



U.S. Department of Transportation

ITS4US

IT'S TRANSPORTATION FOR ALL OF US

Health Connector: Designing for a Complete Mobility Experience

Heart of Iowa Regional Transit Agency

September 19th, 2023

Agenda

▪ Purpose of this Webinar

- This webinar will provide an overview of Health Connector system design, and discuss the various tools and technologies being connected and integrated to help travelers get to and from healthcare destinations.

▪ Webinar Content

- ITS4US Deployment Program Overview (*Mike Barry, FHWA*)
- Health Connector Project Overview (*Brooke Ramsey, HIRTA*)
- Operational Scenarios (*Josh Albertson, Arcadis IBI Group*)
- Via MOD Platform Overview (*Rachel Birnbaum/Jen Thompson, Via*)
- Wayfinding Tools and Technologies (*Josh Albertson, Arcadis IBI Group*)
- Middleware Development and Connection to External Systems (*Josh Albertson, Arcadis IBI Group*)
- Stakeholder Q&A
- How to Stay Connected (*Mike Barry*)

▪ Webinar Protocol

- Please mute your phone during the entire webinar
- You are welcome to ask questions via chatbox at the Q&A Section
- The webinar recording and the presentation material will be posted on the ITS4US website



Source: Mike Barry

Mike Barry

Transportation Specialist, Site AOR
FHWA Office of Planning

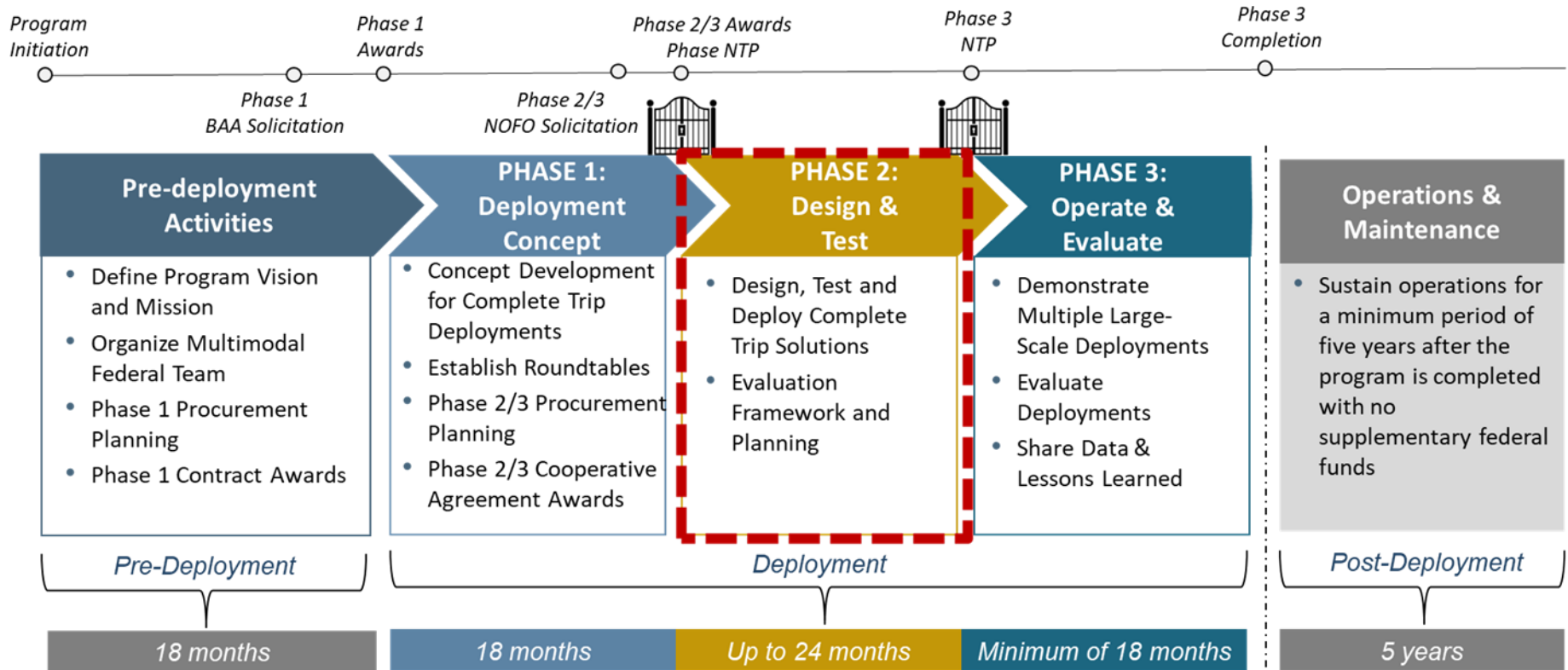
ITS4US Program Overview

- A USDOT Multimodal Deployment effort, led by ITS JPO and supported by OST, FHWA and FTA
- Supports multiple large-scale replicable deployments to address the challenges of planning and executing all segments of a complete trip



