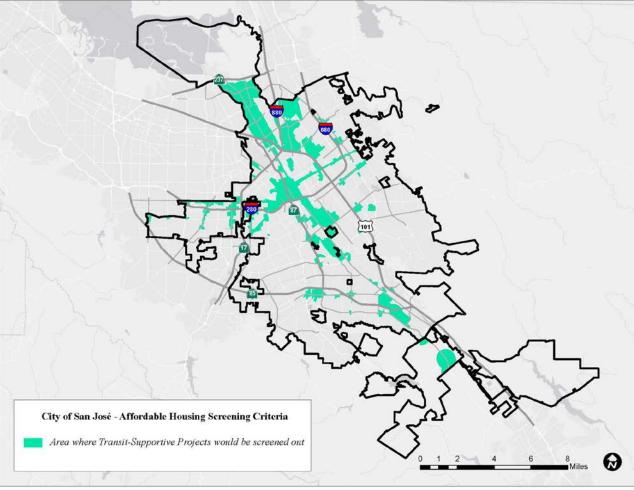


Streamline "Low-VKT" Projects

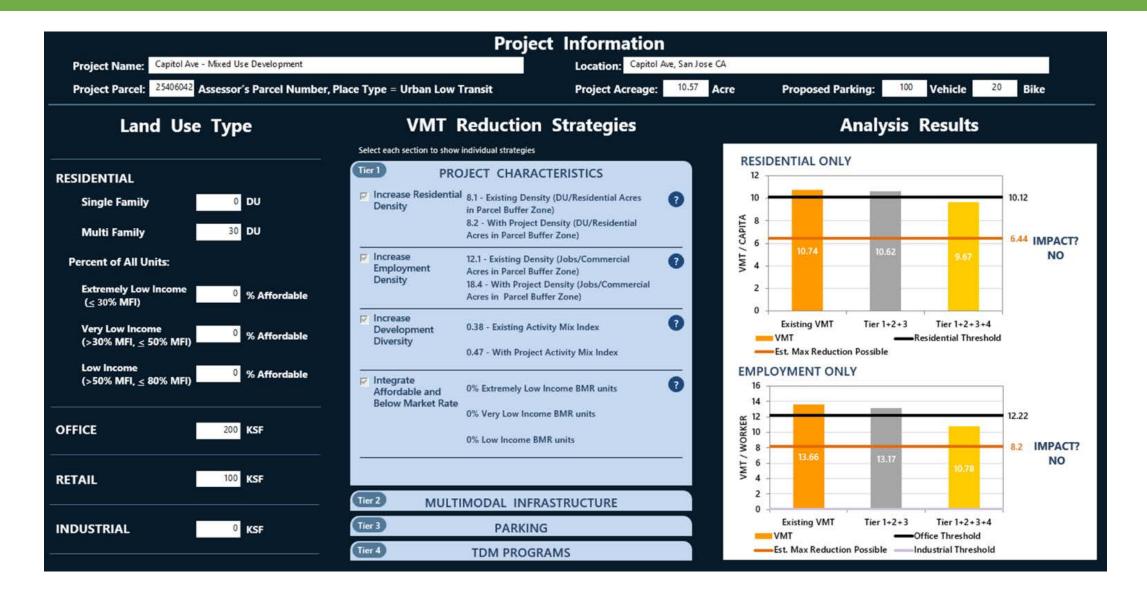
Market-Rate Housing

City of San José - Low VMT per Capita Screening Criteria Area where Transit-Supportive Projects would be screened out

