



U.S. Department of Transportation

COMPLETE TRIP

ITS4US

The logo for ITS4US, where the number '4' is stylized as a blue and white grid with a yellow dashed line path and red location pins at the top and bottom.

Heart of Iowa Regional Transit Agency (HIRTA)
Phase 1 Concept of Operations Webinar

July 21, 2021

Agenda

■ Purpose of this Webinar

- To share the Concept Development Activities from (*HIRTA*) with the stakeholders of the project.

■ Webinar Content

- Complete Trip – ITS4US Deployment Program Overview (*Fred Bowers*)
- Site Orientation & Key Challenges (*Brooke Ramsey*)
- Stakeholder Engagement Efforts (*Steve Wilks*)
- Deployment Concept Overview (*Santosh Mishra*)
- Stakeholder Q&A
- How to Stay Connected (*Fred Bowers*)

■ 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

Brief Program Overview

Fred Bowers, FHWA

Complete Trip - ITS4US Deployment Program

- A USDOT Multimodal Deployment effort, led by ITSJPO 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***

Program Goals



Spur high-impact integrated Complete Trip deployments nationwide



Identify needs and challenges by populations



Develop and deploy mobility solutions that meet user needs

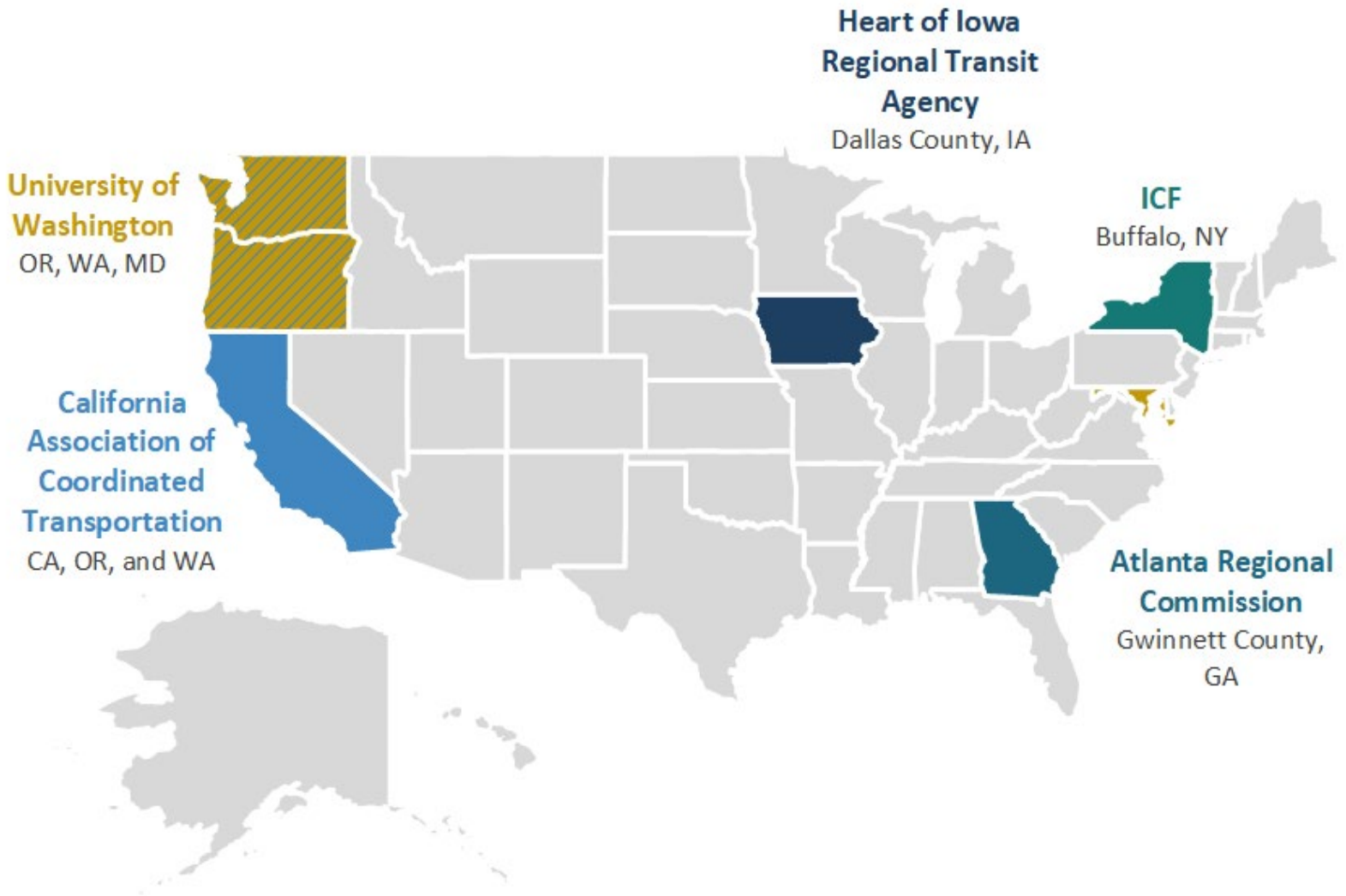


Measure impact of integrated deployments

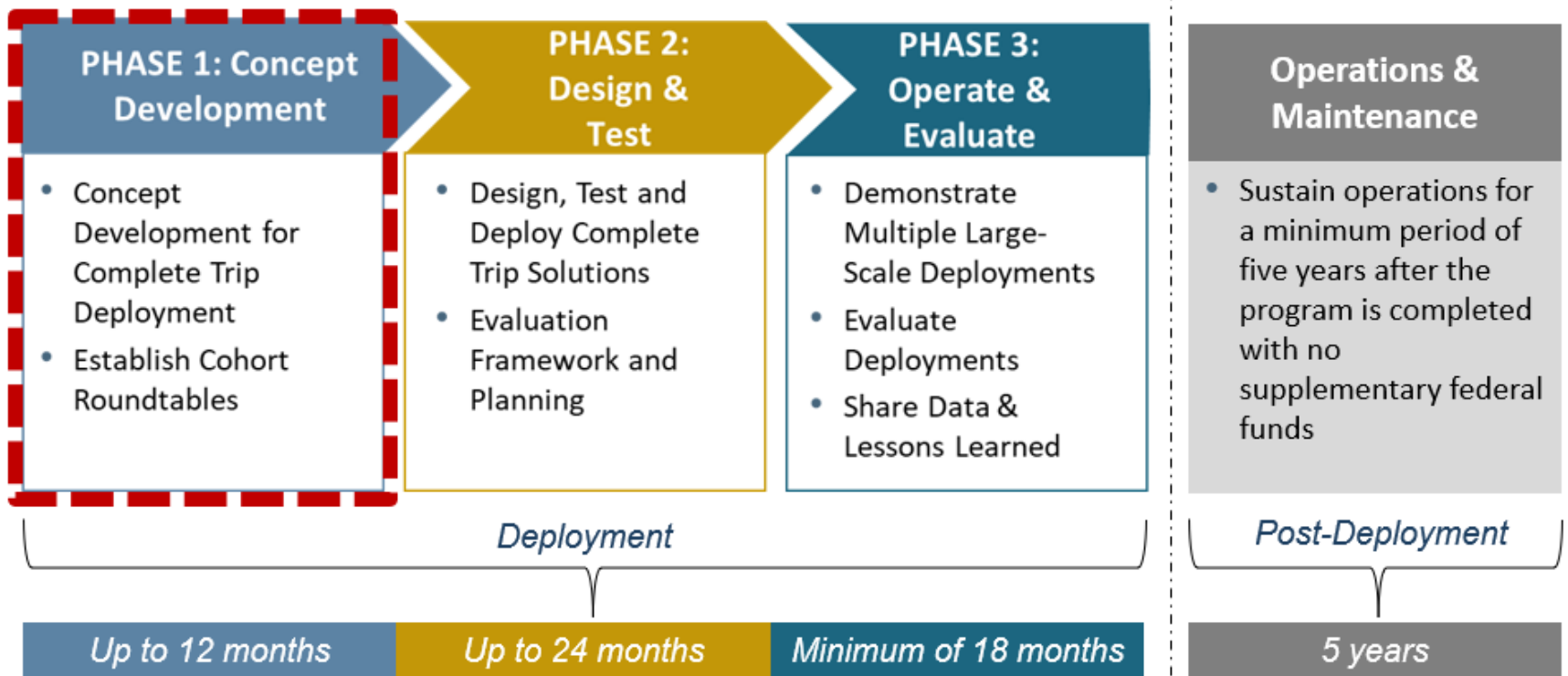


Identify replicable solutions and disseminate lessons learned

Complete Trip Phase 1 Awardees



Deployment Phases

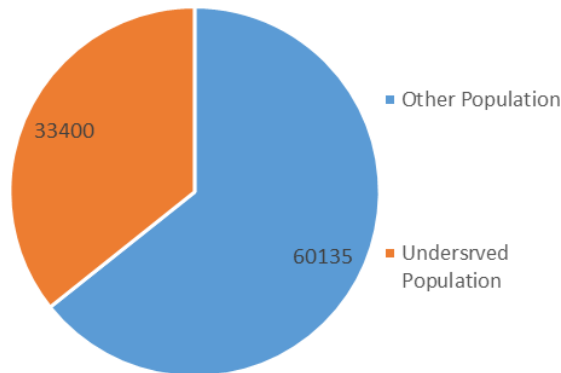


Site Orientation & Key Challenges

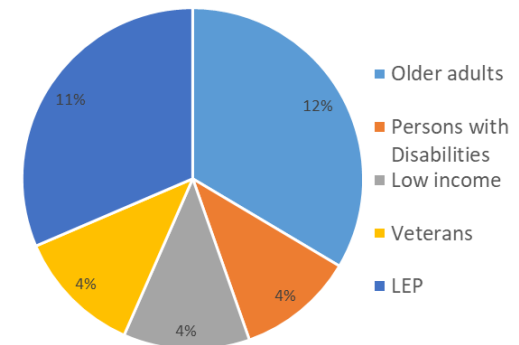
Brooke Ramsey, Project Management Lead

HIRTA and Dallas County Overview

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



Population Breakdown in Dallas County (Source: Census 2019)

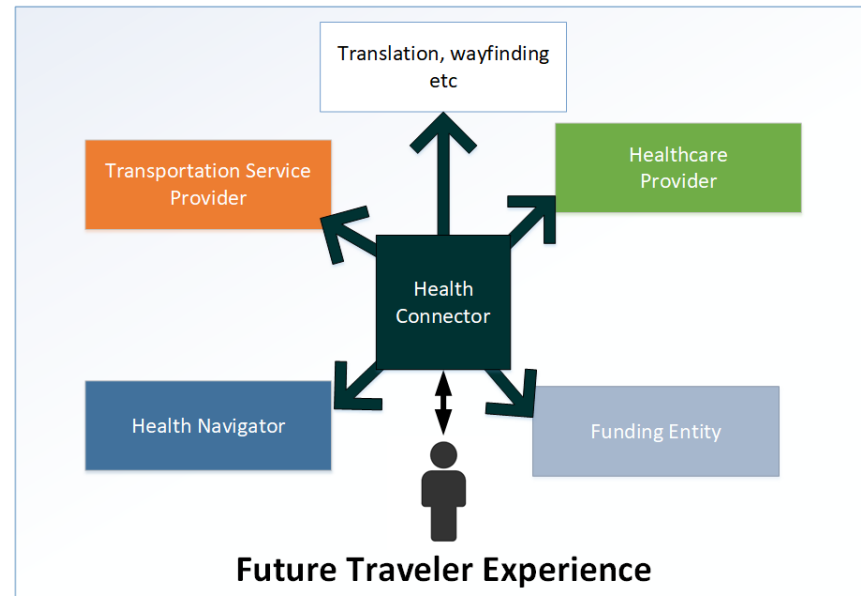
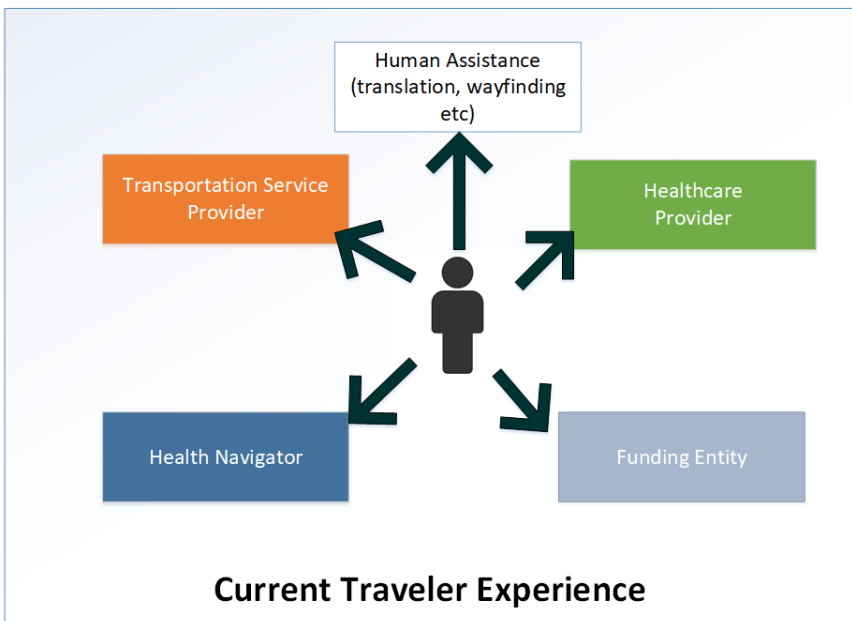


Underserved Population (Total: 33,500) Share in Dallas County (Source: Census 2019)

