

SAFE TRIPS IN A CONNECTED TRANSPORTATION NETWORK

Complete Trip - ITS4US Deployment



COMPLETE TRIP
ITS4US



September 2021

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

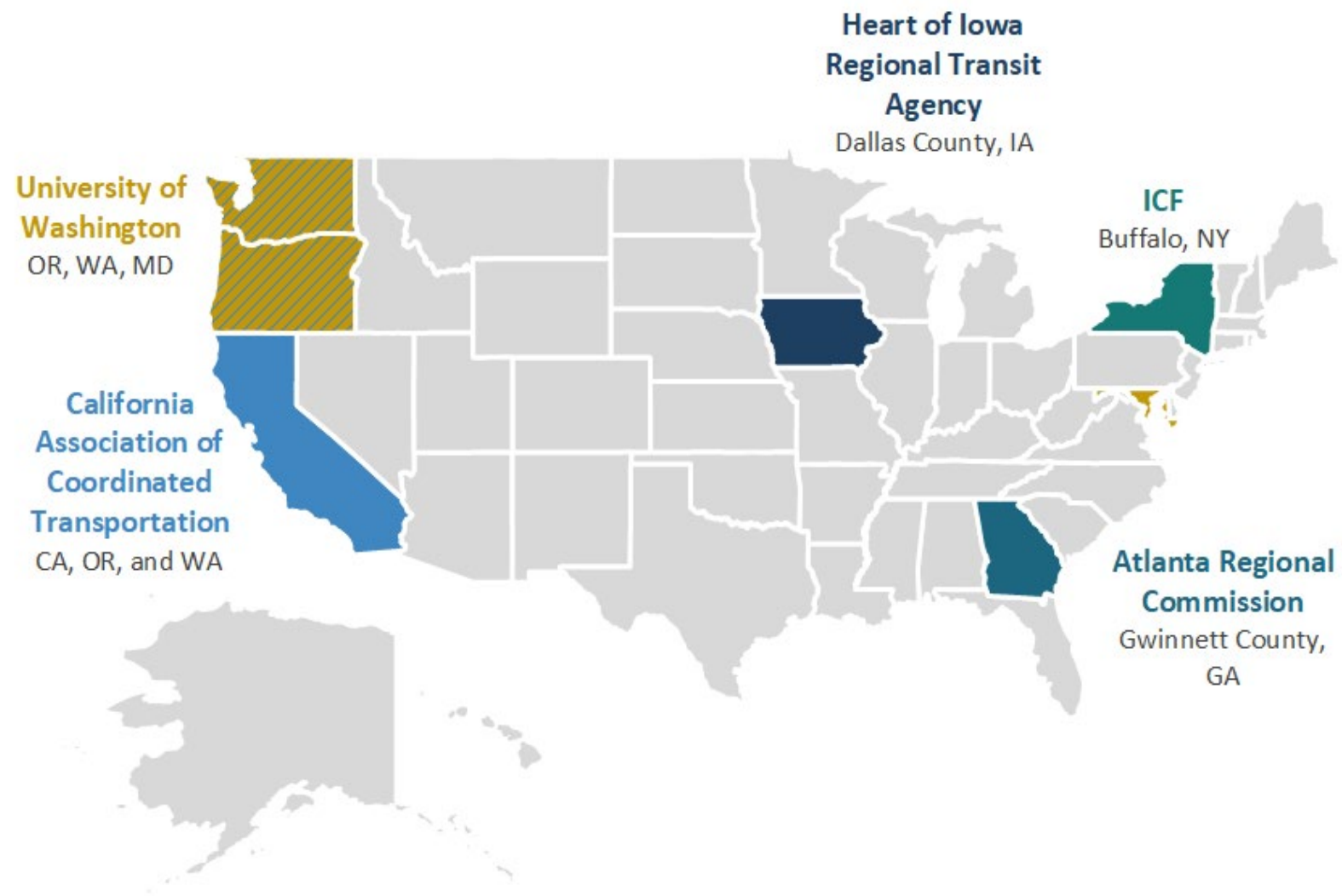


Measure impact of integrated deployments

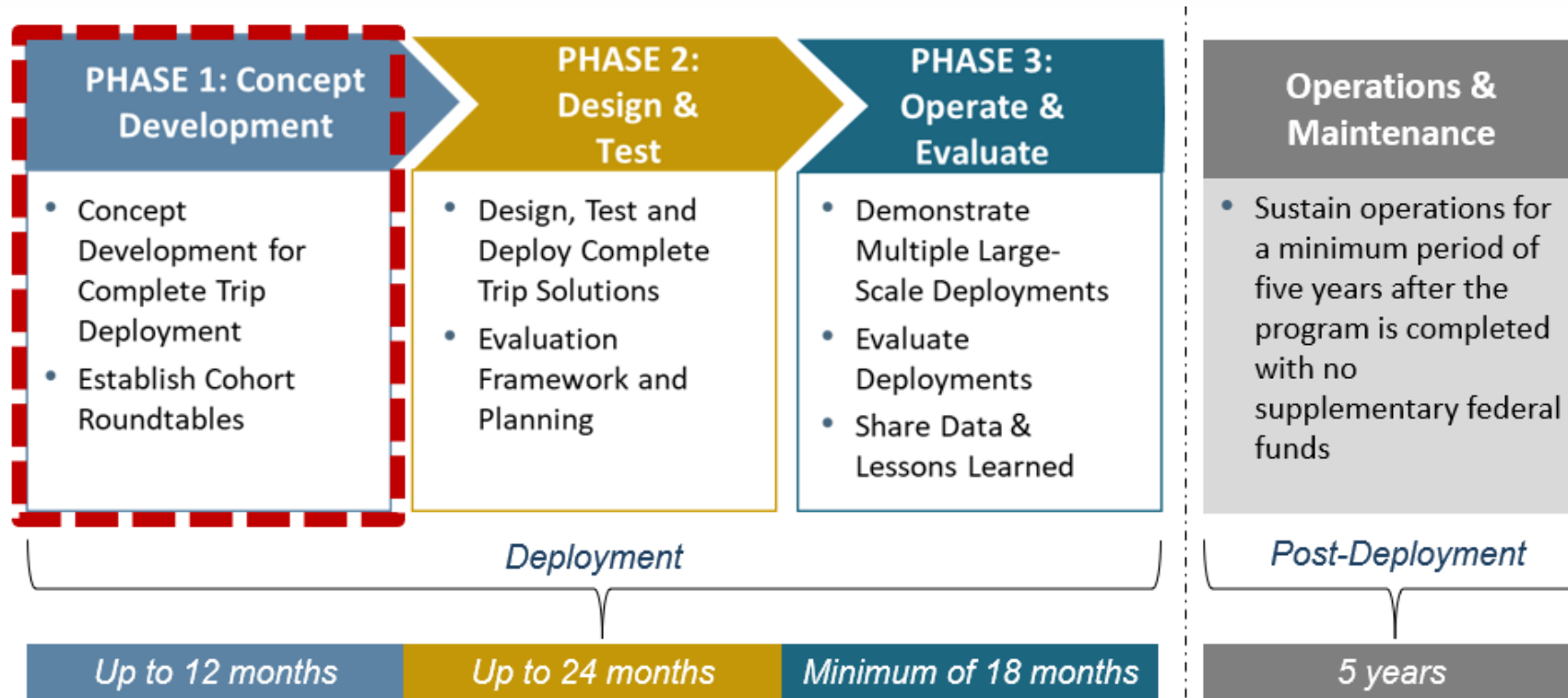


