Link TRANSIT

Link Transit System Public Transit Advisory Commission (PTAC) Tuesday, November 12, 2024 @ 5:00 P.M.

Meeting to be Held in Person or Virtually on Zoom Platform

425 S. Lexington Ave, Burlington, NC 27215 @ Municipal Conference Room (Lower Level) OR https://us02web.zoom.us/j/87499407855 OR (309) 205-3325

Meeting ID: 874 9940 7855

Passcode: 760393

AGENDA

1)	Call to Order	V	Vice Chairman		
	• Changes to	Agenda / Add On Items			
	• Speakers fr	rom the Floor – three (3) minutes	per speaker		
2)	Introduction	of New Members from Burling	ton and Mebane	John Andoh	
3)	Election of a l	New Chair		John Andoh	
4)	Presentation of	of a Plaque to Mike Mills		John Andoh	
5)	Approval of t	he July 2024 Meeting Minutes	Pages 2-3	Chairman	
6)	Link Transit	System Update		John Andoh	
	• Update on	Transit Development Plan & Tra	nsit Facility Study		
	• Update on	Status of Transit System Activiti	es		
	o Me	bane Extension	Pages 4-5		
	o Pas	senger Amenities Update	Pages 6-21		
	o Me	dicaid Transportation			
		e Rides on Election Day	Page 22		
		DOT Unified Grant Program	Page 23		
		n University	Page 24		
		AC Member Directory	Sent under separate cover		
	o Um		Pages 25-33		
	• Update on	Transit Operations from Transde	v Pages 34-25		
8)	<u>Link Transit</u>	Operations Report		John Andoh	
	• Fixed Rout	te & Paratransit Ridership Update	e through October $2024 = Page 3$	6	
9)	Other Busine	ess		Chairman	
	• Other Item	s of Interest and Upcoming Even	ts		
	• Reports &	Questions from PTAC Members			
	• Agenda To	ppics for Next Meeting			
Ne	xt Meeting Sch	neduled for: Tuesday, January	14, 2025.		
	<u>ACCESS TO</u>	INFORMATION: ALL DOCU	MENTS AND DATA CAN BE P	ROVIDED IN	

ALTERNATIVE FORMAT UPON REQUEST

It is the policy of the Link Transit System to ensure that no person shall, on the ground of race, color, sex, age, national origin, or disability, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity as provided by Title VI of the Civil Rights Act of 1964, the Civil Rights Restoration Act of 1987, and any other related non-discrimination Civil Rights laws and authorities.

MINUTES

LINK TRANSIT PUBLIC TRANSIT ADVISORY COMMISSION Tuesday, July 9, 2024 5:00 P.M.

Meeting held via Zoom and at 425 S. Lexington Avenue, Burlington, NC 27215 in the Municipal Conference Room (Lower Level)

MEMBERS PRESENT

Mike Mills, Burlington (Chair) Moses Corbett, Burlington (Secretary) Ralph Harwood, Elon Roger Meisenbach, Burlington Brian Doward, ACC Steve Carter, Alamance County Bonita Brown, Burlington (Vice Chair) John Mathewson, Burlington

OTHERS PRESENT

John Andoh, Transit Manager Dana Bullock, Transdev Richard Ticehurst, Transdev Wannetta Mallette, BGMPO Jacob Campbell, Transdev Peter Murphy, ACTA

MEMBERS ABSENT

Joyce Harris, Gibsonville Melissa McBane, Elon Blake Slaughter, Burlington Chief Armstrong, ACC

2) Link Transit System Update

John Andoh

- Review Link Transit Annual Report (provided at meeting)
- Update on Regional Transit Study visit https://bgmpo.org/Projects-Plans/MPO-
- Plans/BGMPO-Regional-Transit-Feasibility-Study
- Update on Transit Development Plan
- Conflict of Interest Statements for NCDOT grant
- Adopted Budget for FY 2024-2025
- Update on Status of Transit System Activities
- o Bus Replacements Gillig and Promaster Bus on Display
- o Service Planning Mebane Extension and ACTA's Southern Alamance Route
- o DBE Consultation Meeting and DBE Goal
- o Link's 8th Anniversary
- o Elon Farmers Market
- o Elon University
- Update on Transit Operations from Transdev

Call to Order

Chair Mills called the meeting to order at 5:05 PM and welcomed all members and guests.

Chair Mills solicited public comments from the floor and requested comments to be limited to three (3) minutes per speaker. No public comments. The meeting agenda was reviewed. No changes were made to the agenda.

Approval of the May 2024 Meeting Minutes

The May 2024 meeting minutes were reviewed. Mr. Corbett made a motion to approve the meeting minutes. Mr. Carter seconded the motion. All PTAC members voted in approval of the May 2024 meeting minutes.