Underserved Group Challenges

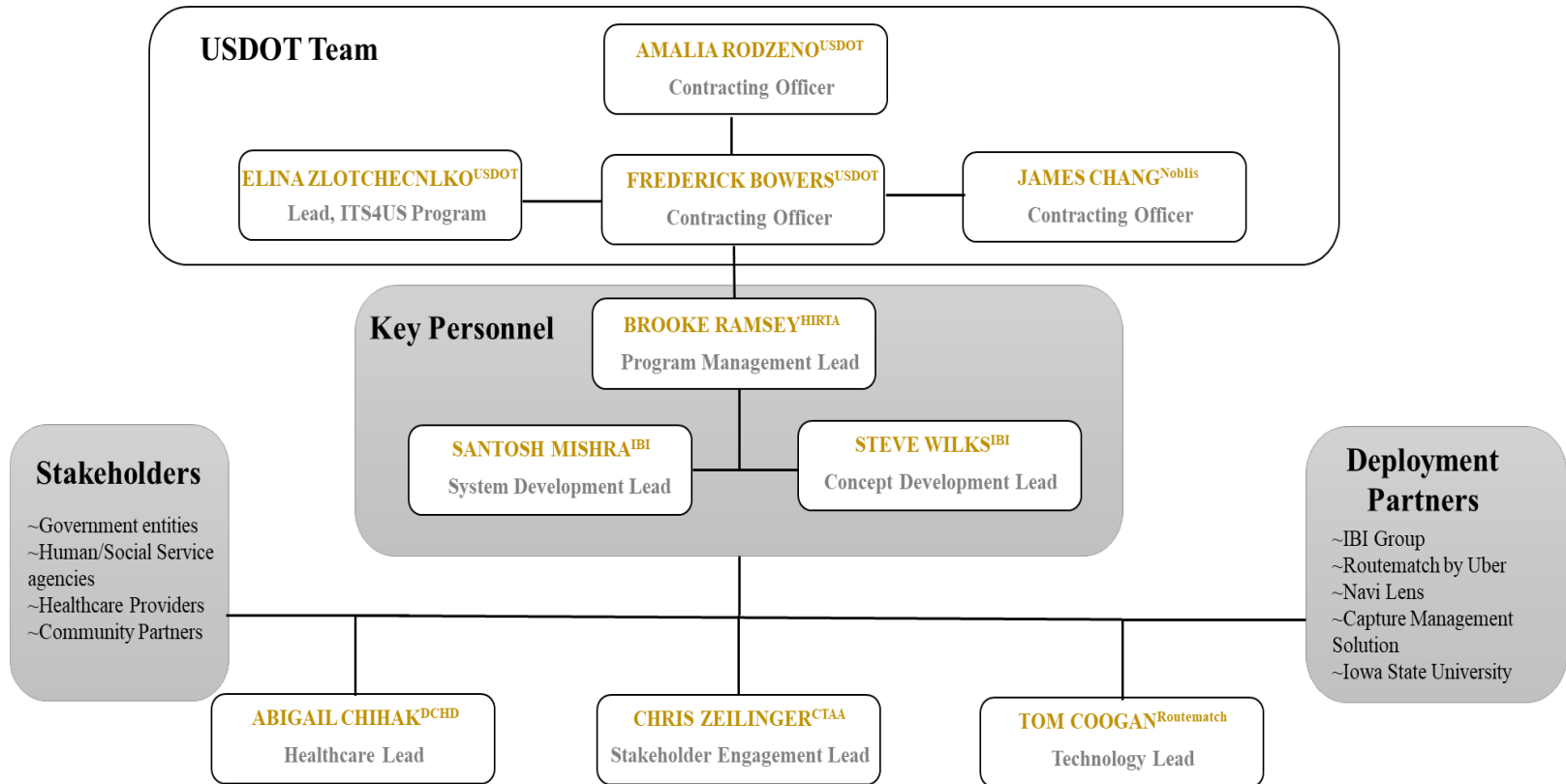
Population Group	Challenges
Persons with Disabilities	(1) Limited wayfinding services to the transit vehicle, into the healthcare facility, and to their specific appointment location; (2) Smart device accommodations for blind and deaf/hard of hearing persons; (3) Smart device – user-based settings for ease of use and services preferences;
Older Adults	(1) Smart device accessibility - larger screen setting; user-based settings for ease of use and services preferences; (2) Telephone number to call for services; (3) Maintaining independence; (4) Solution/service ease of use
Low Income	(1) Contactless payments: for unbanked/underbanked customers; (2) Alternate mobility services only option given limited number of personal vehicles per household.
Rural	(1) Limited access to healthcare appointments due to long distance travel; (2) Challenges in coordinating appointment times with availability of transportation; (3) Cost effective transportation solutions; (4) Maintaining independence; (5) Solution/service ease of use; (6) Long distance travel may present stamina challenges.
Veterans	(1) Access to veterans' hospitals and other veteran support services; (2) Same challenges as all above subgroups.
Persons with LEP	(1) Support for Spanish and other languages; (2) Support to understand all services and technology system developed (e.g., HIRTA travel trainers, DCHD, etc.).

Justification for Change



Source: HIRTA Team

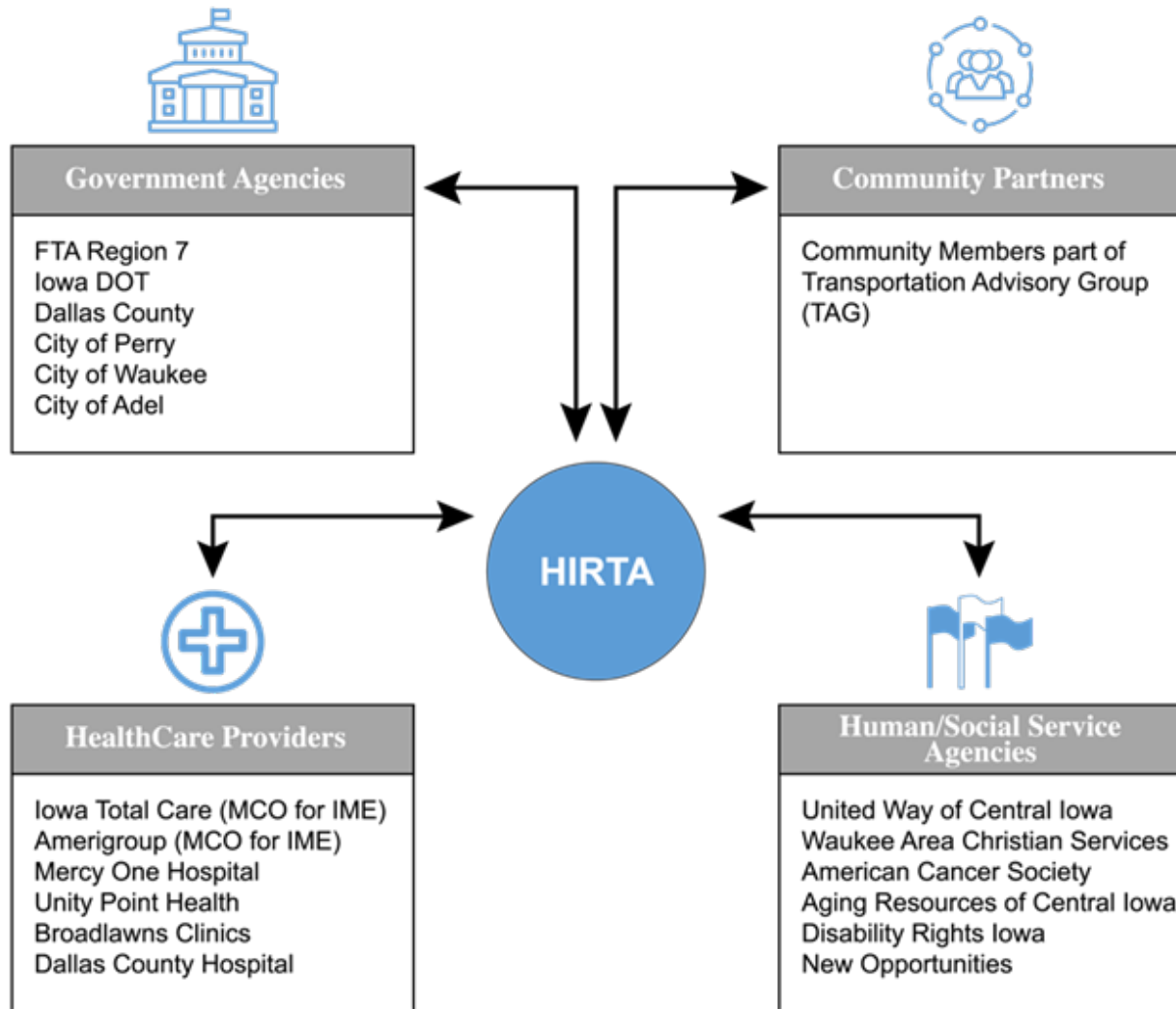
HIRTA Team



Note:
 HIRTA: Heart of Iowa Regional Transit Agency
 DCHD: Dallas County Health Department
 IBI: IBI Group
 CTAA: Community Transportation Association of America
 Routematch: Routematch by Uber

