### Regional Transit Coordination (RTC) Subcommittee Houston-Galveston Area Council Online Meeting/Conference Call Thursday, October 5, 2023 9:30-11:00 AM

### Agenda

- 1. Introductions and Certification of Quorum (9) Ruthanne Haut, The Woodlands Township, Chair
- 2. Public Comments
- 3. Action Items:
  - 3.1 Approval of RTC Subcommittee Meeting Minutes of July 13, 2023
- 4. Information Items: (10 minutes or less each)
  - 4.1 Coordinated Planning
    - 4.1a Transit Asset Management Update Chris Whaley, H-GAC
    - 4.1b RCTP Transit Needs Index Sandy Klanfer, H-GAC
    - 4.1c Regional Transit Connectivity Update and Mobile Ticketing Demonstration Vernon Chambers, Harris County Transit, and Reggie Brown, METRO
  - 4.2 Partner Updates
    - 4.2a Generation Park Microtransit Vernon Chambers, Harris County Transit
- 5. Transit and Human Service Agency Reports (5 minutes or less each)

Next RTC Subcommittee Meetings:

November 2, 2023 (Special Call)

January 11, 2024 (Tentative)

#### REGIONAL TRANSIT COORDINATION SUBCOMMITTEE

#### **MEETING MINUTES**

Thursday, July 13, 2023 – 9:30-11:00am Houston-Galveston Area Council Virtual Meeting

#### MEMBERS PRESENT

Ruthanne Haut (Chair) – The Woodlands Township Sharon Moses-Burnside – City of Houston Planning Melanie Beaman – City of Sugar Land Philip Salerno – Greater Inwood Super Neighborhood Thomas Holstien – BakerRipley Lanny Brown – Community Health Network Vernon Chambers – Harris County Transit Jo Marlow – Brazos Transit District

#### **ALTERNATES PRESENT**

Brandon Mosley – City of Houston Planning Ashley Newell – Mounting Horizons Tatyana Luttenschlager – METRO Shekeylia Douglas – Harris County Transit Sarah Coulter- Fort Bend County Transit Kaitlyn Mock – Brazos Transit District

#### **OTHERS PRESENT**

Brenda Bustillos – TxDOT Arnold Vowles – TxDOT Carol Crapanzano – TxDOT Albert Lyne – METRO Denise Wendler – METRO Hon. Martin Mudd – City of Dayton

#### **H-GAC STAFF PRESENT**

Jamila Owens
Thomas Gray
Alan Rodenstein
Vishu Lingala
Adam Beckom
Lucinda Martinez
Veronica Waller

#### **BRIEFING**

#### Overview

RTCS Members and Alternates met virtually by teleconference. At this meeting, Subcommittee members re-elected Ruthanne Haut of The Woodlands Township and Sharon Moses-Burnside of the City of Houston as Subcommittee Chair and Vice-Chair, respectively. The Subcommittee received updates on the Call for Projects selection process, the status of projects in the current Unified Planning Work Program (UPWP), regional transit connectivity, the TDM Workgroup, and Commute Solutions.

#### INTRODUCTIONS AND CERTIFICATION OF QUORUM

**ITEM 1** – Ruthanne Haut, Chair, The Woodlands Township, convened the meeting at 9:30 AM. Roll was called by H-GAC staff and a quorum was certified.

#### **PUBLIC COMMENT**

**ITEM 2** – There were no public comments presented to the Subcommittee.

#### **ACTION ITEMS**

#### ITEM 3.1 – Approval of RTC Subcommittee Meeting Minutes of April 13, 2023

Ms. Haut requested a motion to approve the minutes of the April 13, 2023 meeting of the Subcommittee.

Action Item Motion: moved by Vernon Chambers, seconded by Sharon Moses-Burnside. Action Item approved.

