





MOD On-Ramp Program Lessons Learned Webinar

MOD for First/Last Mile Solutions

June 30, 2020



WELCOME

Lessons Learned from the MOD On-Ramp Program June 23 & June 30







In this series of two webinars, the Federal Transit Administration (FTA), the Shared-Use Mobility Center (SUMC), and the six participating transit agencies from the Mobility on Demand On-Ramp Program (MOD) will share lessons learned. This program provided technical assistance and project-building strategies to support six innovative MOD projects in developing concepts, partnerships, and plans to prepare for the implementation of mobility options.

MOD for Mobility Integration Date: Tuesday, June 23

Time: Noon - 1:30 p.m. PT / 1:00 - 2:30 MT / 2:00 - 3:30 CT / 3:00 - 4:30 ET

Register for June 23

MOD for First/Last Mile Solutions

Date: Tuesday, June 30

Time: Noon - 1:30 p.m. PT / 1:00 - 2:30 MT / 2:00 - 3:30 CT / 3:00 - 4:30 ET

Register for June 30



HOUSEKEEPING

All attendees are muted and cameras off

Closed captioning available

Submit questions through Q&A box

Questions are going to be addressed during the Q&A portion of this webinar

Chat box to interact with other participants

Webinar recording will be available at the MOD Learning Center



AGENDA

Opening Remarks

- Federal Transit Administration
- Shared-Use Mobility Center

Presentations

- MATA: Microtransit for Low-Density Area
- BART: On-Demand Accessible Ride-Hailing
- MDOT MTA: Access to Opportunity Microtransit

Q&A Session



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Search

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About

Funding

Regulations & Programs

Home / Research & Innovation

Research & Innovation	
Research & Reports	>
Technology	•
Transit Automation	3
Training and Workforce	
Development	
Bus Rapid Transit	>
International Public	2
Transportation Program	
Bus Testing	>
Recipient Resources	
Related Links	
FAQ	
Integrated Mobility Innova	tion

Related Links

- Sign Up for Updates
- Shared Mobility guidance

Transit Automation Research

- Transit Cooperative Research Program
- Harnessing Innovation for Public Transportation at

Research & Innovation

FTA envisions the US having a world-class public transportation system with access and mobility for all. FTA's research strives to advance public transportation innovation by leading research, development, demonstration, deployment, evaluation, and implementation practices and technologies that enhance effectiveness, increase efficiency, expand quality, promote safety, and ultimately improve the transit rider's experience.



Through testing and deployment, FTA's Research, Demonstration and Innovation program helps the transit industry adopt tried-and-proven technologies. Demonstrations of new technologies can reduce risk and help create both supply and demand. Learn more about FTA's research program in our latest video, Harnessing Innovation for Public Transportationg.

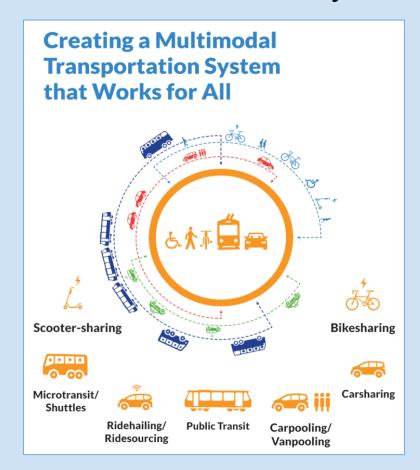
What's New

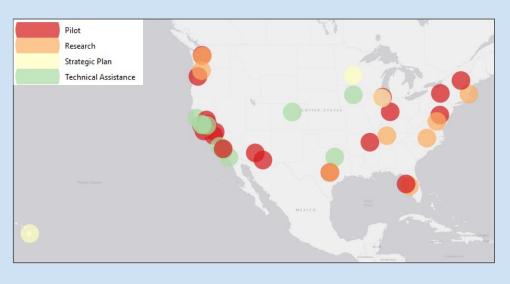
- In May, FTA posted research reports on the demonstration of a fuel cell electric bus in Birmingham, AL, the status of seven 2016 Safety, Research and Demonstration (SRD) projects, and a Mobility on Demand (MOD) research and demonstration project in Palo, Alto, CA.
- On May 26, 2020, FTA announced a \$1.25 million funding opportunity to demonstrate and evaluate innovative technologies and designs to improve the state of good repair for transit agencies.
- FTA's Accelerating Innovative Mobility (AIM) initiative highlights FTA's commitment to support and advance innovation in the transit industry and promotes forward-thinking approaches to improve financing, system design, and service.