Identify replicable solutions and disseminate lessons learned

Complete Trip Phase 1 Awardees

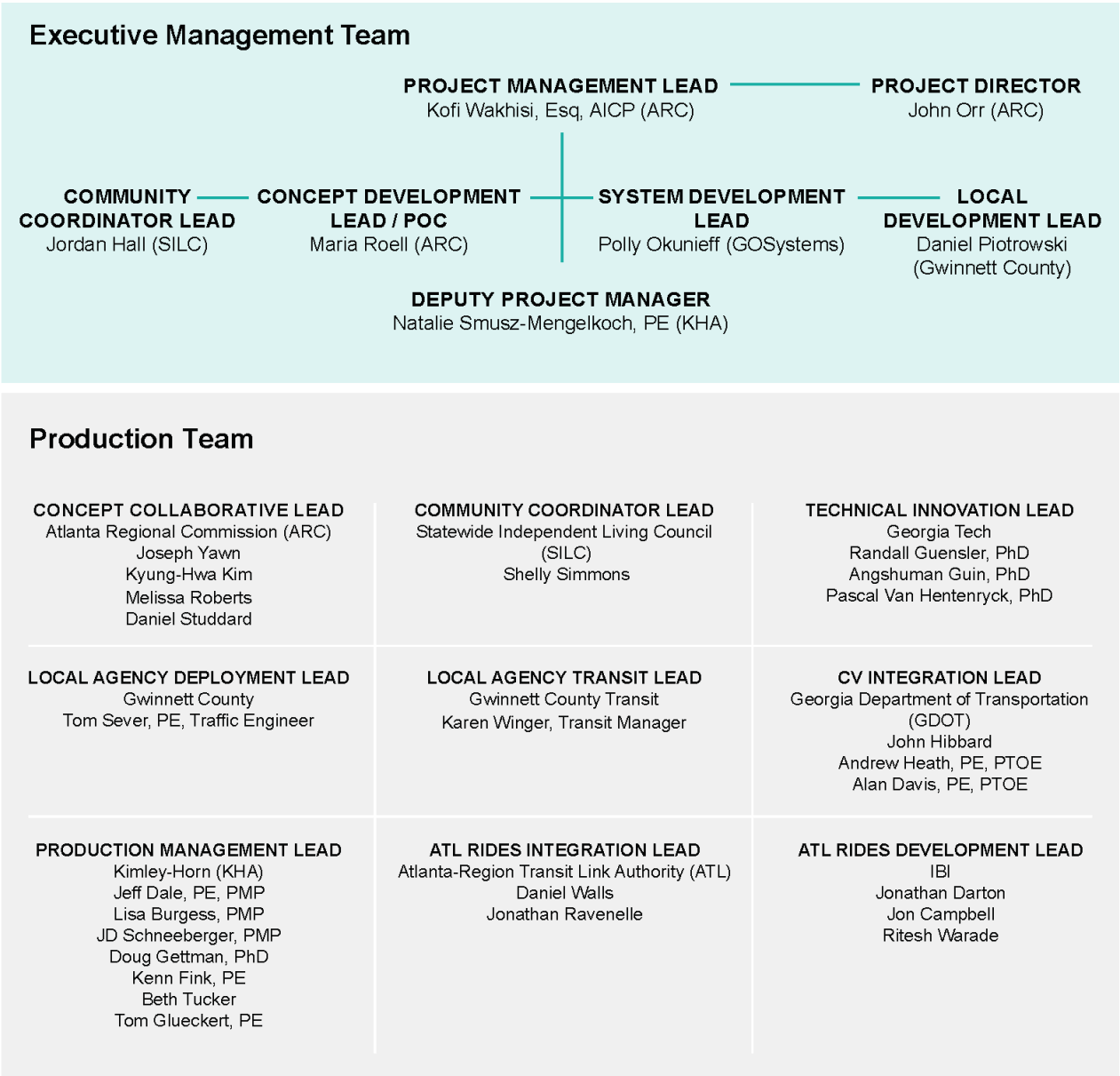


Deployment Phases



Site Orientation and Key Challenges

Project Team



- ARC – Lead
- Gwinnett County
- GDOT
- The ATL
- SILC
- Georgia Tech
- Kimley-Horn
- GO Systems and Solutions
- IBI