#### ITEM 3.2 – Election of Subcommittee Officers

The slate of suggested Subcommittee Officers was presented. It recommended the re-nominations of Ruthanne Haut for Chair and Sharon Moses-Burnside for Vice-Chair because both persons are eligible to serve one more term. Ms. Haut asked for either a motion on the presented slate or nomination of alternative candidates.

Action Item Motion: moved by Philip Salerno to accept the recommended slate and re-elect Ruthanne Haut as Chair and Sharon Moses-Burnside as Vice-Chair. Seconded by Melanie Beaman. Action Item approved.

#### **INFORMATION ITEMS**

### ITEM 4.1a – Review of Subcommittee Purpose and Duties – Thomas Gray, H-GAC

Thomas Gray welcomed new members and briefly explained the purpose and duties of the Regional Transit Coordination Subcommittee, which included duties common to all TAC Subcommittees as well as duties specific to the RTCS.

There were no questions from Subcommittee members. Ms. Haut explained to members that transit stakeholder involvement begins with this Subcommittee and its input filters upward to TAC and TPC.

#### ITEM 4.2a – Project Selection Process Update – Vishu Lingala, H-GAC

Vishu Lingala presented the Subcommittee with an update on how projects submitted by agencies during the Call for Projects are evaluated and selected. He explained that the purpose of the "Transit" investment category is to "identify, develop and fund projects that most effectively provide, expand or enhance transit infrastructure throughout the region." Mr. Lingala discussed eligible activities and funding recommendations for the transit investment category.

Discussion ensued. Jamila Owens briefly explained the Subcommittee's role in the Call for Projects process, for example by approving performance measures and reviewing transit studies. Philip Salerno asked about the effect of cost increases on project implementation. Ruthanne Haut asked how agencies will be notified as the Call for Projects process continues.

Martin Mudd asked where he could get information about projects and studies affecting the City of Dayton. Thomas Gray and Alan Rodenstein said that they would forward him information about the Liberty County Mobility Study and Dayton Transit Study, respectively. Jo Marlow requested information about the Liberty County Mobility Study as well.

### ITEM 4.2b – UPWP Transit Projects Status Report – Thomas Gray, H-GAC

Thomas Gray provided the Subcommittee with an update on transit projects in the 2022-2023 Unified Planning Work Program (UPWP), which will expire at the end of September. Of the transit projects in the UPWP, seven are ongoing or being implemented, five are still in the predevelopment stage, one has been completed and one has not yet started. Projected that have not yet been completed will be rolled over into the 2024 UPWP.

Ashley Newell inquired about the Transit Information Study, which was one of the projects still in predevelopment. Jamila Owens explained the purpose and status of that project.

#### ITEM 4.2c Regional Transit Connectivity Update – Sandy Klanfer, H-GAC

Vernon Chambers presented in Mr. Klanfer's absence. She updated the Subcommittee as to the status of the Regional Transit Connectivity program as well as next steps. There were no questions or comments from the Subcommittee.

### 4.2d TDM Workgroup - Jamila Owens, H-GAC

Jamila Owens discussed the formation of the Regional Transportation Demand Management Workgroup. She explained the Workgroup's purpose, focus and goals, and shared some TDM strategies that the Workgroup could explore in greater detail. She indicated that the Workgroup would get underway sometime this fall and invited Subcommittee members to become members.

Sarah Coulter, Brenda Bustillos and Sharon Moses-Burnside expressed interest in participating.

### 4.2e Commute Solutions Update – Jamila Owens, H-GAC

Jamila Owens provided the Subcommittee with an update on Commute Solutions events, including Commute Solutions Month in September, Biketober in October, and Ozone Action Campaign activities planned for 2024.

Ruthanne Haut noted that The Woodlands Township was looking forward to partnering with H-GAC on Commute Solutions Month.

### **AGENCY REPORTS**

### ITEM 5 – Transit and Human Service Agency Reports

Ms. Haut invited Subcommittee members to briefly give updates on their agency efforts. She began by announcing that The Woodlands Township had completed its FTA Triennial Review.

