

GreenTRIP Connect

- Mores homes and less traffic
- SB743 compliance
- General Plan Updates
- PDAs and TODs

Southern California Association of Governments

Modeling Task Force

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Mayfair at Del Norte BART El Cerrito





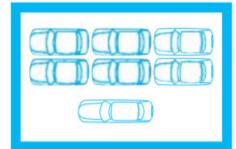




FREE AC Transit Transbay Bus 2 / unit; 40 years



Bicycle Fixing Station



FREE GetAround membership to 4-6 Shared Cars



Walk/Bike/Transit Travel Info Touch Screen

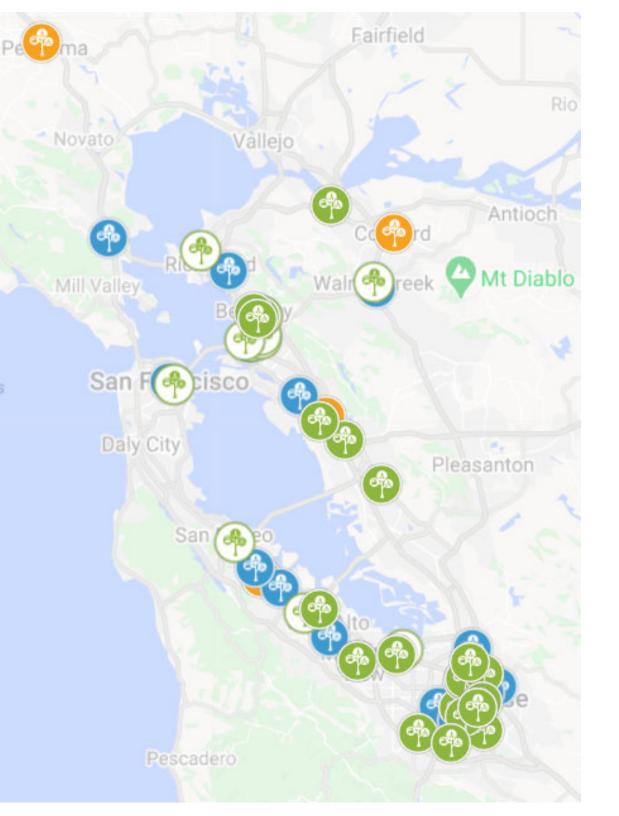
4 types of bike parking

154: in unit 24: guest secured 34: basement 8: on street



Pedestrian Trunk in Every Unit

34 units to 56 units 50% less transportation costs



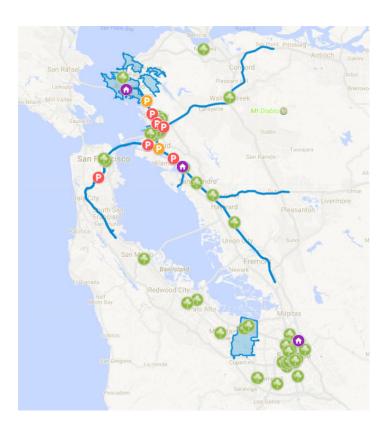


\$27+ million private investment in public transit

7,000+ units

50+ projects

GreenTRIP Adopted



- City of Emeryville
- City of Richmond
- City of Sunnyvale
- City of Belmont
- City of Berkeley
- City of Oakland
- City of Pittsburg
- BART & VTA -- TOD policy
- CA Office of Planning and Research
 - 2020 General Plan Guidelines



GreenTRIP Parking Database

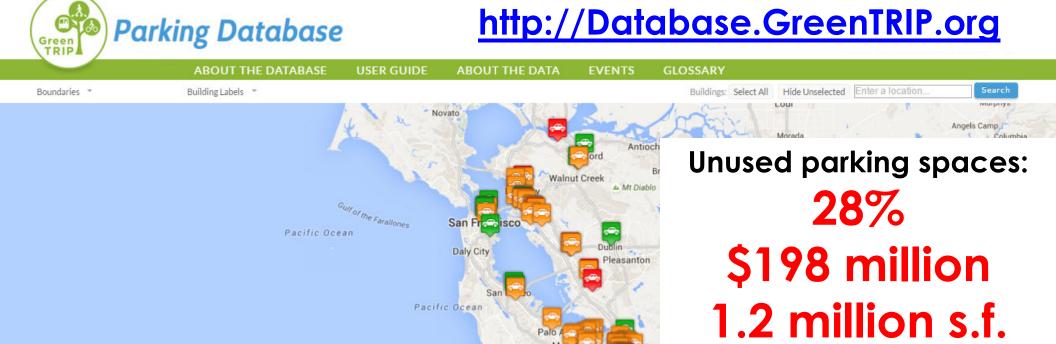




Table 1. VMT mitigation measures summarized. Note that this list is not exhaustive, and other measures that satisfy CEQA requirements could be developed.