Shared-Use Mobility Center







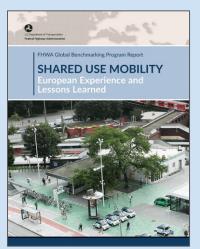
Shared-Use Mobility Center

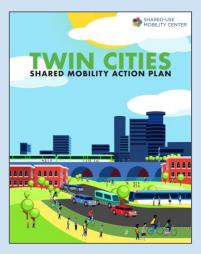


















Mobility on-Demand Learning Center



learn.sharedusemobilitycenter.org



Overview

Microtransit, like most on-demand mobility services, is less a completely new mode than an evolution of existing modes enabled by technology. Unlike many of the other shared modes, microtransit can take many forms in how it operates, the types of vehicles it uses, and the forms of partnerships (if any) that enable it. This variation leads to a wider range of definitions than the other shared modes, as discussed below. The broad range of possible applications for microtransit can also lead to its use for meeting existing transportation challenges. This Learning Module attempts to bring the mode into focus for public agency planners. An examination of previous pilots and resulting studies indicate that microtransit is not a one-size-fits-all solution. Rather, it is one of many tools available to help meet the mobility needs within a community.













MOD On-Ramp Program

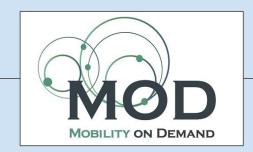


Objectives

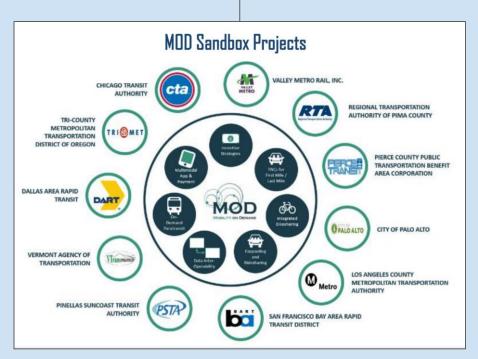
The MOD On-Ramp program serves as an incubator to develop innovative mobility ideas and to convert them into implementable (business) plans

Participate in a community of transit agencies developing MOD projects

Create practical knowledge and lessons learned to disseminate with the transit and mobility industry





















MOD On-Ramp Project Selection Process

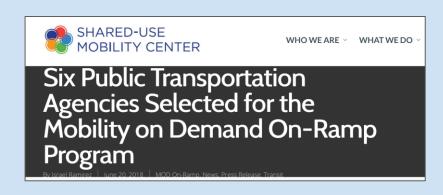
Call for applications and webinar

About 40 applications received

Independent reviewers group

Criteria-based project selection







Technical Assistance

Applied Research

Community of MOD agencies

Project-Building Strategies

Facilitate Partnership

Community Engagement

Plan Development

Identify Funding





You are invited to attend a COMMUNITY MEETING to learn more about a new BOXTOWN and WESTWOOD neighborhood PUBLIC TRANSIT project

Join the MATA team on Wednesday, November 14 at 1:30 AND 6 p.m. at the Charles Powell Community Center 810 Western Park Drive





Activities

Technical Assistance

Monthly calls

Webinars

On-Site Visits

Local Workshops

National MOD Workshops

Industry Events





Local Workshops











MOD National Workshops











Lessons Learned

Projects moving towards Implementation

Transit Agencies becoming Mobility Integrators

Innovative Partnerships

Integration of Technologies

Expanding Mobility Options



THANKS







MEMPHIS, TN



Memphis Area Transit Authority Mobility on Demand For First/Last Mile Solutions



June 30, 2020

<u>PARTNERSHIPS</u>

• The University of Memphis



Innovate Memphis



TransLoc (a Ford Mobility company)