Jo Marlow announced that the Brazos Transit District had been awarded a federal Low or No Emissions Vehicles (LoNo) grant for new bus purchases.

Ashley Newell announced that Mounting Horizons provides a "Mobility Management 101" training and that interested persons could sign up on their website.

Thomas Holstien of BakerRipley introduced himself and his organization to the Subcommittee.

Thomas Gray of H-GAC alerted regional transit agencies that the quarterly ridership survey would be sent out shortly and their prompt response to it would be appreciated.

Jamila Owens of H-GAC alerted the Subcommittee that the agency was applying for TxDOT funding for coordinated transportation planning efforts in fiscal year 2024, and that Sandy Klanfer may be reaching out to Subcommittee members for letters of support.

Sarah Coulter provided an update on Fort Bend Transit's commuter and demand response operations.

#### **ADJOURNMENT**

Ms. Haut adjourned the meeting at 10:54 AM.

Next RTCS Meeting – 9:30 AM on Thursday, October 5, 2023



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### **Transit Asset Management (TAM)**



- Purpose: Ensure State of Good Repair
- Overview:
  - Each transit agency has a Transit Asset Management
    Plan
  - Each MPO sets regional targets
  - H-GAC sets the regional targets (biennially) for asset management using the information in each Agency's TAM Plan

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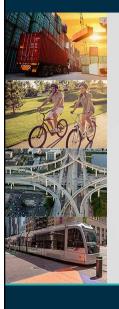
### **Transit Asset Management (TAM)**

Asset Category	Performance Measure
Rolling Stock	Age - % of Revenue Vehicles exceeding their Useful Life Benchmark (ULB)
Equipment	<b>Age</b> - % of Non-revenue Vehicles exceeding their Useful Life Benchmark (ULB)
Facilities	<b>Condition</b> - % of Facilities with a condition rating below 3 on the TERM scale (Marginal or Poor)
Infrastructure	<b>Performance</b> - % of Rail track segments, signals and systems with performance restrictions
Infrastructure	

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# Transit Asset Management (TAM)



- Current Process:
  - Use updated agency TAM Plans to calculate current performance
  - Use current performance to set next targets



Regio	onal	TAN	1 Pe	erfor	mai	nce			
		Per	formanc	e Targets a	and Actu	als by Ye	ar		
	2018		2020			2022		Proposed	Targets
Asset Category	Baseline	Targets	Actuals	Achieved	Targets	Actuals	Achieved	2024	2026
Rolling Stock (revenue vehicles)	11%	11%	10%	<b>✓</b>	10%	10%	<b>✓</b>	10%	10%
Equipment (non- revenue vehicles)	46%	46%	46%	<b>✓</b>	46%	46%	<b>✓</b>	46%	46%
Facilities (buildings and structures)	55%	55%	55%	✓	54%	45%	✓	45%	45%
Infrastructure (rail tracks, signals & systems)	0%	0%	0%	✓	0%	0%	<b>✓</b>	0%	0%



## **Purpose and Need**

- Last year, received a public comment on the transit need index
  - Concerned that we labeled areas with only 1-2 buses per hour as having their transit needs "met"
  - Also asked us to look more closely at regional connectivity
- We used this opportunity to revisit the work we did to see if we could address these concerns



### **New Analysis**

- We looked at a variety of different options for how we might reexamine the idea of transit need and transit quality
  - LinkHouston's "Where Affordable Housing and Transportation Meet in Houston"
  - TCRP Transit Capacity and Level of Service Manual
- Encountered many limitations
  - Data availability
  - Properly weighting various factors