Measure	Ease of implementation	Efficacy	On- or Off- System	Key considerations
Active transportation	High	Low ⁶	Both (Note: for the SHS, may be most ettective when integrated with conventional "main-street" highways)	Must provide access to destinations, not simply recreational opportunities.
Land use – residential	TEAM LIFT For Your Safety!	High	Off	Requires partnership agreements with land use jurisdictions housing authorities, and private developers. VMT benefits come from density, affordability and location.
Land use – employment	TEAM LIFT For Your Safety!	High	Off	Requires partnership agreements with land use jurisdictions housing authorities, and private developers. VMT benefits come from density and location.
TDM	High	Medium	Off	Services can be tailored to meet specific user needs. Must be supported with long term maintenance of effort.
Transit service improvement	Low to high	Low to high	Both	Usually requires partnership agreements with transit operators.
Local road networks/ connectivity	Low to high	Low to high	Off	Can relieve pressures on SHS and provide more direct, multimodal access to destinations.

⁶ This is not to imply that Active Transportation projects are not a high priority for Caltrans and worth doing for their own sake. While Active Transportation projects do have a downward VMT effect, the amount of VMT that can be reduced by these projects is often much smaller than the VMT induced by highway projects. This scale is important to consider when developing mitigations.

Gottman .

Measure	Ease of implementation	Efficacy	On- or Off- System	Key considerations
Micro-mobility	High	Low	Both	Requires partnership agreements with transit operators and/or transportation network companies.
Telecommuting	High	Minimal	NA	Telecommuting tends to shift trip-making, but not reduce VMT. Any claim here would need careful, specific support.
Schedule- shifting	NA	None	NA	Reschedules rather than reduces trips. Likely increases VMT.
Road diets	High	High	Both	Lane removals can be considered roughly equivalent to lane additions for similar facilities.
Pricing	Low to high	High	Both	Operational details and market analysis needed during PA&ED.
Lane management	Low to high	Low	On	VMT effect depends on specific management strategy such as transit/HOV priority.
Parking pricing/ restrictions	High	High	Off (On in some limited cases)	Potentially powerful tool for specific land uses in a highway corridor.
Park and ride lots	High	Low	Both	Removes commute trips. Effect on total VMT needs to be addressed in mitigation plan.
Land preservation	High	Unclear	Off	Could work in theory but measurement is difficult. May be best combined with transfer of development rights to spur infill TOD.

