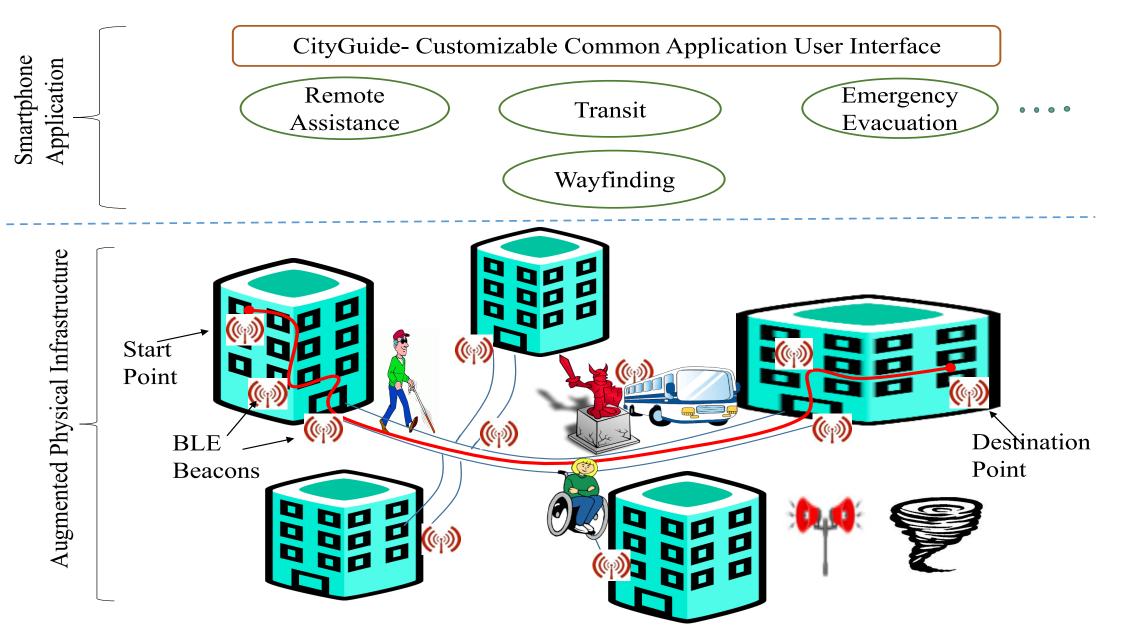
CityGuide: Seamless and Inclusive Location-Based Services for Communities—

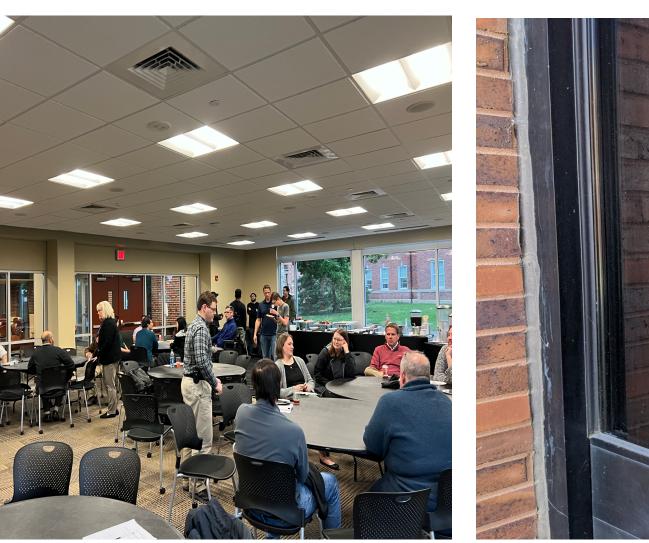
Vinod Namboodiri, Nils Hakansson, Wichita State; Siny Joseph, K-State, Jared Reyes, Envision; Maryam Zahabi, Texas A & M IRG-2, FY 2020

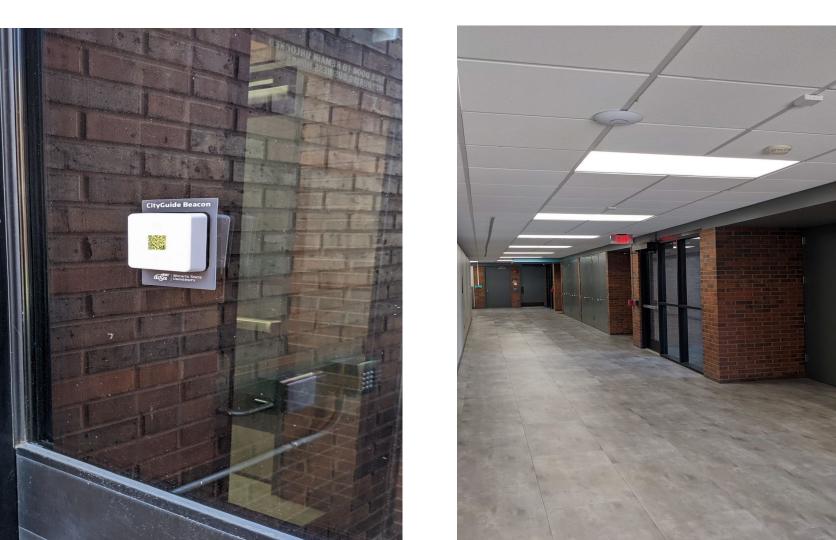
The long-term vision for this project is to design, deploy, evaluate, and refine an inclusive community-wide system (accessed through a smartphone app) called CityGuide that provides various auxiliary location-based services (ALBSs) for people with disabilities (and the general population), complementing satellite-based GPS systems.

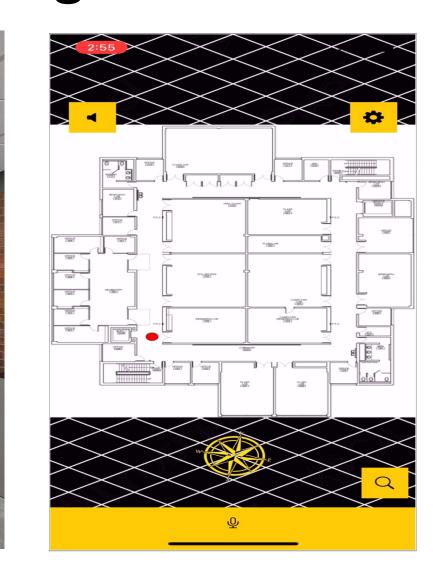


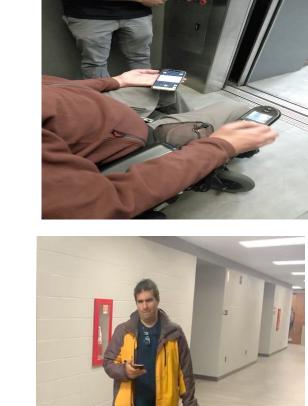
The project advances knowledge about (i) providing seamless and scalable indoor and outdoor location-based services, (ii) contextually appropriate cues and content for a variety of location-based applications, (iii) applying universal design principles towards accessing location-based services, (iv) impact of economies of scope and scale in the feasibility and sustainability of deploying accessibility technologies communities.











Expected short-term societal impacts

Development of wayfinding tools that provides people with disabilities and also the general population a useful tool to increase their independence, and thus, quality of life

Expected long-term societal impacts

Creation of a model for other similar future efforts (beyond wayfinding) to address the need for greater inclusivity in how various community-based services are accessed.

Planned Activities for Next Year

- Expand indoor testbed to outdoor areas
- Incorporate usability testing results into user interface
- Incorporate focus group feedback into prototype system