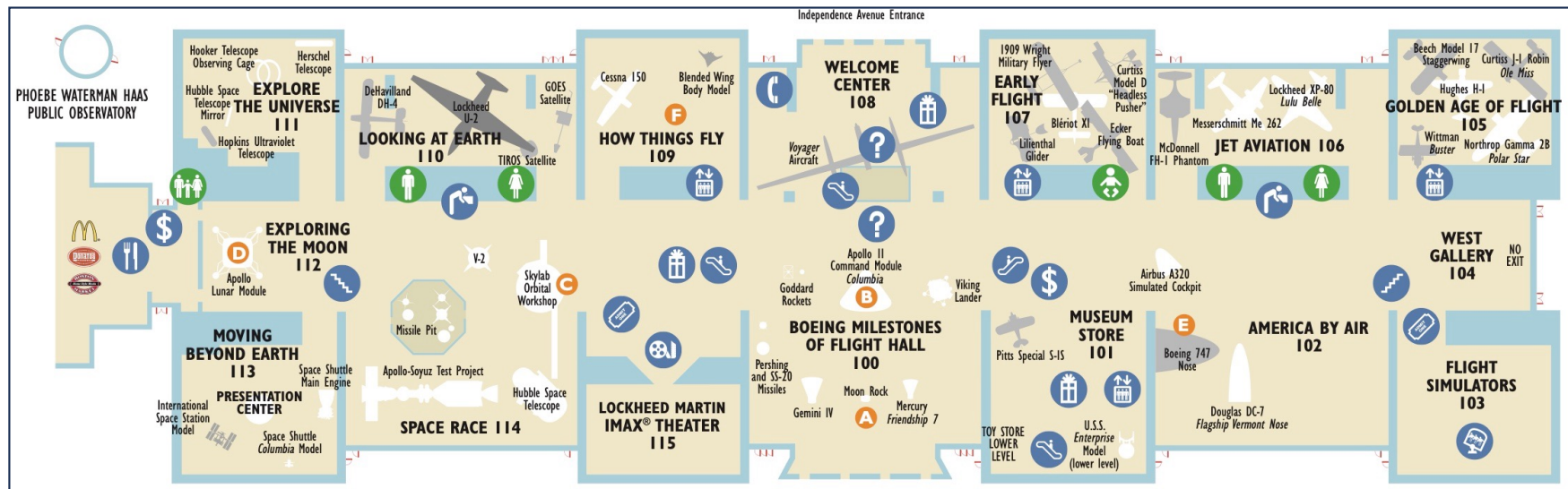


Waze for museums – XR for navigation, audio/video tour guide

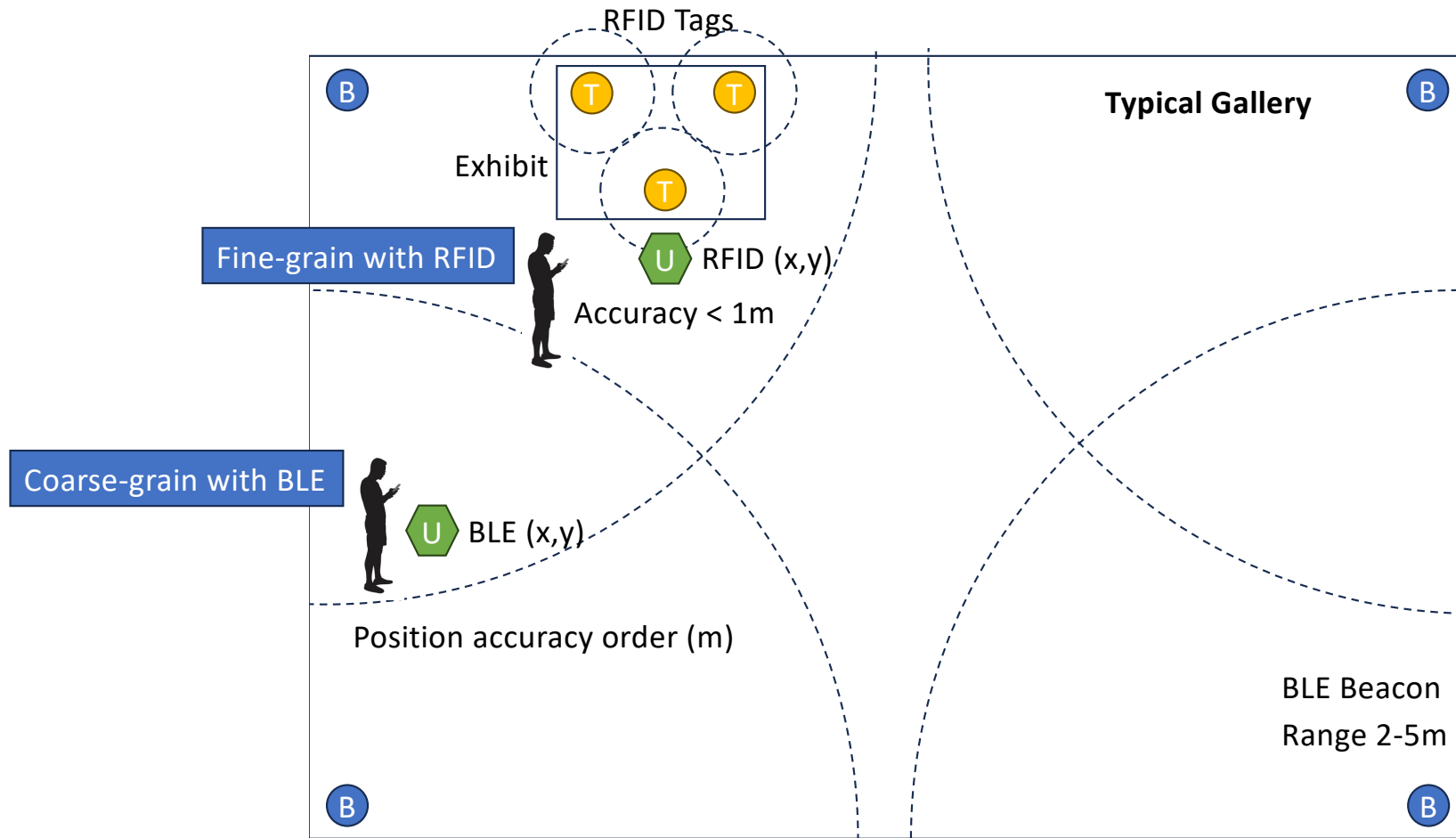


Problem: museums are crowded and difficult to navigate

What if we could plan 60 minutes to visit our top 5 exhibits?