GreenTRIP Connect



http://Connect.GreenTRIP.org

Connect Tool

About

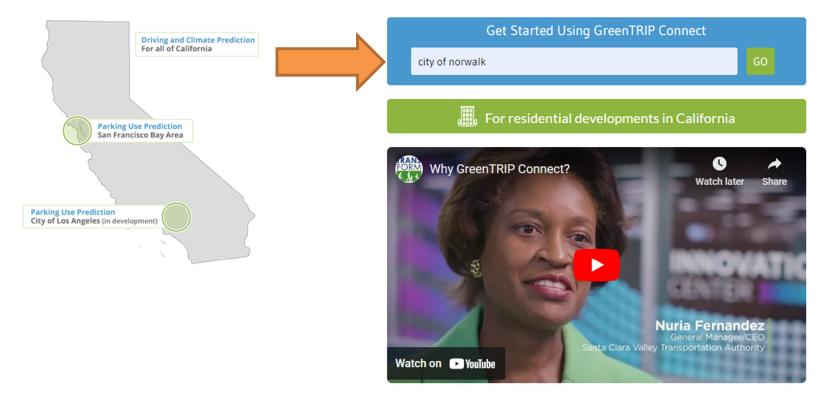
Sponsors

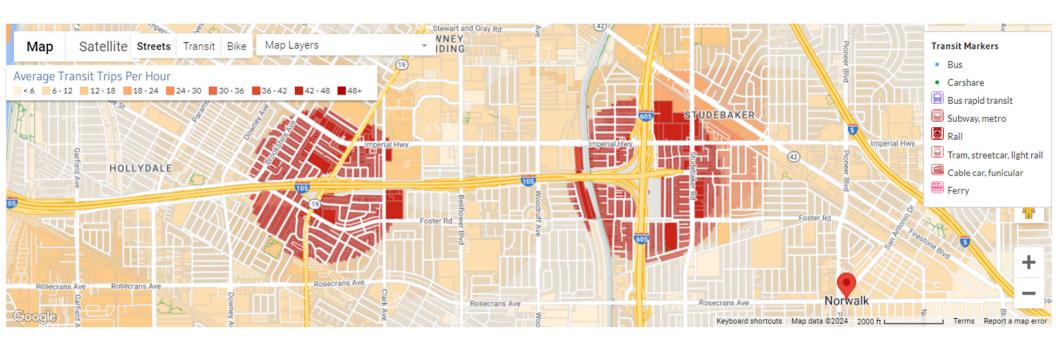
Partners More Info

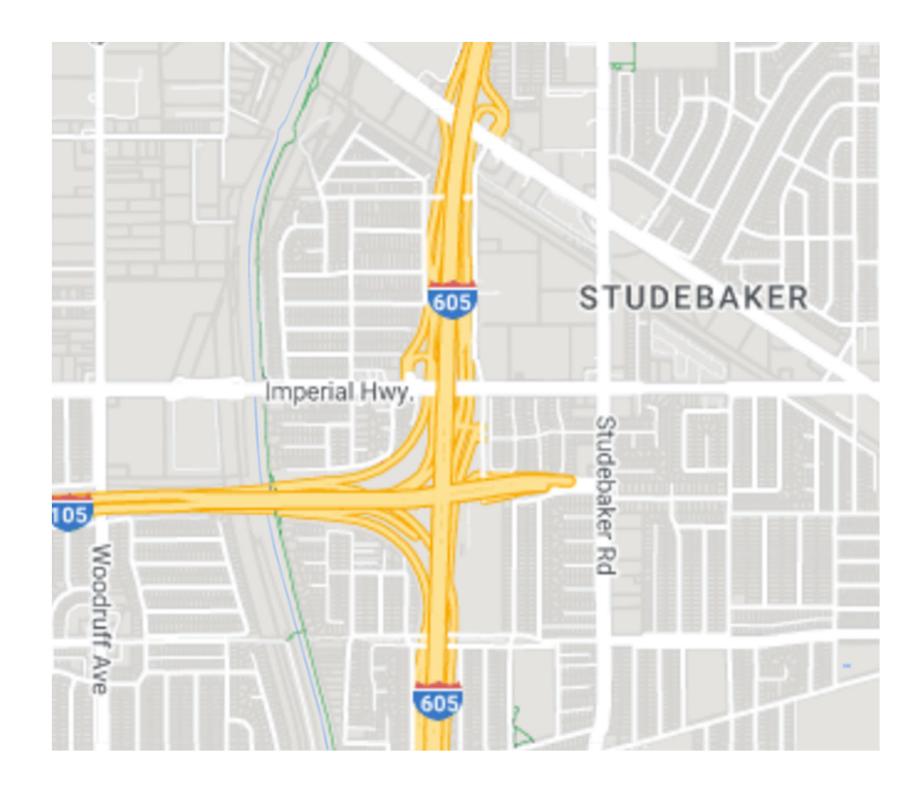
GreenTRIP Program

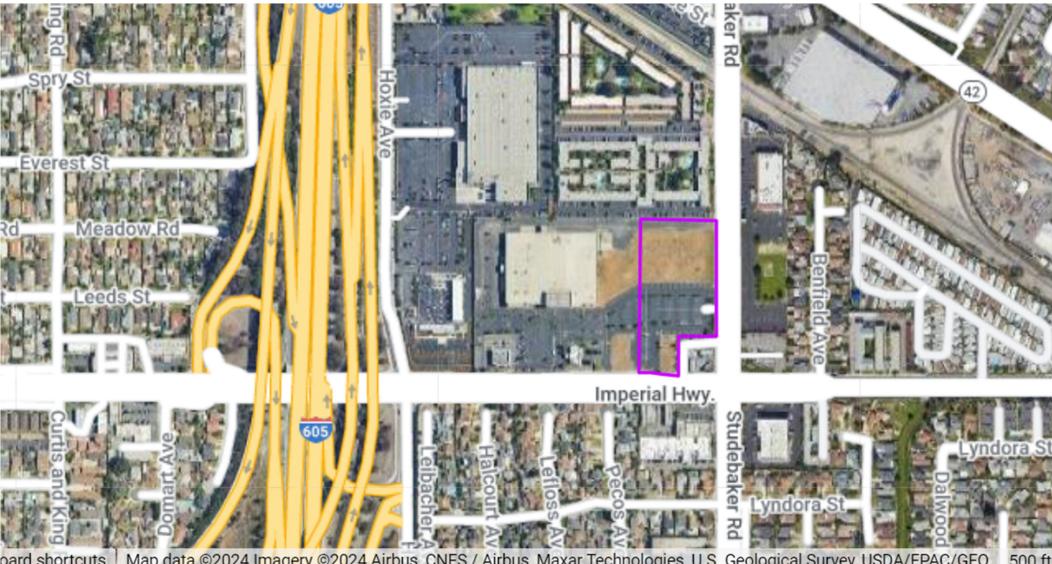
Certify Your Project

Welcome to GreenTRIP Connect. Connect helps you instantly calculate how smart location, affordable