Contactless Open Payments in Transit: Status Report

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TRANSPORTATION TRACK SPONSORED BY DISCOVER



Intro to Transit Payments

Lawrence Sutton Principal Consultant Consult Hyperion



Consult Hyperion background





Why are Payments Important to Transit?

- Barrier to riders choosing to take Transit
- Affects all parts of the agency
- By nature of transit, riders interact twice a day



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History of Transit Payments

- Tokens
- Closed loop systems
- Open Payments



Transit with American Express

Connecting with Card Members along their Journey





INTRODUCTION

Setting the scene for effective communications



MARKETING CONTACTLESS PAYMENTS FOR TRANSIT TEAMS

Contactless payments have arrived; Next Stop: Transit

Among Card Members surveyed that have taken mass transit in the past year:

74% strongly/somewhat agree that they prefer a contactless
payment option for public transit
and 73% strongly/somewhat agree
that using their mobile device
would save them time while traveling. 75% strongly/somewhat agree that they would like to be able to use the same form of payment for transit and at other merchants around the station. 51% strongly/somewhat agree they would be more likely to take public transportation if they did not have to purchase a ticket and if they could use any payment method of their choice.



Source: Amex Trendex: 2023 Digital Payments Edition is based on a sample of 1,013 respondents weighted to U.S. census based upon gender, age, education, race and region. The anonymous survey was conducted online November 3-5, 2023.

THE CONTACTLESS JOURNEY

Foundation for strategic and consistent messaging

MARKETING CONTACTLESS PAYMENTS FOR TRANSIT TEAMS



Find Your Stop on the Contactless Journey

Whether you are transitioning to open-loop or full-speed ahead on a marketing plan, consider what stage you are in when working through your marketing plans.





Working with American Express can create a Closer Connection to Card Members

Our direct relationships with both Card Members and Merchants allow us to provide our clients with unparalleled marketing segmentation and insight based on transaction data.





How to Create a Campaign That Stops Riders in Their Tracks

While campaign creative and activations will vary, these are some best practices that apply to contactless transit campaigns:

- 1. Develop a clear and actionable key message
- 2. Follow the customer journey
- 3. Be local
- 4. Use logos and visuals for credibility



'Be Local' Case Study: MTA & the US Open in NYC





NOTHING COMES BEFORE YOUR COFFEE, NOT EVEN THE 9AM MEETING.



TAP. PAY. 🛞 GET THERE WITH AMEX.





NOTHING STANDS BETWEEN YOU AND YOUR SPICY RIGATONI.



 НАТ МАИСНЕВО

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 IS WORTH THE

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Wrapping up the trip

Summarizing some key takeaways:

- 1. Card Members prefer using contactless payments
- 2. Messaging should relate to your contactless journey
- 3. Localized campaigns connect with Card Members along their entire journey



Expanding and rewarding access to mobility

Future's incentive platform has rewarded over 2 million rides



Future R APP OF THE DAY APP STORE

Rewards for Transit

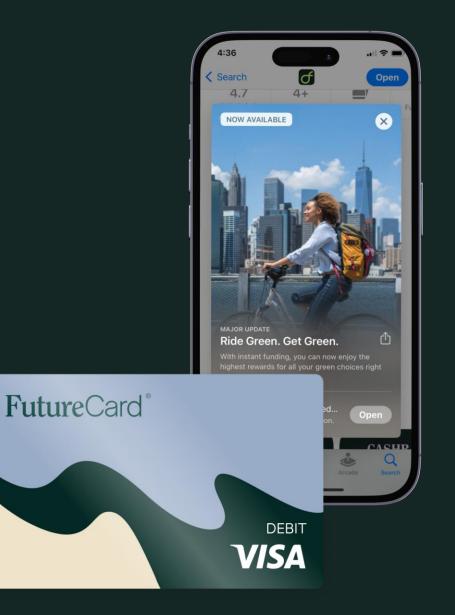
NOW FLAVEN LINE DEPARTUES PROTECTION IN TAS ESTIMATION DATABASES DEPARTUES IN TAS ESTIMATION DATABASES DE LA CONTRACTÓN DE Go Green. Get Green: 5% cashback on bills, rides and everyday savings



FutureCard Visa Debit offers the highest cashback of any debit card in America



- 5% cashback at 50,000+ merchants
- No annual fee
- \rightarrow Built-in loyalty stack for frequent transit riders