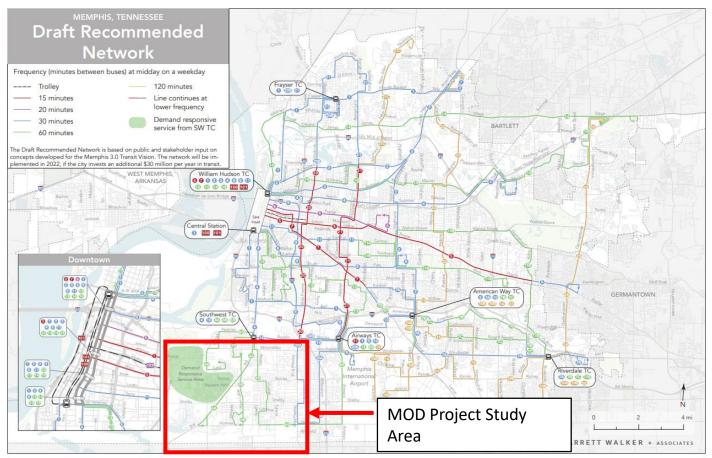
PREVIOUS ON-RAMP ACTIVITIES

Three Community Meetings to meet with community stakeholders and neighborhood residents:

- November 14, 2018 held at the Charles Powell Community Center
- July 25, 2019 held at Mt. Vernon Baptist Church
- August 22, 2019 held at Mitchell Community Center at the request of a community organization
- Completion of the Business Plan



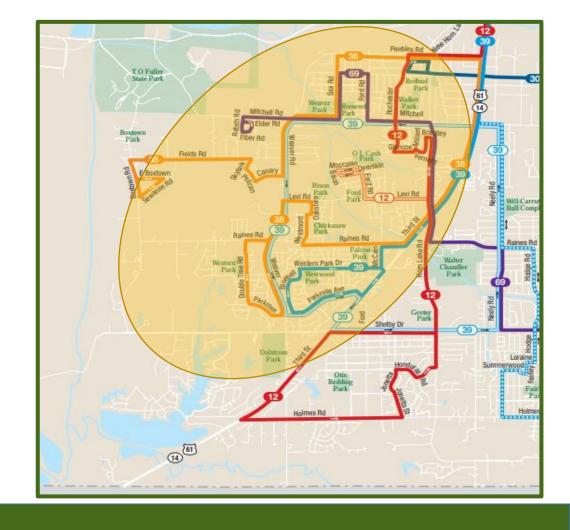
Memphis 3.0 Comprehensive Plan & Transit Vision





PROJECT OVERVIEW

- Implement a Mobility-on-Demand Pilot Project in the Boxtown/Westwood Neighborhood of Memphis, TN.
- The Boxtown/Westwood Neighborhood is served by Routes 38, 39, 12, and 69.
- Due to the population demographics and land use patterns, there is low ridership on route 38.
- The Transit Vision identified the Boxtown/Westwood community as an ideal location for Demand Responsive Transit.



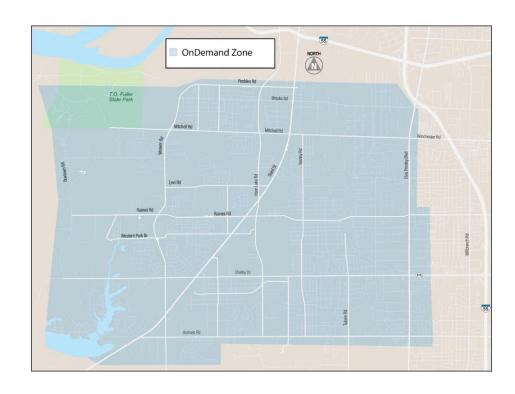


SERVICE SIMULATIONS AND BOUNDARY EXTENSION

Based on the results of the simulations that were performed by TransLoc, the original boundaries of the pilot project service area were expanded to include a larger area of southeast Memphis.

Many of the destinations or points of interest were located in the adjacent Whitehaven community.

By expanding the boundaries, we are better able to serve the needs of the community and improve first/last mile connections.





PROJECT GOALS

- Provide a new microtransit service that will supplement fixed-route service in the area.
- Provide an equitable, scalable and replicable model service.
- Improve mobility and access by providing first/last-mile connections to fixed-route bus service.

- Decrease average travel time.
- Encourage MATAplus customers to use Microtransit.
- Provide a complete trip.
- Improve accessibility and resident's quality of life.



