



U.S. Department of Transportation



ITS4US

IT'S TRANSPORTATION FOR ALL OF US

**Buffalo All Access App – the Complete
Trip Platform**

Purpose – Why Are We Here

▪ Purpose of this Webinar

- The Buffalo deployment team has just completed Release 3 of the Buffalo All Access website and mobile application. During this webinar, the deployment team will demonstrate trip planning with multiple modes including NFTA transit and the community-based on-demand shuttle. The team will also show outdoor to indoor navigation, accessibility features, and companion-traveler functionality.
- Q&A

Agenda

- **Webinar Content**

- Webinar Presenter Introductions
- ITS4US Program Overview
 - Elina Zlotchenko, Intelligent Transportation Systems Joint Program Office
- Buffalo All Access Program Overview
 - Robert Jones, Niagara Frontier Transportation Authority
- Application Development Team Demonstration
 - Darlene Magold, Etch
 - Jon Woyame, Etch
 - Jesse Glascock, Etch
- Q & A

Webinar Protocol

- **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

ITS4US Program Overview



Elina Zlotchenko

Intelligent Transportation Systems Joint
Program Office

ITS4US Program Vision

- 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

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

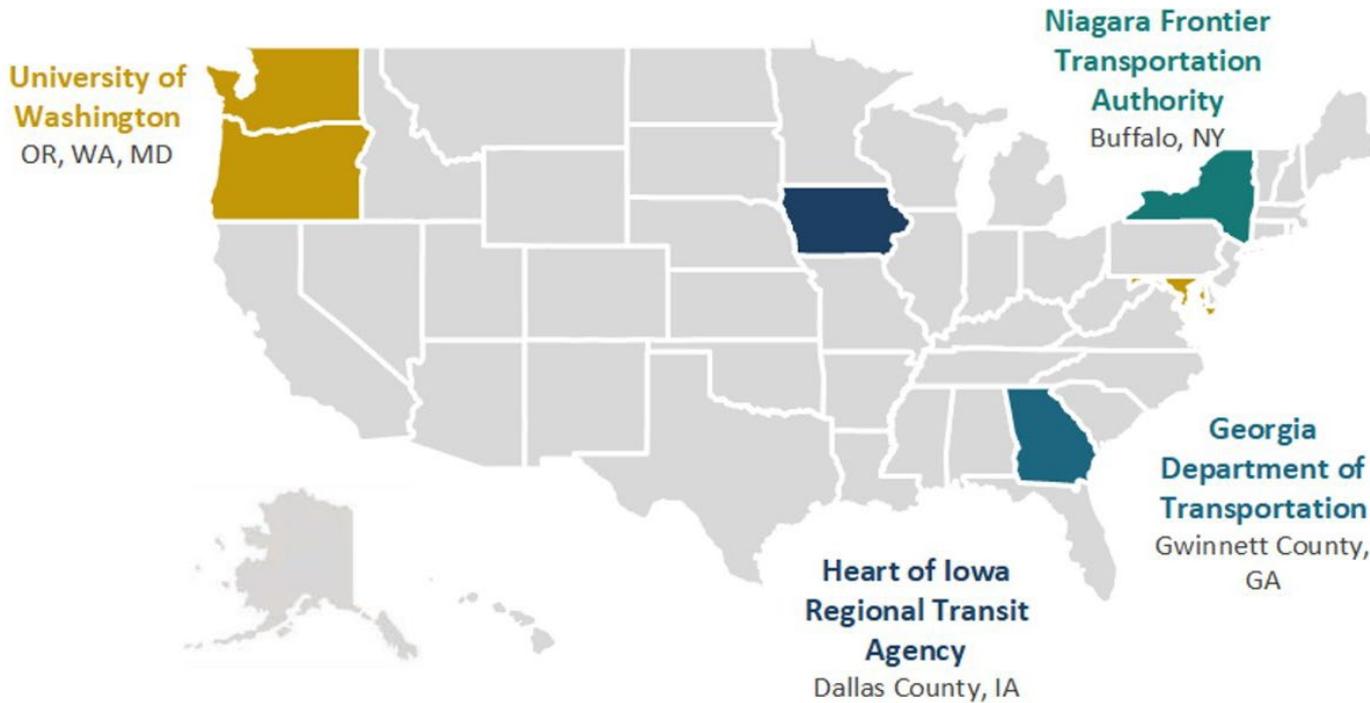


Measure impact of integrated deployments

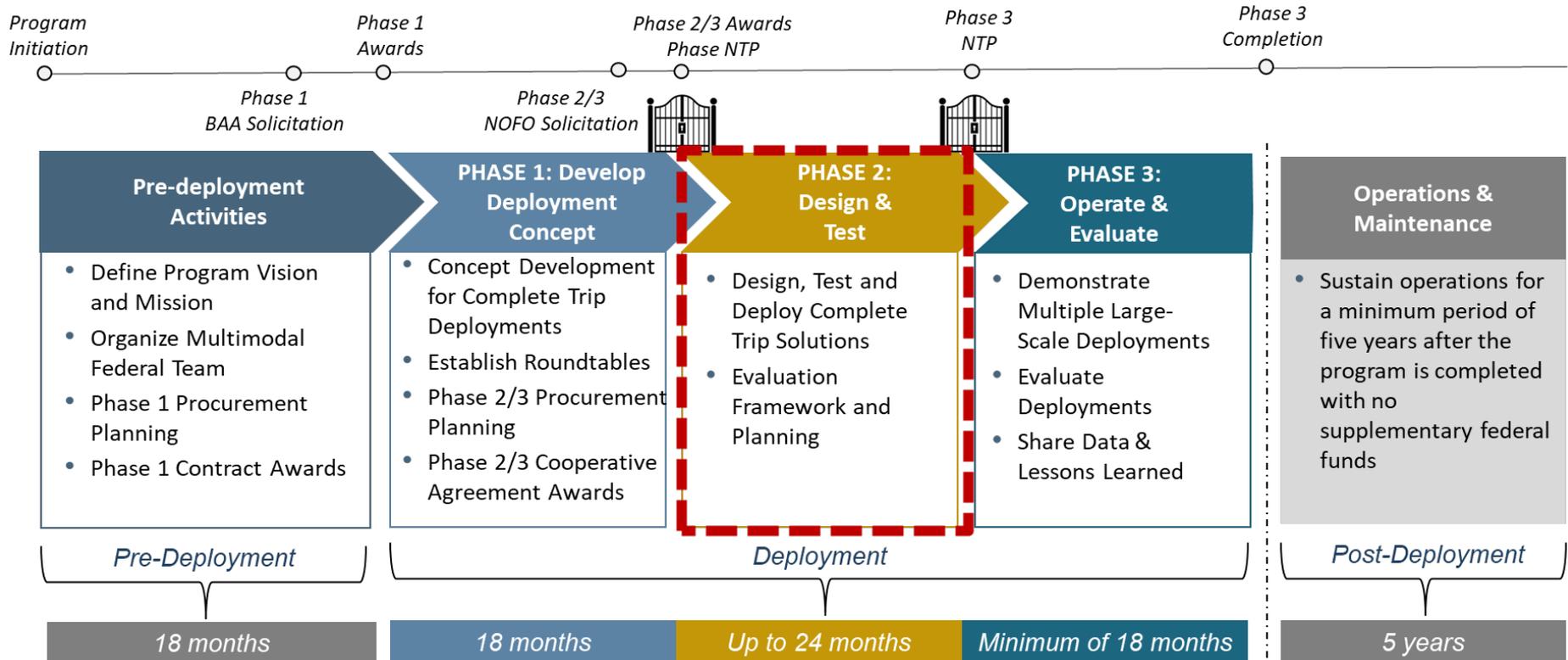


Identify replicable solutions and disseminate lessons learned

ITS4US Deployment Sites



Deployment Phases



ITS4US Program Fundamental Elements

- Site deployments will be real-world environment **deployments**
- Serve as replicable models and remain in operation
- There are **multiple** site deployments
- Unique solutions to address critical, local challenges
- Deployments are expected to be both **large-scale and multi-modal**
- **Large-scale** implies deployments will have measurable impact
- Sites will deploy **multiple technologies and modes**

