PlanCommute

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The Problem

- Climate change is a pressing issue
- Typical passenger car emits 4.6 metric tons of CO₂ per year (EPA.gov)
- Cities like Los Angeles have high car volume and suffer from car emissions
- Hybrid and electric vehicles do not emit as much greenhouse gases

The Problem

- Hybrid and electric vehicles are not doing enough
- Impact of manufacturing these new cars
- Contributes to traffic

The Tangential Problem

- Upgrade public transportation infrastructure
- Allow better access across communities
- Improve driving experience

PlanCommute

Offer one-stop tool for people looking to purchase a new car

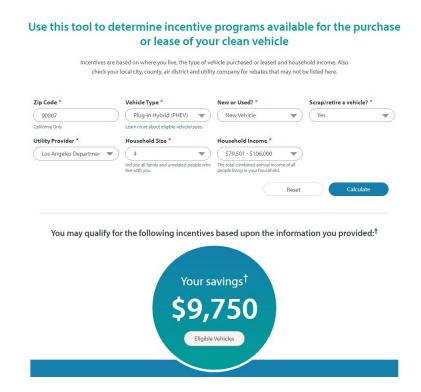
- Various transportation options
- Cost savings of green vehicles and other transportation
 - Transit
 - o Bikes
- Environmental impact score for different options

Alternatives

- Other tools only show either commute options or monetary savings
- PlanCommute offers a holistic view of price, commute options, and environmental impact

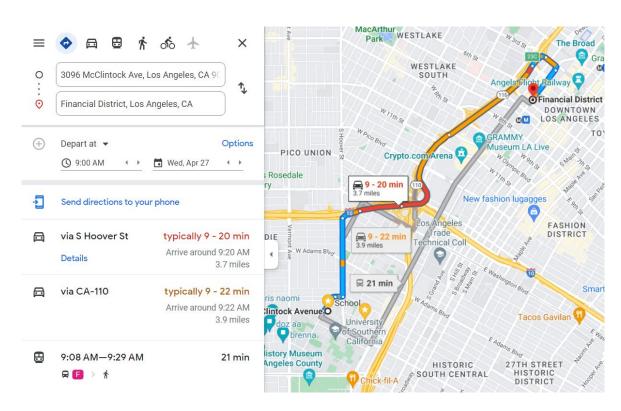
California Clean Vehicle Rebate Program

- Only shows monetary savings
- Perpetuates hybrid/electric vehicle purchasing



Google Maps

- Show commute options
- Time estimates



User Feedback

- User feedback from commuting students and professors
- Consider people purchasing family cars
 - Makes more sense to optimize regular use cars
- Liked the variety of methods
- Make the point of the site clearer

Future Scope

- Integrate ride-share estimates after getting approval from Uber or Lyft
- Expand to other cities and integrate local gas and electricity prices

Tech Specs

- Single Page Application
- Server runs on NodeJS
- Front End built on React JS
 - React-Semantic-UI framework for beautification
- Integrate Google Maps API for addresses and route queries
- Constructed EcoScore using
 - Gas Mileage
 - Cost of bringing cars into circulation
 - Public systems used

Demo