100% Affordable Housing



Streamline Analysis Process



Mitigate VKT Impacts





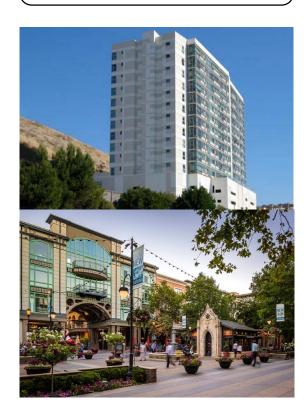
Mobility



Parking



TDM













Partner with Developments to Monitor VKT Performance

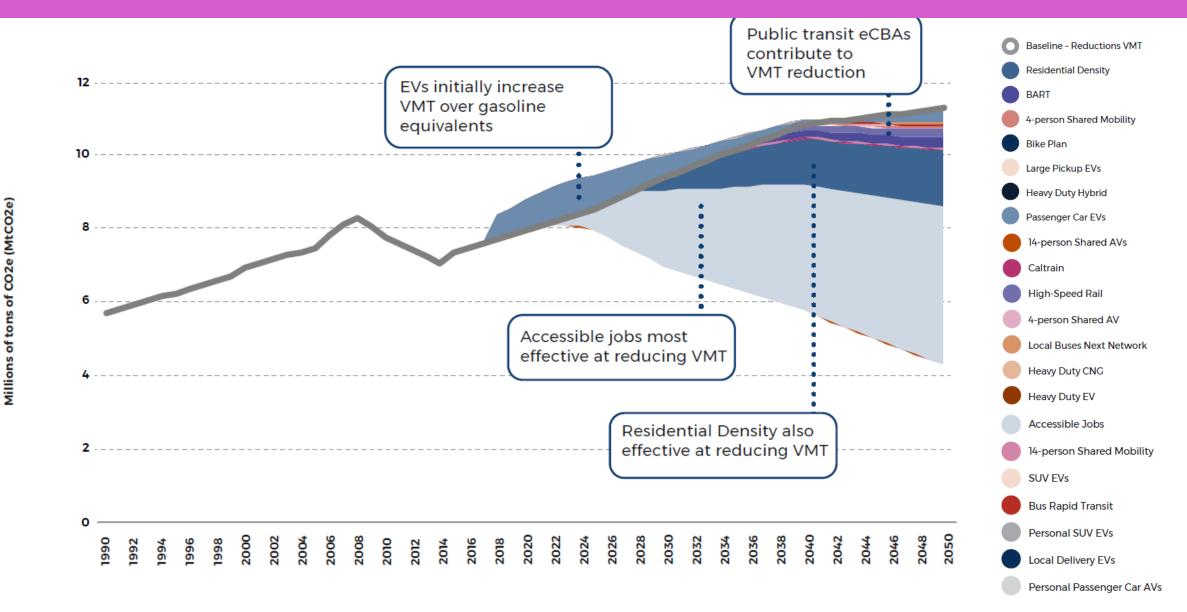


Lessons Learnt

- VKT impacts are regional in nature, but mitigations have not been.
- Site-specific strategies are more suitable for urban areas, whereas program-level strategies are more applicable for projects in suburban areas. Regional fee programs, mitigation exchanges, and mitigation banks are being explored.
- Varying implementations at the local level give the "more stringent" cities a competitive disadvantage with investors.

Lessons Learnt

- System improvements (e.g. streets, transit service) should be prioritized over programmatic measures (e.g. incentives) as mitigation.
- Most "low-VMT" developments in urban areas would be streamlined without mitigation. Complementary funding mechanisms are needed to support a multimodal transportation system in the urban areas.
- Other complementary VKT and emissions reduction strategies should be implemented.



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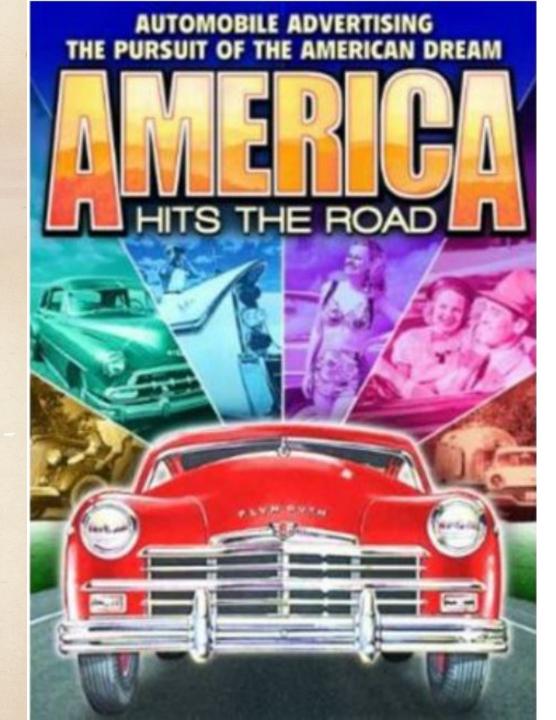
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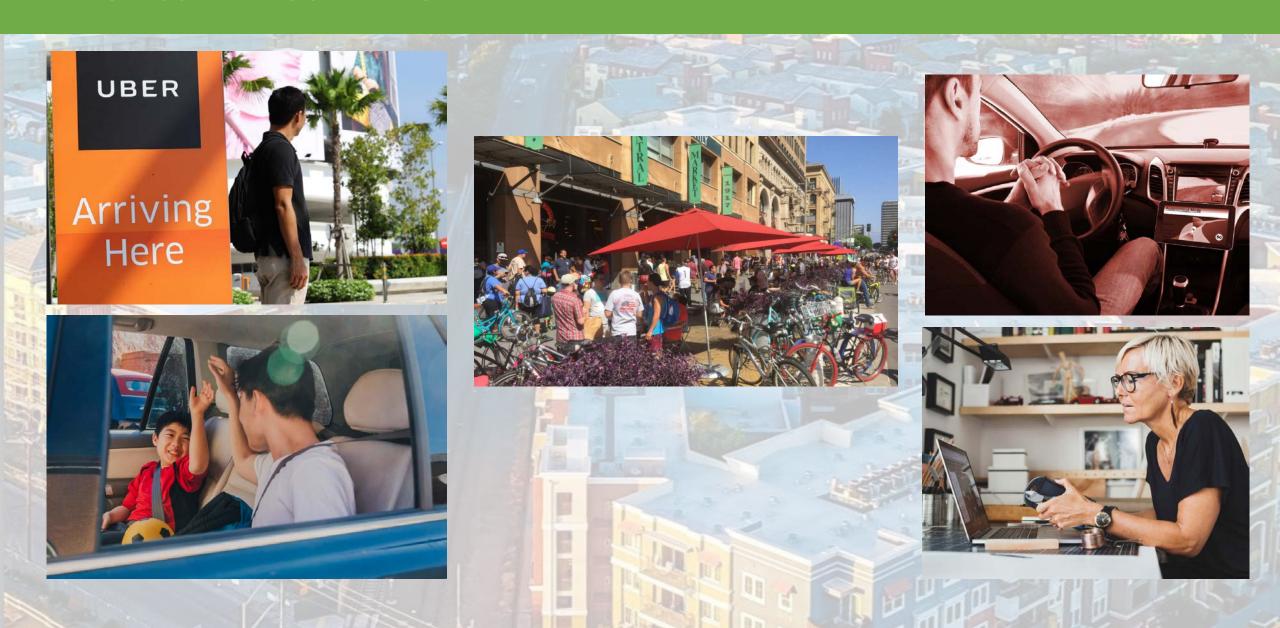
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