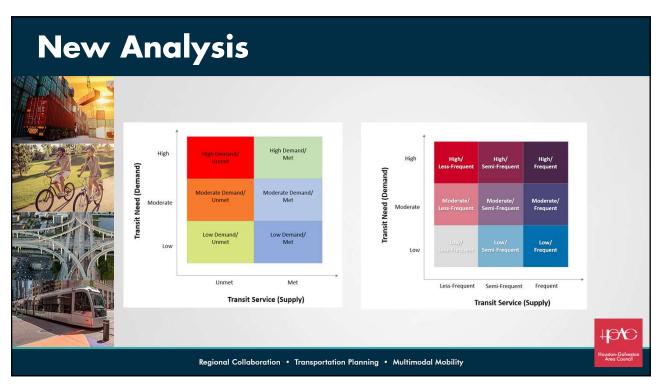
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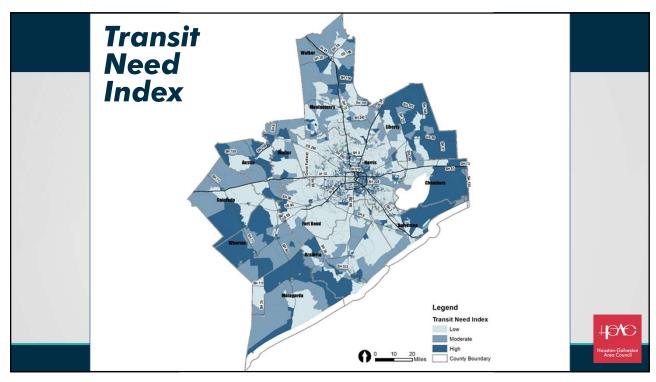
### **New Analysis**

- The core problem: we were trying to deem transit need "met" or "unmet" in each block group based on limited data and limited public input
- We resolved this by turning away from the concept of "met" or "unmet" transit need and instead using a frequency-based transit availability metric





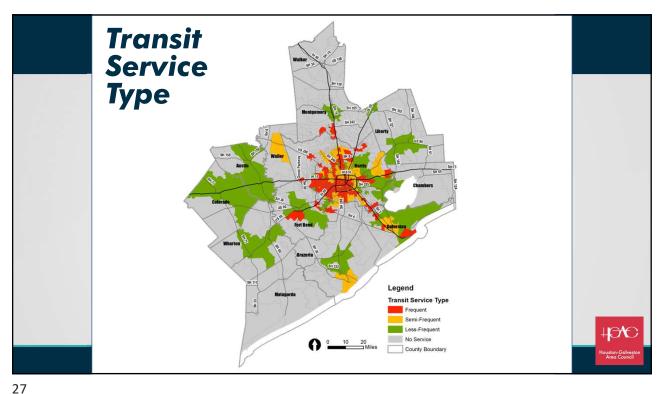
t Need Index		
Factor	Urban Weight	Rural Weight
Population Density	20%	10%
Percent of Households with Zero Automobiles	20%	10%
Percent of Population Over 65 Years of Age	15%	25%
Percent of Households with an Adult with a Disability	15%	25%
Percent of Population Between the Ages of 6 and 17	10%	10%
Poverty Rate	20%	20%
Total	100%	100%