Link Transit/System Update

Mr. Andoh provided the following updates and explanations regarding Link Transit on the topics below:

- Link Transit Annual Report. Mr. Andoh provided the Commissioners a copy of the annual report and explained Link's progress since 2021.
- Update on Regional Transit Study
- Update on Transit Development Plan
- Conflict of Interest Statements for NCDOT Grant
- Adopted Budget for FY 2024-2025
- Bus Replacements Gillig and Promaster Bus on Display. The Commissioners went outside to view the new buses and Mr. Andoh gave an explanation on these new vehicles. Those on the phone were able to see the buses as well.
- Service Planning Mebane Extension and ACTA's Southern Alamance Route
- DBE Consultation Meeting and DBE Goal
- Link's 8th Anniversary
- Elon Farmers Market; and
- Elon University.

The Commissioners had a discussion and asked questions about the topics discussed.

Mr. Ticehurst gave an update on Transdev activities. Mr. Andoh introduced Mr. Campbell, the new maintenance manager for Transdev.

Link Transit Operations Report

Mr. Andoh presented the ridership update through June 2024 and discussed the performance of each route.

Other Business

There was none.

<u>Adjournment</u>

Chairman Mills asked for a motion for adjournment. Mr. Mathewson made a motion to adjourn the meeting and Mr. Meisenbach seconded the motion. All PTAC members voted in approval. Chairman Mills adjourned the PTAC meeting at 5:50 P.M.







RED 1	ORANGE 2	BLUE 3	GREEN 4	PURPLE 5
OUTBOUND INBOUND	OUTBOUND INBOUND	OUTBOUND INBOUND	OUTBOUND INBOUND	OUTBOUND INBOUND
 Downtown Worth @ Weebb Sts. Tucker Street Apartments Holly Hill Mall Alamance Crossing Arret Alamance Regional Medical Center Regional Medical Center Regional Medical Center Regional Medical Center Alamance Crossing Molly Hill Mall Tucker Street Bowntown Worth @ Worth Street 	Veebb Sts. Veebb Sts. ACC- Dillingham Center ACC- Dillingham Center Afrees Graham Park & Ride Lot Community College Community College Community College Community College Community College Community College Community College Community College Graham Park & Ride Lot Alamance Community College Graham Park & Ride Lot Alamance Community College Community College Community College Community College Community College Busing Conter Dillingham Center Dillingham Center Dillingham Center	Webb Sts. Webb Sts. ALDI Grocery ALDI Grocery ALDI Grocery Webb Sts ALDI Grocery Webb Sts ALDI Grocery Webgard W. Haggard W. Haggard M. Holt Harper Senior Center DEPART: Gibsonville/ Harper Senior Center DePART: Gibsonville/ Burlington Worth @	 Downtown Burlington Worth @ Glen Raven Lakeside Apartments (Elm St/Tillman St) Pate Homes (Lundsford Dr/Sharpe Rd) Rauhut St / 	 Downtown Burlington Worth @ Webb Sts. James St/Harris St Walmart Health Dept/ Social Services Crump Village Arrive: North Park Library DePART: North Park Health Dept/ Social Services Arross from Walmart James St/Harris St Downtown Webb Sts.
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Red 1 and Orange 2 connect with PART Route 4 at timepoints show Orange 2 connects with GoTriangle ODX route and Orange County F Visit gotriangle.org or call 919.485.RIDE or visit orangecountync.go	vn in RED . Visit partnc.org or call 336.883.7278 for details. Public Transit at Mebane Cone Health Park and Ride Lot. ov/3117/Public-Transit or call 919.245.2008 for more details.	8:05 8:15 8:23 8:30 8:37 8:50 9:01 9:09 9:15 9:23 9:31 9:36 Bold times indicate PM.	8:05 8:23 8:30 8:40 8:43 8:46 8:50 8:57 9:04 9:24	8:05 8:20 8:24 8:31 8:39 8:43 8:50 9:01 9:08 9:11 9:26

ROUTE DESTINATIONS:

Page 5

GO

PART

0

Mebane

To Mebane →

40

Ora

Walmart Supercenter

Red Route 1: Tucker Street Apartments, Holly Hill Mall, Alamance Crossing, Alamance Regional Medical Center (ARMC)

Orange Route 2: Salvation Army, ACC – Dillingham Center, Alamance County Offices, Park & Ride Lot, Alamance Community College (ACC), Mebane

Blue Route 3: ALDI Grocery, Holly Hill Mall, Westbrook Food Lion, Elon, Gibsonville/Harper Senior Center

Green Route 4: Glen Raven, Lakeside Apartments, Pate Homes, Rauhut Street & Westmoreland Drive, North Park Library

Purple Route 5: N Mebane Street & Queen Ann Street, Walmart, Health Dept/Social Services, Crump Village, North Park Library