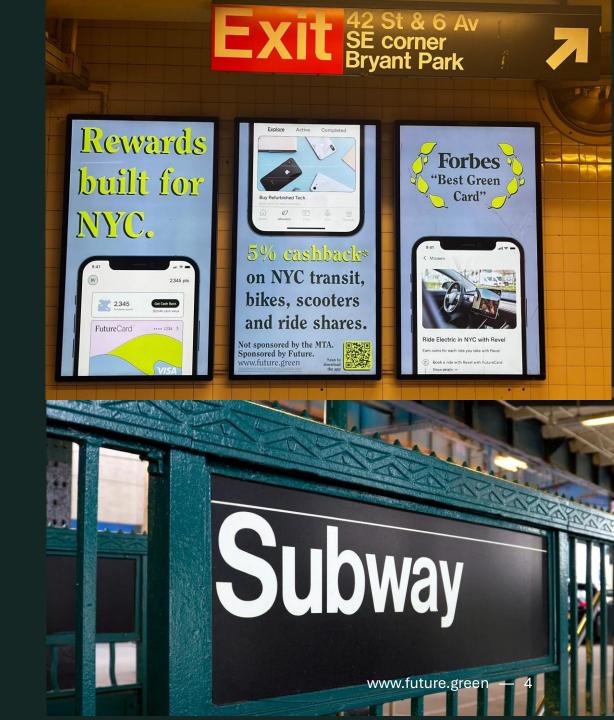
Custom Loyalty Programs Future's rewards stack for open loop.

Case Study

In New York, Future introduced a \$5 instant bonus to members taking 12 public transit rides a week with Future.

- 47% increase in monthly rides per member to 22 rides
- A third of Future's riders now reach the 12-ride streak

"Pure magic. I'm now thrilled taking the next bus" – App Store Review

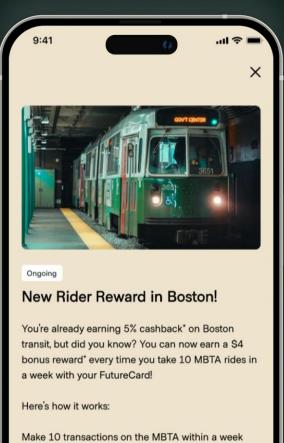


Custom Loyalty Programs Milestones expand rewards for frequent riders

Case Study

In Boston, Future recently introduced a \$4 instant bonus to members hitting 10 rides a week.

 56% of respondents to a recent survey would be very disappointed if Future's rewards went away



(Monday-Sunday). Your \$4 bonus will be added to your points balance automatically after your 10th ride.

You will continue to earn 5% cashback on every ride!



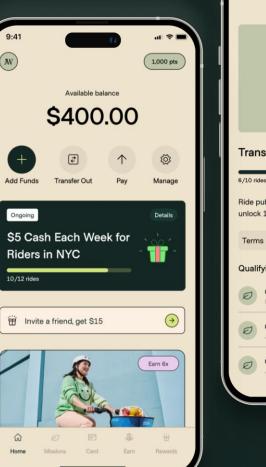
Go Green. Get Green: Open Loop systems well-positioned to leverage incentives

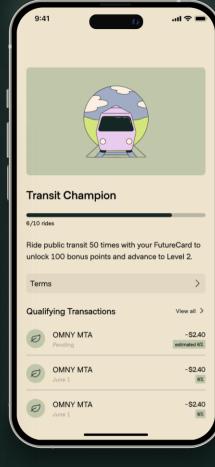
Streaks and Milestone bonuses are instant when riders tap to pay

- \bigcirc Variable incentives by day or time of day (*e.g.*, Transit Tuesday or off-peak rewards)
 - Rewards can be tailored to reduced fare passengers
 - Ease of rewarding rides across modes
 - **Zero integration requirements**

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Partners have access to a real-time dashboard that shows mobility choices and quantifies the impact of initiatives to grow adoption.



- Tailor initiatives to grow ridership
- Test the impact of shortterm incentives on longterm adoption
- Track engagement of participants in real time and in compliance with privacy policies.