Source: HIRTA Team

Stakeholders



Source: HIRTA Team

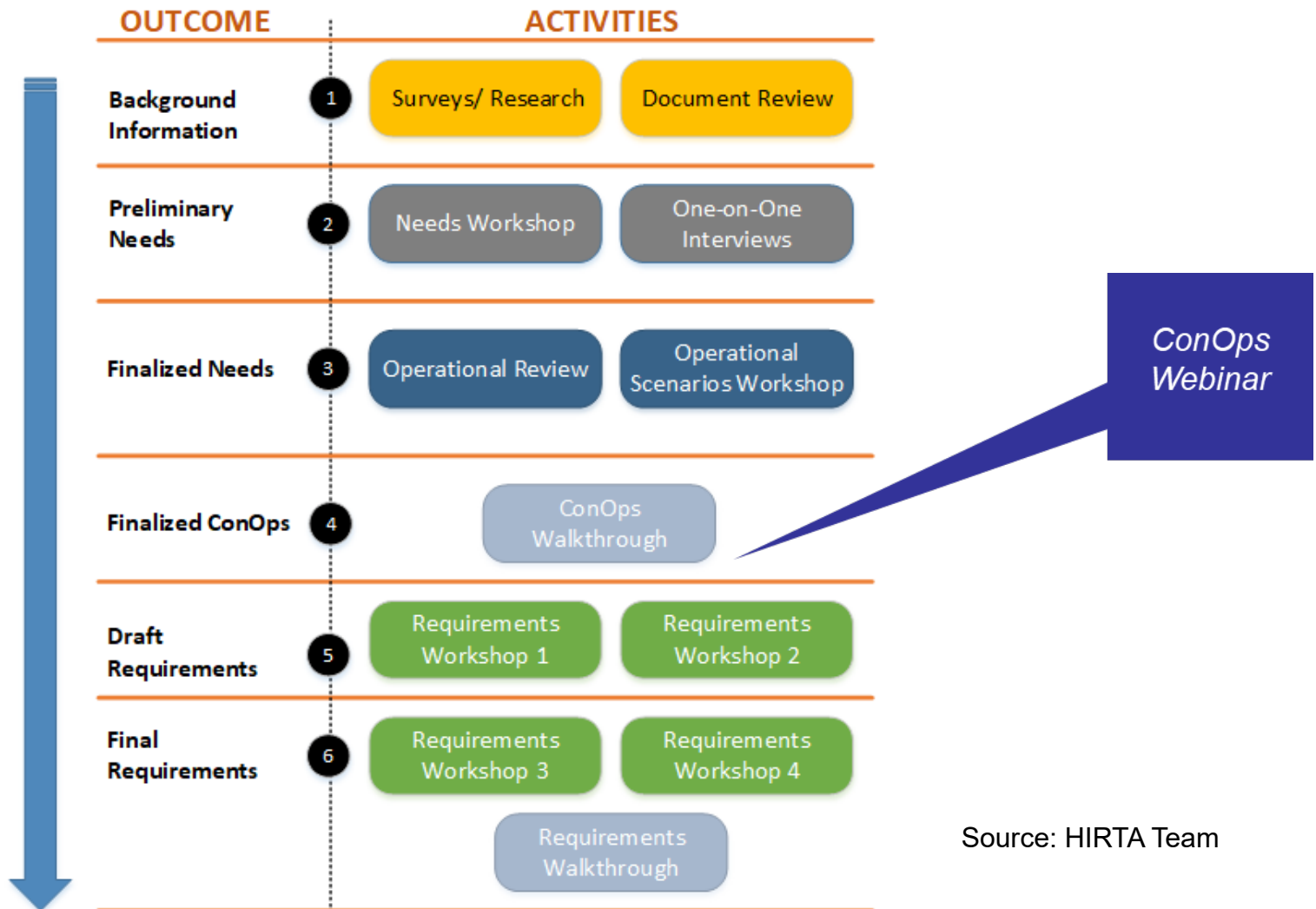
Introduction to Proposed Solution

Concept Video

Stakeholder Engagement Summary

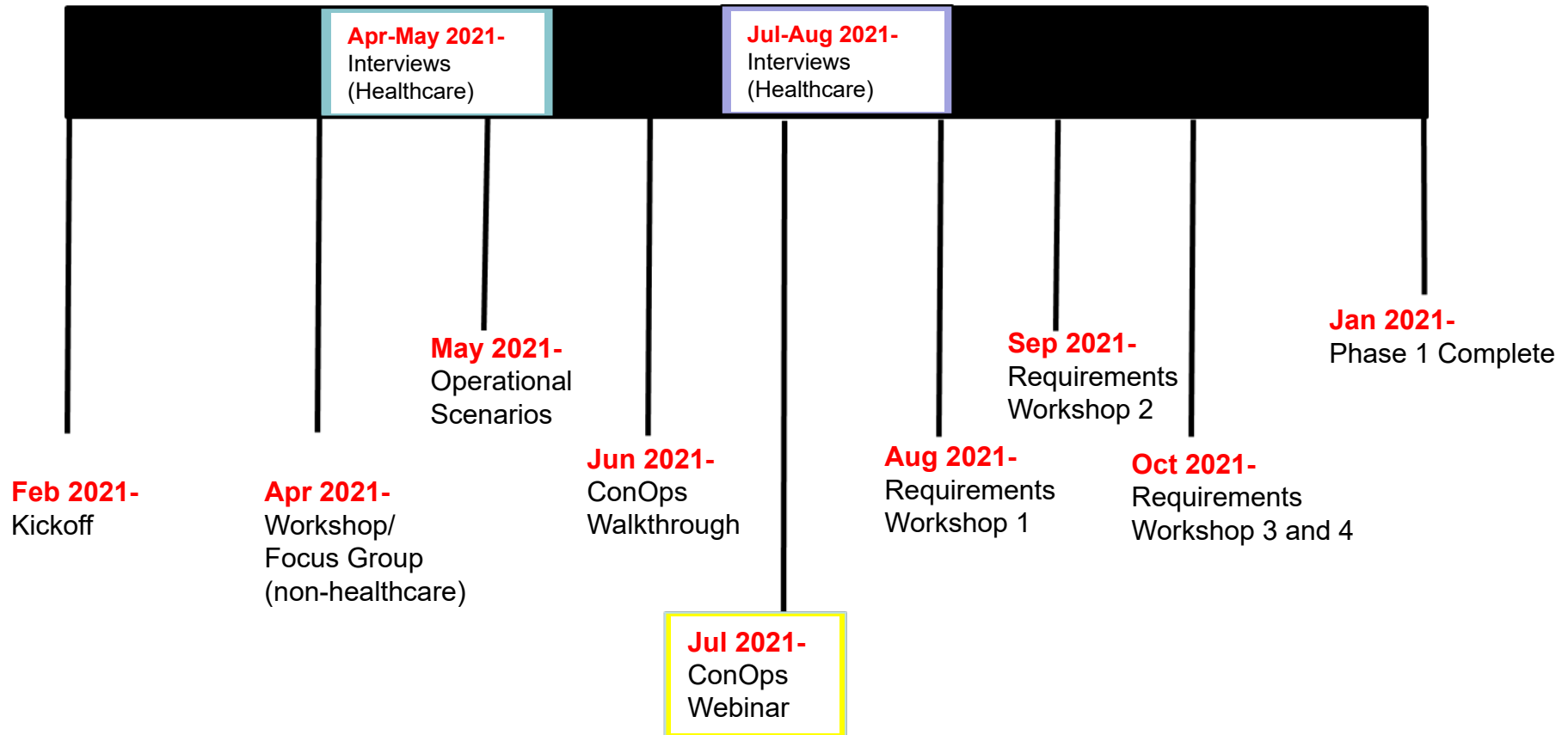
Steve Wilks, Concept Development Lead

Phase 1-Stakeholder Engagement



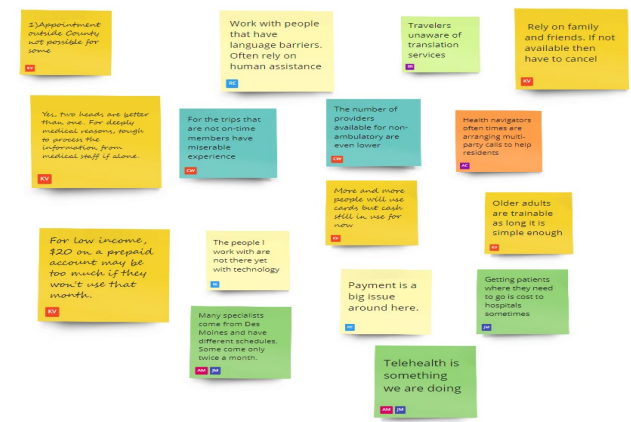
Source: HIRTA Team

Phase 1 -Engagement Timeline