Buffalo All Access Program Overview



Robert Jones, AICP

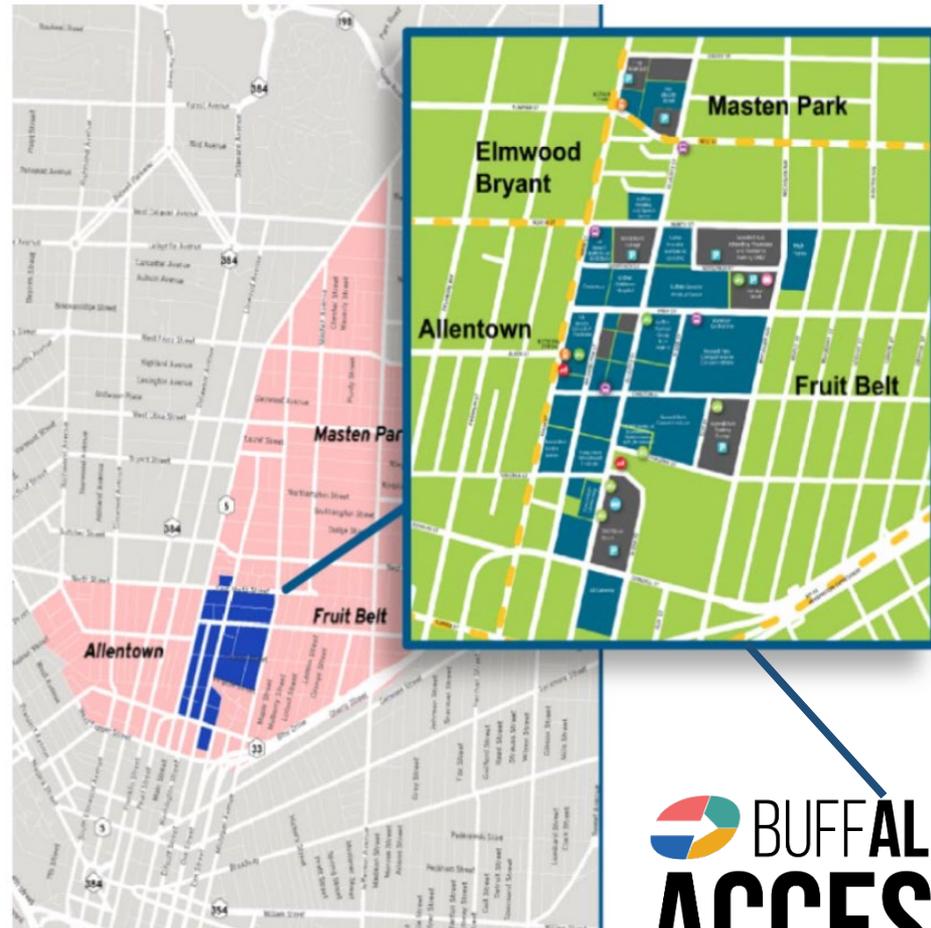
Buffalo All Access

Concept Deployment Lead

Deputy Director, Public Transit, NFTA

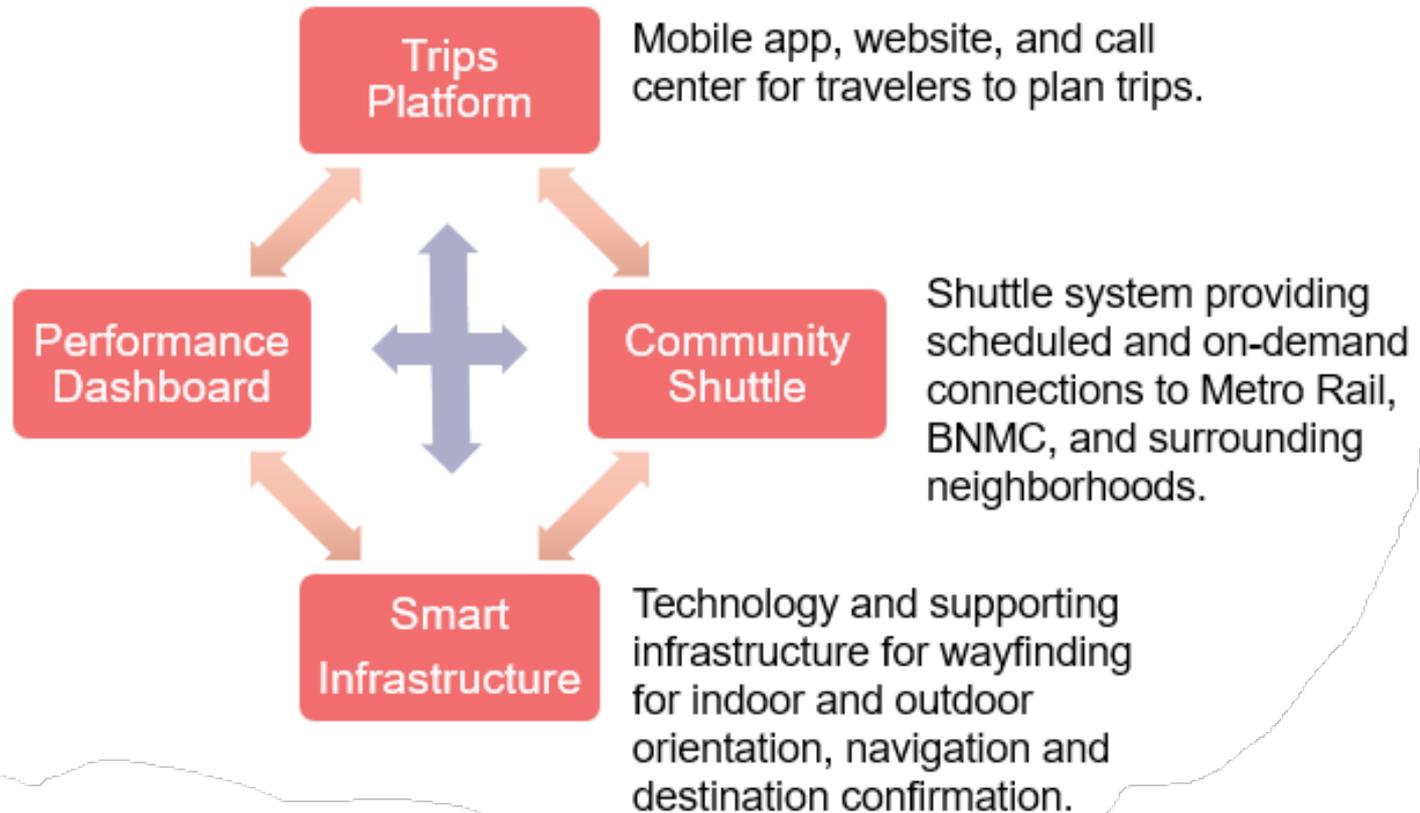
Buffalo All Access Factsheet

- **Where:** Deployment area in and around the Buffalo Niagara Medical Campus.
- **Why there:** 200+ companies, 16,000+ employees/students, 1.5+ million visitors per year.
- **What:** Deployment of new and advanced technologies to address existing mobility and accessibility challenges.
- **Innovation:** Factors in travelers' preferences and accessibility-related needs for comprehensive trip planning.



Buffalo All Access System Overview

Measures and presents the performance of the system.