Our Future members so far have

\$2.3M+

Earned in rewards



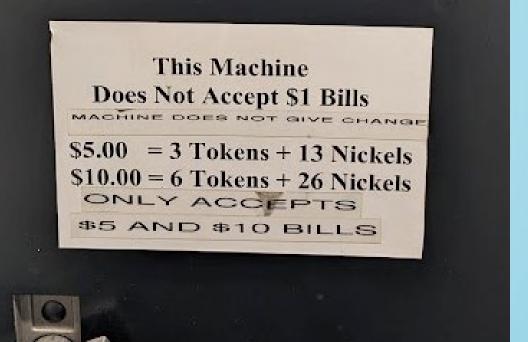
Saved in green choices

2M+

In green rides with Future











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Piloting open payments on passenger rail

Focusing on the customer—and workforce—experience

Amtrak California

Jim Allison, Manager of Planning jima@capitolcorridor.org

Amtrak Californ

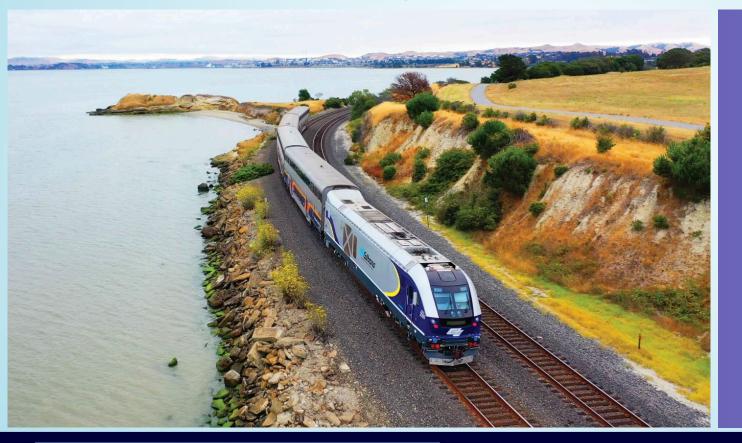




2008

Amtrak-operated Capitol Corridor links the SF Bay Area to our state capital

AP2











Getting started: Tapping State partners

CCJPA is the fiscal sponsor of Caltrans' California Integrated Travel Project (Cal-ITP), a statewide initiative designed to support public transit with:

- A common payment system: debit/credit cards just like passengers pay for a cup of coffee.
- *Real-time transit data standard:* live train and bus locations on standard mobile phone journey-planning apps, such as Apple Maps and Google Maps.
- Seamless verification of eligibility for transit discounts, such as older adults, veterans, students.



Ef Caltrans

calitp.org

hello@calitp.org





Joining the open-loop fare payment ecosystem—with State of California contracts

Payment acceptance devices ('POS' hardware)

• 4 payment readers per double-decker train car (CCJPA doesn't own its stations).



KUBA

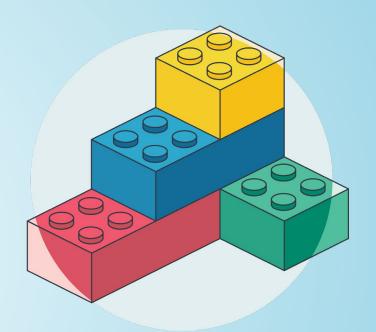
Transit processor (fare calculation software)

• Uses reader's location & train number to assess Tap On / Tap Off distance-based fare, pay-as-yougo fare caps (5th ride free), penalty if no Tap Off.



Electronic payment (EPAY) acceptance processor (acquirer)

• Moves fare money from each rider's account to CCJPA's merchant account.



California's competitively awarded contracts are available to all public transportation providers across the United States: camobilitymarketplace.org/contracts





Piloting Tap2Ride—1st on passenger rail line in U.S.

• **Registration** allows CCJPA to **control** the number of Tap2Riders, **connect** with them for feedback, and **generate a** *federally mandated* **manifest list**.

• Pilot allows learning the necessary internal processes to **operate a revenue collection system**—previously, Amtrak was solely in charge of ticketing / fare collection—in a low-risk environment (limited group of users).

• **Minimal disruption** to Amtrak, both corporate and conductors—**done in parallel to existing processes** on trains.

• Learn behaviors (of passengers, conductors, devices!), iteratively massaging comms and tuning processes.

Study travel patterns and pay-as-you-go fare pricing.



CA Secretary of Transportation Toks Omishakin taps to ride aboard Capitol Corridor.