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Passenger Amenities August 2024 Page 6



#112 Worth St/ Downtown Burlington

Link TRANSIT









LINK TRANSIT



#132/#168 Sharpe Rd / N Park Library







Link TRANSIT





LINK TRANSIT

Link-TRANSIT

#100 Westmoreland Drive / Rauhut St

#129 Sharpe Rd / Rauhut St







#224 International St / Ann Elizabeth Dr







#395 – Williamson Dr @ Church St

#121 – Elm St @ Spence St

104 Elm St @ Chestnut St





#377 Alamance Community College

Link TRANS

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#250 Lily Pads at Elm and Graham Courthouse

Coming Soon:

- #255 Lily Pad at Elm and across from Graham Courthouse
- #160/#137: Sellers Mill Road at Church Street
- Tucker Street @ Center Court

Passenger Amenities Not Owned By City of Burlington



#248 ACC – Dillingham Campus

PARK & RU #141 Graham Park and Ride

LINK TRANSIT

#190 Alamance Regional Medical Center / Park & Ride lot







Free Rides ON Link Transit

– TUESDAY – November 5



Link TRANSIT

REVISED

PUBLIC HEARING NOTICE – Burlington, NC

Section 5311 (ADTAP), 5310, <mark>月390日</mark>301 applicable State funding, or combination thereof.

This is to inform the public that a public hearing will be held on the proposed <u>FY 2026</u> Program Application to be submitted to the North Carolina Department of Transportation no later than <u>October 4, 2024</u>. The public hearing will be held during the <u>Tuesday</u>, <u>September 17, 2024</u>, Burlington City Council Meeting beginning at <u>7:00 p.m</u>.

Those interested in attending the public hearing and needing either auxiliary aids and services under the Americans with Disabilities Act (ADA) or a language translator should contact <u>John Andoh</u> on or before <u>Friday</u>, <u>September 13, 2024 at 5:00 p.m. Eastern Daylight Time</u>, at telephone number (336) 222-7351 or via email at <u>jandoh@burlingtonnc.gov</u>

The requested funding provides assistance to coordinate existing transportation programs operating in **the City limits of Burlington which is a part of** <u>the Burlington-Graham Urbanized Area</u> as well as provides transportation options and services for the communities within this service area. These services are currently provided using <u>light transit vehicles (LTV)</u>. Services are rendered by <u>a contracted transit service provider</u>.

The total estimated amount requested for the period <u>July 1, 2025 to June</u> 30, 2026.

Project	Total Amount	Local Share
Administrative	\$0.00	\$0.00 (0%)
Operating (5311)	\$0.00	\$0.00 (0%)
Capital (Vehicles & Other)	\$596,888	\$59,689 (10%)
5310 Operating	\$485,256	\$242,648 (20%)
Other Urban Advanced Technology	\$100,000	\$20,000 (20%)
TOTAL PROJECT	\$1,182,144	\$319,337

Total Funding Request Total Local Share \$1,182,144 \$319,337

NOTE: Local share amount is subject to State funding availability.

This application may be inspected at <u>www.linktransit.org 24 hours a day.</u> Written comments should be directed to <u>John Andoh, Transit Manager</u> @ jandoh@burlingtonnc.gov or by calling (336) 222-7351 before Friday, September 13, 2024 at 5:00 p.m., Eastern Daylight Time.

> Beverly D. Smith, NCCMC City Clerk

Publication Date: October 31, 2024

LinktransIt ride • enjoy • connect

Are You A Student, Employee Or Faculty Member Of Elon University?



If so, your ride on Link Transit is now FREE by showing your ID card to the bus driver!

🕞 🕑 🗿 @LinkTransitNC linktransit.org 336.222.LINK (5465)

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1. Corporate Overview

Headquartered in San Diego, California, Cubic is proud to be recognized as the world's leading turn-key solution provider of AFC systems for public transportation, including bus, bus rapid transit, light rail, commuter rail, heavy rail, ferry, and parking.

Since 1951, transportation agencies and municipal partners worldwide have relied on Cubic to deploy transportation technologies that enhance the quality of life in cities and towns. Now a global technology and services company, Cubic operates with a local focus, employing over 3,000 dedicated people across North America and in international offices in Canada, Australia, New Zealand, India, the United Kingdom, and Germany.

Cubic delivers integrated payment and transaction processing systems that lead to the creation of safe, reliable, and convenient transportation services. Our payment systems also play a vital role in our customers' marketing strategies because they provide the most visible interface between the rider and the transportation system. Building a dense traveller base is the goal of every transportation agency to help make operations more profitable and to maintain public support for continued expansion and accessibility.