homes and traffic reduction strategies can reduce driving and greenhouse gas emissions from residential development. It also calculates how much money and space can be saved from right-sized parking.

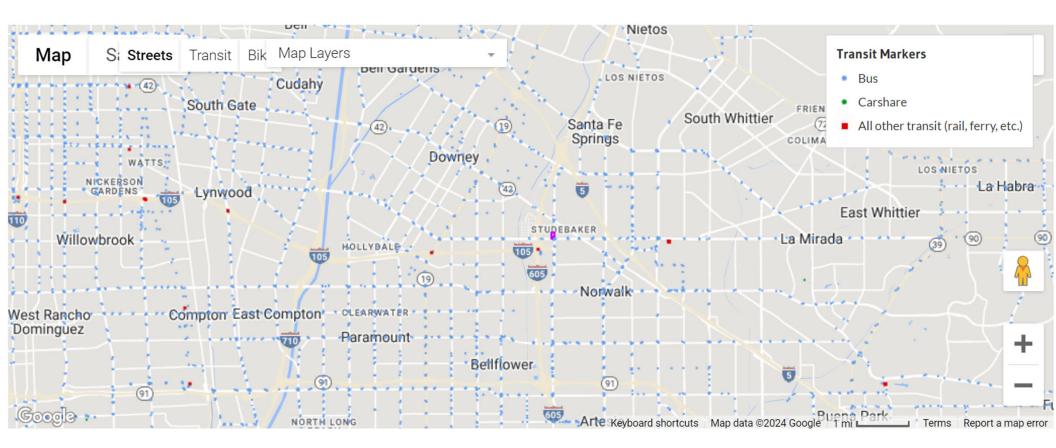




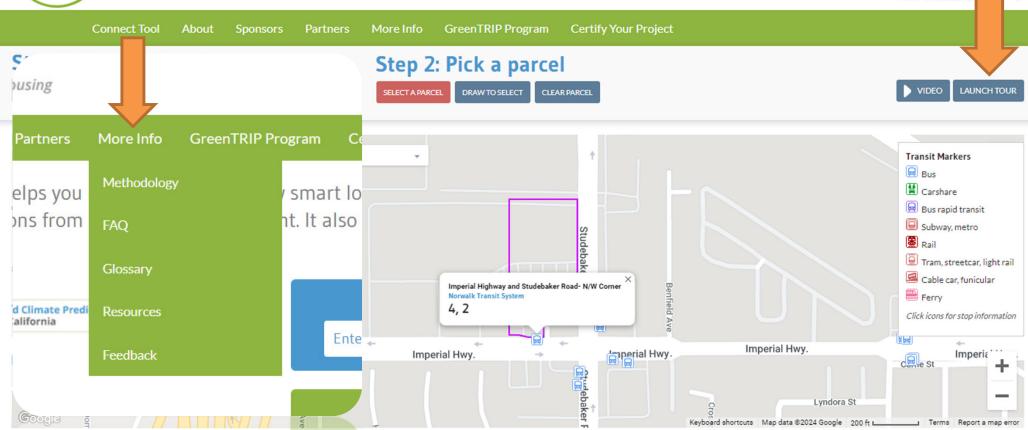




Map data ©2024 Imagery ©2024 Airbus. CNES / Airbus. Maxar Technologies. U.S. Geological Survey. USDA/FPAC/GEO