PROJECT CHALLENGES

- 30% of the population is over the age of 64.
- 13.8% of the population is school-aged (5-17).
- Low-density land use patterns that are difficult to serve with fixed route transit.
- Limited access to smartphones with data plans.
- Long wait times with fixed-route service preclude many residents from using transit as a viable option to reach employment and other destinations.
- Educating & familiarizing residents with new technology and new service.
- Identifying key destinations and drop-off locations.
- Respond to numerous challenges due to COVID-19 pandemic.



LESSONS LEARNED

- Residents are highly concerned about receiving service even though the area has low demand and it is difficult to serve.
- Transit Vision and the route system redesign provided microtransit an opportunity to incorporate flexibility into the service while improving mobility and access for residents
- Moving forward required working with the community
- The Transit Vision redesign provided MATA the ability to connect with other partners and expand the pilot project to link with other projects such as the new fare system implementation, website redesign, BRT planning and design as well as other stakeholders such as the Downtown Memphis Commission and Memphis Medical Design Collaborative for a broader systemwide effort.



LESSONS LEARNED

- Ensure strategic communications with elected officials and the community.
- Engage internal staff early and obtain buy-in and ownership of the project.
- Plan for employee turnover and how to transition from planning to operations.
- Expect the unexpected COVID-19, which has created a new need for the technology and services offered by the microtransit pilot project.
- Utilize all your available resources FTA, SUMC, Peer Agencies, Vendors, and Consultants.



NEXT STEPS

- Continue Community Engagement.
- Acclimate and Train MATA operators, dispatch, and customer service staff.
- Order Vehicles & Equipment.
- Set up Call Center.
- Complete Naming, Marketing, and Branding.
- Interface TransLoc's Software with MATA's existing systems.
- Identify specific Launch Date for service to go live. Current Project Launch Date is late Fall 2020.



THANK YOU!

John Lancaster, Director of Planning and Scheduling jclancaster@matatransit.com

Tiena Gwin, Project Manager tgwin@matatransit.com







SAN FRANCISCO BAY AREA, CA





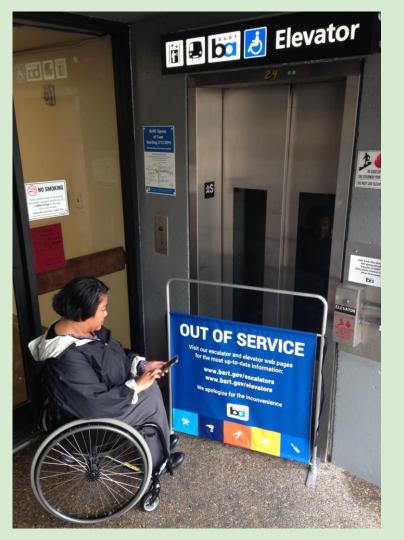


MOD On-Ramp Program: First/Last Mile Solutions

Lessons Learned June 30, 2020

BART's Project:

On-Demand Accessible Ride-Hailing



Original Project Motivation

When a BART elevator is out of service, wheelchair users are prevented from entering or exiting that station.

Currently it takes a long time to get a vehicle to assist this passenger.

On-ramp: use a staged vehicle to transport passengers to adjacent stations with working elevators.

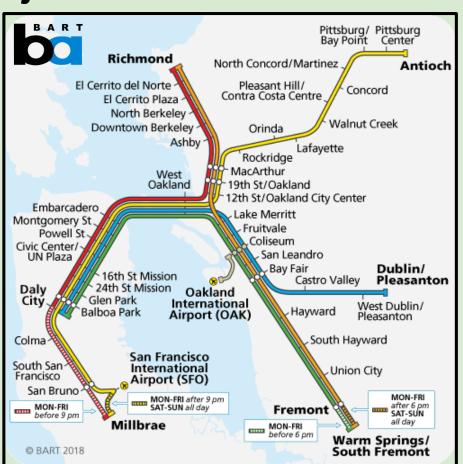
Project Objectives

Mission

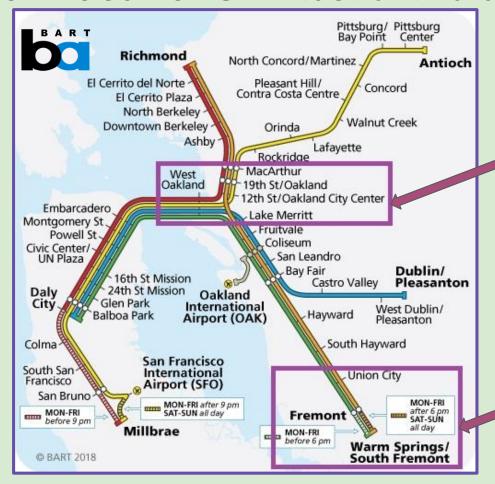
 Improve on-demand mobility options around transit hubs for people using wheelchairs.