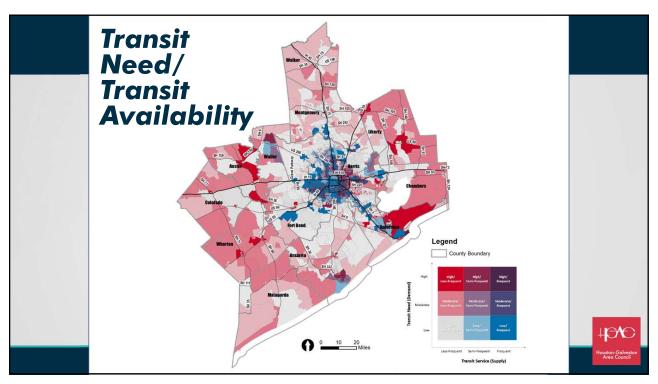


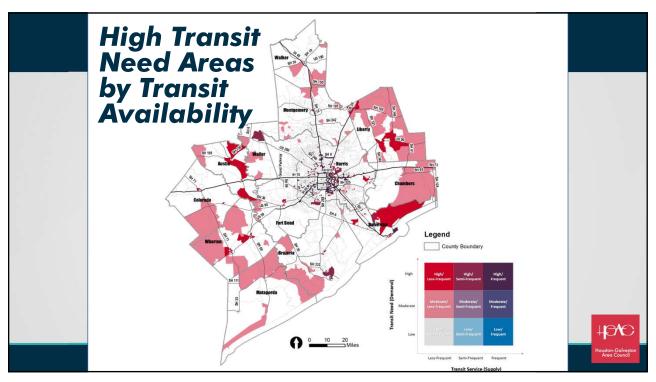
## **Transit Availability Matrix**

- "Frequent"
  - High-Capacity Transit, including all Bus Rapid Transit (BRT) and Light Rail (LRT) services
  - · Limited-stop express buses, including commuter-focused park and ride services
  - Local bus services with off-peak headways of 15 minutes or less
- "Semi-Frequent"
  - Local bus services with off-peak headways between 16 and 30 minutes
- "Less Frequent"
  - Flex zone (demand-response)
  - Local bus services with off-peak headways greater than 30 minutes









# **Key Takeaways**

- Change to frequency-based availability metric better highlights places where transit is limited relative to need
  - Northeast, Southeast, Southwest Houston
  - La Marque/Texas City area
- These key opportunities for expanding transit access not highlighted by density-based metric
- Limitation: census block groups are quite large in rural areas, may need further study



### **Regional Mid-Day Trip Evaluation**

- Currently, there is limited regional service that crosses county lines to and from major activity centers
  - Peak-hour, peak-direction only
- New analysis, seeking input
- Used H-GAC's origin-destination data to analyze the number of weekday mid-day trips (9 AM-3 PM) to and from the two biggest regional activity centers
  - Downtown Houston
  - Texas Medical Center
  - These were the destinations most commonly cited



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## **Regional Mid-Day Trip Evaluation**

- This data showed the demand for travel to and from these destinations during these periods.
  - Serves as a starting point for understanding demand for bus service specifically
- Daily averages:
  - · 32,967 trips to downtown Houston
  - 37,079 trips from downtown Houston
  - 20,612 trips to Texas Medical Center
  - 22,722 trips from Texas Medical Center



### **Regional Mid-Day Trip Evaluation**

- The vast majority of these trips both start and end within Harris County
  - 91.8% of trips to Downtown Houston
  - 90.2% of trips from Downtown Houston
  - 85.1% of trips to Texas Medical Center
  - 84.1% of trips from Texas Medical Center
- Some counties (Liberty, Chambers, Waller) see very few trips to/from these destinations at mid-day



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### **Regional Mid-Day Trip Evaluation**

- Some counties generate enough demand to/from these activity centers to warrant additional study:
  - 957 trips (2.6%) to Montgomery County from Downtown Houston
  - 982 trips (4.3%) to Brazoria County from Texas Medical Center
  - 1,455 trips (7.1%) from Fort Bend County to Texas Medical Center
  - 1,160 trips (4.3%) from Fort Bend County to Downtown Houston



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## **Regional Trip Evaluation**

- This analysis serves as a starting point for determining where demand for all-day regional service may exist
- Further study would be needed to determine feasibility
  - H-GAC is planning a regional bus study, expected to start in 2024



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### **Action**

Information only, will take action at future meeting.