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



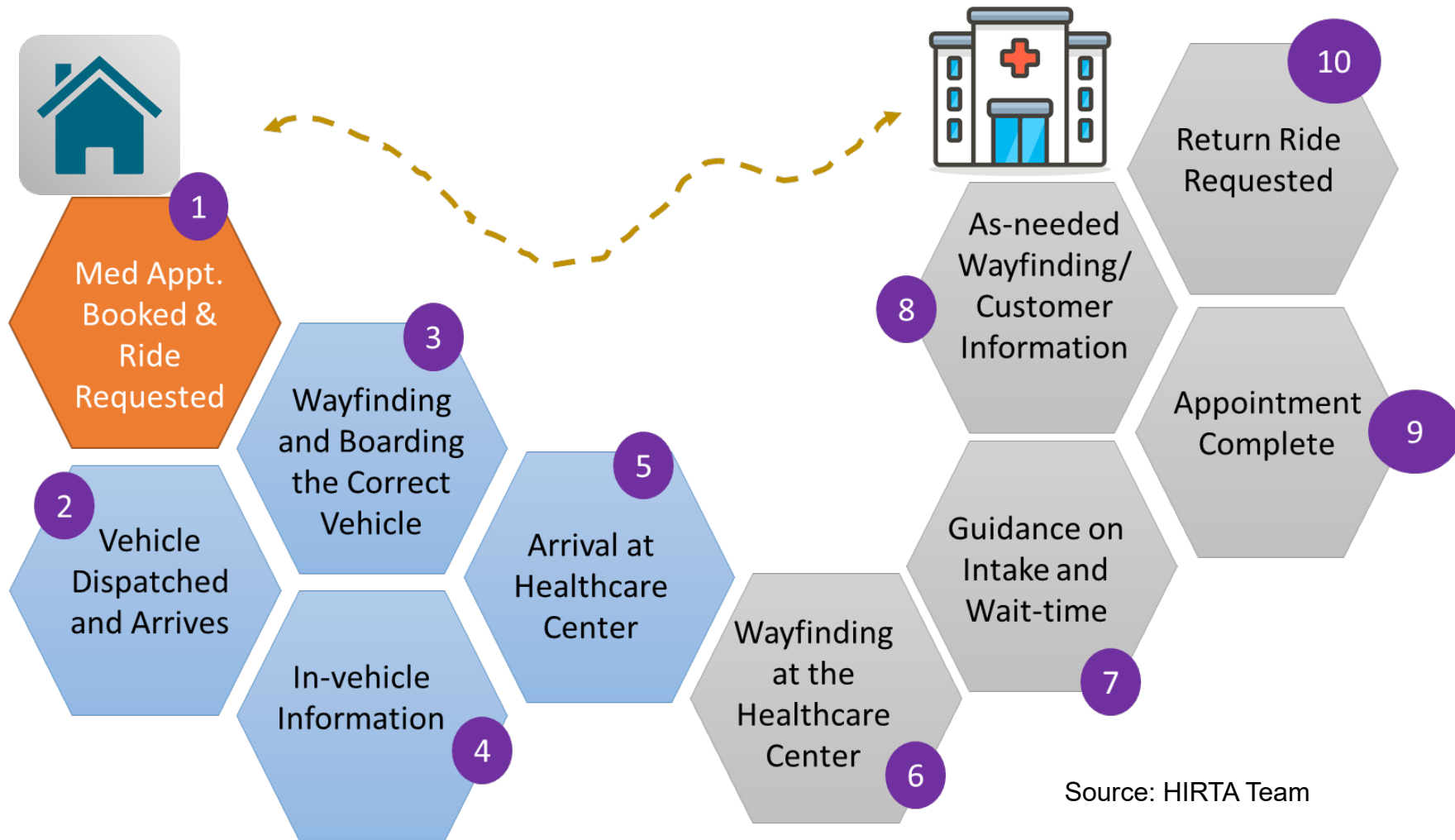
Stakeholder Input and ConOps

- User group definition
- User needs identification
- Prioritization of needs
- Operational scenarios/use cases
- Concept development- *system features, interfaces and data needs*
- Impacts on current operations/systems
- System performance management and measuring outcomes of the project