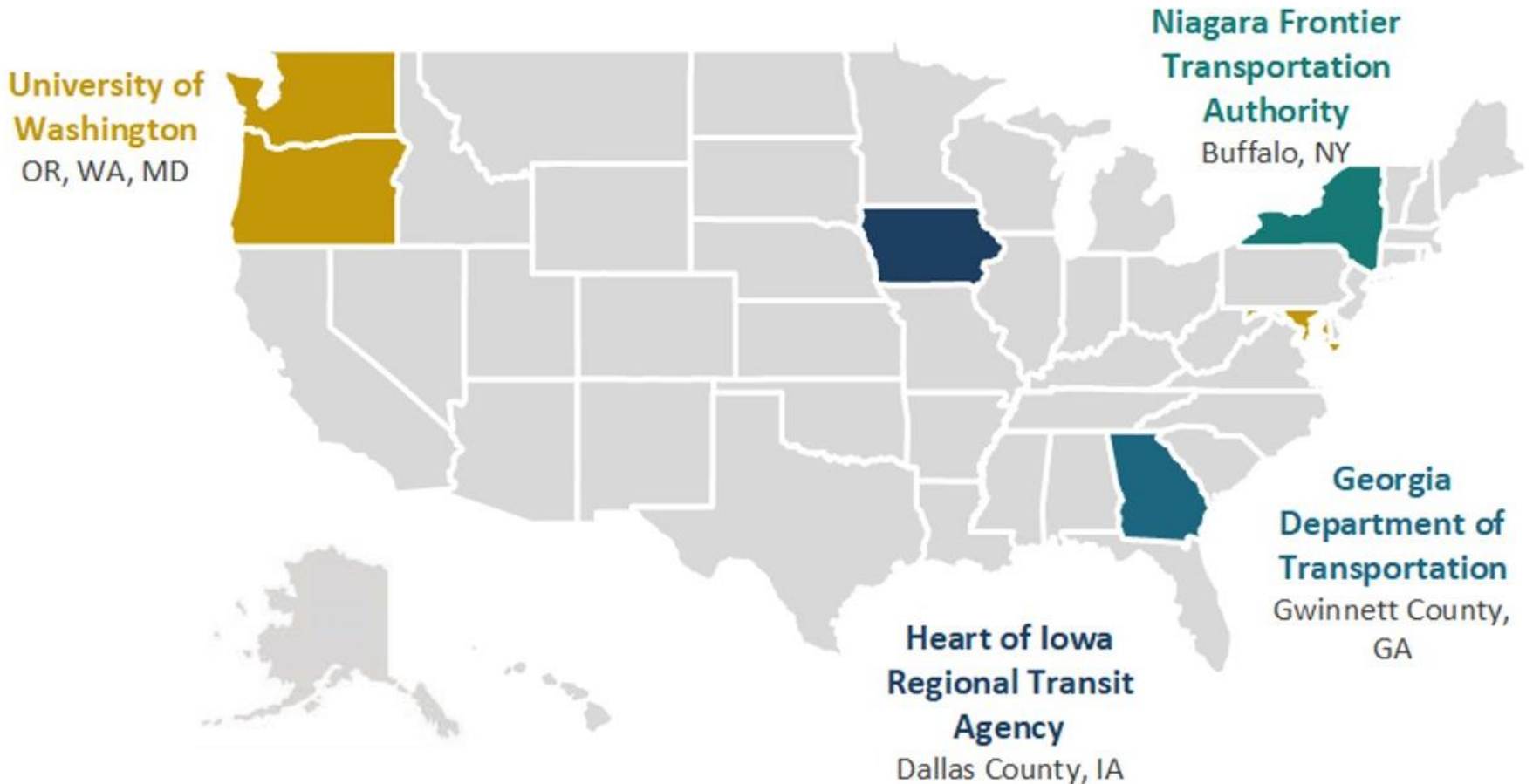
Vision: Innovative and integrated complete trip deployments to support seamless travel for all users across all modes, regardless of location, income, or disability

Deployment Phases



Source: USDOT

ITS4US Deployment Sites



Source: USDOT

ITS4US Team Photo Collage





Source: Brooke Ramsey

Brooke Ramsey

Project Management Lead

Heart of Iowa Regional Transit
Agency



Source: Josh Albertson

Josh Albertson

Technical Lead

Arcadis IBI Group



Source: Jen Thompson

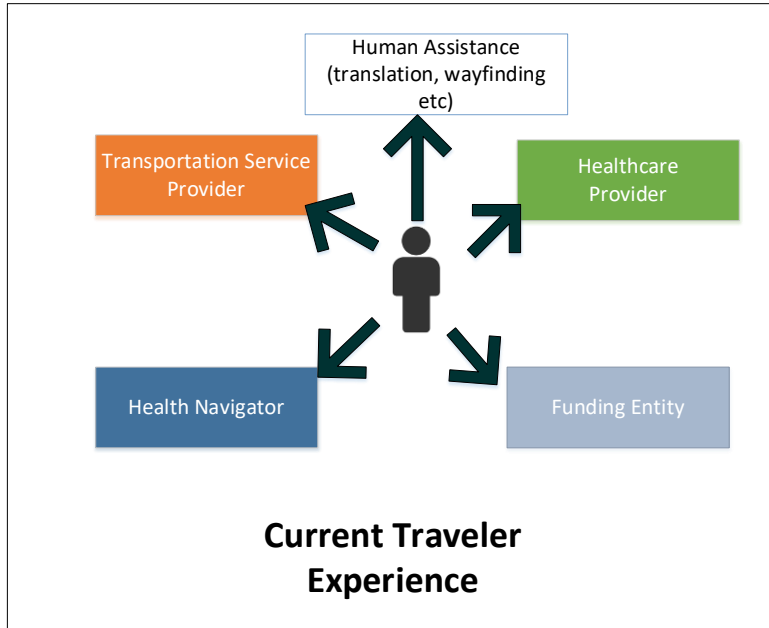
Jen Thompson

Global Director, Partner Success
Via Transportation

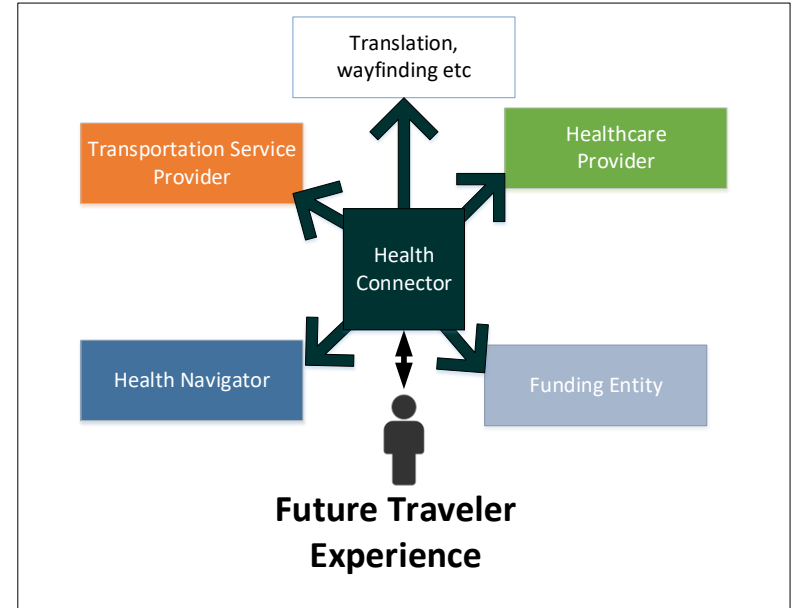
Health Connector for the Most Vulnerable