Chicago ChicagoCard™	Chicago	2014	London Future Ticketing Agreement Chicago Google/iPay Acceptance	VISA \cdots 🔛
London Oyster [®] City of Edmonton (NextFare)	Cyster	2015	Vancouver Compass Card Chicago Ventra App	
BART EZ Rider	6	2016	So. Florida - EASY® Pay App	
Minneapolis Go To Card		2017	New York New Fare Payment System Boston Fare Collection System and Services	
MARTA Breeze™ RMV/KVV Mobile Ticketing	bregge war	2018	Brisbane Next Generation Ticketing System LA Metro Mobile SF Bay Area Next Generation Fare Payment System and Services	
PATH SmartLink ^{sse} PATCO FREEDOM® Card		2019	NTA Mobile Ticketing System	
Los AngelesTAP [®] Brisbane go card BART NFC Pilot		2020	LA Metro – LA Tap on Apple Pay WMATA – Smart Trip on Apple Pay	
San Diego Compass Card Miami EASY™ Card Modena, Italy	EASY CONTRACT	-	Umo Launch LA Metro – LA Tap on Google Pay	
MTA CharmCard™ MTC Clipper [≪] Card Skåne, So. Sweden		2021	Chicago - Ventra on Google Pay WMATA - Smart Trip on Google Pay NY MTA - OMNY on Apple & Google Pay	
So. Florida - EASY [®] Card PATCO Open Payment Pilot Google Wallet Acceptance		2022	NTA Leap Operations	
Sydney Opal Card		2023	New Zealand Waka Kotahi National Ticketing Solution	
Chicago Ventra Card NextBus Acquisition Google Wallet Acceptance	Bulua%	2024	Metro Transit Minneapolis Go-To Contactless Fare System upgrade	Tetro Transit
	London Oyster ⁴⁶ City of Edmonton (NextFare) BART EZ Rider Minneapolis Go To Card MARTA Breeze ⁷⁴⁴ RMV/KVV Mobile Ticketing PATH SmartLink ⁵⁴⁴ PATCO FREEDOM ⁴⁶ Card Los AngelesTAP ⁴⁷⁶ Brisbane go card BART NFC Pilot San Diego Compass Card Miami EASY ⁴⁶ Card San Diego Compass Card Miami EASY ⁴⁷⁶ Card Modena, Italy MTA CharmCard ⁷¹⁴⁴ MTC Clipper ⁴⁷⁶ Card Skåne, So. Sweden So. Florida - EASY ⁴⁷⁶ Card PATCO Open Payment Pilot Google Wallet Acceptance Sydney Opal Card Chicago Ventra Card NextBus Acquisition	Chicago ChicagoCard ** Image: ChicagoCard ** London Oyster* Image: ChicagoCard ** EART EZ Rider Image: Chicago Card BART EZ Rider Image: Chicago Card Minneapolis Go To Card Image: Chicago Card MARTA Breeze ** Image: Chicago Card MARTA Breeze ** Image: Chicago Card PATH SmartLink** Image: Chicago Card PATH SmartLink** Image: Chicago Card Los AngelesTAP* Image: Chicago Card BART NFC Pilot Image: Card San Diego Compass Card Image: Card Miam EAS** Card Image: Card San Diego Compass Card Image: Card Miam EAS*** Card Image: Card San Diego Compass Card Image: Card Miam EAS*** Card Image: Card Swance, So. Sweden Image: Card So. Florida - EAS*** Card Image: Card Sydney Opal Card Image: Card Sydney Opal Card Image: Card Chicago Ventra Card Image: Card Sydney Opal Card Image: Card Chicago Ventra Card Image: Card Chicago Ventra Card	Chicago ChicagoCard** 2014 London Oyster* 2015 City of Edmonton (NextFare) 2016 BART EZ Rider 2016 Minneapolis Go To Card 2017 MARTA Breeze** 2018 PATH SmartLink** 2018 PATH SmartLink** 2019 Los AngelesTAP* 2019 Bisbane go card 2020 San Diego Compass Card 2020 Mart CharmCard** 2020 San Diego Compass Card 2020 Mart CharmCard** 2020 Sour Diego Compass Card 2020 Sus Diego Compass Card 2021 Sus Diego Compass Card 2021 Sus Diego Compass Card 2022 Sus Piorida - EAS	Chicago Chicago Chicago Card 2014 Chicago Google/I/Pay Acceptance London Oyster ⁴⁴ City of Edmonton (NextFare) 2015 Vancouver Compass Card Chicago Ventra App BART EZ Rider Image State 2016 So. Florida - EASY* Pay App Minneapolis Go To Card Image State 2017 New York New Fare Payment System Boston Fare Collection System and Services MARTA Breeze*** RMV/KVV Mobile Ticketing Image State 2018 So. Florida - EASY* Pay App 2017 New York New Fare Payment System Boston Fare Collection System and Services 2018 So. Florida - EASY* Pay App 2018 Staten Next Generation Ticketing System RMV/KVV Mobile Ticketing System 2018 So. Florida - SP apy Area Next Generation Ticketing System KVB Mobile Ticketing System 2019 NTA Mobile Ticketing System KVB Mobile Ticketing System KVB Mobile Ticketing System 2020 MARTA - Smart Trip on Apple Pay Chicago - Ventra on Apple Pay 2018 San Diego Compass Card Mismi EASY* Card Miami EASY* Card Mixmi EASY* Card Mixmi EASY* Card PATCO Open Payment Pilot Google Wallet Acceptance Image State St