Buffalo All Access – NEW Services

Transportation Info Hub



**Buffalo General Medical Center
and
NFTA Main St. & Best St.
MetroRail Station**

Source: Redyref

Indoor Navigation



Indoor Mapping Platform

Real-time Location System

**Buffalo General Medical Center and
Visually Impaired Association (VIA)**

Source: CxApp

Pedestrian Signal Actuation (PED-X)



**Main & Best Streets
and
Ellicott & High Streets**

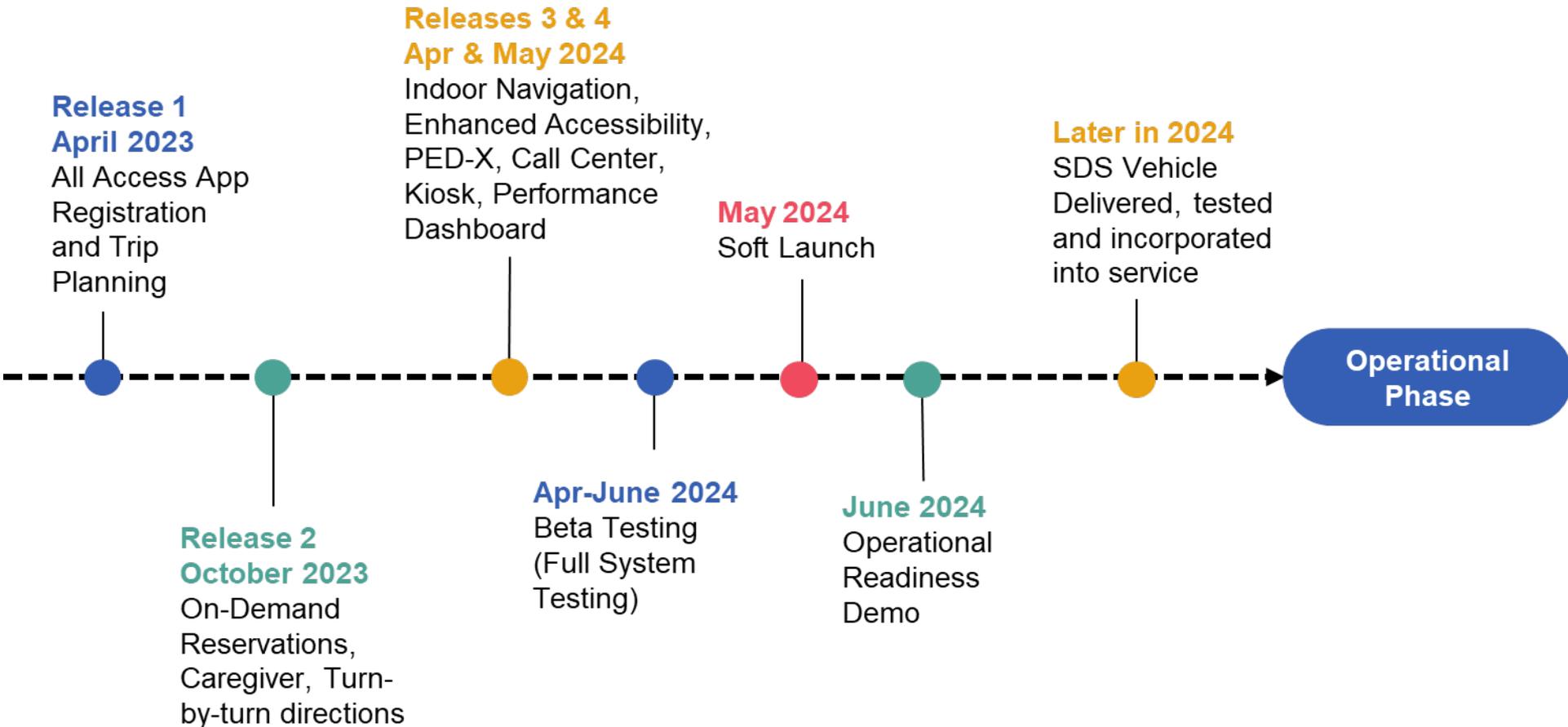
Source: Miovision

Community Shuttle
Self-Driving



Source: ADASTEC and Vicinity Motors