Goals

- Offer an on-demand ride-hailing service with wheelchair accessible vehicles.
- Improve access to an existing public transportation network.
- Provide an accessible first and last mile alternative.



Pilot Locations: A test of two environments



Urban area

Downtown Oakland, with 5 BART stations in a high density city center.

Suburban area

City of Fremont, with nearby hospitals and limited transportation alternatives.

Initial Concept for On-Ramp Grant

- Give pre-qualified drivers access to staged wheelchair accessible vehicles (WAV) at BART stations to transport passengers with wheelchairs.
 - Non-dedicated WAVs removes specialized resources from those who need it.
- Increase fleet size of WAVs at transit hubs.
- For BART elevator mitigation trips only.
- Operated by pre-qualified TNC drivers.

Evolution of Project

- Public process of the On-Ramp grant began to change and improve initial concept.
 - In-person meetings
 - Workshops
 - Conversations with stakeholders
 - Project Feasibilities

Pilot Elements

Riders: Only for wheelchair users and for short, on-demand trips.

Where: To or from transit hubs, hospitals, and city-run service programs.

<u>Drivers</u>: Pre-qualified drivers trained to transport passengers with wheelchairs.

<u>Vehicles</u>: Wheelchair accessible vehicles staged near transit hubs. Drivers granted access upon trip request.

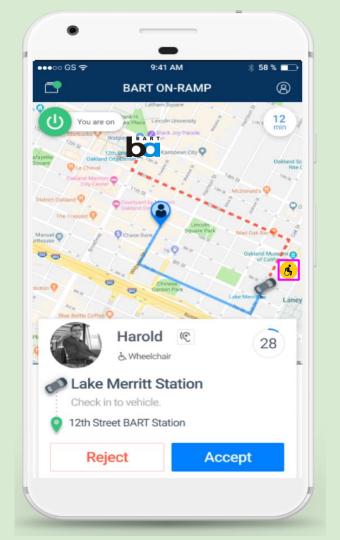
App: An app that pairs riders, drivers and vehicles all together.



Project partners discussing logistics

Sample Trip - Driver View

- Trip request goes out to nearby prequalified drivers.
- Driver () accepts ride request.
- Driver picks up shared-use wheelchair accessible vehicle () staged near a transit hub.
- Driver picks up passenger (
- Driver transports passenger to adjacent BART station (b).

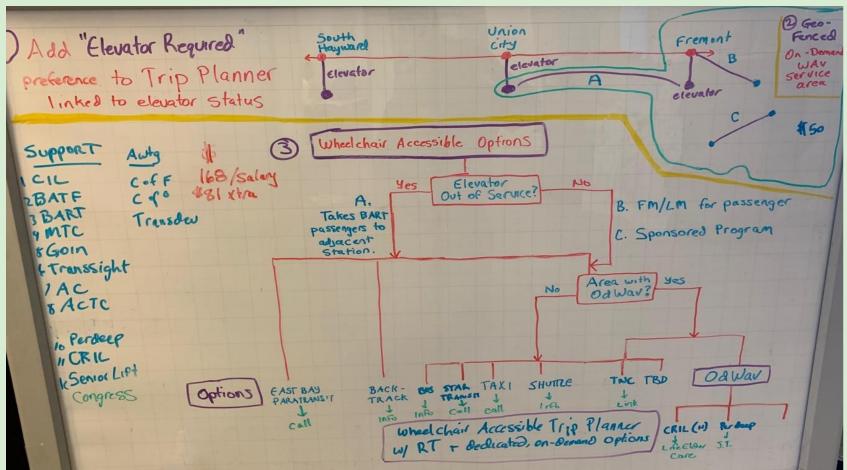


Key Partners

- Cities of Oakland and Fremont
- East Bay Paratransit, a paratransit broker
- Metropolitan Transportation Commission, a regional MPO
- Community Resources for Independent Living (CRIL)
- Goin, a software developer
- Driver organizations
- BART Accessibility Task Force



Draft Flowchart



Value of On-Ramp Process

Initial concept has been constant: provide on-demand rides for people who use wheelchairs. But implementation tactics have changed.

