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

Maria Roell, ARC
Concept Development

Paula Okunieff, GO Systems
System Development

Daniel Piotrowski, Gwinnett County
Local Development

Jordan Hall, SILCGA
Community Coordinator

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

## Executive Management Team

- **Project Management Lead**: Kofi Wakhusi, Esq, AICP (ARC)
- **Project Director**: John Orr (ARC)
- **Community Coordinator Lead**: Jordan Hall (SILC)
- **Concept Development Lead / POC**: Maria Roell (ARC)
- **System Development Lead**: Polly Okunieff (GOSystems)
- **Local Development Lead**: Daniel Plotrowski (Gwinnett County)
- **Deputy Project Manager**: Natalie Smuez-Mengekoch, PE (KHA)

## Production Team

- **Concept Collaborative Lead**: Atlanta Regional Commission (ARC)
  - Joseph Yawn
  - Kyung-Hwa Kim
  - Melissa Roberts
  - Daniel Studdard
- **Community Coordinator Lead**: Statewide Independent Living Council (SILC)
  - Shelly Simmons
- **Local Agency Deployment Lead**: Gwinnett County
  - Tom Sever, PE, Traffic Engineer
- **Local Agency Transit Lead**: Gwinnett County Transit
  - Karen Winger, Transit Manager
- **Production Management Lead**: Kimley-Horn (KHA)
  - Jeff Dale, PE, PMP
  - Lisa Burgess, PMP
  - JD Schneeberger, PMP
  - Doug Geltman, PhD
  - Ken Fink, PE
  - Beth Tucker
  - Tom Glueckert, PE
- **ATL Rides Integration Lead**: Atlanta-Region Transit Link Authority (ATL)
  - Daniel Walls
  - Jonathan Ravenelle
- **ATL Rides Development Lead**: IBI
  - Jonathan Carton
  - Jon Campbell
  - Ritesh Varade
- **Technical Innovation Lead**: Georgia Tech
  - Randall Guensler, PhD
  - Angshuman Guin, PhD
  - Pascal Van Hentenryck, PhD
- **CV Integration Lead**: Georgia Department of Transportation (GDOT)
  - John Hibbard
  - Andrew Heath, PE, PTOE
  - Alan Davis, PE, PTOE

## Partnerships

- ARC – Lead
- Kimley-Horn
- GO Systems and Solutions
- Gwinnett County
- Statewide Independent Living Council
- 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
Challenges & Underserved Populations

- **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
### Solutions:

<table>
<thead>
<tr>
<th>Challenge 1</th>
<th>Challenge 2</th>
<th>Challenge 3</th>
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<tbody>
<tr>
<td><strong>C1</strong> – Complete trip routing information based on user needs</td>
<td><strong>C2</strong> – Vulnerable road user TSP</td>
<td><strong>C3</strong> – CV safety messaging and extension of ped phasing based on user needs</td>
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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 region

Gwinnett CV roadmap

Platform for predicting travel conditions
Integrated Deployment
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