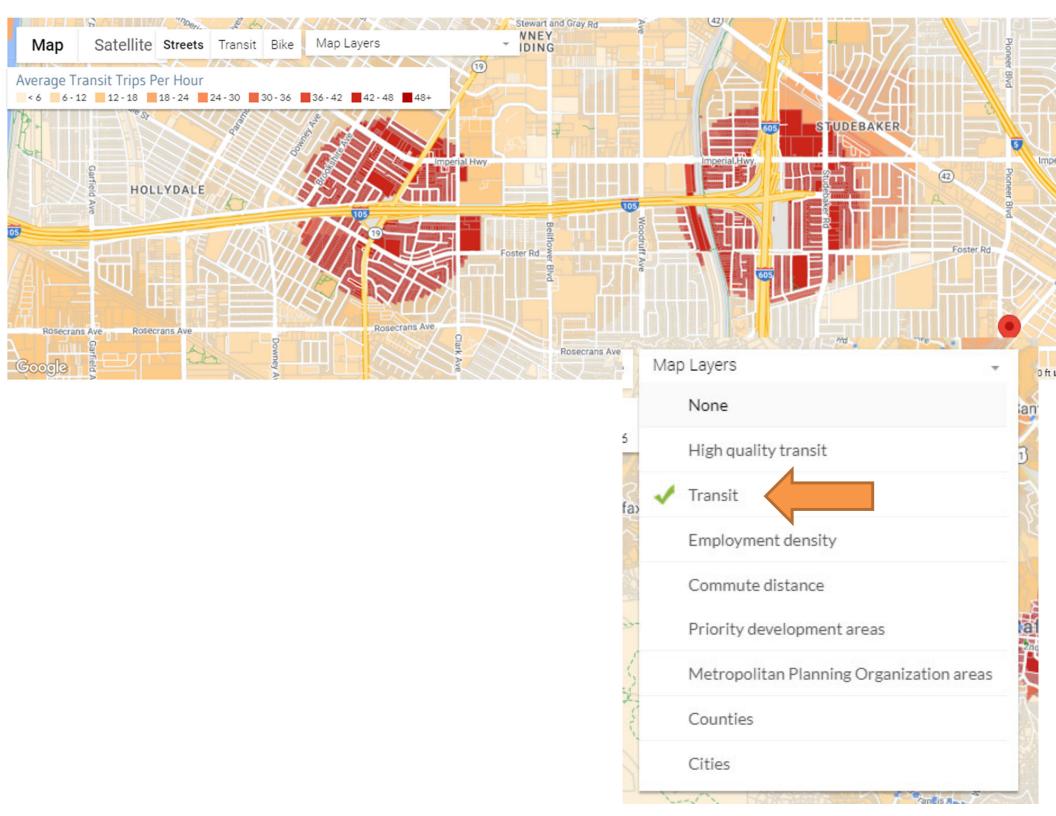


Step 3: Tell us about the project

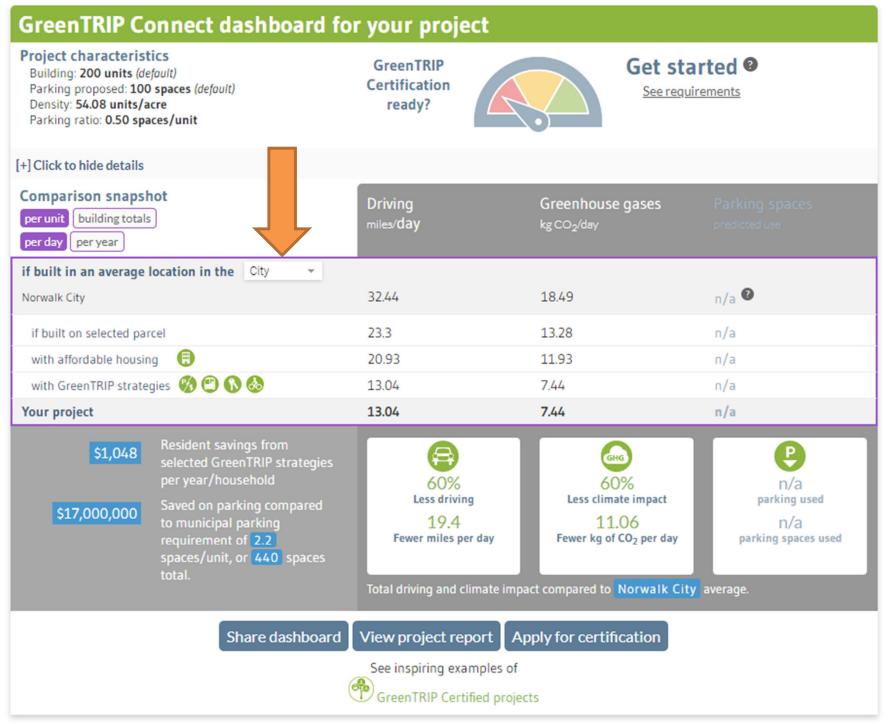
Enter details on your proposed residential project, or create a hypothetical one, to explore how a variety of project characteristics change the amount of driving, greenhouse gas emissions and parking.