### **Project Components**

- Mobile Ticketing
  - Partners can sell fare products and manage customer accounts in the Q Ticketing app
  - Harris County and Fort Bend County Transit have gone live
- Regional Data Management
  - Provides opportunity for each regional partner to include their schedule data into METRO's existing system
  - Provides combined GTFS (General Transit Feed Specification) real-time data for trip planning as well as alerts
  - Several agencies in process of cleansing their feeds. Harris County and Fort Bend are nearing completion of combining their data with METRO for shared trip planning opportunities
- INIT Fare Collection System
  - Opportunity to utilize INIT's backend system to manage fares and customer accounts
  - Opportunity to implement front-end equipment: validators, TVMs and/or fareboxes



### Regional Assessment and Planning

- Preliminary assessments complete.
- Findings included:
  - Fare structures are generally flat and non-complex, and could easily be integrated into the FCS and potentially future regional fare products
  - Partners will require infrastructure to support the integration of new fare devices
  - Options to maintain and support Partner bus equipment is being reviewed
  - Implementing regional "backbone" first maximizes project benefits while limiting initial project costs
- All agencies expressed interest in participating in a regional fare program
- Funding was approved for system backbone integration and vehicle validators
- Follow-up meetings regarding current partner positioning and desire to participate
- Working with INIT to determine partner integration strategy
- Future phases could include Ticket Vending Machines and fareboxes



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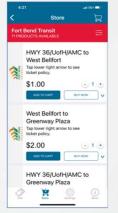
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### **Mobile Ticketing Status**

 Harris County and Fort Bend County Transit now live in Q Ticketing app effective September 14<sup>th</sup>











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### **Fare Collection System**

### **Current Status:**

- Finalizing design of system backend and equipment
- Completed installation of validators on approximately 50% METRO's fixed route buses
- Finalizing Ticket Vending Machine (TVM) builds. Installation to begin Q1-2024
- System Integration Testing and Pilot scheduled Q1-2024
- Customer-facing website and portals being developed and tested
- Establishing 3<sup>rd</sup> party fare media retail network
- Discussing partner integration strategy and timing with INIT



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### **Next Steps**

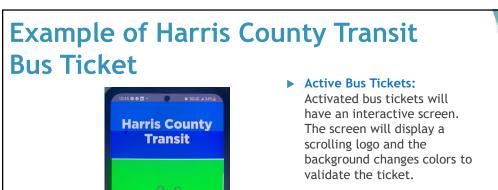
- Phase 1 implementation
  - Complete METRO implementation, testing and go-live
  - Complete ILAs between METRO and regional partners
  - Bring regional partners into the systems they desire:
    - Regional Data Management
    - Mobile Ticketing
    - Automated fare collection
  - Purchase, install and integrate validators for Regional Partner buses. (requires additional infrastructure for cellular communications with backend)
  - Work with partners and H-GAC on a possible shared maintenance strategy
- Long Term
  - Reassess the need for ticket vending machines and fareboxes after the initial rollout



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TRANSIT

ADULT & CHILDREN 12+

TRANSIT

09/20/2023 12:12 PM
Ticket Expiration

► Q Ticketing Walk-through: (TEAMS)







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### Harris County Transit Plus

Launched on July 6, 2021 Transit Plus is an On-Demand transit service within defined zones in North East Harris County.

This service is supported by **RideCo** which offers on-demand solutions for transit systems

Service operates using pre-set Flex Stops with destinations such as grocery stores, shopping centers, colleges, and other job destinations.

- ► HC 10 Generation Park North Zone
- ► HC 10 Generation Park South Zone



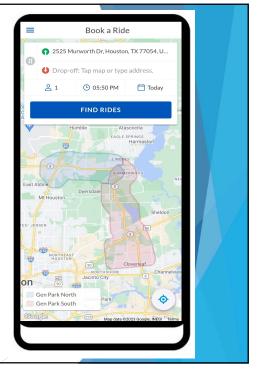
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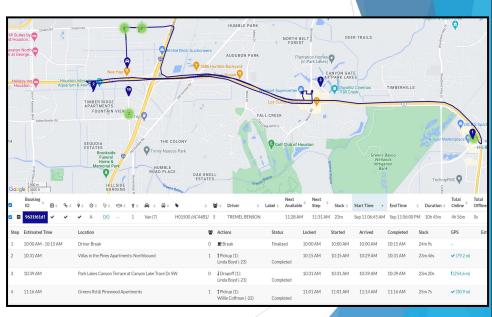
### Passenger Interface