Figure 1: With over 50 years of demonstrated innovation, Cubic will enable your transit agency to be a next-generation technology leader among peers.



With a focus on innovation and Research and development (R&D), Cubic strives to ensure its agency partners remain at the forefront of transit management. Every year, through over 400 delivered projects in 40 major markets on five continents:

- > Customers make over 8 billion rides worldwide using Cubic payment systems.
- > CubicPay processes over 24 billion transactions.
- > Cubic collects over \$20 billion in fare revenue on behalf of our agencies.

Cubic's mission is to improve quality of life by optimizing mobility through the intelligent application of technology. Our team of over 3,000 employees has implemented and supports North America's most extensive full-featured account-based fare programs. You may recognize some of Cubic's larger implementations, such as Chicago Transit Authority (CTA) Ventra, Bay Area Rapid Transit (BART) Clipper, Transportation for London (TfL) Oyster, and New York MTA OMNY, to name a few. We have successfully partnered with agencies of various sizes to understand their fare collection challenges and to help them overcome these difficulties.



Figure 2: You can rely on Cubic to deliver services in cohort with the world's largest transit agencies

1.1. Umo Overview

Leveraging our global experience designing and implementing fare collection solutions for some of the world's largest and most complex transit systems, Cubic designed and developed Umo, a flexible and configurable fare engine.

Since 2016, Umo has been selected by over seventy agencies, making it an industry-leading solution and one of North America's most popular and most implemented account-based fare payment solutions. The Umo solution allows transit agencies to continuously evolve their fare collection systems to meet their communities' fast-changing mobility needs. Umo makes traveling convenient for riders by providing the convenience of contactless transit payments with smart cards, credit/debit cards, and an intuitive mobile application that includes multi-ride tickets and pass products that are securely validated using still and dynamic QR code technology.

Cubic is investing significantly in Umo's continuous evolution by leveraging the company's breadth of technical solutions, industry relationships, and long-term financial stability.

By creating a multi-tenant, cloud-based platform, Cubic makes account-based fare collection available to all agencies, not just those with tens (or even hundreds) of millions of dollars. That means that agencies– can now afford an actual, account-based fare collection employing all popular forms of electronic fare media (contactless smart cards, barcode single-ride tickets, and mobile) and supporting all fare policies (including passes, transfers, and fare capping).

Account Based - Elevate your riders' experience with automatic best fares and intuitive fare capping, while simplifying support for riders.

Rich Mobile App - Customers get one app for all their transit needs including journey planning, bus tracking and arrival times, as well as fare purchases.

SaaS Service - Agencies always receive the latest software features and functions as Umo is automatically upgraded with new enhancements.

Room to Grow - Umo includes support to expand transit offerings, MaaS services, and even creating transit regions with powerful features included in our base solution.

Institutional Programs - Create custom programs for students, corporate partners, and social services, giving partners the tools to be successful including options for self-sufficiency.

Figure 3: From Day 1, Umo gives agencies immediate improvements to both agency and rider user experience while giving agencies the tools they need to be successful now and in the future.





Figure 4: Umo provides transit agencies with a reliable solution: field-proven by over 70 agencies across North America, it is turnkey and can be deployed in as little as ten days.

Across the 70+ North American agencies that use Umo as their automated fare payment solution, all have enhanced their fare collection programs through a wide range of benefits, including:

- Reducing Cash Collection. Cash slows boarding times, requires significant overhead to protect and process, and utilizes expensive equipment to deploy and maintain. Reducing cash improves almost every aspect of an agency's transit system. Umo's 60-80% adoption rates have proven to significantly reduce onboard cash payments while preserving equity with offboard cash digitization solutions. The powerful combination of adoption and offboard cash acceptance has allowed a few Umo agencies to go completely cashless on their fleets.
- Driving Engagement. Engaging transit often comes with tiny bits of friction "Can I get there?" "Where's the bus?" and "How will I pay?" are questions that can give users pause. Umo offers riders a modern mobile app to answer all those questions, supported by expanded payment options, including credit and debit cards, transit cards, and temporary paper passes. It also rewards account holders with automatic benefits like fare capping. In sum, Umo grows ridership with a proven combination that improves transit for existing riders and entices new riders to try transit.
- <u>Receiving Rich Analytical Data.</u> Making informed policy decisions requires rich data. Umo's data includes real-time sales and boarding data correlated by route and stop. The data is

accessible to agency users via at-a-glance Key Performance Indicators (KPIs) on the dashboard, standard report templates for frequently requested data, and a fully customizable drag-and-drop report builder to get deep, precise insights into transit operations. Our boarding data by route and stop is fully automated, combining our GPS coordinates with the GTFS data feeds from the CAD/AVL solution to create route and stop-level metrics.

