

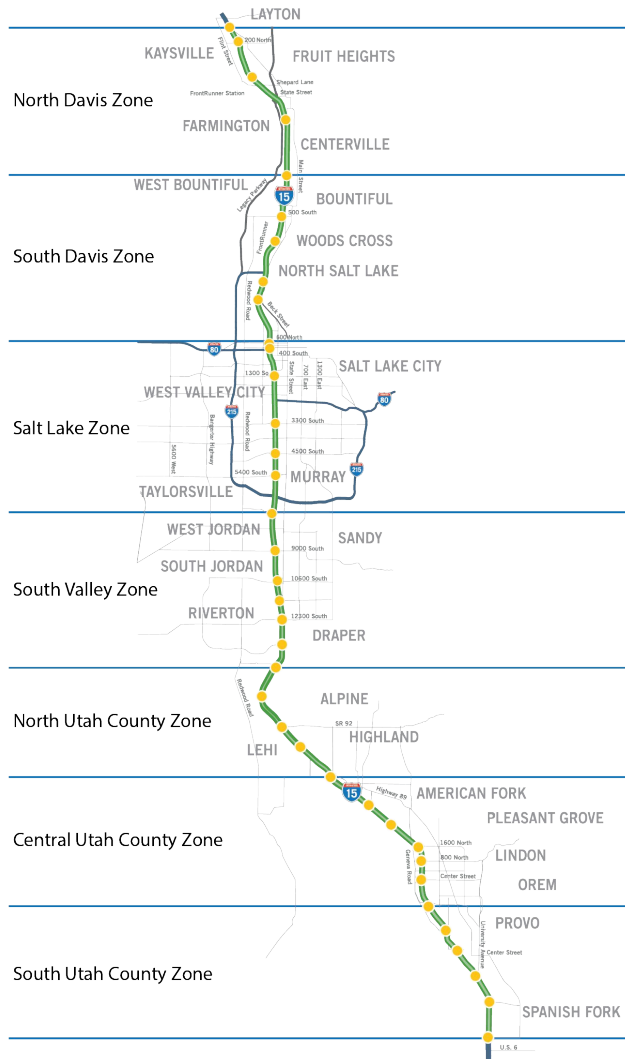


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System size

144
Lane Miles

65
Tolling Plazas

User Requirements

Single-occupant Vehicles
Express Pass

HOV2+, Bus, Motorcycle
No pass required

Enforcement

Utah Highway
Patrol

\$40k
per year

Proposed Violation Reduction Strategy

Transponders

Required for
all users

License plate cameras

Bill & fine vehicles
without transponders

Occupancy verification system

Confirm occupancy or
waive toll for carpools

Occupancy Verification Technology: RideFlag Phone App

- Technology: Use facial signatures in photos to match occupant photos at start and end of trip
- Privacy
 - Photos don't leave phone
 - Tracking can be limited to corridor
- Pilot
 - Internal: Fall 2019
 - Public: September 2020 to February 2021
 - All tolls waived for participants during pilot
 - Complete 8 app trips/month to qualify for next month



Occupancy Verification Technology: RideFlag Phone App

Create user profile with picture and Express Pass transponder.

Start trip before entering the Express Lanes. Add passengers with camera.

“Twins mode” if passengers look too similar to driver or another passenger.

Drive in Express Lanes with transponder.

End trip after exiting the Express Lanes and stopping vehicle.

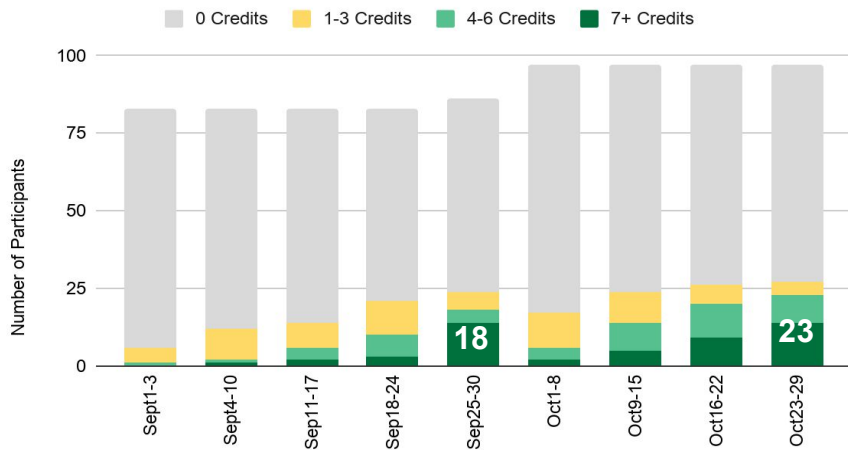
Exit audit is required for some trips. Retake driver & passenger photos.

Receive toll credit.

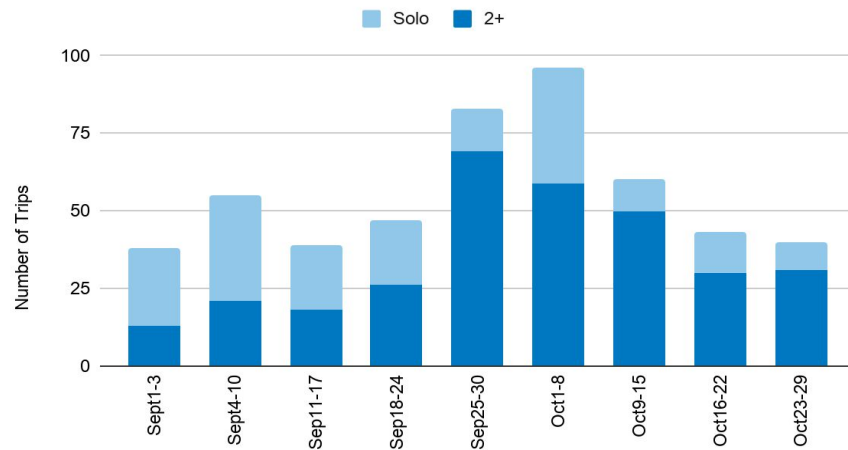


Participation

Number of Participants at End of Week



Weekly App Trips



Feedback

- Customers don't want requirements for carpool access
- Customers want ability to create carpool mid-trip

Lessons Learned

- Improve communication - use app only when carpooling
- Can't control technology platform
- Need alternative method for occasional issues

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