- Deployment area: Dallas County, Iowa
- Implement a scalable and replicable solution enabling transportation access to healthcare for all underserved populations and their caregivers
 - Use advanced technologies to resolve barriers
- Include information and wayfinding services to guide each step of user's trip
- Provide enhanced access to healthcare options for all travelers in Dallas County, a mostly rural county

System Vision



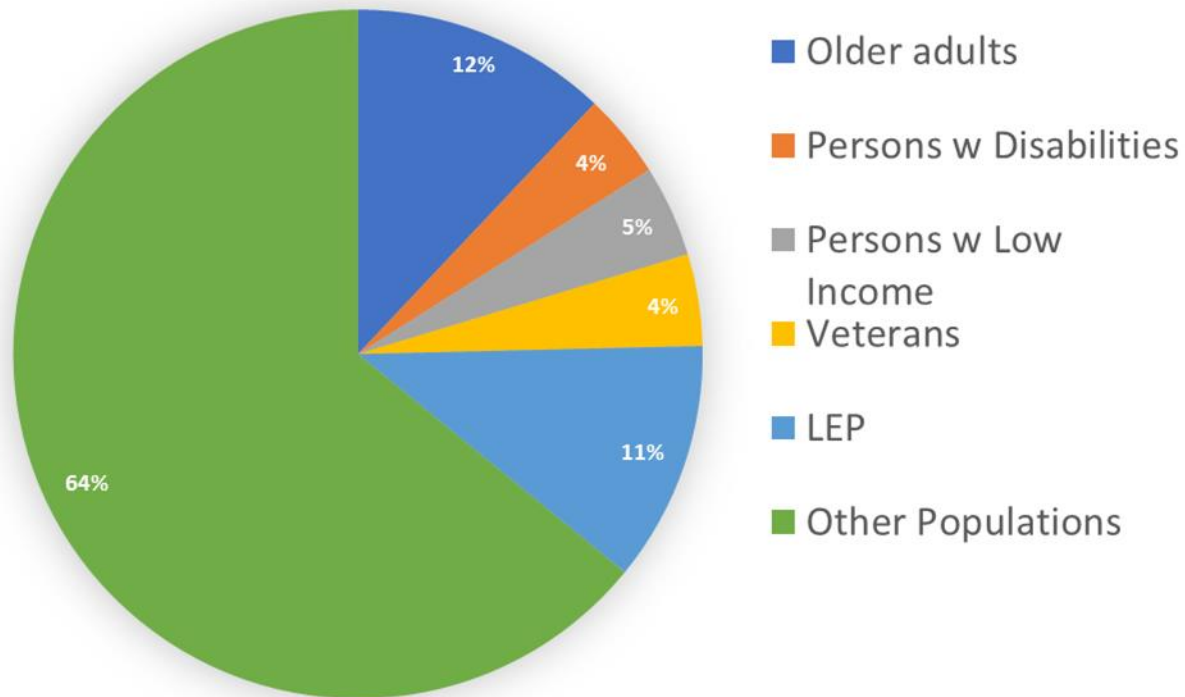
Source: HIRTA



HIRTA and Dallas County Overview

- HIRTA provides demand response services to population in 7 county areas, including Dallas County
- Dallas County grew 36% in the last decade
- Coordination of medical transportation services for underserved a major challenge