Deployment Concept Overview

Santosh Mishra, System Development Lead

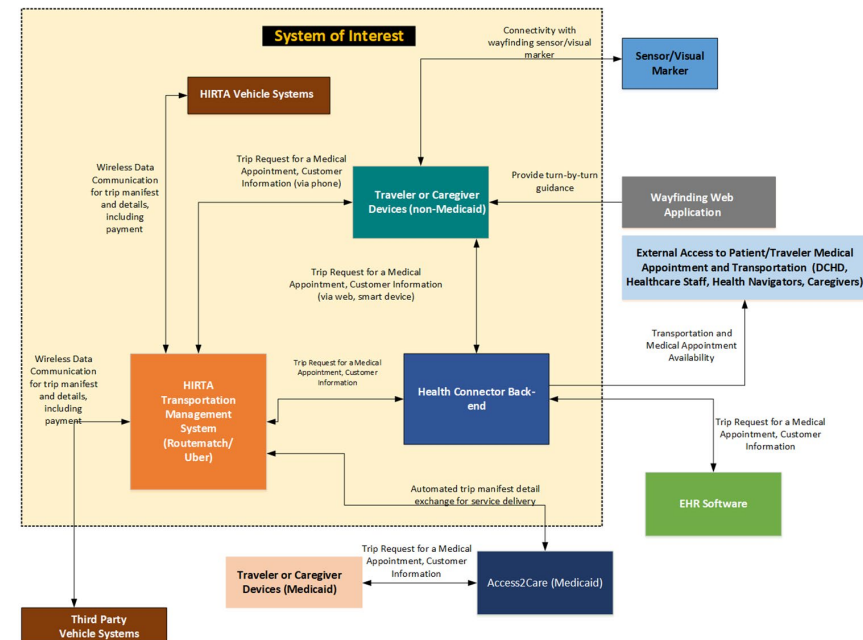
Health Connector Complete Trip Overview



Source: HIRTA Team

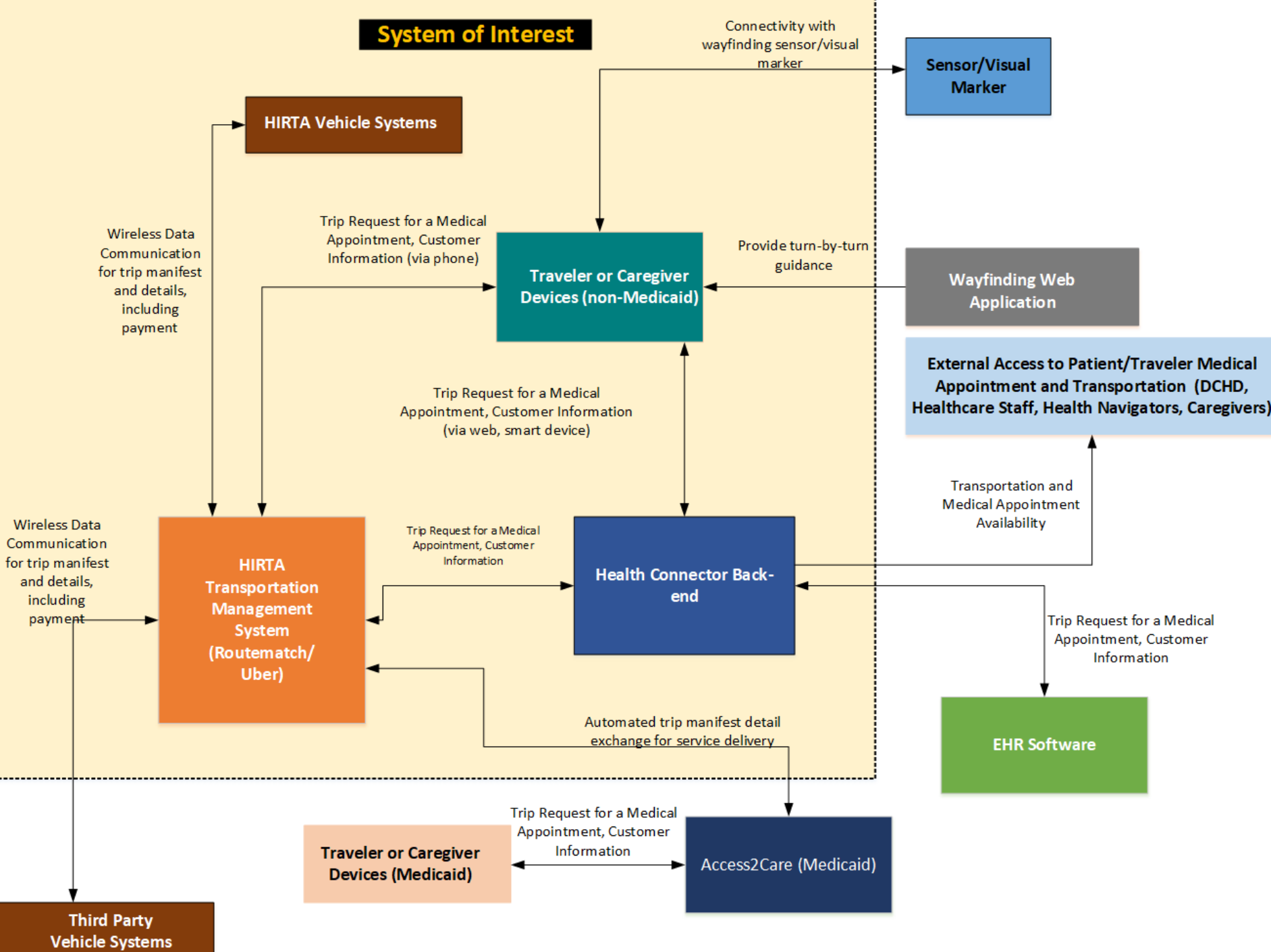
System Context Diagram

- Customer-facing tools (web/mobile, phone)
- Central transportation management software, on-board system
- Wayfinding subsystem
- Interfaces
 - Third-party service provider system
 - Hospital Electronic Health Record (EHR)
 - Access2Care Medicaid System
 - Access to authorized DCHD and information & referral personnel



Source: HIRTA Team (see next slide for larger image)

