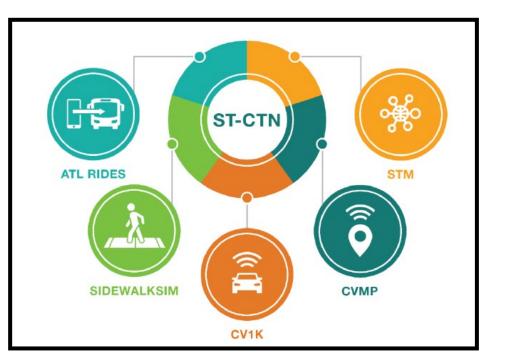
#### Safe Trips in a Connected Transportation Network (ST-CTN)

# Gwinnett County, GA, USA

#### **Team Members:**

ARC, Kimley-Horn, GO Systems, Gwinnett County, SILCGA, GDOT, The ATL, IBI, GA Tech





#### **Project Team**





Kofi Wakhisi, ARC Project Manager



Daniel Piotrowski, Gwinnett County Local Development



Maria Roell, ARC Concept Development



Jordan Hall, SILCGA Community Coordinator

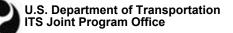


Paula Okunieff, GO Systems System Development



Natalie Smusz-Mengelkoch, Kimley-Horn Deputy Project Manager

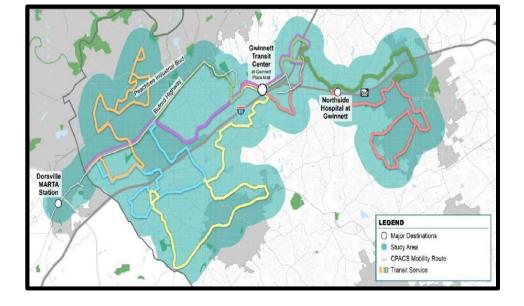




#### Safe Trips in a Connected Transportation Network

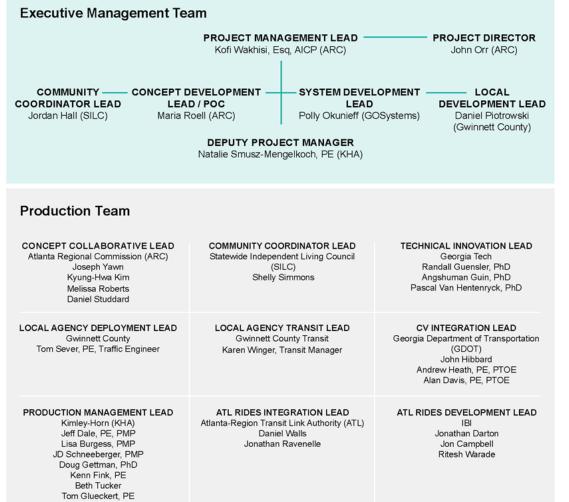


- Richly diverse area
- 280,000 residents
- Major transit hubs
- Suburban land use with wide and high-speed roadways
- Inconsistent pedestrian infrastructure





# **Team Organization & Partnerships**



- ARC Lead
- Kimley-Horn
- GO Systems and Solutions
- Gwinnett County
- Statewide Independent Living Council

ST-CTI

- GDOT
- The ATL
- IBI
- Georgia Tech





# **Challenges & Underserved Populations**

- Underserved Populations
  - People with physical or cognitive disabilities
  - Older adults
  - Limited English Proficiency (LEP) residents
  - Low income
  - Zero-vehicle households
- Preliminary Stakeholder Engagement
  - Statewide Independent Living Council
  - 12 Stakeholder Groups CPACS, disABILITY Link, ARC Aging & Independence Services, National Center for Mobility Management, MARTA, Cobb, Henry and Douglas Counties fixed route bus systems, GRTA, Logisticare, Southeastrans, Department of Health and Human Services







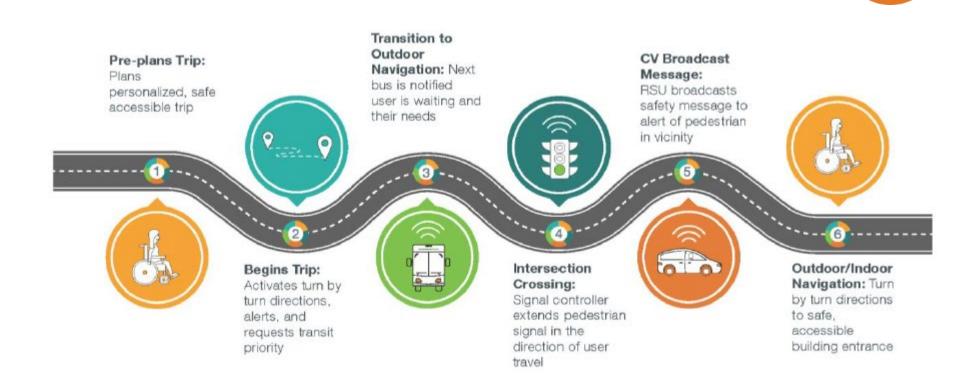


- Challenge 1 (C1) Users' knowledge of inadequate pedestrian infrastructure can lead to lengthy detours or inaccessibility.
- Challenge 2 (C2) Lack of transit reliability and added exposure while waiting.
- Challenge 3 (C3) Difficult to recognize and avoid potential conflicts. Lack of visibility to drivers.