Dallas County Underserved Population

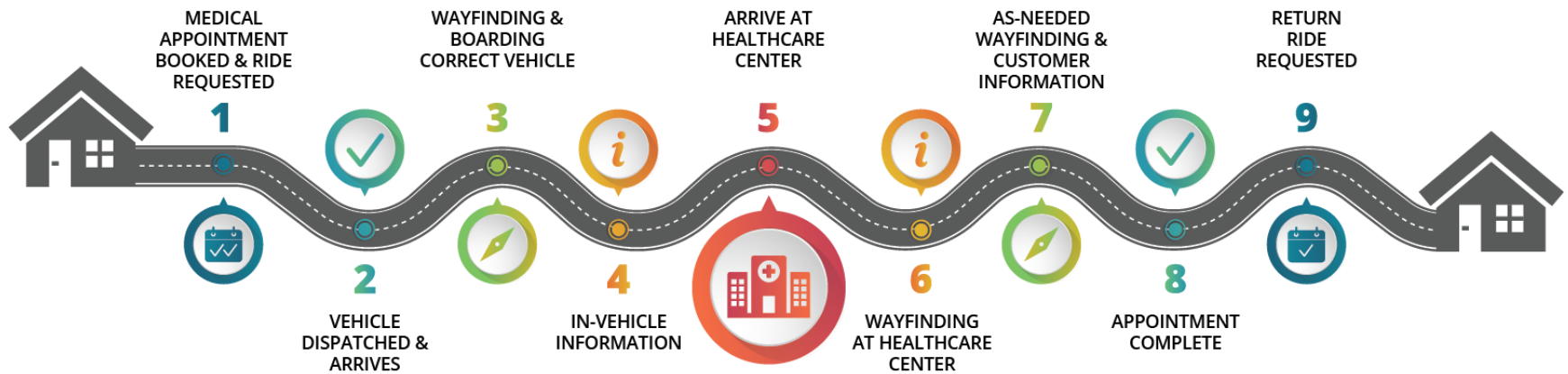


Source: HIRTA

High-Level Findings from Stakeholders

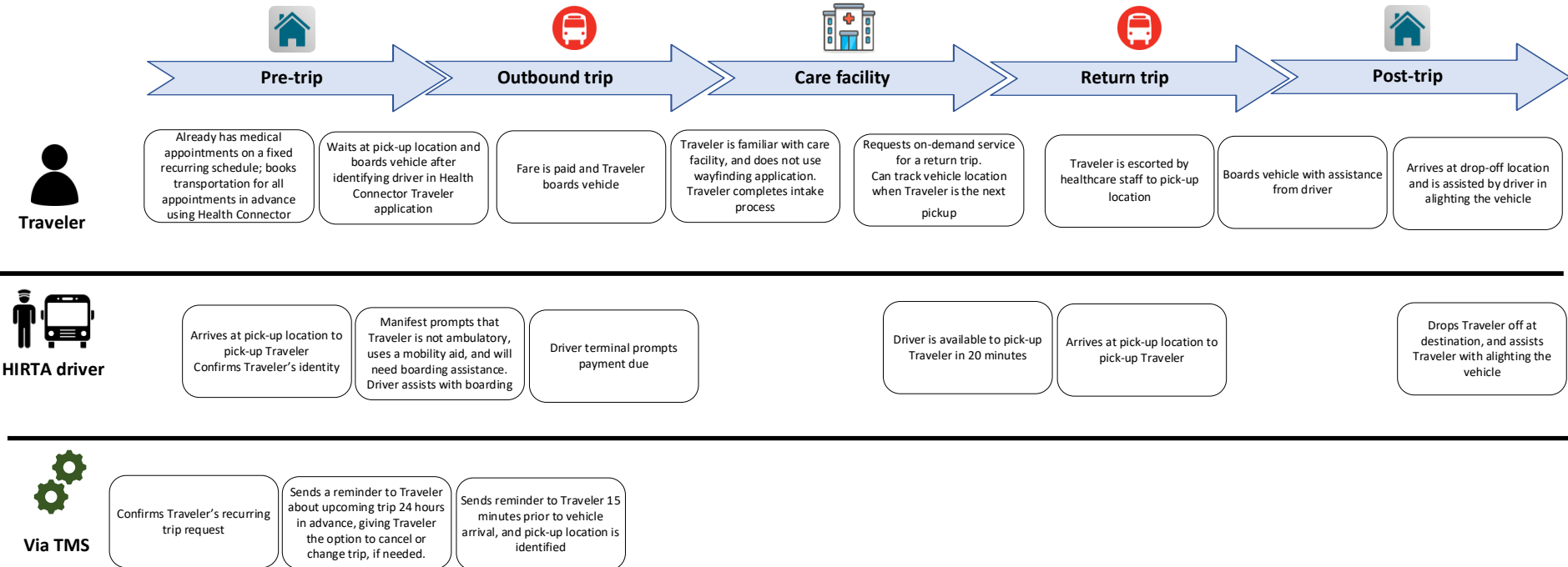
- Lack of awareness on transportation options
- Lack of integrated booking and trip management experience
- Limited capabilities in current modes to meet the needs of underserved
- Limited wayfinding capabilities
- Service management challenges with return trips
- Same day and after hour service issues
- Limited data sharing and reporting to measure the performance of healthcare transportation

Concept Overview



Source: HIRTA

Operational Scenarios

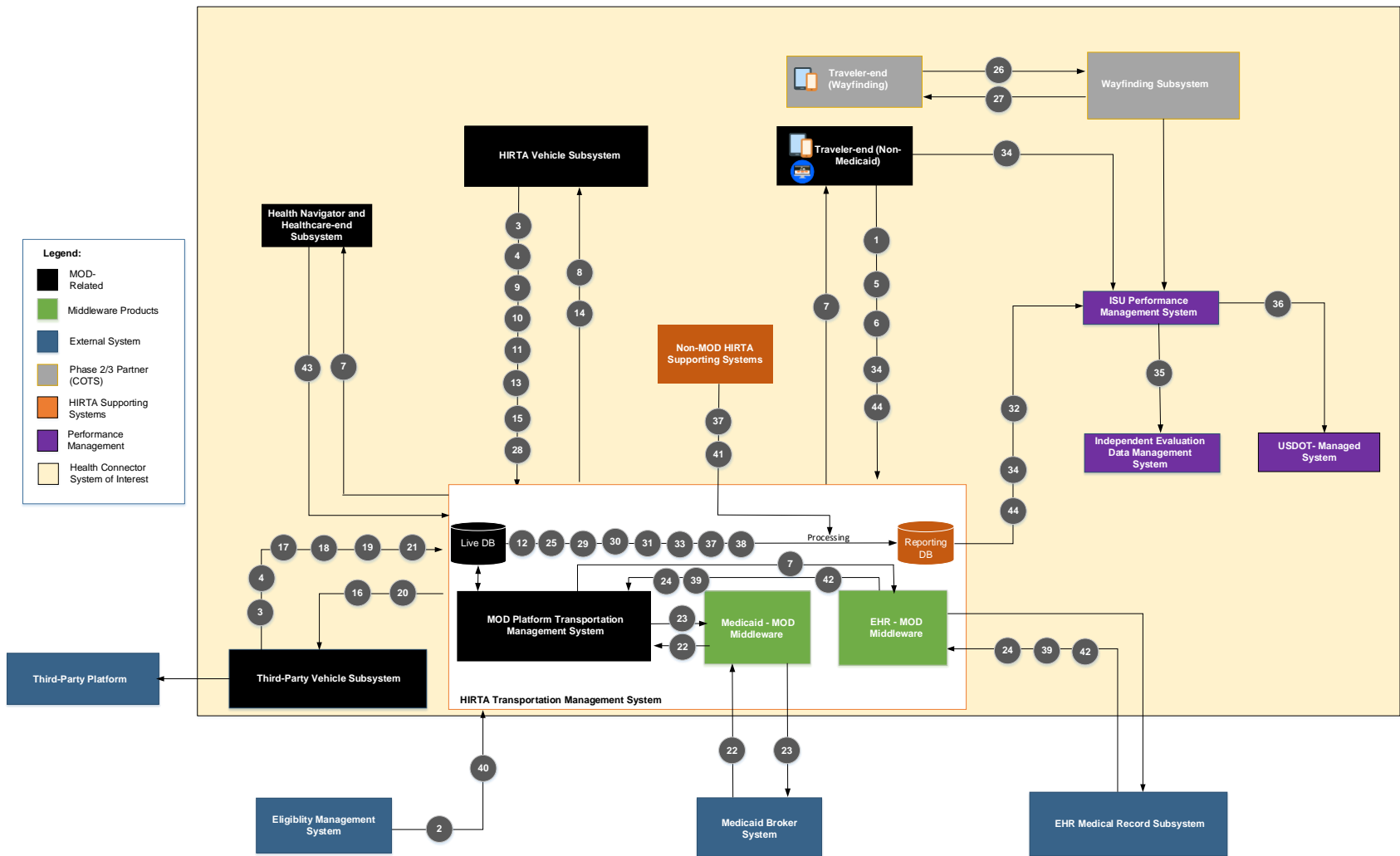


What If?