Buffalo All Access Deployment Schedule



ITS4US Buffalo – Development Team



Darlene Magold

Project Manager

CEO, Etch



Jon Woyame

Development Lead

CIO, Etch



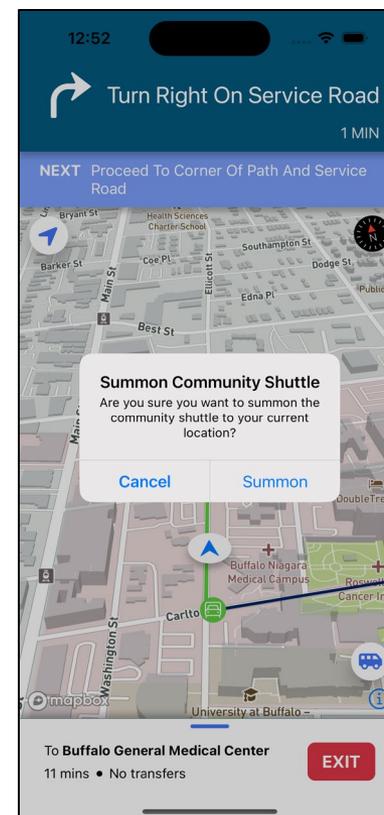
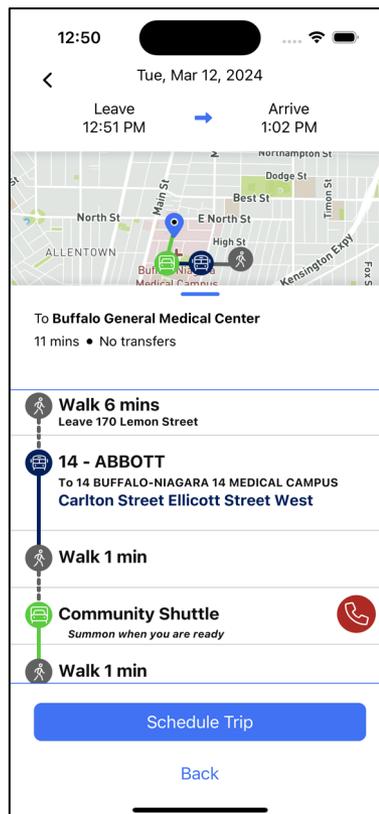
Jesse Glascock

Development
Manager

Solutions Architect,
Etch

Buffalo All Access App Platform – Trip Planner

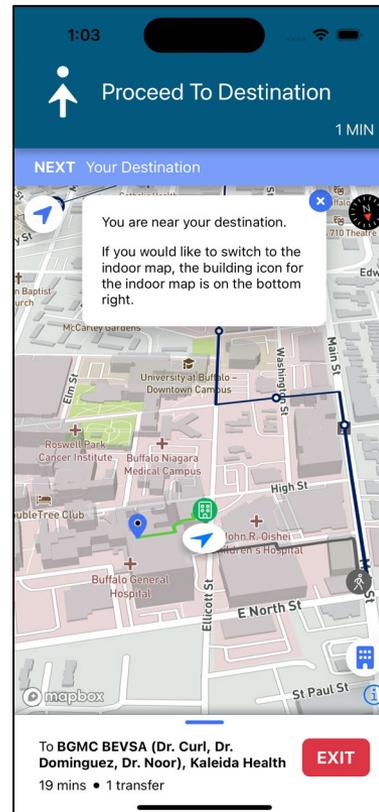
- **Demonstration using mobile application:**
 - Multimodal trip plan with first mile NFTA Bus and last mile Community Shuttle
 - Navigation (outdoor)
 - Notifications