Making Instant Changes. Agencies can easily update fare policies or business rules using Umo. Ongoing support by Umo Implementation & Customer Solutions Partners (Partners) is included with the subscription, meaning your Partner will update policies at no charge. Agencies will have access to our complete back office, including a robust fare policy and fare product catalog. Any changes needed can be made in real time and become effective immediately across the system or scheduled in advance.

2. Umo Solution

2.1. ScanRide: "Bring Your Own Validator" for Your Riders

Umo's ScanRide feature provides agencies with all the benefits of automated validation without hardware validators. A disruptive concept, ScanRide turns validation on its head - the customer's phone becomes the validator, requiring the agency to deploy only a unique QR code decal on each bus for customers to scan. The result is an innovative electronic validation solution that allows agencies to collect valuable real-time data, such as boardings and their correlation to routes and stops, without the added cost and complexity associated with hardware validators.

As Umo's newest account-based automatic fare collection (AFC) feature, ScanRide requires no onboard hardware while preserving the benefits of AFC for all participants. Agencies can offer their riders stored value, fare capping, automatic best fares, remote and real-time support – everything associated with modern account-based solutions – without validation hardware or any limitations associated with typical visual validation solutions.

Umo's ScanRide feature leverages the rider's phone as the validation device using an industry-proven QR code payment schema widely deployed in South American, Asian, and European markets. With ScanRide, every vehicle receives a unique Umo-supplied QR code that identifies it in the back office. Customers use the Umo App to scan the QR code and validate their fare when boarding. It's simple, effective, and field-proven. Most importantly, it preserves the benefits of an account-based automated fare collection solution for every stakeholder. As a unique benefit, agencies have the same real-time data-rich dashboards as conventional validator-equipped Umo cities. Additionally, the environmental impacts of leveraging paper tickets as the primary form of validation would be significantly reduced.

Through ScanRide, fare payments are made by the rider and enforced by the back office. Operators keep their distance – never handling a customer's phone or squinting to read the details of a pass. Operators do not need to verify credentials for special fare classes; they can trust the system to enforce all fare classes automatically. As riders board the bus, the only responsibility of operators is to either visually recognize the approved boarding screen or the unique tone emitted by the phone to determine whether a rider is authorized to board.

Most importantly, agencies will attain all the benefits of a complete account-based AFC solution without the capital costs associated with hardware or installation. Riders benefit from a rich transit experience, while agencies benefit from real-time sales and ridership data and the ability to execute changes in real-time – create passes, change fares, support customers, and issue ridership credits, etc. – and know Umo's centrally managed solution implements them immediately.



How it Works: Umo App with Visual Validation: The agency will place a QR code near the bus entrance. The QR code is unique to the bus and acts as an identifier to the back office. Riders boarding the bus would open the mobile app, select "Scan," and use the app to scan the QR code. The system automatically calculates the correct fare or valid pass types based on the bus, checks the rider's account for stored value or passes, applies the best fare (fare capping, passes, and finally stored value), and returns the result as a validation message (approved, denied, etc.) both shown on the screen and played via an audible tone for the operator. The rider is then cleared to board. In the back office, Umo automatically combines the rider's location (GPS coordinates required by the Umo App) and the agency's GTFS feed to record the boarding and fare payment by route and stop. The result is that even with visual validation, riders enjoy benefits like fare capping and best fares while equipping agencies with rich real-time informative data on transit utilization, revenue, and ridership.

A video further outlining ScanRide's copiabilities and customer experience can be found <u>here: Click</u> <u>Here</u>.



Figure 5: Riders use the Umo App to scan a QR code on the bus or station platform.



Figure 6: A rider can show "proof of purchase" for operators to visually/audibly validate that a rider has paid their fare.



Figure 7: Riders get access to the full benefits of the Umo Mobility Platform – including fare capping.