The Customer Experience

- Initially, ~330 pilot participants were recruited via:
 - **on-train messaging** (with a QR code + registration URL next to each payment reader)
 - on-platform digital signage
 - social media, press release on news blog, newsletter
- Mix of commuters + weekend riders, all with contactless debit or credit cards (just Visa + Mastercard at first; Discover + American Express just completed L3 certification).
- Easy **one-time registration** with name + email address (for manifest list + ease of contacting if they forget to Tap Off).
- An emailed Welcome Letter, addressing FAQs + acting as 'proof of registration' in event of reader or card failure.
- Each reader has **universal symbol for tap to pay**, and pilot participants **Tap On** when boarding, **Tap Off** when their station name is visible on on reader screen.







The Customer Experience

• Want to see our Tap2Ride fares + see how to earn free rides with fare capping? Just visit our Tap2Ride page.

• **Need a receipt?** Transit processor Littlepay provides a website for tracking fare payments.

• Need a fare adjustment because you forget to Tap Off? or a train goes out of service? Our website has a form for requesting—and we monitor and proactively reach out to adjust down penalty fares during the Pilot.

Trips Per 30 Days
● One Way ○ Round Trip
5
Origin
Origin
Davis
Destination
Oakland Jack London
Total Fare \$100.00
Savings \$35.00

Tap2Ride pilot program fares are \$2 off the full single ride fares between the same origin and destination stations. With "fare capping", Tap2Ride participants also receive one (1) free ride after completing four (4) one-way trips between the same origin and destination stations for any given 30 day period.



Customer transactions inquiry page									
MY TRANSACTIONS O									
17 Jan 2023 17:29:58	441617*****5380					\$20.00	~		
Fairfield-Vacaville 17 Jan 2023 17:29:58 Incomplete Max fore	🛱 Outbound	PURCHASE O	PRODUCT APPLIED O NONE	FARE 9 \$20.00	DEDUCTIONS O NONE	CHARGED \$20.00	Ð		
17 Jan 2023 17:22:08	⊟ 441617*****5380					\$10.50	~		
 Berkeley 17 Jan 2023 16:24:33 Suisun-Fairfield 17 Jan 2023 17:22:08 	DIRECTION O	PURCHASE O	PRODUCT APPLIED O NONE	fare ● \$10.50	DEDUCTIONS @ NONE	CHARGED \$10.50	Ø		
(1) Refunds									
TRANSACTION DATE 26/01/2023	SETTLEMENT DATE 26 Jan 2023 13:14:06	REFUND AMOUNT -\$10.50	REFUND STATUS SETTLED						
17 Jan 2023 06:15:44	441617*****5380					\$0.00	~		
 CCJPA 17 Jan 2023 05:34:30 Martinez 17 Jan 2023 06:15:44 	DIRECTION O	PURCHASE O	PRODUCT APPLIED @ NONE	fare ● \$0.00	DEDUCTIONS @ NONE	CHARGED \$0.00	0		

isplaying 1 to 3 of 3 results

🔒 Print Statement





The Conductor Experience



CAPITOL CORRIDOR

a AP2

• During their routine Seat Check, **Amtrak conductors verify that Pilot Participants have Tapped On** (and not Off again) with a **fare inspection app**.

° Currently must use a Wi-Fienabled *Android phone* to verify Tap2Ride transactions via phone's NFC (near-field communication) reader.

° Conductors also carry an e-ticketing mobile device (EMD) an *iPhone*—to scan traditional Amtrak tickets.

° **Apple** just began allowing developers to access the **NFC reader for an iOS app**, so we're working on one with our technical & payment partners + Amtrak.

3:05 PM



Lessons Learned—Technical Systems

With any new system, **monitoring is needed**—we visualize data in one dashboard by pulling in APIs from:

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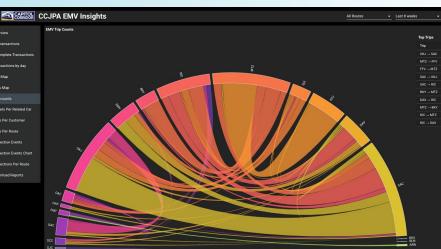
- Payment readers:
 - Taps On / OffDevice health
 - Train location
- Train equipment health + route #
- Wi-Fi status