Buffalo All Access App Platform – Indoor and Outdoor Wayfinding



- **Demonstration using mobile application:**
 - Trip plan with NFTA Bus to Buffalo General Medical Center
 - Navigation (outdoor to indoor)
 - Notifications



Buffalo All Access App Platform – Companion View



- **Demonstration using web & mobile application:**
 - Trip plan with NFTA Bus to Buffalo General Medical Center
 - Companion view – website
 - Traveler view - mobile
 - Notifications



Trip Plan Overview

Leave 2:11 PM → Arrive 2:58 PM

To Regal Elmwood Center 16 2001 Elmwood Avenue, North Delaware, Buffalo
47 mins (4.9 mi) • 1 transfer

- Walk 6 mins
- 8 - MAIN**
To 8 DOWNTOWN
PEARL STREET TUPPER STREET SOUTH
Main Street Virginia Street South
1 stop, 2 mins
Main Street Edward Street South
- Walk 6 mins
- 20 - ELMWOOD**
To 20 ORCHARD
ELMWOOD AVENUE 2021 ELMWOOD AVENUE
Elmwood Avenue Tupper Street North

Schedule Trip

Back

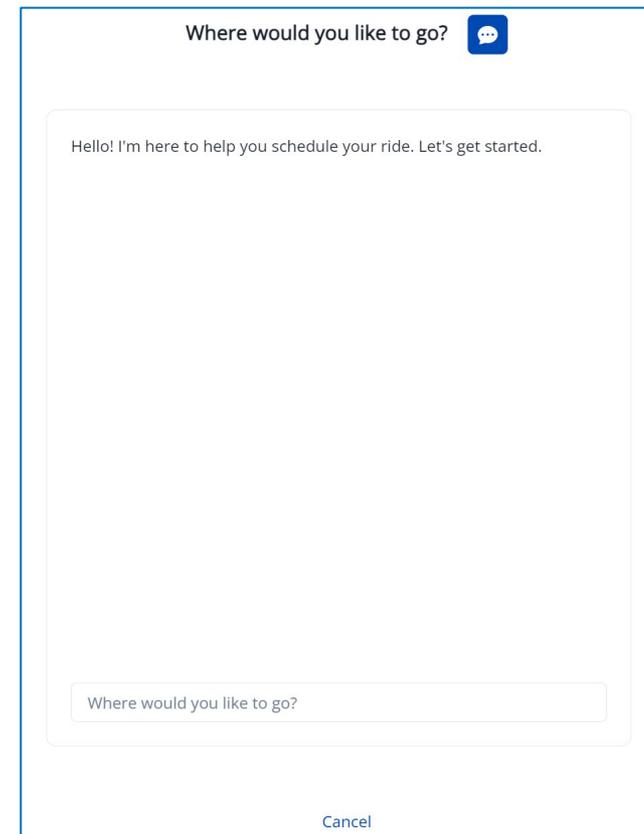
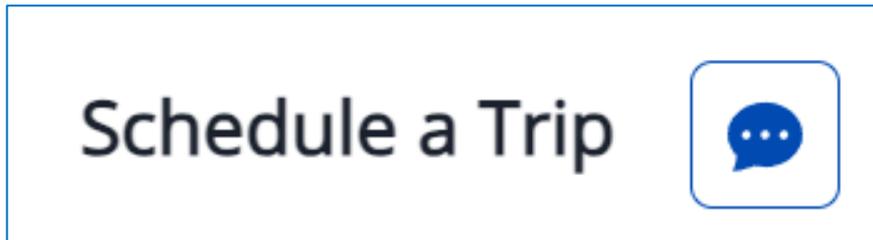
mapbox

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Buffalo All Access App Platform - Demo

- **Demonstration using web & mobile application:**
 - Trip booking using the chat assistant
 - Trip plan options



Q&A

- Facilitator: Carlos Alban, ITS America

Stay Connected

For more information please contact:

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ITS4US Program Manager
(Site COR)

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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

THANK YOU

Visit bnmc.org/allaccess to learn more!