2.2. Hardware (Optional)

2.2.1. Handheld Units

A cost-effective alternative to conventional validators, Umo's compatible handheld units (HHU) pair seamlessly with Umo's ScanRide solution while eliminating any associated installation fees. The HHU can be used for both inspection or validation allowing for riders to leverage Link Transit branded transit cards. The HHU is self-contained, using cellular networks for data connectivity, built-in GPS for location data, and battery power for wireless operation. It is perfect for smaller fleet vehicles and paratransit where flexibility is key. As a self-contained solution, it can also be used as a handheld fare inspection solution. The validator features a full-color, high-visibility touch screen and supports optical scanning for the rider's mobile app or paper ticket, as well as RFID support to directly scan transit cards.



Figure 8: HHU

2.2.2. Transit Cards

Umo can supply Link Transit with contactless smart cards that allow passengers to board simply by tapping the card on the HHU. It uses RFID for secure and nearly instant read capability to expedite passenger boarding. Cards are encoded with a secure identification number that links it to the passenger account. This card is ISO/IEC 14443 compliant and uses the Advanced Encryption Standard to enable secure and reliable authentication of cards and readers.

In collaboration with Link Transit, the Umo program and marketing teams will work to customize the design of card during the implementation process. This process ensures that the card design adheres to the preferred branding guidelines sample Transit Cards that have been designed to adhere to specific guidelines are outlined below.







Figure 9: Example Umo Smartcards

3. What's Included in Your Umo Subscription

Cubic understands that riders, agency personnel, and retailers/partners play different roles in the transit equation. The success of public transit requires each participant to execute their role quickly and efficiently. Umo has created unique experiences for each. These are all included in the subscription to Umo, which forms the basis of our offering.

The Umo solution proposed is comprised of four components:

- 1. The mobile app (Umo App) provides riders with convenient access from their phones.
- 2. Passenger Portal for passengers who prefer a web-based experience.
- 3. The Administration Portal for agencies to supervise the system.
- 4. The Merchant Portal for retailers and partners to sell fares and support customers.



With the **Umo App**, riders can quickly board the bus using their purchased fares. Within the app, riders tap their "wallet" button to generate a QR code, which they scan at the validator. The QR code is a dynamic rolling code that protects the agency from fare evasion potential when users can screen-shot and share static images or QR codes.



The **Passenger Portal** is a web-accessible interface that riders can use to purchase fares and passes, check their account history, and maintain their transit accounts. Cubic strives to improve accessibility, and we created this portal to provide service for users who may not have smartphones or may be uncomfortable using them. Riders using the Passenger Portal can perform common account functions.



The **Administrative Portal** is an interface for Umo's detailed reporting and configuration management. This browser-based back-office solution enables authorized agency personnel to create, view, and manage records and reports for passenger accounts, vehicles, operators, and hardware devices. The portal also provides a dashboard with real-time performance metrics and enables common customer service and account management functions.



The **Merchant Portal** allows customer service team members to easily manage Umo accounts on behalf of riders. Additionally, agencies can use the Merchant Portal to appoint their retail partners. For example, some customers utilize the Merchant Portal to extend rider services into other local government locations, such as libraries or senior centers.



4. Trip Planning (Optional)

As an optional addition, the Umo App can provide door-to-door trip planning akin to a web mapping platform experience for the novice user. It will geolocate the user (or they can enter a starting address) and ask for the destination, which can be an address or, simpler yet, a landmark. The app will generate an end-to-end trip plan, including locating the nearest public transit locations. It guides the user at every trip step - how to get to the correct bus stop, which bus to catch, how far to ride, and how to complete the journey when walking, biking, or ride sharing is required. It becomes a trusted solution for anyone navigating the community and incorporates multiple forms of transit to achieve the best outcome for the rider.

Veteran riders commonly use the app in an entirely different way. They often already know where they are going and how they intend to get there; they want insights into vehicle location and timing, hoping they don't miss their bus or wait unnecessarily. The Umo App is perfect for these users, too. Veteran riders can create favorite routes and stops, receive real-time data on bus arrivals, and check schedules. Seamlessly integrated with provided GTFS data, the app includes detailed information invaluable to riders seeking both a practical and expeditious solution.

The app can also highlight and simplify engaging local alternative transit options like bike and scooter share services. Agencies can add custom links from the home page to those services to increase awareness and engagement. To deliver riders with tailored results, the Umo App allows riders to customize their experience through defaulted selections such as preferred modes of transit, turn walking or biking on/off, and schedule future trips.



Figure 11: The Trip Options screen makes it easy for the rider to make healthier and eco-friendly choices.

List of Activities for July and August and September

Check list of call outs for Operators, Supervisors, Maintenance.

Check emails for quick items to respond to.

Count and prepare Money to be taken to bank and make sure deposits are correct.

Safety Messages are going over every week with Operators, Supervisors.

Speaking with current staff, operators, supervisors, maintenance on daily activities for them.

Also trying to improve positive attitude with certain staff.