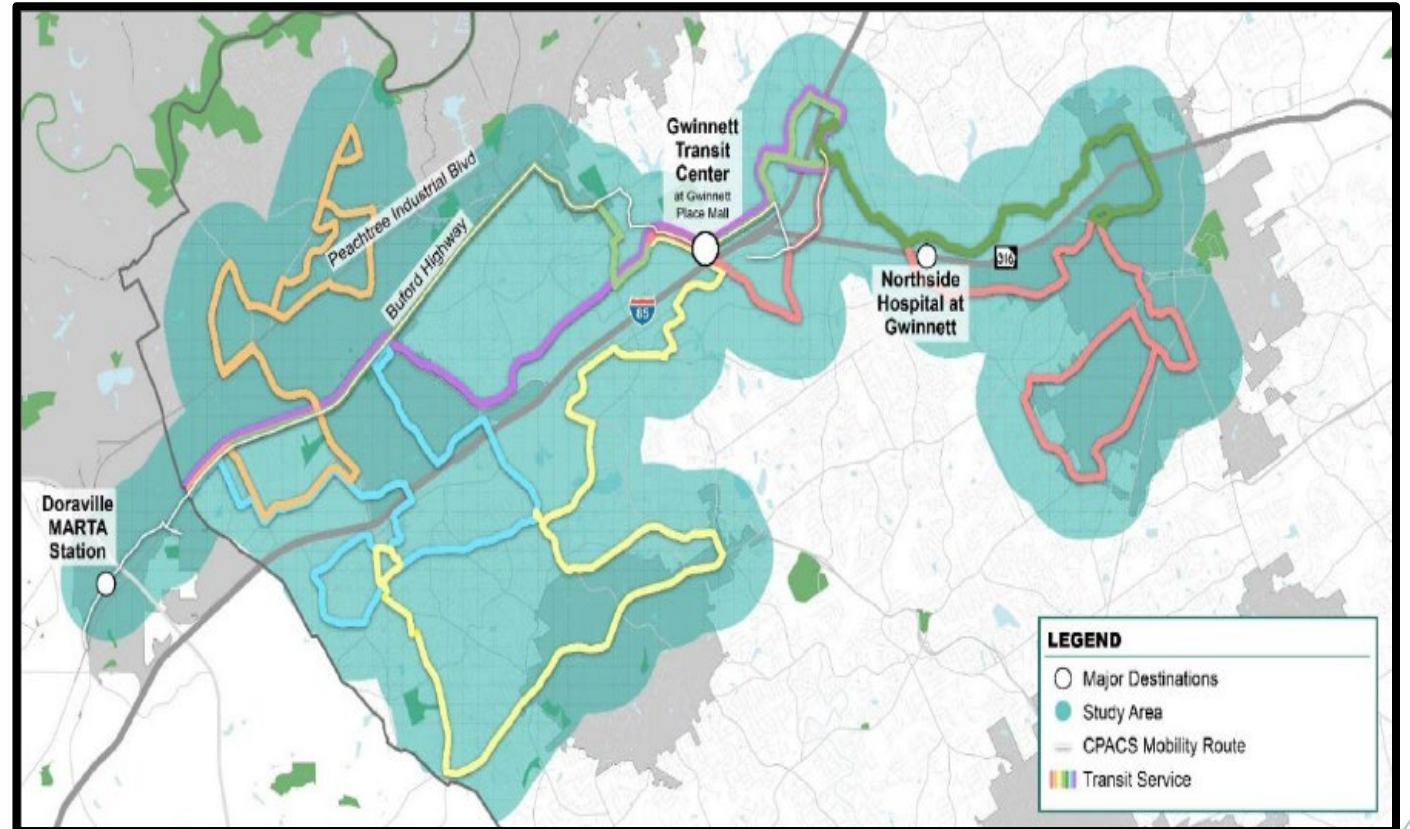
Project Challenges



- Challenge 1 – Lack of knowledge of inadequate pedestrian infrastructure can lead to lengthy detours or inaccessibility.
- Challenge 2 – Lack of transit reliability and added exposure while waiting.
- Challenge 3 – Difficult to recognize and avoid potential conflicts. Lack of visibility to drivers.

Project Site - Gwinnett County

- Richly diverse area
- 280,000 residents
- Major transit hubs
- Suburban land use
- Wide and high-speed roadways
- Inconsistent pedestrian infrastructure