	Initial Thought	Updated Proposal
Drivers	TNC Drivers	Known Pool of Drivers
Vehicles	BART-managed	Added other interested parties
Trip Purpose	BART elevator mitigation trip only	Anyone with a wheelchair
Use Case	Between 2 BART stations	Anywhere in geofenced area
Ride option	Staged vehicle only	Comparison of all options available

Upcoming Work

- Create app to provide all options available.
 - Scalable
 - Easy to add new alternatives
- Look for funding to pilot this concept.
 - Grant applications

- Lessons learned
 - Listen to people to help develop initial concept
 - Engage the public, partners and future users



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MARYLAND TRANSIT ADMINISTRATION

BALTIMORE, MD





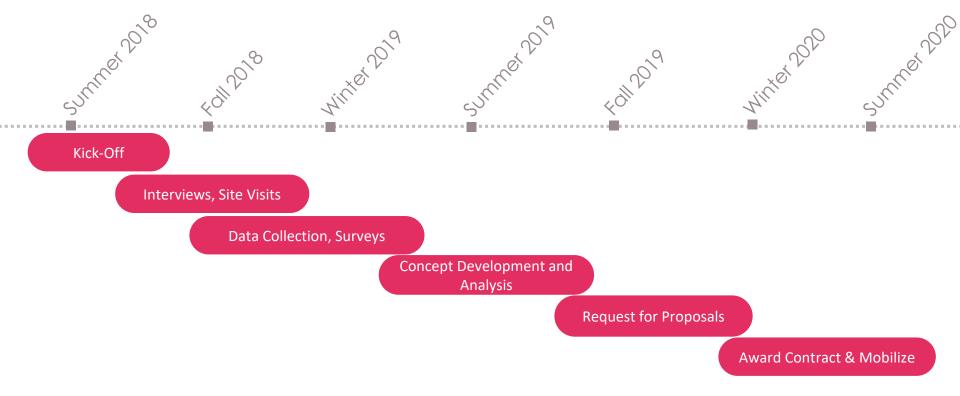
Access to Opportunity Microtransit Project

June 30, 2020

Lessons Learned from the MOD On-Ramp Program



Project Overview



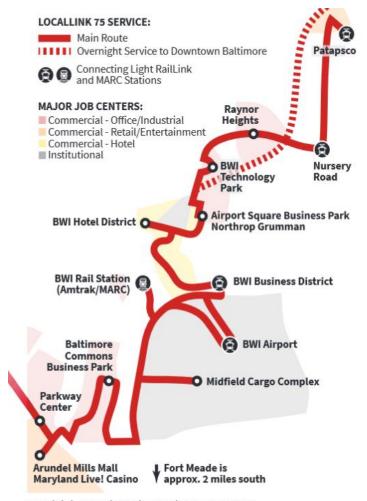
MOD On-Ramp

- 2018 Applied for On-Ramp
 - Previous studies, stakeholder engagement, data
 - Strong case for third shift workers, persistent need
- Identified opportunities with LocalLink 75.

