Visualizing Pancast

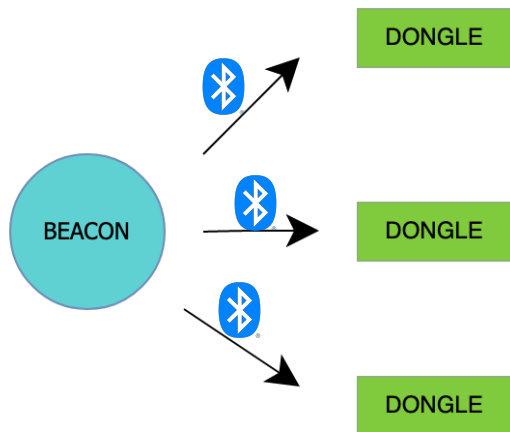## Bluetooth Beacon Localization Visualization

Nichole Boufford

What is Pancast?

- Digital Contact Tracing System

- Beacons broadcast ephemeral IDs using Bluetooth Low Energy

- User dongle log IDs of beacons it has encountered
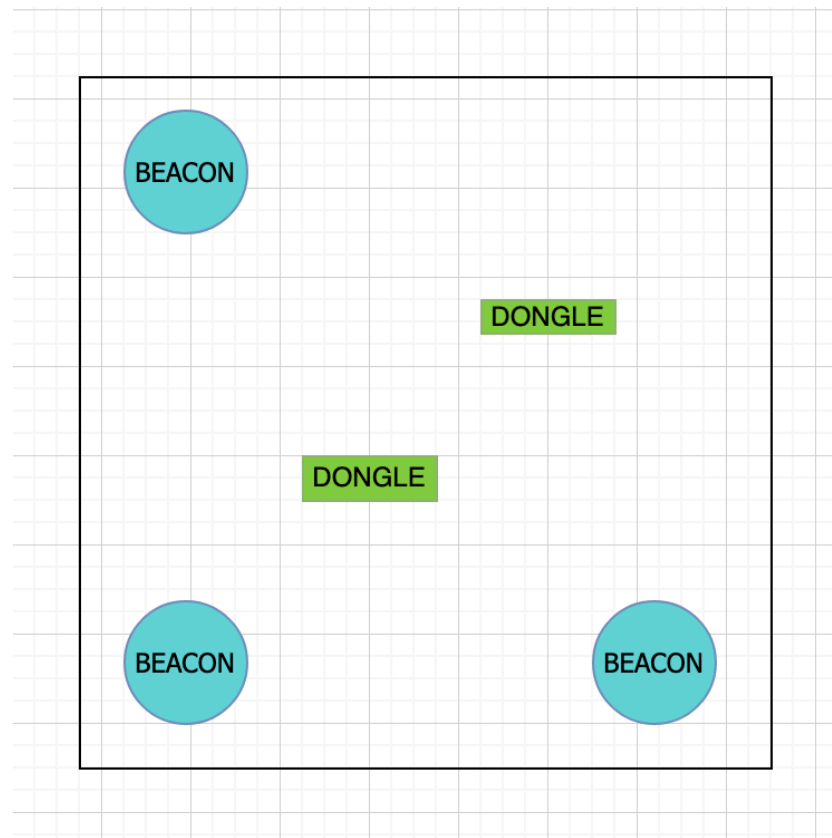

https://arxiv.org/abs/2011.08069

Implementing the Pancast System

- Strategic placement of beacons
- Minimize false encounters

The Data

- Beacon location: coordinates
- User location: coordinates
- Received Signal strength
- Actual distance from other devices

Goal: Determine best beacon placement

- Create an interactive data visualization tool that helps users to determine the most effective placement of beacons in a room layout.
- Use data to determine where encounters could occur.

- Looking for partners! :)