Fare calculation software • Bank card

•

- insufficient funds ("Deny List")
- Fare adjustments

MAIN MEN





Customized Xentelligent Insights Dashboard by Aventrans





itrans All Rights Reserved. Conta

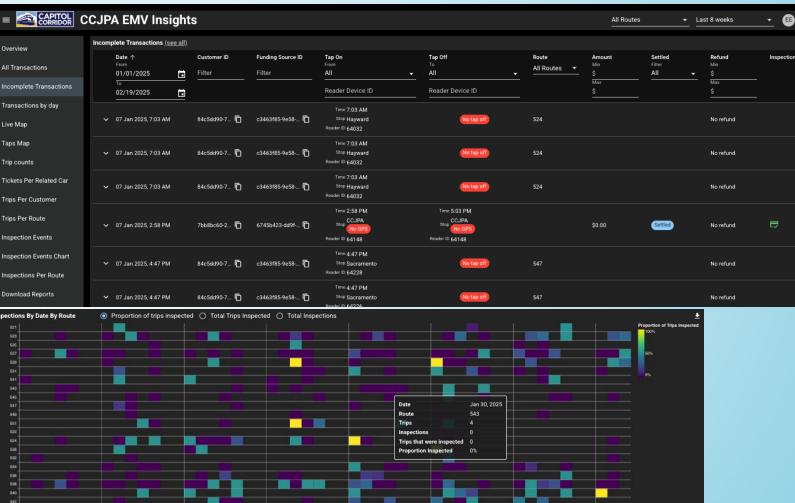
Lessons Learned—Workforce

With any new system, staff needs time to adapt—and easy tools to help with doing their job:

- Amtrak
 - Conductors
 - New way to pay / verify payment
- CCJPA
 - Marketing
 - New way to pay
 - Pilot recruitment
 - Customer Care
 - Bank card not working / replaced
 - No Tap Out vs. Train Equipment Issue
 - Fare adjustment request
 - Finance Team
 - New revenue source to manage
 - Fare adjustments
 - Ops / Planning
 - Fare products
- Technical Partners
 - Tracking / maintaining new devices

Customized Xentelligent Insights Dashboard by xentrans

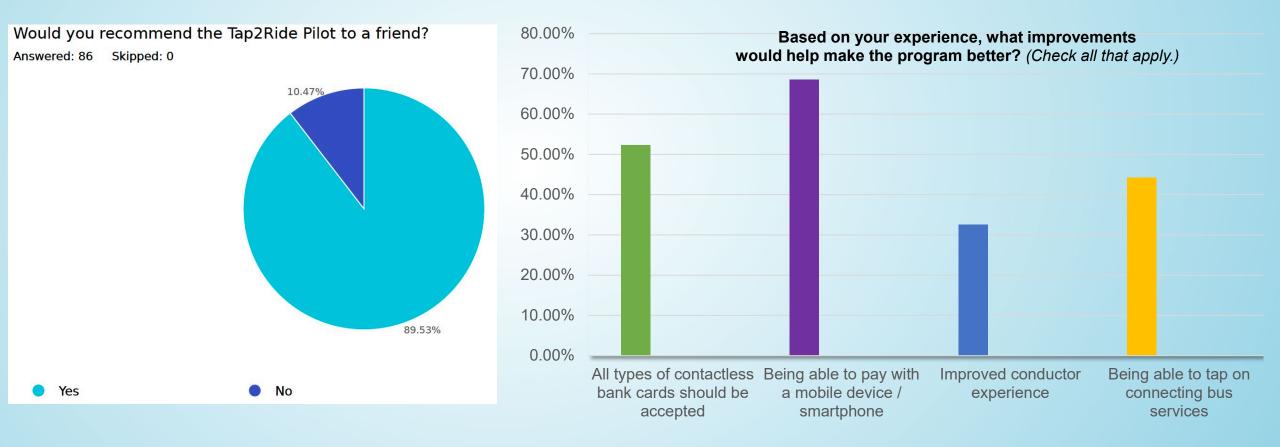






Lessons Learned—Pilot Participant Feedback

We surveyed our pilot participants—86 responded, and here are some stats that stand out:







Lessons Learned—Pilot Participant Feedback

Commuter between multiple stations:

The benefit for me using Tap2Ride is that while I frequently use Capitol Corridor, I am often not going to the same destinations. The 10-ride ticket is limiting as I really need to solidify being between two cities in a more commuter-oriented approach. For example, my commuting standard would be Richmond to Sacramento, but I sometimes head to Davis or Martinez. **Tap2Ride has allowed me to maximize the use of Capitol Corridor** without wasting my 10-ride ticket.