- 1. What if the Traveler does not know the location of the doctor's office?**
Traveler can open the wayfinding application for turn-by-turn guidance
- 2. What if the Traveler wants to book a return trip at the same time as booking their appointment?**
Traveler may book a return trip at the same time as booking an appointment and has the option to cancel and rebook it if there is any delay in treatment
- 3. What if the Traveler has complications booking a return trip themselves?**
Traveler may ask a healthcare customer service representative to book a return trip for them

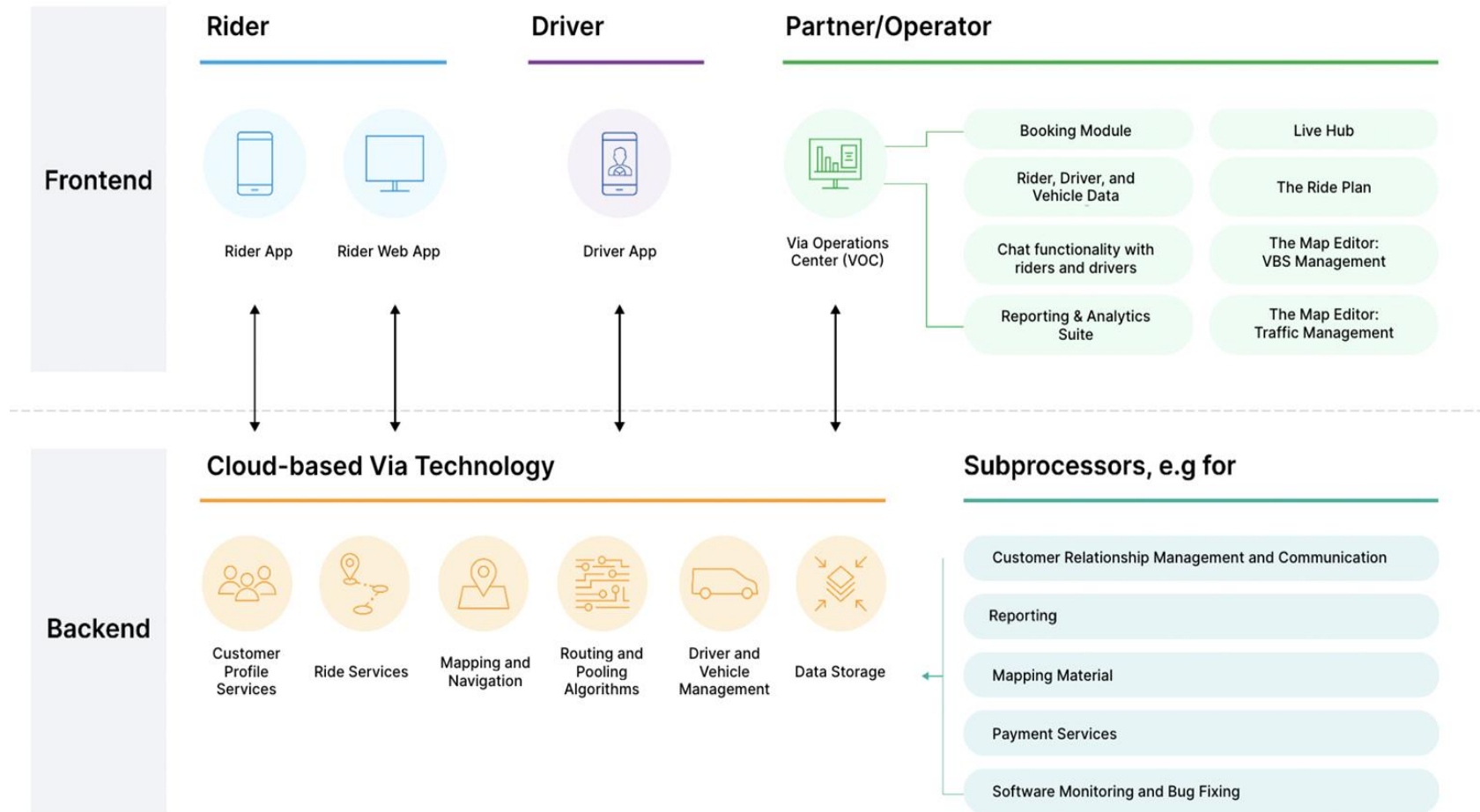
Source: HIRTA

System of Interest



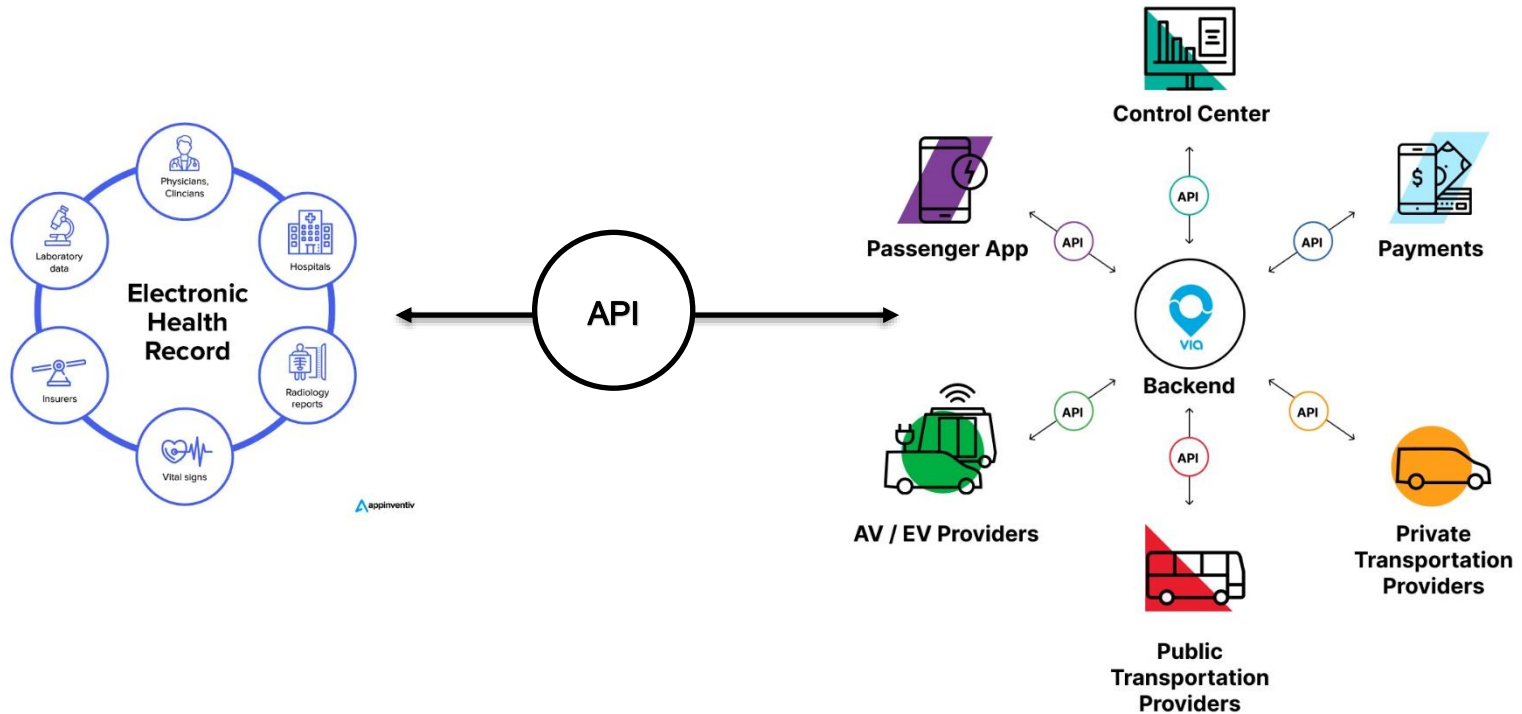
Source: HIRTA

Via System Overview (1/2)