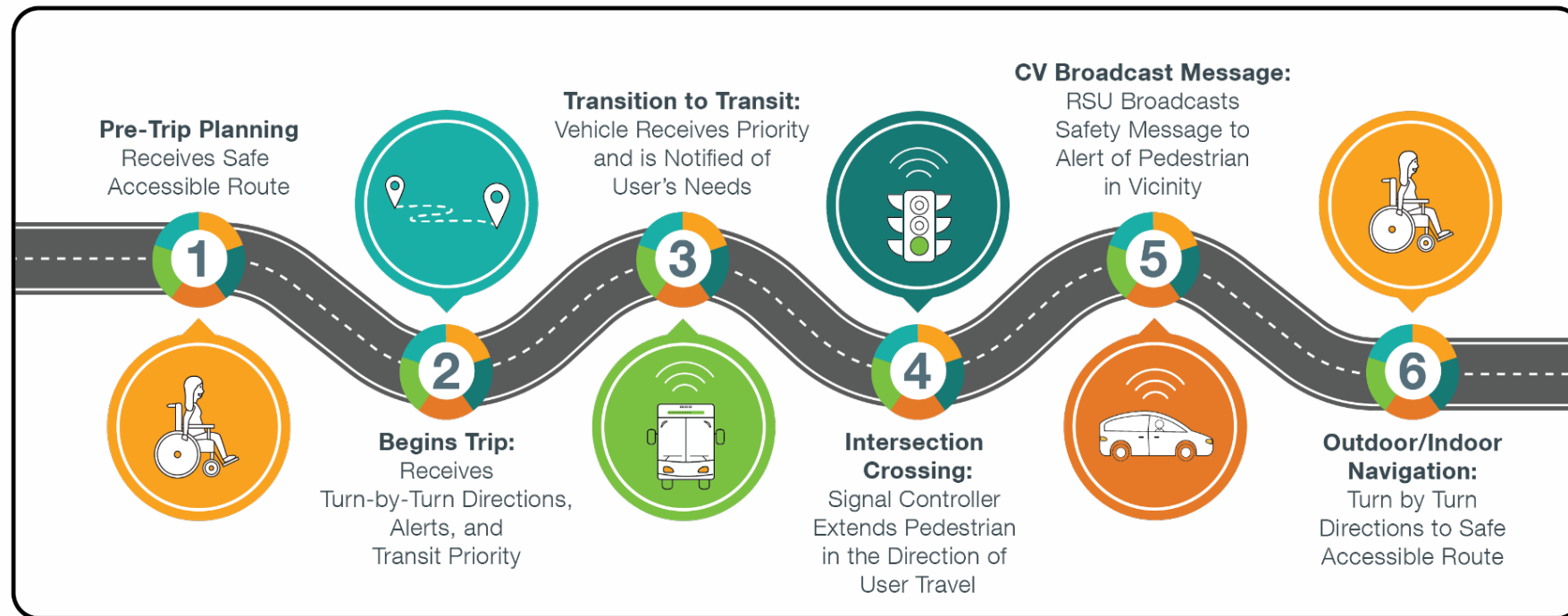
Underserved Populations

Population Type	Project Site Population	Pop. in Project Site	Gwinnett County Population	Gwinnett Pop. in Project Site
People with Disabilities	16,802	6.0%	32,032	52.5%
Older Adults (Age 65+)	19,435	7.0%	78,898	24.6%
Low-Income (Individual Poverty)	53,223	19.1%	107,267	49.6%
Veterans	8,602	3.1%	37,850	22.7%
Limited English Proficiency Households	14,098	15.1%	24,069	58.6%
Zero-Vehicle Household	4,921	5.3%	9,467	52.0%
Total Population	278,572	100%	889,954	31.3%
Total Households	93,158	100%	283,256	32.9%






Source: American Community Survey (2017)