#### **Proposed Solutions**



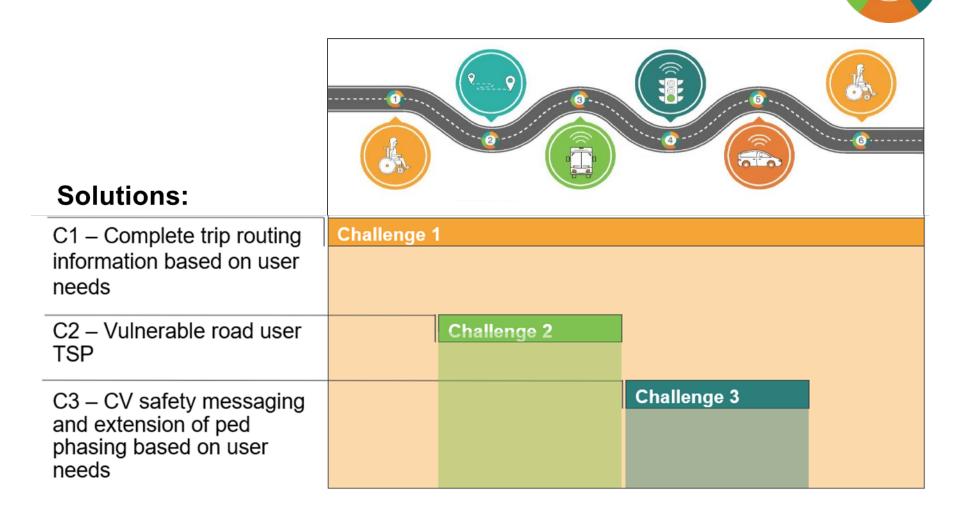
Safe Trips in a Connected Transportation Network Concept





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ST-CTN





**Proposed Solutions** 



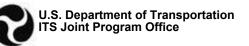
ST-CTN

#### **Target Performance Measures**



- System success Does the system meet the needs of the community as intended?
  - Safety Do underserved users perceive safer travel?
  - Value Do underserved users find the information provided helpful?
  - Ease of use Is the system easy to use?
- Transit performance and reliability Does the system provide enhanced transit performance and reliability for underserved users?
- **System sustainability** Is the system being used?





## **Integrated Deployment**



Regional Rider Information and Data Evaluation System



Path routing tool for differently abled users



CV deployments throughout the regic



Gwinnett CV roadmap



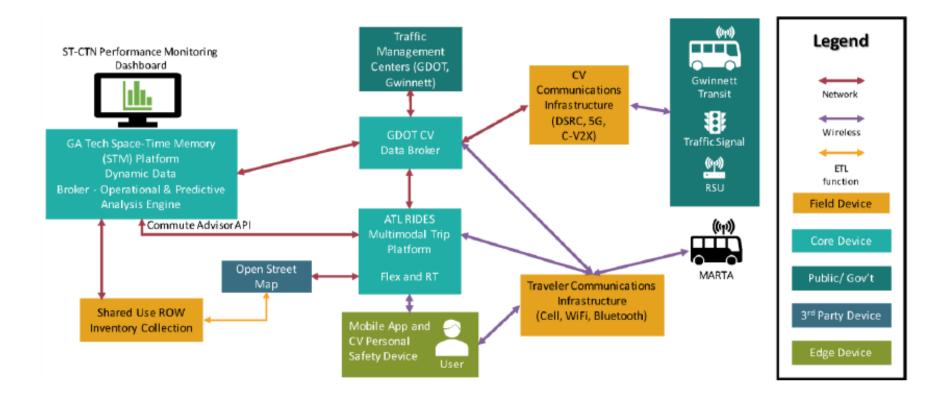
Platform for predicting travel conditions



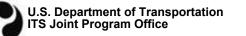




## **Integrated Deployment**







ST-CTN



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**U.S. Department of Transportation** 

**TS Joint Program Office** 

#### **Challenges & Risks**

- Technical Risks
  - Sub-system dependencies
  - Integration and testing challenges
  - Security and Privacy
- Financial Risks
  - Decreased budgets due to COVID19
- Institutional Risks
  - Institutional partnerships nine partners



