











IT-ITS Update

Enhancing Transit Through Technology

Ad Hoc Technology Committee April 21, 2022

Connecting the Community

Mission

Connecting the Community

Vision

Leading the delivery of safe and creative mobility solutions and community connections

RTA

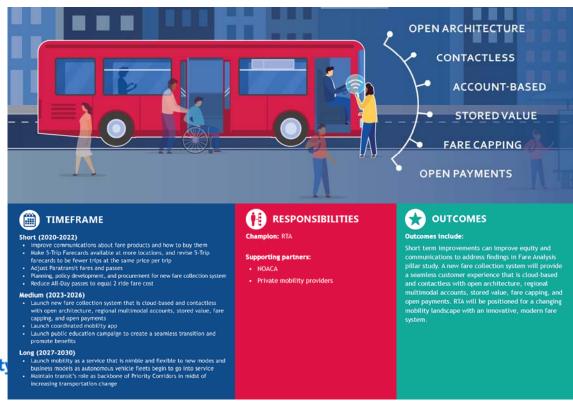
RTA Strategic Plan: Key Initiatives

- 1. Improve where and when buses travel
- 2. Improve how streets function
- 3. Improve how customers pay
- 4. Improve passenger safety and comfort
- 5. Engage with emerging technology, data and new mobility
- 6. Address funding challenges
- Partner to support vibrant communities and access to job centers



Improve How Customer Pay

- Implement recommendations from Fare Equity Analysis pillar study
- Change RTA fare collection to improve customer experience and better reflect best practices
- Seamless, equitable



Engage with emerging technology

Medium (2023-2026)

for new technologies

Vision Zero Implementation
 Long (2027-2030)

Incorporate dedicated power and dedicated communications into

Collaborate with employees on workforce development and training

Refine policies and practices as driverless technology advances, such

 Integrate mobility-as-a-service in order to deliver optimal travel solution to customers among all available modes

new infrastructure projects in association with partners

as minimizing zero occupancy vehicles on transit corridors

Continue to lead and leverage technological innovation in service of

- Refocus using technology as way to improve the customer experience & equity
- Experiment with connected vehicles
- Improve infrastructure
- Enhance real-time info
- Invest in data security & sharing
- Pilot mobility management

Greater Cleveland Regional Transit Aut



Cuyahoga County

Utility providers

· Neighborhood groups

· Private and nonprofit partners

· Coordinated system of standards, infrastructure,

· Emerging technologies that aim to improve air

Equitable distribution of technological benefits

and data that creates efficient public systems

and supports an inviting private sector business

quality, lower mobility costs, and reduce travel

of existing RTA employees and expands knowledge

Cleveland's Digital Divide

- 2018 Census Bureau: Cleveland had the lowest rate of connectivity
- 2019 American Community: 30.7% of Cleveland households had no broadband access
- The 2020 COVID-19 pandemic showcased the divide
 - Schools and companies transitioned to remote learning
 - Students and employees may not have had adequate solutions



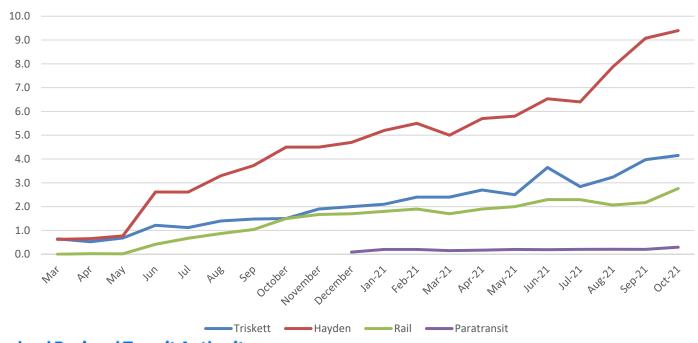
RTA and the Digital Divide

- In 2019, RTA launched an innovative, radio communication project
- RTA installed mobile routers and hired ATT for unlimited, unthrottled internet service
- As part of the project, RTA launched complimentary Wi-Fi for all riders
- RTA team members were awarded the "Most Innovative" award at the Vontas conference in 2021



RTA Vehicles: Wi-Fi Usage (TB)

Wi-Fi Usage in TB





RTA Station Wi-Fi





RTA Job Fairs

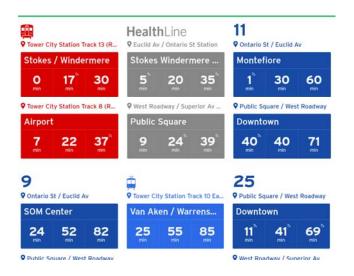
- In 2021, RTA held multiple job fairs to recruit operators
- RTA used buses and other mobile routers to provide connectivity to applicants and the human resource department





RIA

Real-Time TVs





- Real-time information at key stations
- Free Wi-Fi for a fully connected trip

RTA

Infotainment: New Buses



Onboard Messages:

- New buses are equipped with multiple screens that display route information
- All buses have audio announcements
 - RTA can now record messages in Spanish



New Fare Collection System

- In May 2022, RTA will soft-launch the new mobile, fare payment app
- As part of the project, RTA will also implement smartcard technology

Smartcards:

- Free for riders
- Provide account based ticket
- Provides fare capping capabilities for fare equity
- Allows riders to load funds (credit card or cash) onto their card



New Fare Collection System







Front Door

Validator on HealthLine vehicle Validator on HealthLine vehicle **Back Door**

Mobile device scan for retailers



Public Comments

- In person
- Call 440-276-4600
- Web form:
 - Submit comments and IT topic suggestions for future meetings. Webform comments will be sent to the committee and staff.

RTA

Questions