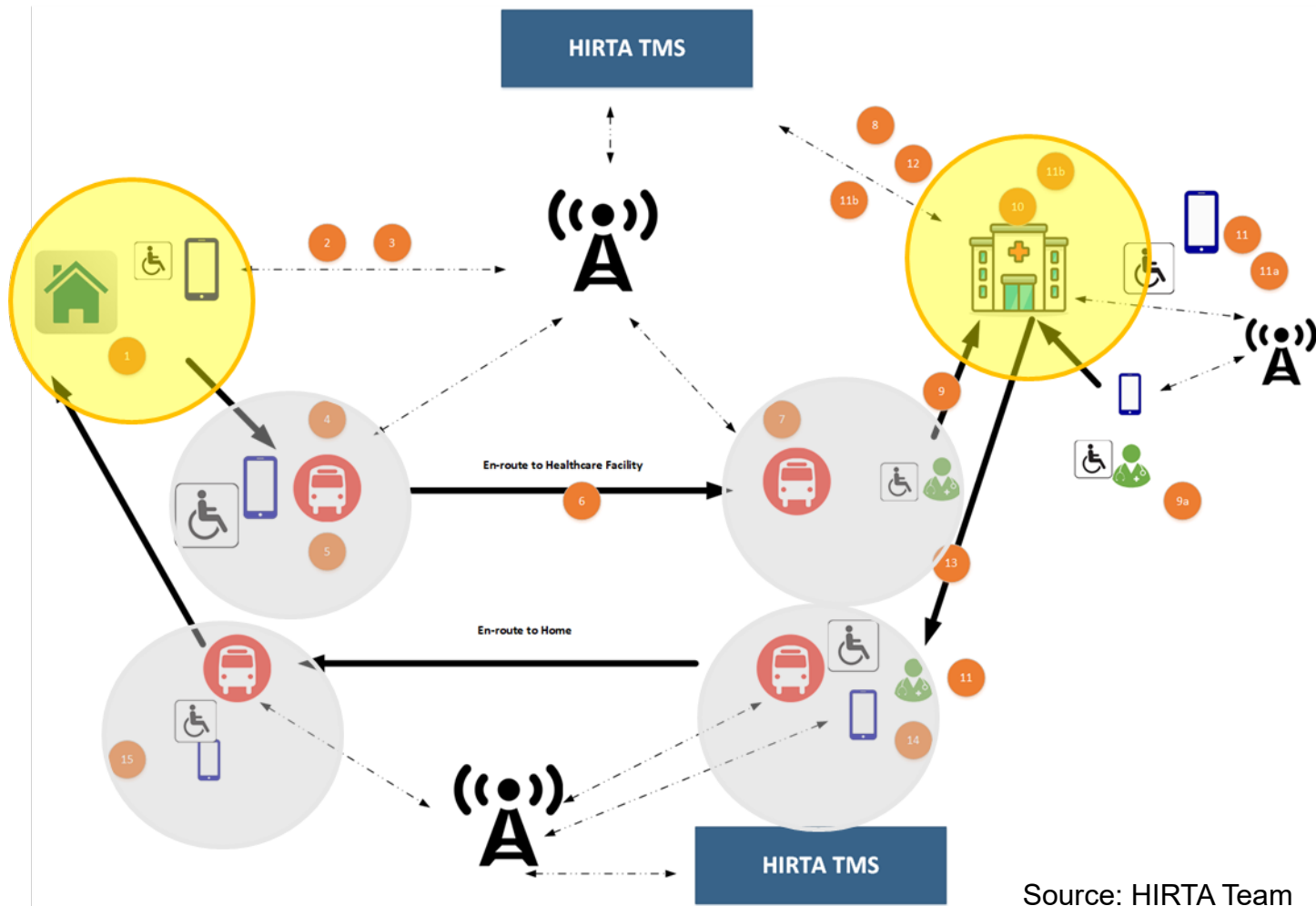
System of Interest



Sample Use Cases

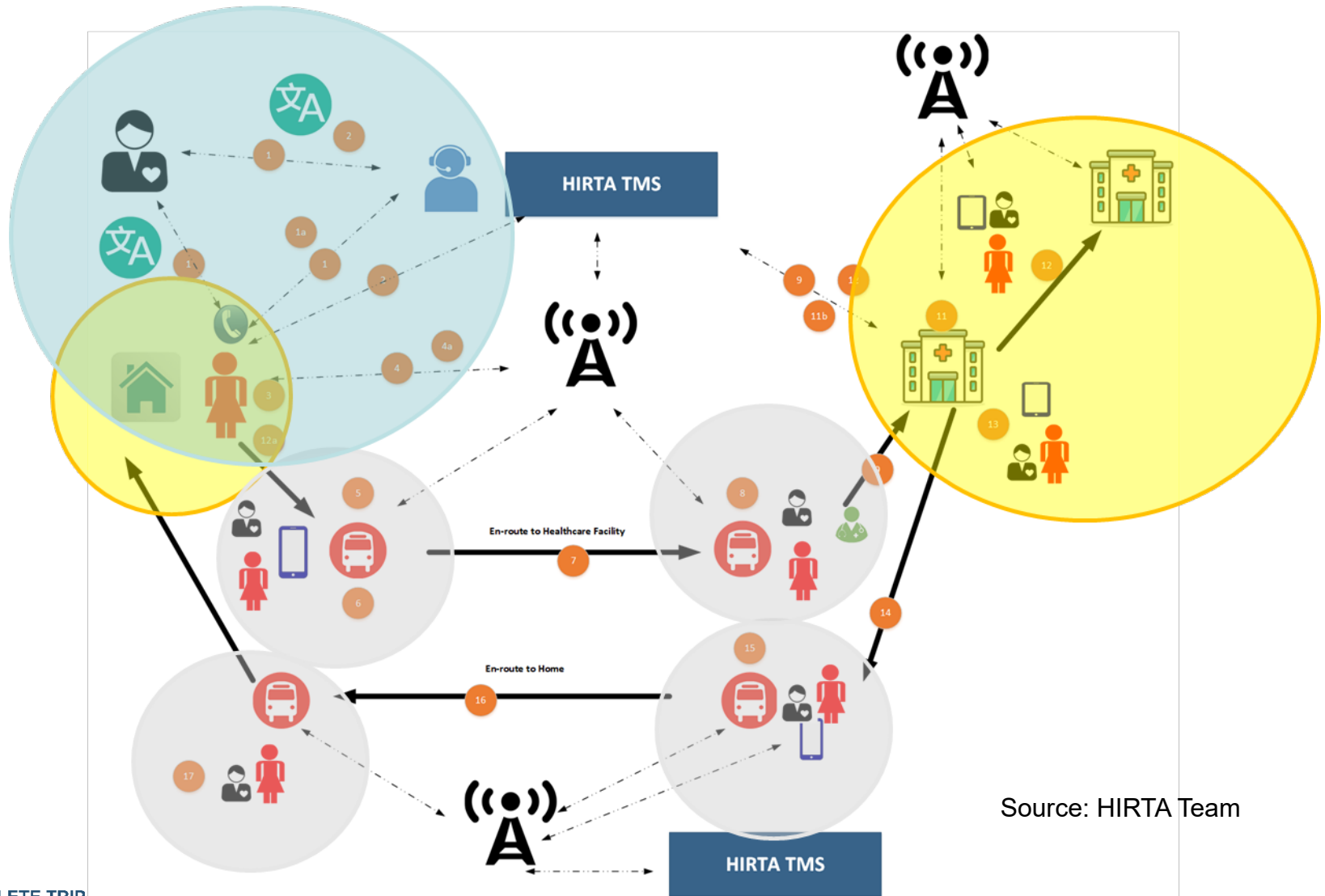
- **Scenario 1:** Person with disability looking for transportation for a recurring appointment.
- **Scenario 2:** Person with LEP looking for a prenatal appointment and will need transportation. It is recurring but not on a fixed schedule.
- **Scenario 3:** Traveler, a veteran, looking for preventative care appointment.
- **Scenario 4:** An older adult is approved to take Medicaid eligible trip but they would like family to accompany them so can be helped
- **Scenario 5:** A Traveler in rural area is looking for after hours appointment and third party service to be used