Ditching the car to run errands:

Biking to the train station and hopping on board the next Capitol Corridor has become second nature to me thanks to tapping. I check the schedule and to see which train is going to work best, then pedal over to grocery shop, run errands, and meet friends and family all over the East Bay.

It really is astonishing how easy the whole experience is and how quick and hassle-free it is compared to driving.



Cycling between transit and train:

As a semi-frequent rider of Capitol Corridor, I want to voice my support for Tap2Ride. This pilot has been a very cool way to experience Capitol Corridor and **adds flexibility to where I want to get off**—which is important for me, as I'm often transferring to other transit services.

The easiest example of this is the BART transfer at Richmond, which on weekends is very difficult to time to where you're not spending 20 to 30 minutes waiting for the next BART out. Since I bring my bike, I can also choose to get off at the Emeryville station and connect to West Oakland BART if I'm going to San Francisco, or Jack London to Lake Merritt if I'm going to South East Bay. Tap2Ride gives me the ability to make this decision last second.



Typically a solo rider:

We have taken the train once as a family and I was reminded of the **extreme convenience of tapping compared to my wife's ticketing ordeal**: having to go online and buy a ticket, get an email, find her ticket on her phone, call it up, etc.





Next Steps: 2025 Priorities

ASAP

Launch new card registration (and card replacement) flow on <u>capitolcorridor.org/tap2ride</u>
Recruit to expand to 500 active participants.

Early Q2

 Add Tap2Ride readers to Amtrak Thruway /
 Connections Bus that runs a timed transfer between downtown San Francisco and Emeryville station.

Now through Fall

- Develop and deploy Apple EMD inspection app for Conductors.
- Deploy Fare Adjustment Tool and iterate on it.
- Work with **Conductors** to provide a consistent customer experience during seat check / fare inspection.

Fall to Year-End

• Work toward **growing Tap2Ride pilot to 1K** or more participants—as all Technical, Conductor, and Customer Care tools allow for CCJPA (and Amtrak) to technically handle any number of participants.





Next Steps: Longer-Term Priorities

Add Tap2Ride readers to more Amtrak bus connections.

 Work on seamless transfers with other transit agencies that have implemented Tap2Ride.

Enable family and small-group Tap2Ride via Conductors'
 Apple EMD devices.

• Offer automated discounted-fare eligibility verification for Seniors, Veterans, Lower-Income Californians via Cal-ITP Benefits Tap2Ride web tool: <u>benefits.calitp.org</u>.





Clipper®

SAN FRANCISCO BAY AREA TRANSIT FARE COLLECTION

Jason Weinstein Director, Clipper Program 2/25/25







Current Clipper Functionality

New Next-Generation Clipper Functionality Has Already Been Incorporated Into Existing Clipper

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All-in-one contactless card for 22 transit agencies

- \$33M+ fares collected and 14+ million rides every month, BART is 100% Clipper
- 94% customer satisfaction
- New Clipper readers substantially installed on buses and at ferry and rail facilities

Riders can pay easily with a mobile or plastic card



- Mobile cards in Apple and Google Wallets account for over 33% of Clipper rides
- Over 3.7 million mobile cards issued
- Mobile cards support near real-time purchases via the Clipper app or mobile wallet



Supports regional and agency-specific fares

- Clipper BayPass, *increase in 40% in ridership, and 74% in transfers
- Clipper START, Qualifying disabilities, Senior, Youth
- Transfer discounts between certain agencies

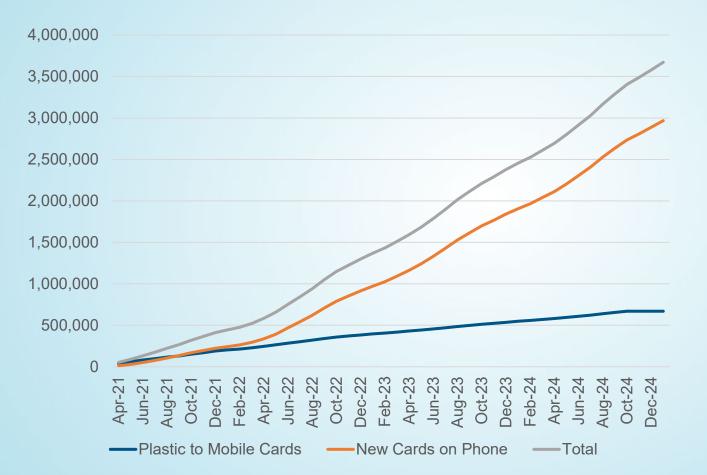
Validates first and last mile trips to/from transit