Start by selecting one or more parcels on the map above.





Built in Comparisons for SB743 Implementation



GreenTRIP Connect dashboard for your project

Project characteristics

Building: 200 units (default)

Parking proposed: 100 spaces (default)

Density: 54.08 units/acre Parking ratio: 0.50 spaces/unit

GreenTRIP Certification ready?



Get started @ See requirements

[+] Click to hide details

Comparison snapshot

per unit building totals per day per year

Toggle Outputs

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н	mi	les	3/C	la)

32.44

23.3

22.83

Greenhouse	gases
kg CO ₂ /day	

if built in an average location in the	City	~	
Norwalk City			
if built on selected parcel			

with affordable housing with GreenTRIP strategies 🧌 🖱 🕟 🚷

Your project



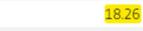
















18.49

10.41

10.41

n/a

n/a

n/a 🚱

n/a

n/a

\$0

Resident savings from selected GreenTRIP strategies per year/household

\$10,000,000



Saved on parking compared to municipal parking requirement of 1.5 spaces/unit, or 300 spaces



Less driving

14.18 Fewer miles per day



Less climate impact

8.08

Fewer kg of CO₂ per day



n/a parking used

n/a parking spaces used

Total driving and climate impact compared to Norwalk City average.

Savings!

Share dashboard

View project report

Apply for certification

updated outputs highlighted in yellow

Below is a custom GreenTRIP Connect project report that you can share, save, print and edit. Add project information to customize the Connect project report.

Project name / address Connect Demo for SCAG Modeling Task Force Ann Cheng Consulting, LLC Project status Exploratory Additional project info This information will appear below the GreenTRIP dashboard in your project report. This is an example of VMT analysis report that could be used by local developers and planning staff to determine how a project meets VMT screening requirements.



Shareable permalink https://connect.greentrip.org/map-tool.php?p=560302



Connect project report

4-page Connect Report for TDM related VMT analysis

Connect Demo for SCAG Modeling Task Force

URL: https://connect.greentrip.org/map-tool.php?p=560302 Prepared by: Ann Cheng Consulting, LLC

Project status: Exploratory

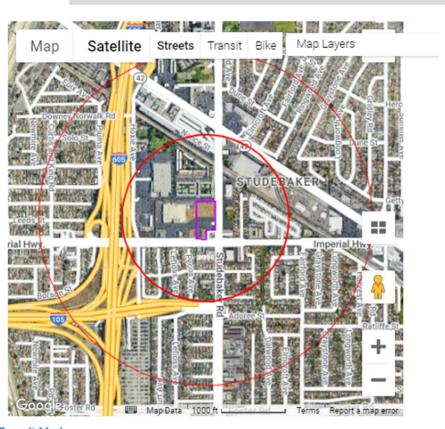
Additional project info: This is an example of VMT analysis report that could be used by local developers and planning staff to determine how a project meets VMT screening requirements.

GreenTRIP Connect (Connect.GreenTRIP.org) is a free, online tool that models traffic and greenhouse gas impacts of a residential project in California. Based on the project's location, unit count, unit mix, rent, parking supply, and traffic reduction strategies, this project will result in:

- 2,835 fewer miles driven every day compared to the Norwalk City average.
- 44% fewer GHG impacts every day compared to the Norwalk City average.
- \$0 in transportation savings for future residents.

Parking when compared to Municipal requirements:

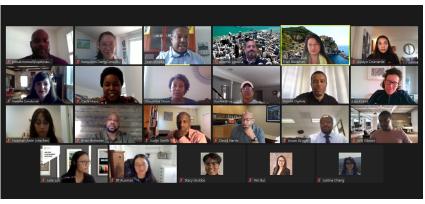
- Saving \$10,000,000 in parking construction cost if built with 0.50 instead of the municipal requirement of 1.5 spaces/unit.
- Saving 28,200 sq.ft. in parking spaces which could be allocated to 38 housing units of 751 sq.ft.



GreenTRIP Connect Uses

- Share and watch the video. FREE Tech Tools
- Use Connect and database in community meetings, workshops and webinars on SB743 Implementation or TDM analysis
- Recorded Connect training webinars





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