- Scheduling Trips: Passengers can book trips by; downloading the Harris County Transit Plus app, using their computer, or calling into our call center at (832) 927-4953.
  - ▶ Transit Plus has given passengers the option to book their trips 3 days in advance (this feature is adjustable).
- ▶ Defined Zones: The Zones are outlined and separated by color to provide riders a clear boundary and overview of the service area.
- ▶ Live GPS: Once the trip(s) are booked, riders will receive real time GPS through the app. Trip confirmations and ETA on the vehicle's arrival are sent via text.
- Notifications: Transit Plus can schedule push notifications to appear in the app (either written or graphic) to notify passengers of any service events or closures.



### **Dispatch Interface**

- RideCo Dashboard: Transit agencies have access to monitor their vehicles and driver itinerary in real-time.
- Dispatch can assign drivers to zones, schedule driver breaks, and review historical data.
- Agencies can also review historical passenger data and send messages to riders via text.

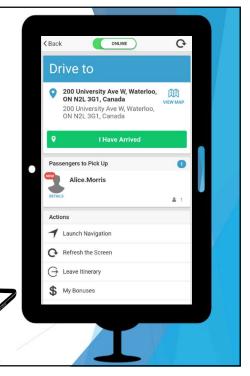


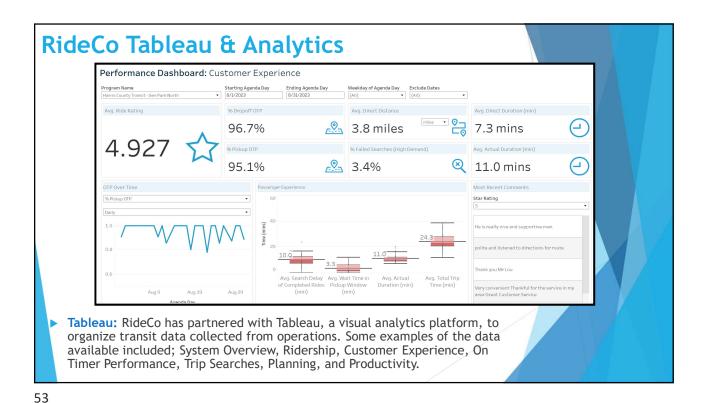
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- ▶ Driver App: Operators receive their trips by downloading the Harris County Transit Driver app to their device (Transit Plus has assigned drivers a Tablet). Trip notifications are sent to their device.
- Driver Itinerary: Itinerary is a scheduled shift the driver will be working. Drivers choose their shift, for Transit Plus they would choose their assigned Zones, and begin accepting trips as they come in.
- Driver Notifications: As the operator Accepts Trips, receive Directions to Destination and Has Arrived, the passenger will receive notification to match: Trip has been Accepted, Driver on The Way, Your Ride has Arrived via text.

Your ride is Here!





**Transit Plus Ridership** Performance Dashboard: Ridership ▶ Passengers Completed: Weekday of Agenda Day Exclude

▼ (AII) Transit plus as Avg. 13 trips a Program Name Starting Agenda Day Ending Agenda Day Exclude Date day (an avg. of 312 trips a Ridership Over Time month) Avg. Daily Rides Completed Total Avg. Passengers Completed 13 Ride Status Breakdown: Total Passengers Completed passenger trips completed from July, 2021 to current is 8,547 8,547 riders Jun 1, 21 Dec 1, 21 Dec 1, 22 Ride Status Breakdown ABANDONED Ride Status Breakdown: CANCELLED Rides by Passenger Type CANCELLED\_LATE ▶ 73% - completed Col( > ■ COMPLETED ▶ 16% - cancelled NO\_SHOW ▶ 3% - no show NO\_SHOW\_LATE >1% - un-serviced Ridership Over Time: shows an upward trend!