- BART Daily Fee Parking
- BayWheels
- Certain BikeLink lockers

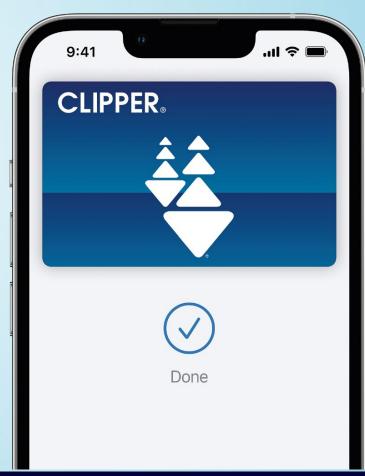
*Data from randomized control trial at BayPass Phase 1 institutions where ~25% of students were given a BayPass and ~75% kept pre-existing single operator pass product.



Mobile Clipper Cards

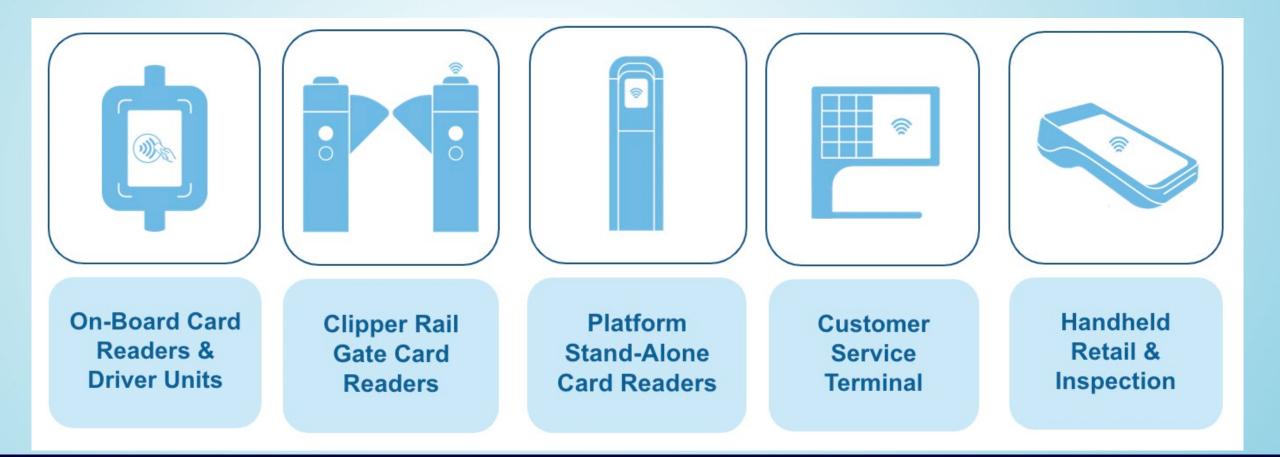


3,700,000





All New Equipment





Upcoming Clipper Functionality

No-cost and reduced cost transfers*	Open payment	Clipper app upgrades	Back-office and equipment	Clipper account management upgrades
Opportunity to grow ridership Major benefit to low-income riders	Riders can pay with major contactless credit/debit cards and receive the same transfer and discounts as an adult Clipper card	Group travel on certain operators Near-real time purchases supported for plastic and mobile cards	Cloud-based back-end, with new readers	Manage kids, seniors, other's accounts Secure online applications for Youth and Senior cards

*When making an inter-agency transfer, customers using Clipper receive a discount equivalent to the single-ride Clipper fare for amounts up to the region's highest local transit fare (currently \$2.75). This amount may change based on local agency fare adjustments. Funding provided for 18-24 month pilot from Transit Transformation Action Plan Implementation funds.