Source: Via

Via System Overview (2/2)

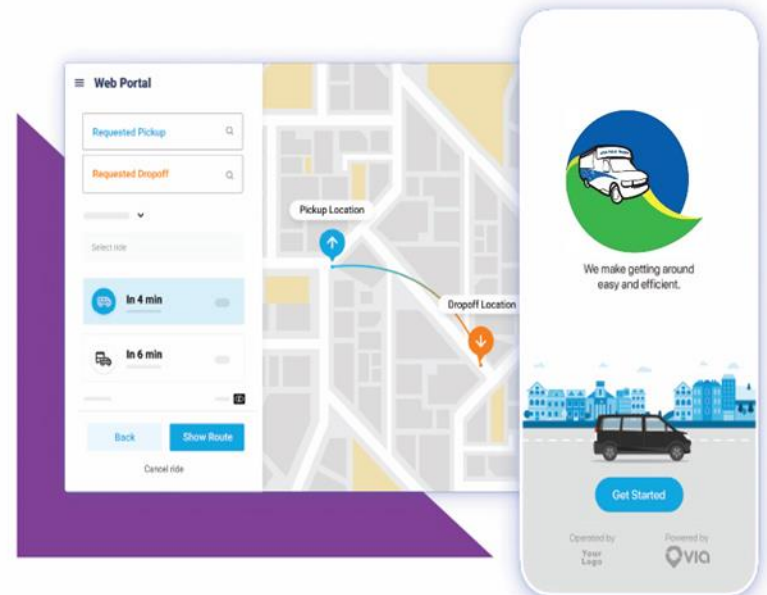


Appinventiv

Source: Via

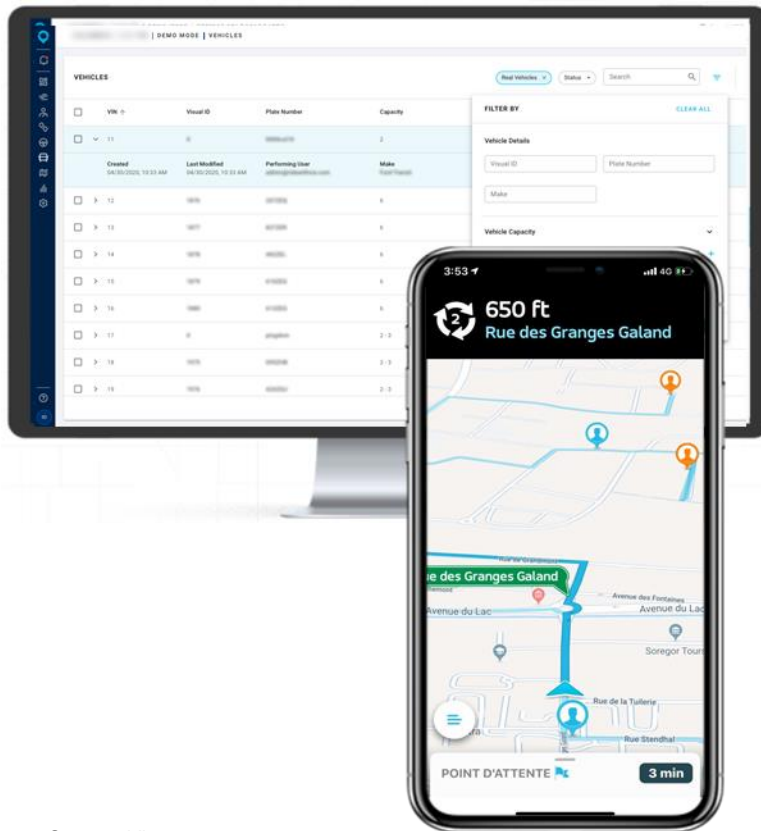
Rider Application

- The rider app (and complimentary webapp) bring the “on-demand” experience to the rider’s fingertips by allowing them to book and manage their rides and accounts on their schedule. It then feeds that information to the operations system in real time. Riders can receive automated communications via rider app (or related channels) to confirm transport pick up times and other request details.
- App design improves accessibility, reduces friction for riders, and leads to higher usage and a better rider experience by bringing service design to life.