Use Case: Fixed Recurring Appointment



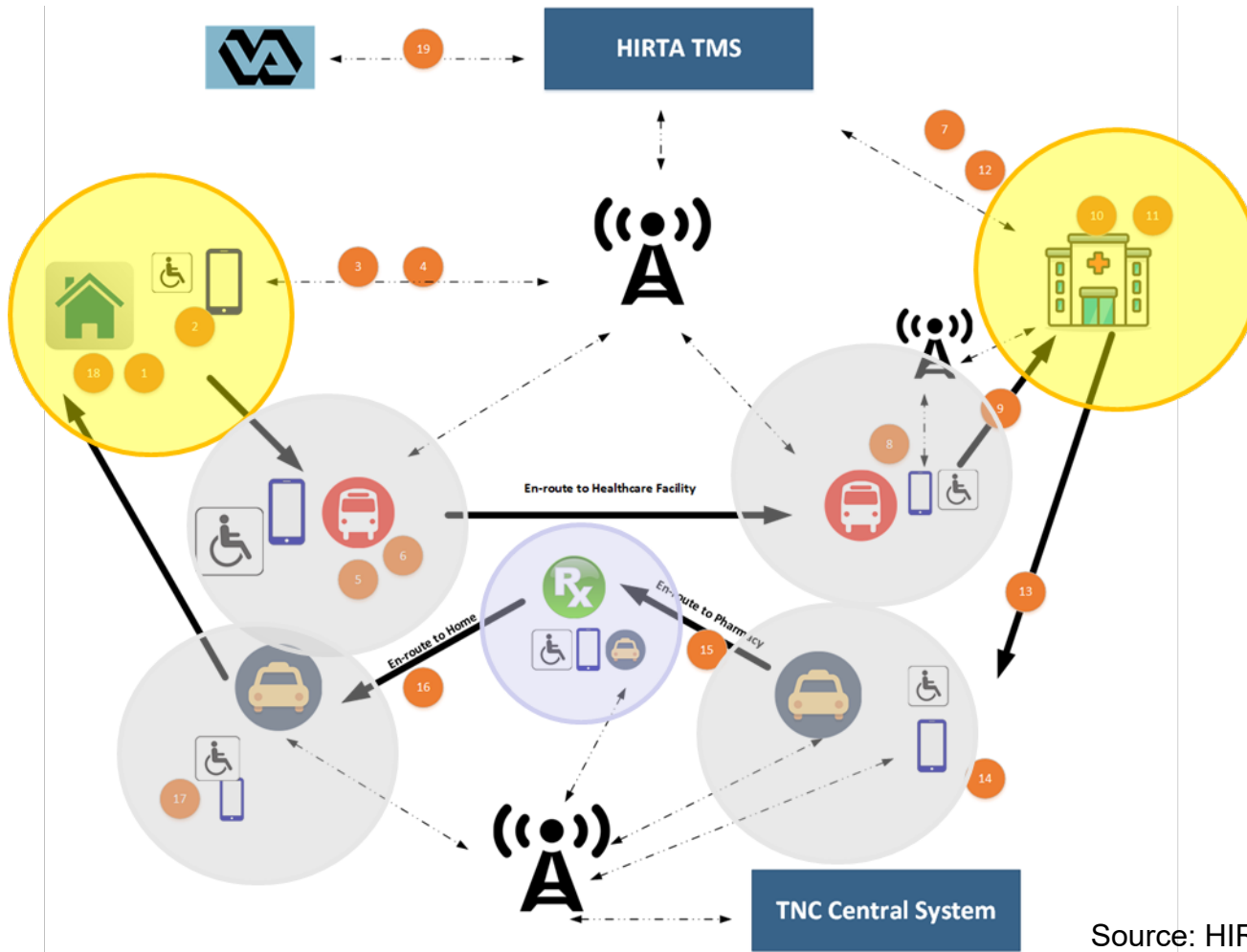
Source: HIRTA Team

Use Case: Irregular Recurring Appointment



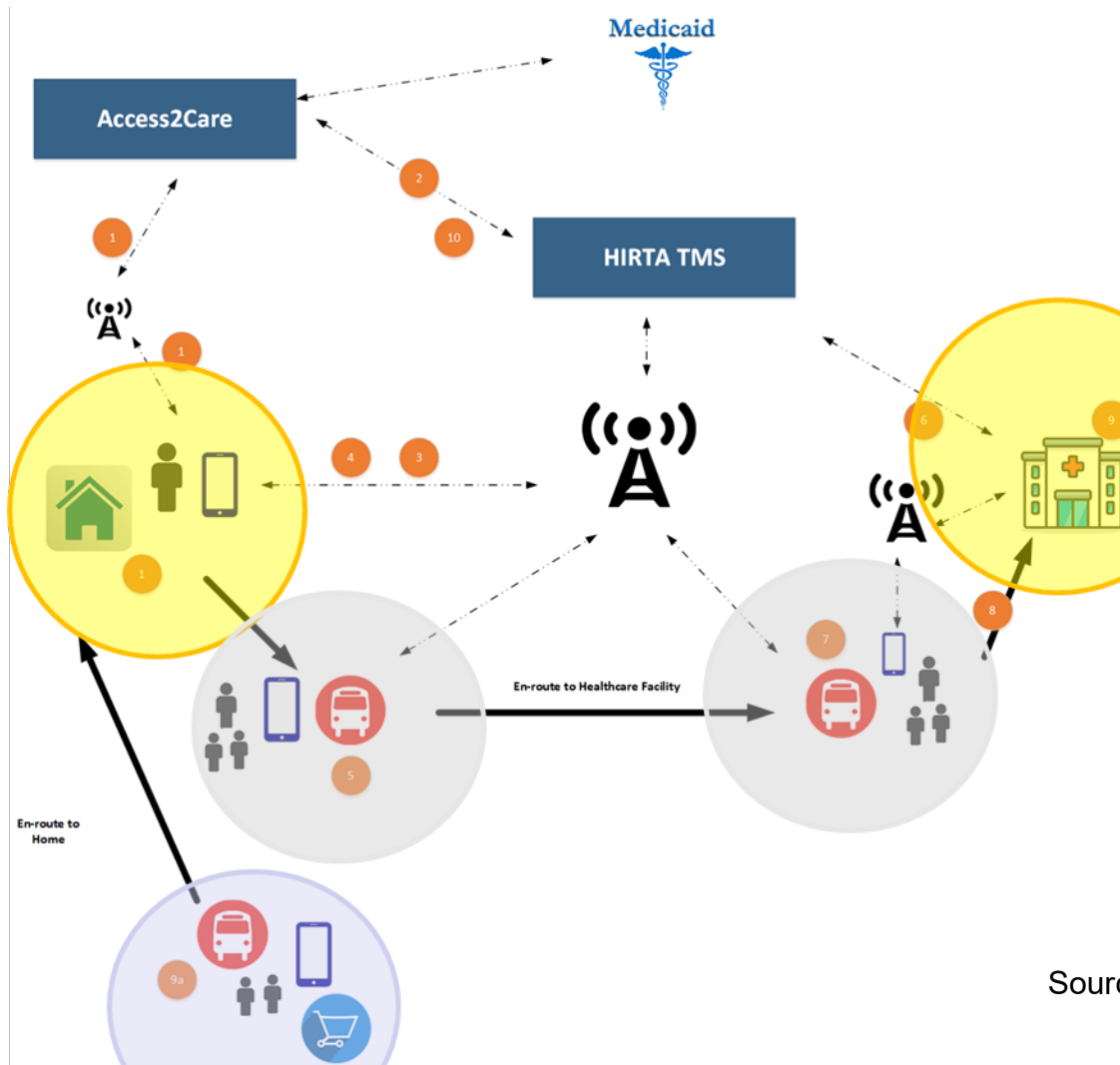
Source: HIRTA Team

Use Case: Preventive Care



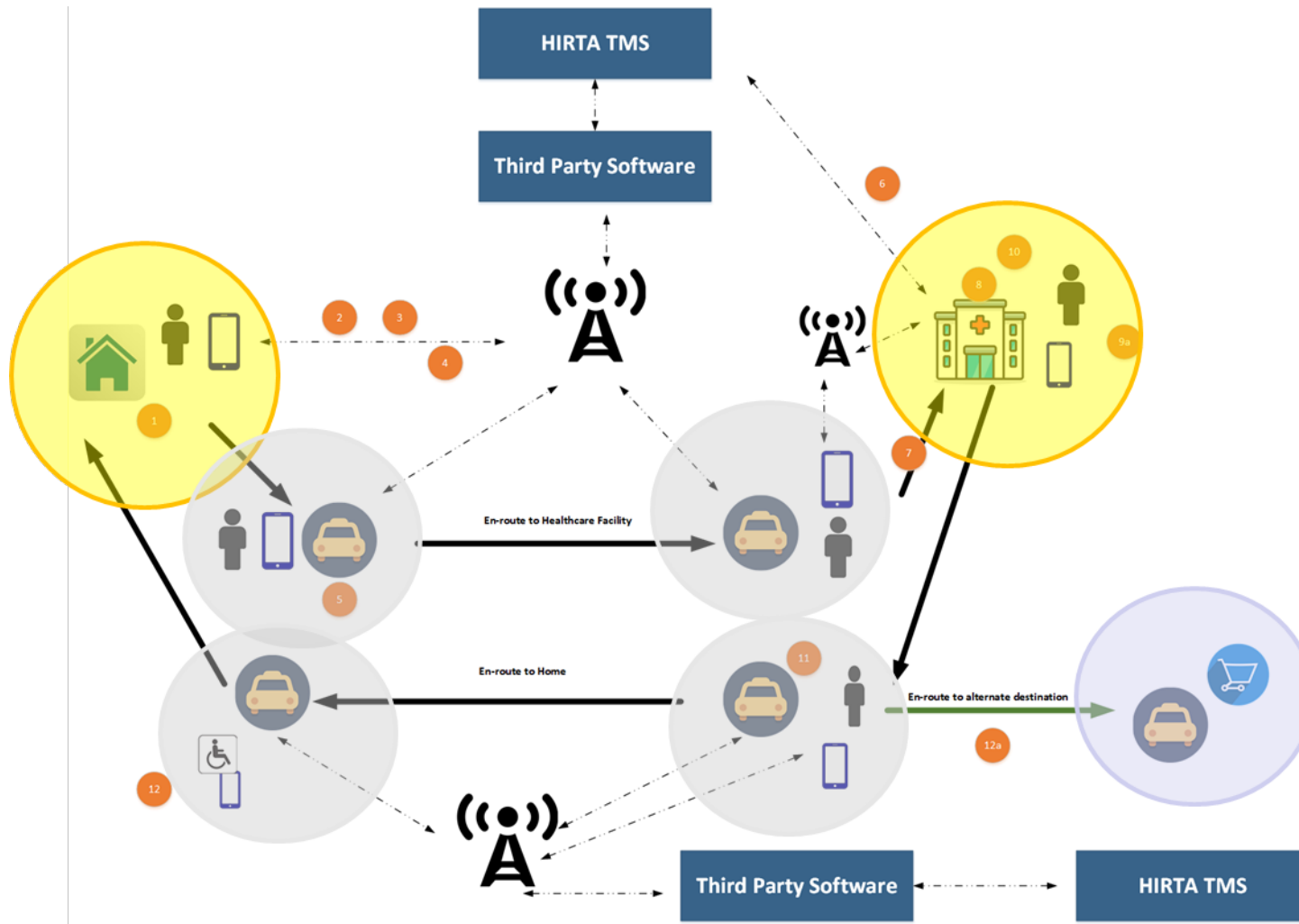
Source: HIRTA Team

Use Case: Medicaid Trip



Source: HIRTA Team

Use Case: After Hours Trips (HIRTA| NDSP)



Source: HIRTA Team

Stakeholder Q&A

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

Stay Connected

For more information please contact:

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Visit the Complete Trip - ITS4US Deployment Program Website and FAQs:
<https://its.dot.gov/its4us/>
https://www.its.dot.gov/its4us/its4us_faq.htm