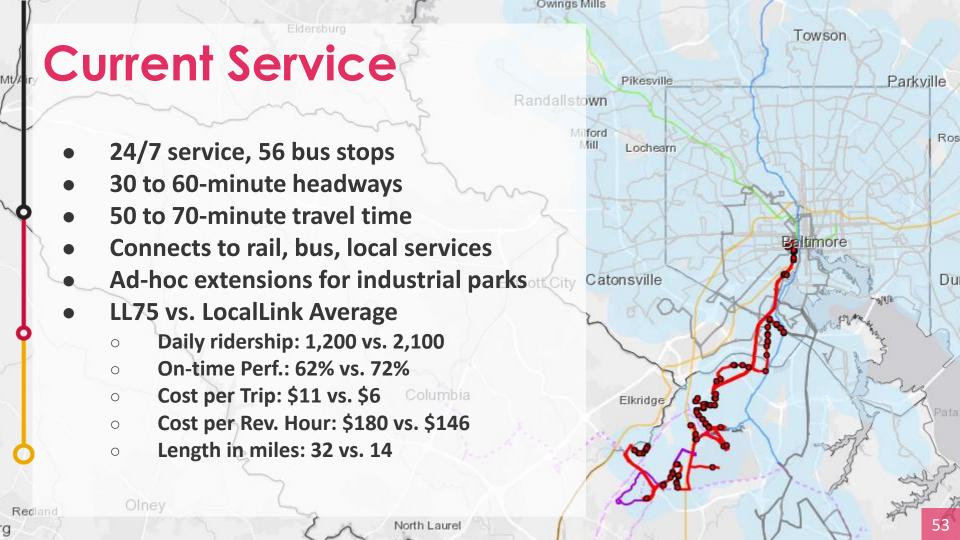








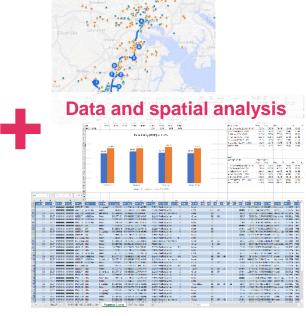
LocalLink 75 and nearby employment centers.



Problem Identification







Problems Identified

Rapid Suburban Development

- Employment centers oriented away from existing transit
- On-time performance and frequency falling with each new segment added

 Maintenance Facility





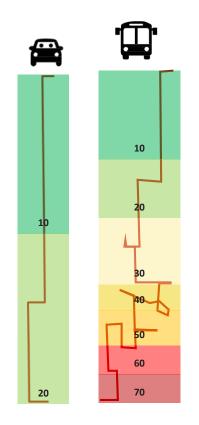




Problems Identified

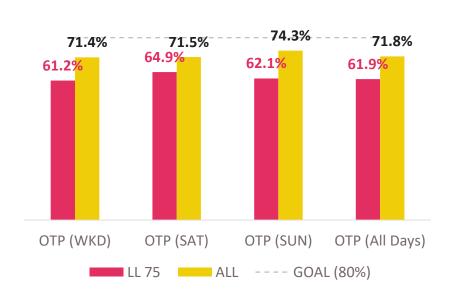
Transit Travel Time vs. Driving

- Expect commute by bus to take about 1.7x longer than driving.
- On LL75, taking the bus is 3.2x longer than driving
 - 1.6x longer from Patapsco to the airport (northern half)
 - 2.6x longer from the airport to the mall/casino (southern half)

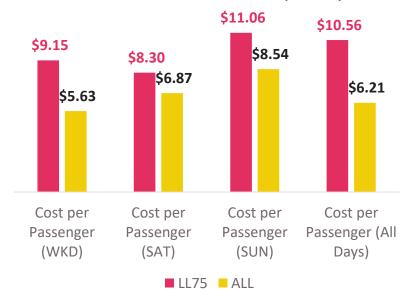


Problems Identified

LL75 has below average ontime performance (2018)



LL75 costs more per passenger than other LocalLinks (2018)



Entrance

Problems Identified

MTA Light Rail

More learned from surveys

- Total of 310 complete responses
- 70% transfer more than once, 32% transfer twice to complete their trip
- 93% walk to/from the bus stop.
 - "long, lonely walk" around/across parking lots, near busy traffic, etc.

Desire Line

- 74% pay cash, 14% pay cash for one-way fare
- Few riders have data plans, and fewer use credit cards or mobile payment apps
- Fewer than 25% use Uber or Lyft