Source: Via

Driver Application

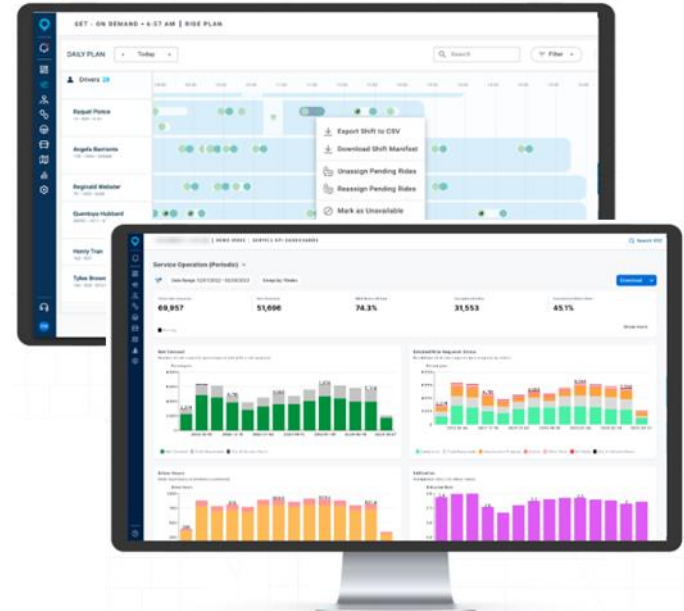


Source: Via

- The Via driver solution features turn-by-turn routing, and view into daily driver tasks and manifest to share important shift details while being hands free.
- The application is configurable to allow drivers to stay in contact with riders and dispatchers over the course of their day.
- Operations staff can make changes to the backend in real-time (dealing with live ops changes) that feed directly into the driver app without interference.

Via Operations Center

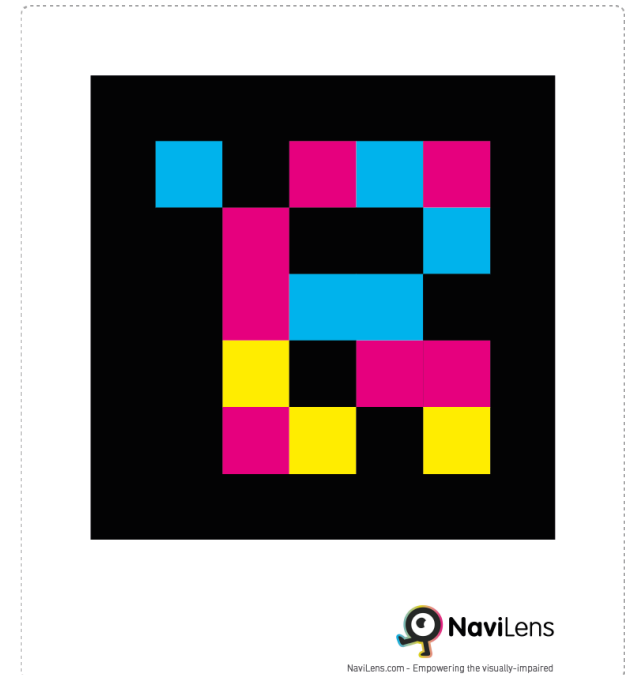
- The VOC is the central dispatching, operations, and reporting module, providing partners with a one-stop shop for service management across modes with streamlined booking, service monitoring, schedule management, and communication.
- The VOC also provides the central booking portal for dispatchers to manage rider accounts and book/edit ride requests.
- Staff can manage live operations through the VOC to take actions (i.e. ride reassignment, updating shifts) and follow the day's shift plan optimized by ViaAlgo.



Source: Via

Wayfinding Technology – NaviLens (1/2)

- Technology and infrastructure used to provide outdoor wayfinding, indoor positioning, orientation and translation on request to Travelers
- Travelers will be able to use any camera-enabled smart device to scan “QR” codes using the Navilens or Navilens Go app
- Some static codes are free and can be downloaded online, others can be more dynamic
 - Central software that provides capability to change and update dynamic codes

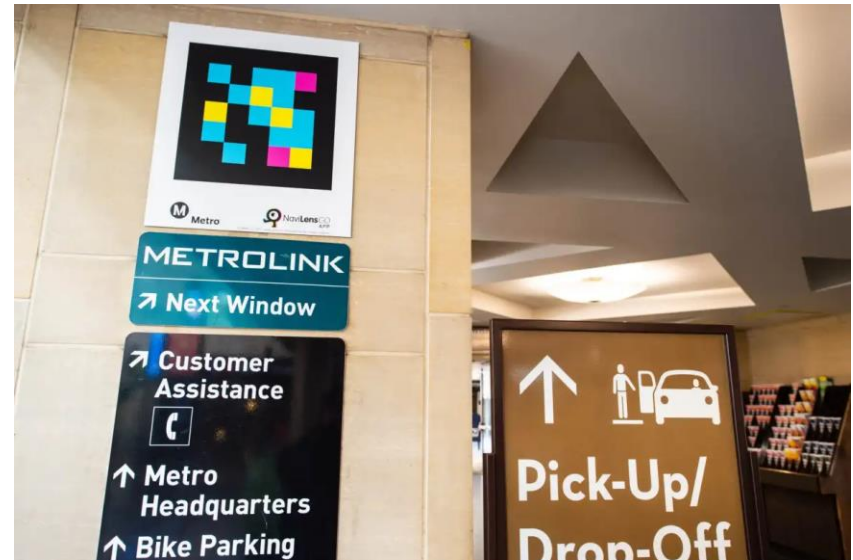


Source: NaviLens

Wayfinding Technology – NaviLens (2/2)

Use Cases:

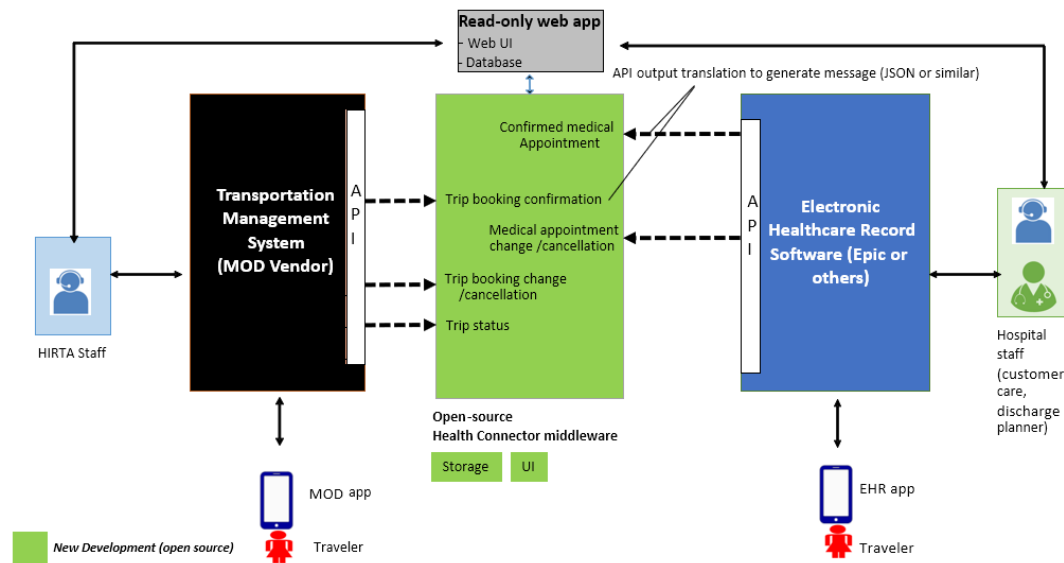
- Translation of signs
- Navigation to Check-In Desk
- Amending Directions
- Navigation to a Pickup Location
- Navigation to a Specific Vehicle



Source: NaviLens

MOD-EHR Middleware

- The MOD-EHR Middleware is an open-source product that will allow data exchange between Via and an EHR system (likely Epic)
- A read-only webpage will use the data available through the middleware to provide relevant information in real-time to HIRTA staff and healthcare partner staff. Any confidential or private information will be masked/anonymized to comply with the Health Insurance Portability and Accountability Act of 1996(HIPAA) and protect Personally Identifiable Information (PII).



Source: HIRTA

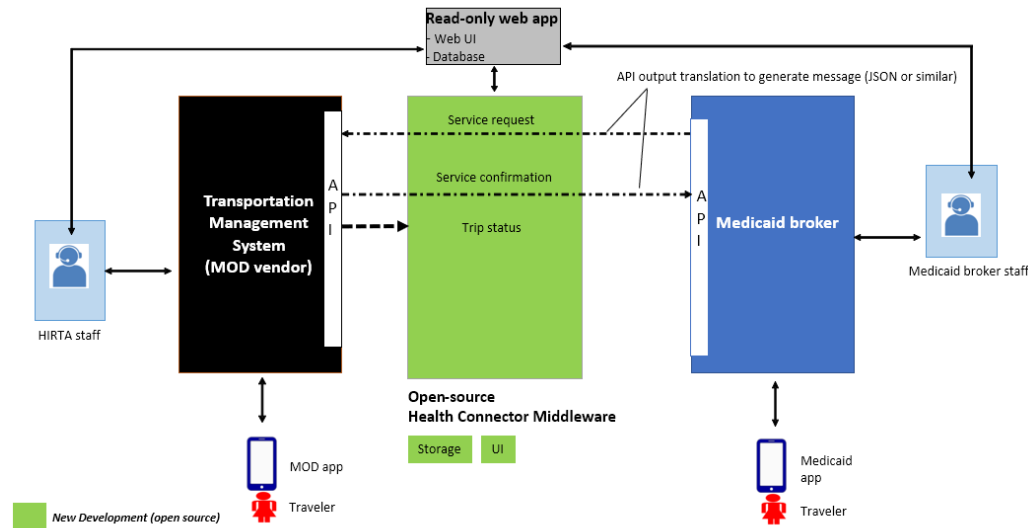
MOD-EHR Web Application

Customer	Med Appointment		Transportation Status			
	Time	Location	Status	Drop Off Time	Drop Off Spot	Driver/Vehicle
John T.	10:00 Am	123 Main St	Scheduled	9:50 AM	DCH A2	TBD
Meg. A.	2:15 PM	123 MLK Blvd	Confirmed	9:55 AM	UPH A1	Driver 3/ 1751
Paul. T.	4:15 PM	123 MLK Blvd	Not Requested	TBD	TBD	TBD

Source: HIRTA

MOD-Medicaid Middleware

- Access2Care uses its own proprietary application to schedule Medicaid-funded trips for its customers
 - Access2Care requires that all trips that are Medicaid-eligible are booked through their system
 - Once the trips are scheduled, Access2Care makes trips available to service providers such as HIRTA for service delivery 24 hours in advance
- HIRTA dispatch staff check on those trips daily and enter them into the Via system and manages them
 - Once the trips are completed, HIRTA enters the details in the online portal provided by Access2Care
 - Medicaid trips make up about 20% of HIRTA's total trip volume.



Source: HIRTA

MOD-Medicaid Web Application

Customer	Location		Transportation Status			
	Pickup	Dropoff	Status	Drop Off Time	Drop Off Spot	Driver/Vehicle
John T.	Loc 1	Loc 2	Scheduled	9:50 AM	DCH A2	TBD
Meg. A.	Loc x	Loc y	Confirmed	9:55 AM	UPH A1	Driver 3/ 1751
Paul. T.			TBD	TBD	TBD	TBD

Source: HIRTA

Supporting Systems

- **Eligibility Management System**

- Refers to funding sources that can be applied to Health Connector rides.

- **Medicaid Broker System**

- Refers to Access2Care itself which has independent resources and application

- **Third-Party Systems**

- Refers to support systems for vehicles/drivers used by Health Connector that are not operated by HIRTA (i.e., TNC central operations)

- **EHR Medical Record System**

- Refers to the system(s) used by partner hospitals and clinics for booking medical appointments and maintaining their appointments, including discharge and any subsequent referral activities

Stakeholder Q&A

- Please keep your phone muted
- Please use chat box to ask questions
- Questions will be answered in the order in which they were received

Stay Connected

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