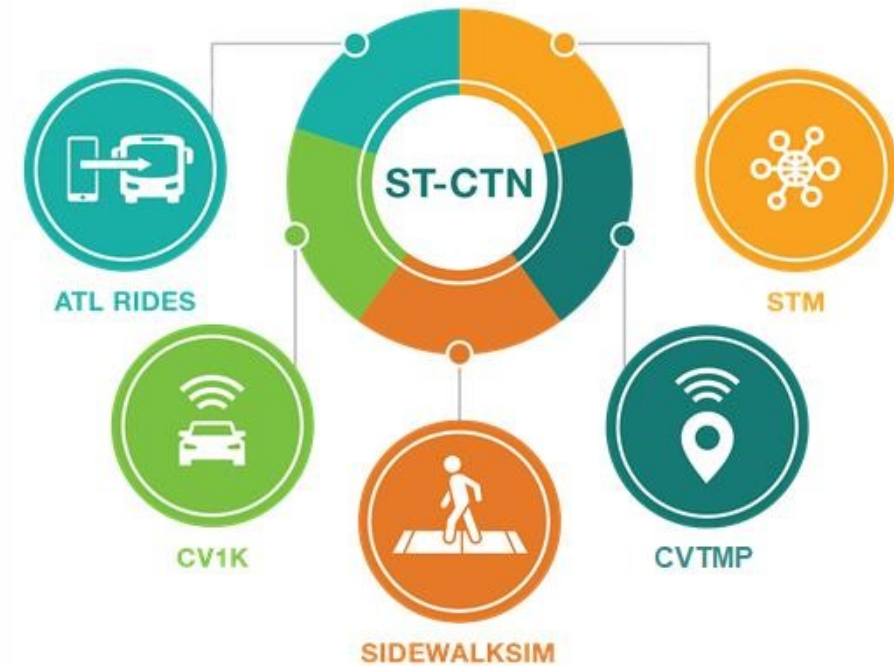
Deployment Concept Overview

Use Case – Wendy’s Complete Trip

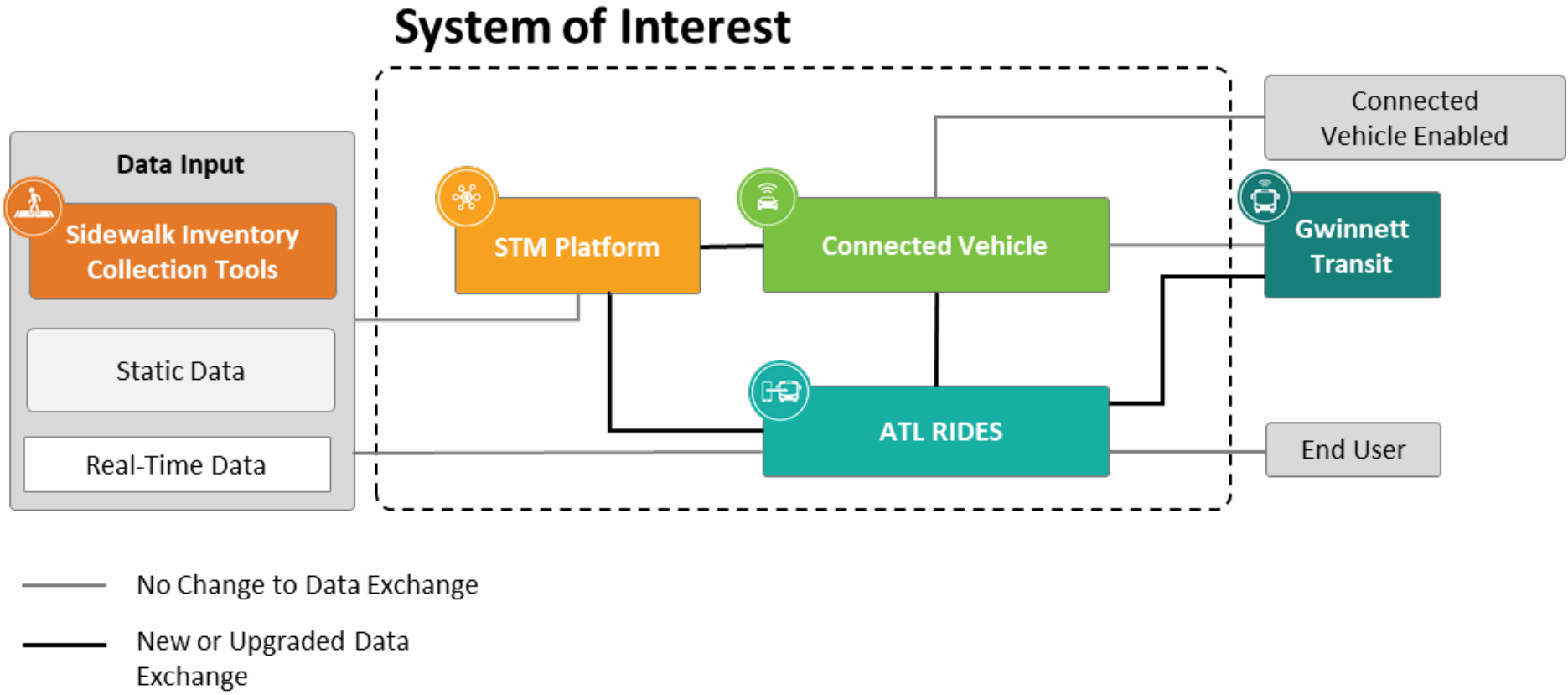


Integrated Solution

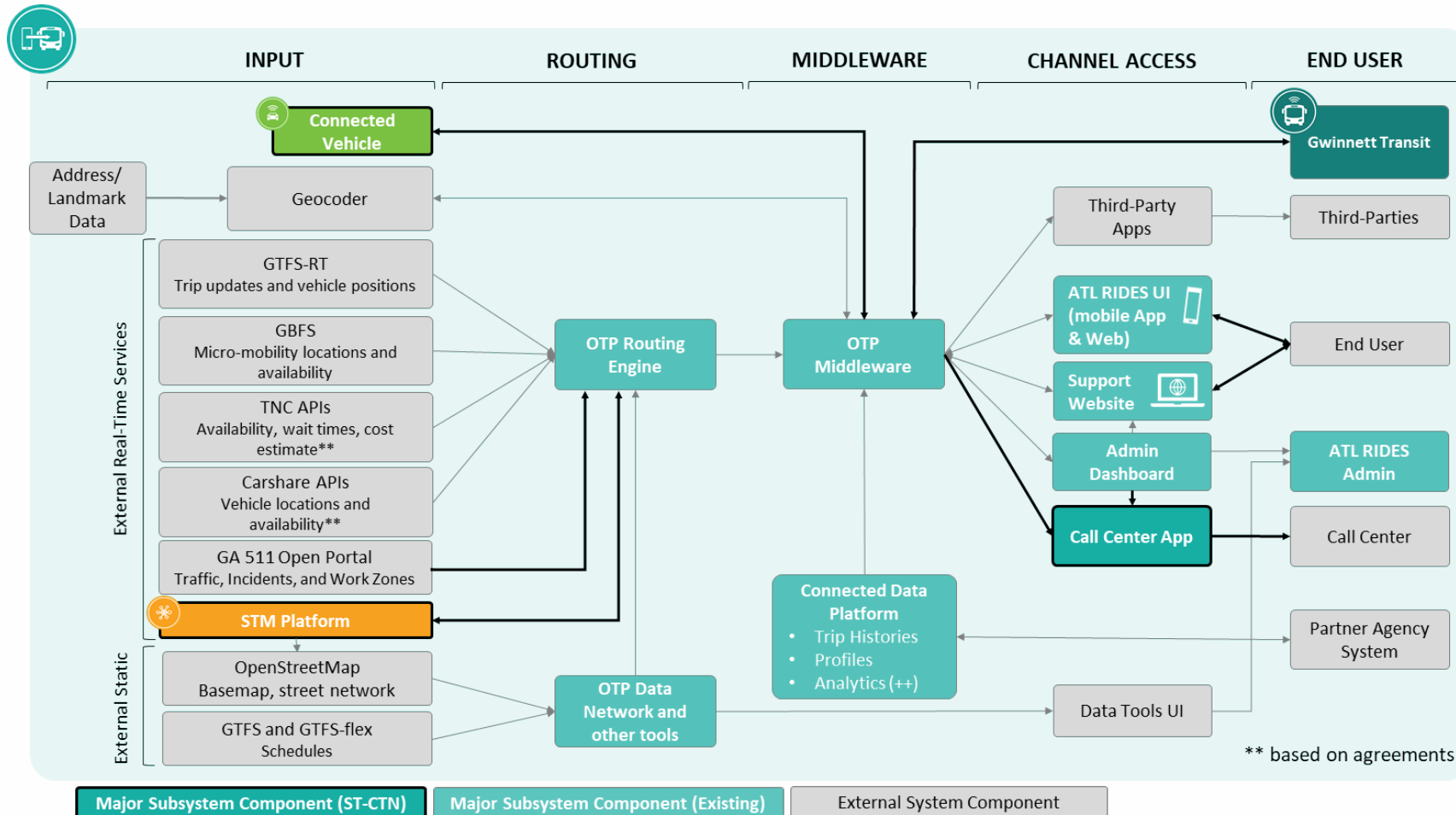
-  ATL Rider Information and Data Evaluation System
-  Connected Vehicle Regional Deployment Program
-  Sidewalk Inventory Tools
-  Gwinnett Connected Vehicle Technology Master Plan
-  Space-Time Memory Platform



