# **Express Carpool Check**Smartphone App Pilot

**July 22, 2022** 

Policy Advisory Council Equity and Access Subcommittee



# **How Occupancy Declaration Works Today**



## **Benefits of Reducing Carpool Violations**

## **HOV Lane Violation Rates**

- AM peak period average: 24% (range: 9% to 39%)
- PM peak period average: 19% (range: 7% to 32%)

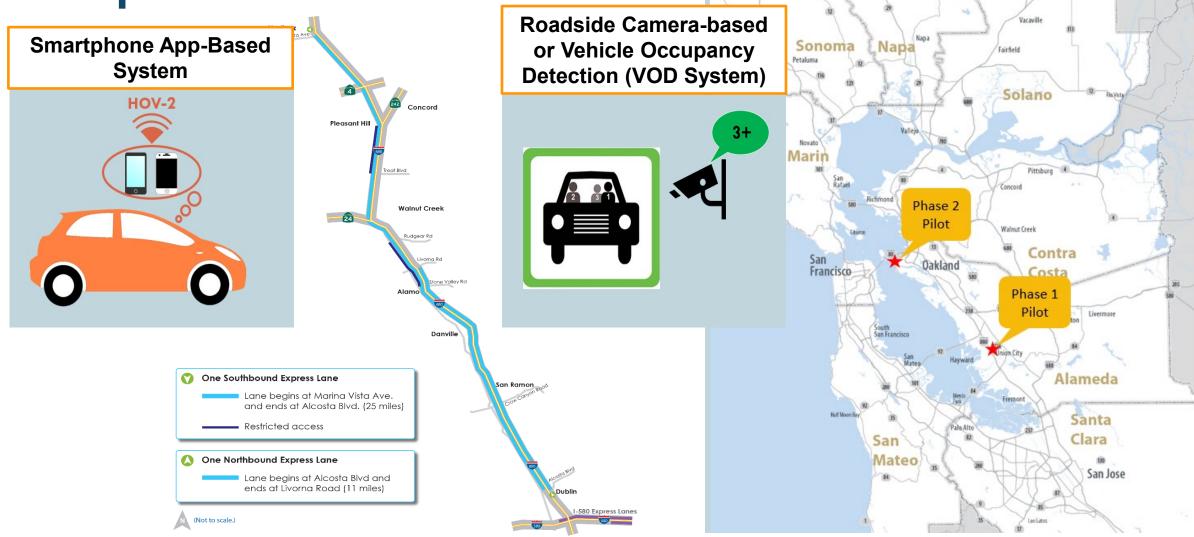
- ✓ Increases person throughput
- Reduces congestion
- Provides more reliable travel times
- ✓ Increases overall efficiency of the system
- Increases public confidence

Source: MTC (2015)



MTC Exploring Two Technology Options to Verify

**Carpools** 





## **Smartphone App Phase 1 Pilot**

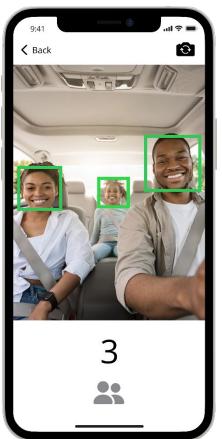
## **Purpose**

- Assess functionality and accuracy
- Gauge user experience and ease of use
- Explore privacy issues
- Understand deployment costs
- Assess future customization opportunities

## **Overview**

- I-680 Contra Costa Express Lanes corridor
- 500+ volunteer participants
- Verify vehicle occupancy
- No toll system or FasTrak® integration
- Collect data by survey & focus groups







## **Considering Equity**

#### **Recommendations Include:**



### **App Pilot Framework**

- Frame project around access.
- Encourage participation by low-income and historically underserved Bay Area residents and establish recruitment targets.
- Provide transparency to users on how their personal data is used and secured, app data, and security— consider risks to undocumented individuals.

#### **Outreach Materials**

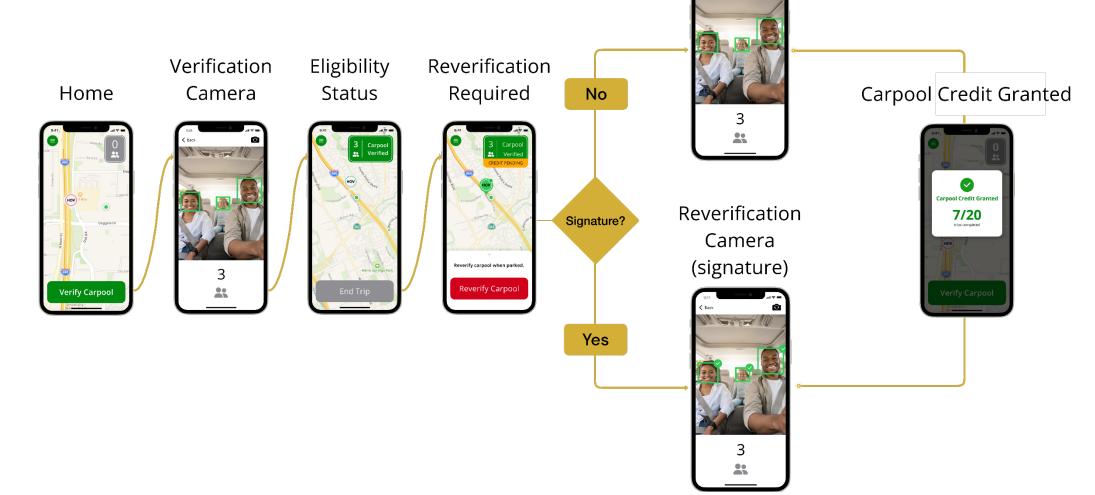
- Be clear about purpose of pilot (details of carpooling and express lanes are not widely understood in the Bay Area).
- Use conversational language and provide outreach materials in relevant languages.
- Focus on benefits to testers and future users.
- Highlight intent to make project/carpooling equitable.



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# **How the App Works**

Reverification Camera (no signature)





# **Considering Challenges & Opportunities**



Ensuring Equity/
App Technology



**Occupancy Detection** 



**Customer Recruitment** 



Privacy/
Personally Identifiable
Information (PII)



## **Phase 1 Pilot Timeline**

Activity	2022				2023	
	Q1	Q2	Q3	Q4	Q1	Q2
Review and Refine Draft Pilot Framework						
Develop and Implement an Outreach/Recruitment Plan						
Pre-Pilot Strategy						
Pilot Period ☆						
Develop and Conduct Post-Pilot Evaluation						
Prepare Evaluation Report						



## Questions



Is there anything you'd like to hear/learn more about?



Suggestions to support recruitment?



Interest in participating in pilot on the 680 corridor?



## **Staff Contact**

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