When short on phone coverage for office answer phones to help passengers with route schedules and help scheduling paratransit passengers.

Going down to hub to speak with operators and passengers on any issues.

Checking on routing issues when needed.

Going out to buses when passengers and operators have disagreements. Speaking with both and sometimes moving client myself.

Working with FSCMA, and DOT of NC to become 3rd party testers. Slow moving results.

Classroom training for new hires. This includes the Human Traffic training.

Prepare daily, weekly and monthly reports for Client.

Prepare monthly reports for Transdev.

By weekly payroll audits.

Weekly calls with Client and Transdev.

Working with GMV, Safe Fleet on tech issues that come up.

Customer Complaints and outcomes.

Riding routes to check on time performance.

Riding routes to check tablet connection for Comms.

Coming in to work on Saturdays to catch up and speak with weekend operators and supervisors.

Help in maintenance when needed drive the bus to location or extra set of hands in shop.

Working with newer Maintenance Manager on issues he needs help with in and out of the shop.

Both spent time cleaning vehicles until we could come up with a plan to find the right cleaners for our system.

Working with Supervisors to ensure coverage of all routes for fixed and Paratransit.

Working with new supervisor on how to be a road transit supervisor.

Paratransit has grown a lot this summer we have added 29 new riders to the system.

We have also added Medicaid MTM riders to our system. These riders are put in manually for the time being.

We have added more service in Mebane going out to the Cone Health care system.

We have also added a new operations Manager to our transit family, pleas welcome Roger Renfrow.

Roger is from Arizona. He has worked for Transdev for 3 years. He will be a great addition to the staff.

FR 2024	TOTAL
Jan	10,616
Feb	10,177
March	10,400
April	11,080
May	11,208
June	10,420
July	11,206
Aug	11,329
Sept	10,817
Oct	10,354
Nov	
Dec	
TOTAL	107,607



PARA 2024	TOTAL	[
Jan	550	
Feb	808	
March	835	
April	794	
May	775	
June	647	
July	713	
Aug	828	
Sept	723	
Oct	744	
Nov		
Dec		
TOTAL	7,417	



		LINK TRANSIT									
FY 16	9,377	FIXED ROUTE	2016	2017	2018	2019	2020	2021	2022	2023	2024
FY 17	79,498	January		6,643	5,992	8,285	7,027	4,243	6,807	14,896	10,616
FY 18	85,703	February		6,410	7,067	8,011	6,609	3,449	7,761	13,499	10,177
FY 19	104,551	March		6,528	6,343	7,809	6,315	4,605	9,792	13,641	10,400
FY 20	88,052	April		6,065	6,440	10,223	3,273	3,880	9,615	12,268	11,080
FY 21	50,093	May		6,734	7,105	12,476	5,150	4,669	10,153	13,334	11,208
FY 22	125,437	June	9,377	8,461	7,790	9,964	3,967	3,818	11,924	12,450	10,420
FY 23	164,846	July	5,145	6,833	7,869	9,484	3,958	4,660	12,587	12,290	11,206
FY 24	148,600	August	7,779	7,746	8,122	10,831	3,957	7,394	14,439	13,943	11,329
FY 25	43,706	September	5,961	7,854	7,352	7,678	5,033	7,294	14,269	13,651	10,817
		October	6,743	8,107	9,809	10,178	4,071	8,983	14,868	16,283	10,354
		November	6,479	7,661	8,523	8,891	4,021	8,563	14,394	15,579	
		December	6,550	6,765	6,108	8,649	4,389	8,455	14,201	12,953	
		TOTAL	48,034	85,807	88,520	112,479	57,770	70,013	140,810	164,787	107,607

		LINK									
FY 16	66	PARATRANSIT	2016	2017	2018	2019	2020	2021	2022	2023	2024
FY 17	2,403	January		200	285	485	498	368	400	596	550
FY 18	4,366	February		185	393	382	521	384	459	431	808
FY 19	4,649	March		246	414	425	439	492	528	692	835
FY 20	4,443	April		209	385	423	239	453	471	578	794
FY 21	4,741	May		235	464	438	237	414	534	619	775
FY 22	5,935	June	66	228	428	394	329	505	547	606	647
FY 23	7,077	July	110	255	379	422	277	440	460	584	713
FY 24	8,782	August	147	281	432	461	328	467	501	853	828
FY 25	3,008	September	183	410	381	440	480	497	625	746	723
	-	October	204	483	497	546	461	498	593	745	744
		November	229	407	519	496	366	513	640	747	
		December	172	322	336	458	418	450	612	698	
		TOTAL	1,111	3,461	4,913	5,370	4,593	5,481	6,370	7,895	7,417

Systemwide									
Total	49,145	89,268	93,433	117,849	62,363	75,494	147,180	172,682	115,024