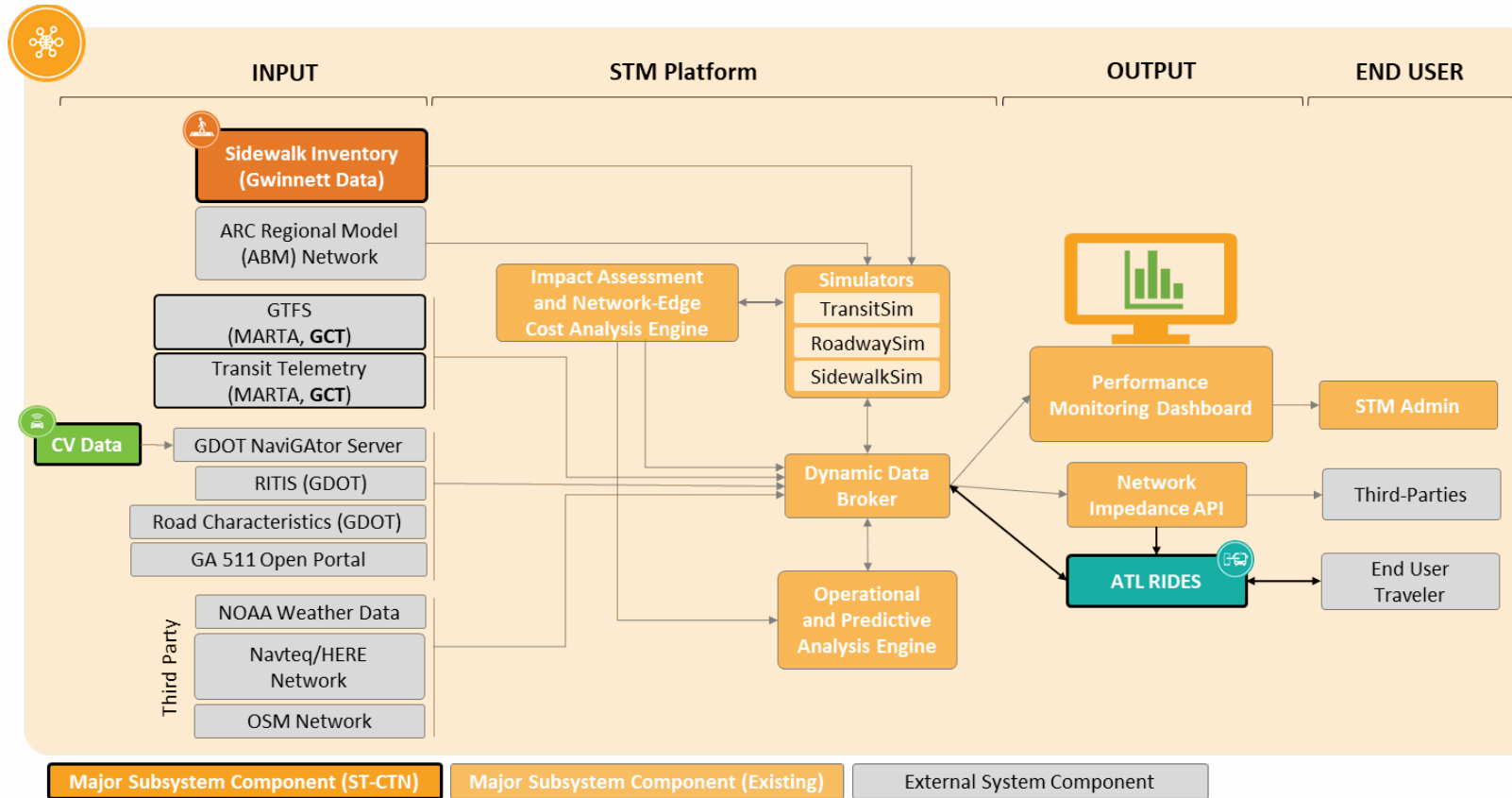
Integrated Solution – Context Diagram



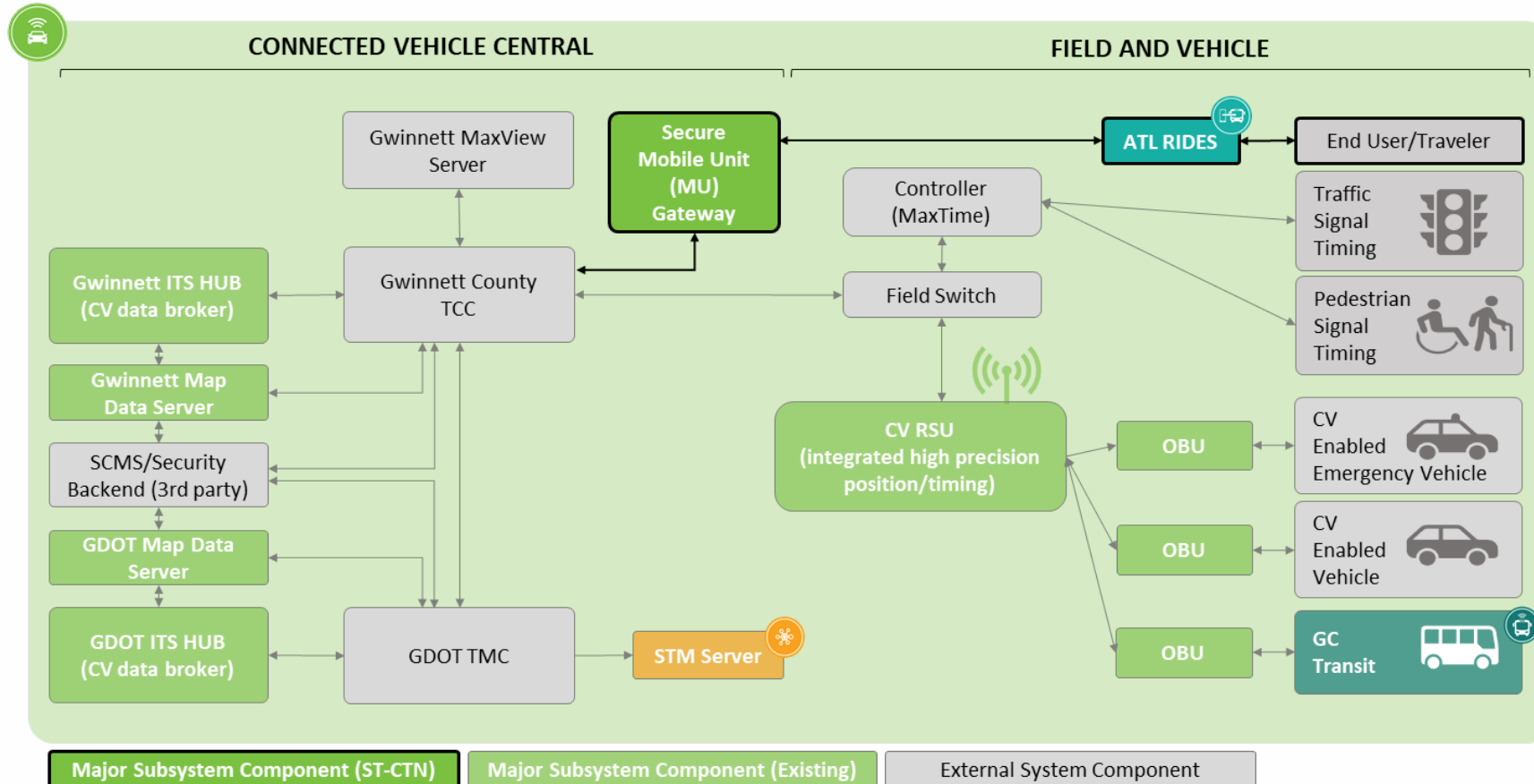
Integrated Solution – ATL RIDES Subsystem



Integrated Solution – STM Subsystem



Integrated Solution – CV Subsystem



Thank You

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Visit the Complete Trip - ITS4US Deployment Program Website:

<https://its.dot.gov/its4us/>