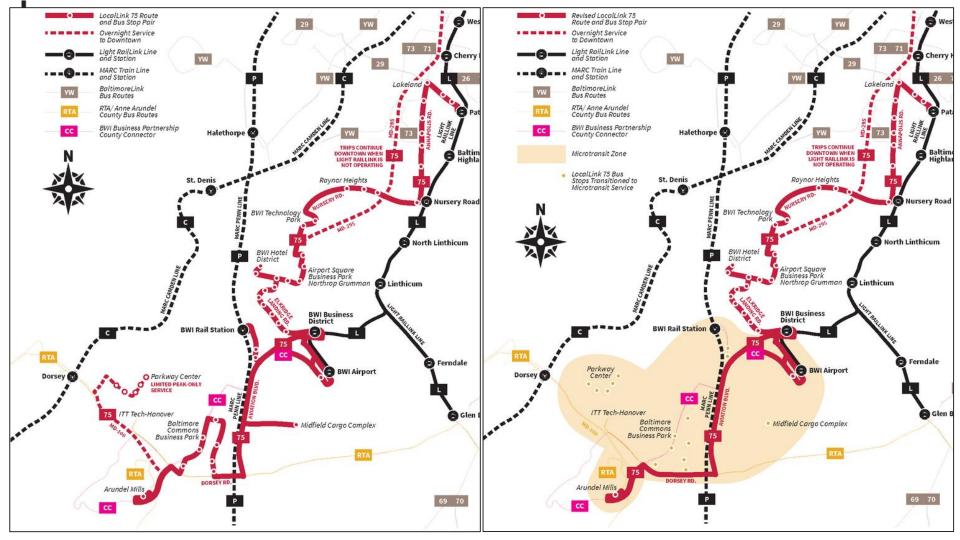
Start

Proposed Solution

Why: Improve the reliability, flexibility, and overall quality of service for existing riders and potential new riders.

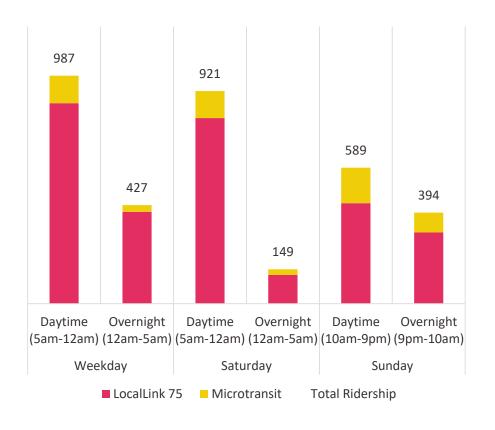
How: Leverage available technology, vehicles, and service models to enable on-demand, right-sized, flexible service.

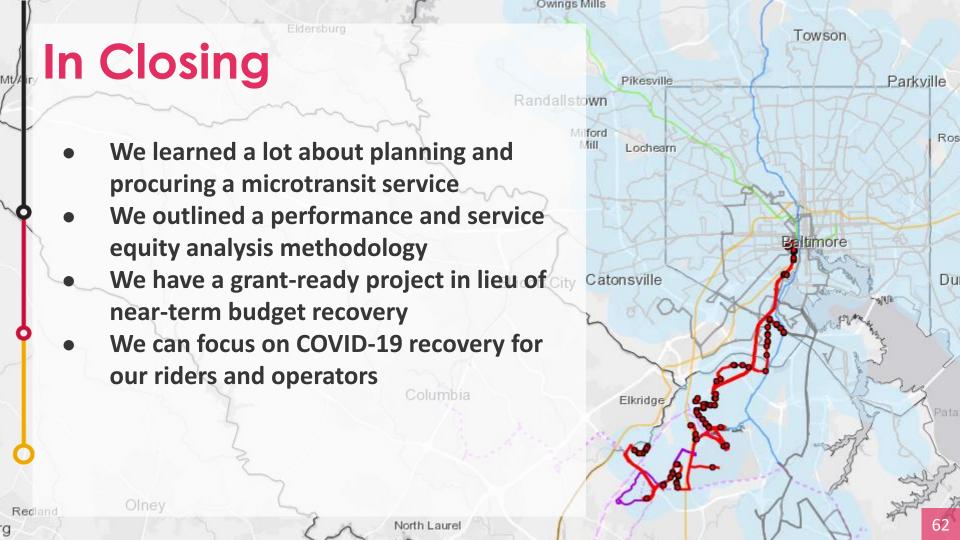




Impact on Riders

- LL75 riders will experience
 - higher on-time performance
 - shorter travel time
- Riders on microtransit will experience
 - shorter wait time and travel time
 - additional transfer for some
- LL75 improvements may attract new riders to core service





Thank you!



MARYLAND TRANSIT ADMINISTRATION

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