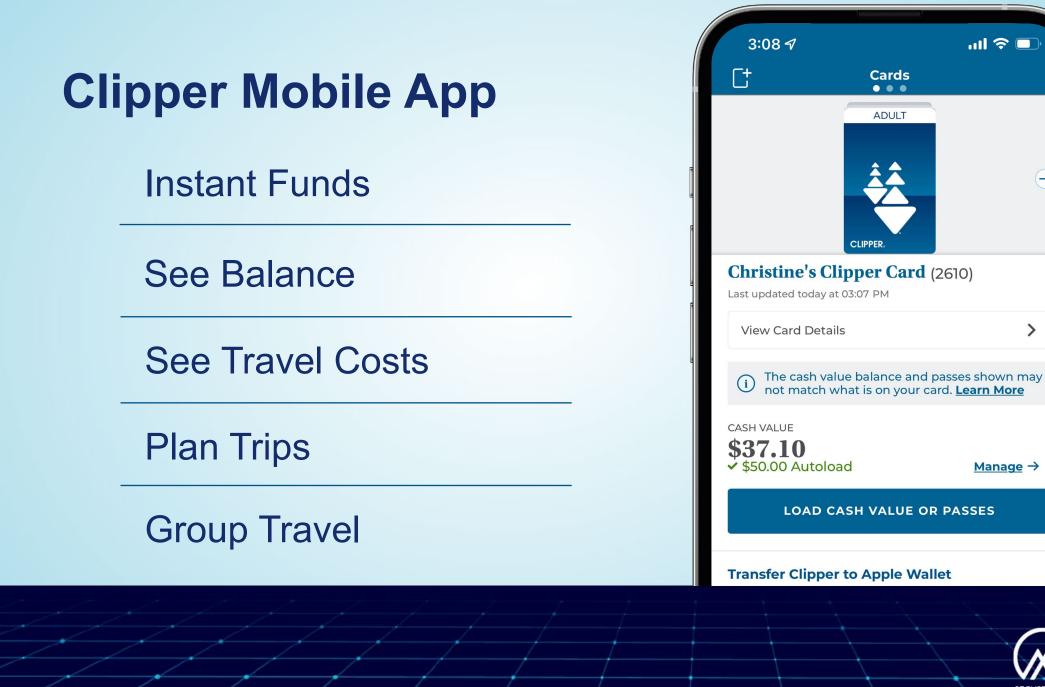
Cards You Already Have

Contactless credit/debit cards

- American Express
- Discover
- Mastercard
- Visa







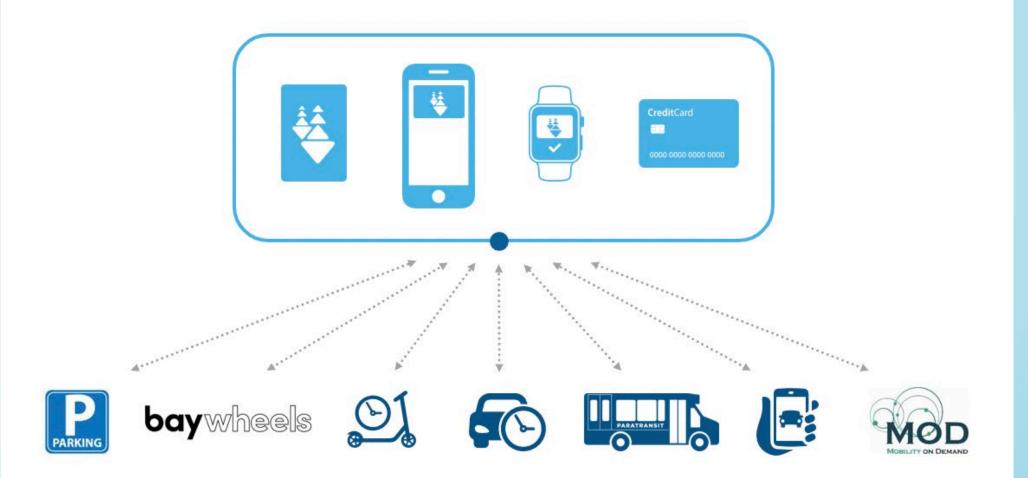
IDENTITY & PAYMENTS SECURE TECHNOLOGY ALLIANCE Feb 24-26, 2025

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Manage \rightarrow

The Way to Access Them All







Thank You

Jason Weinstein Director, Clipper Program jweinstein@bayareametro.gov