Requires Coarse Positioning for Navigation and Fine Positioning for Exhibit Info



Component Overview

Labels



Phone



User device



BLE Beacon



RFID Reader



RFID Tag

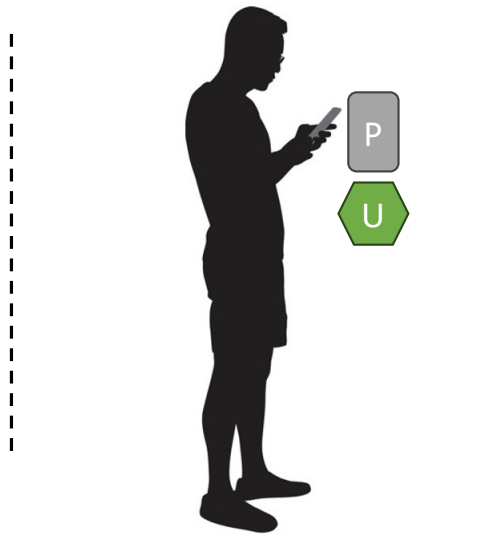


Node.js

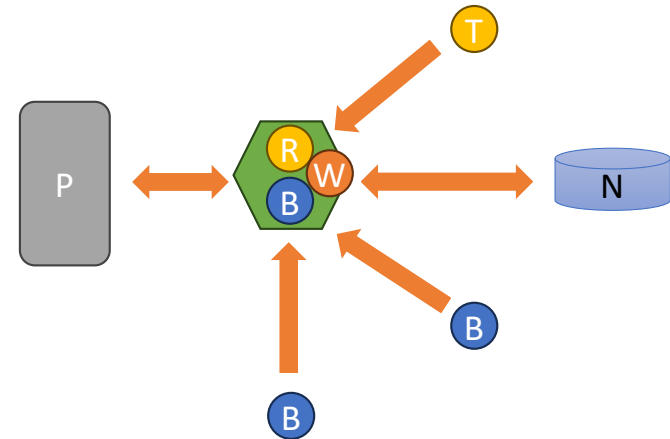


WiFi

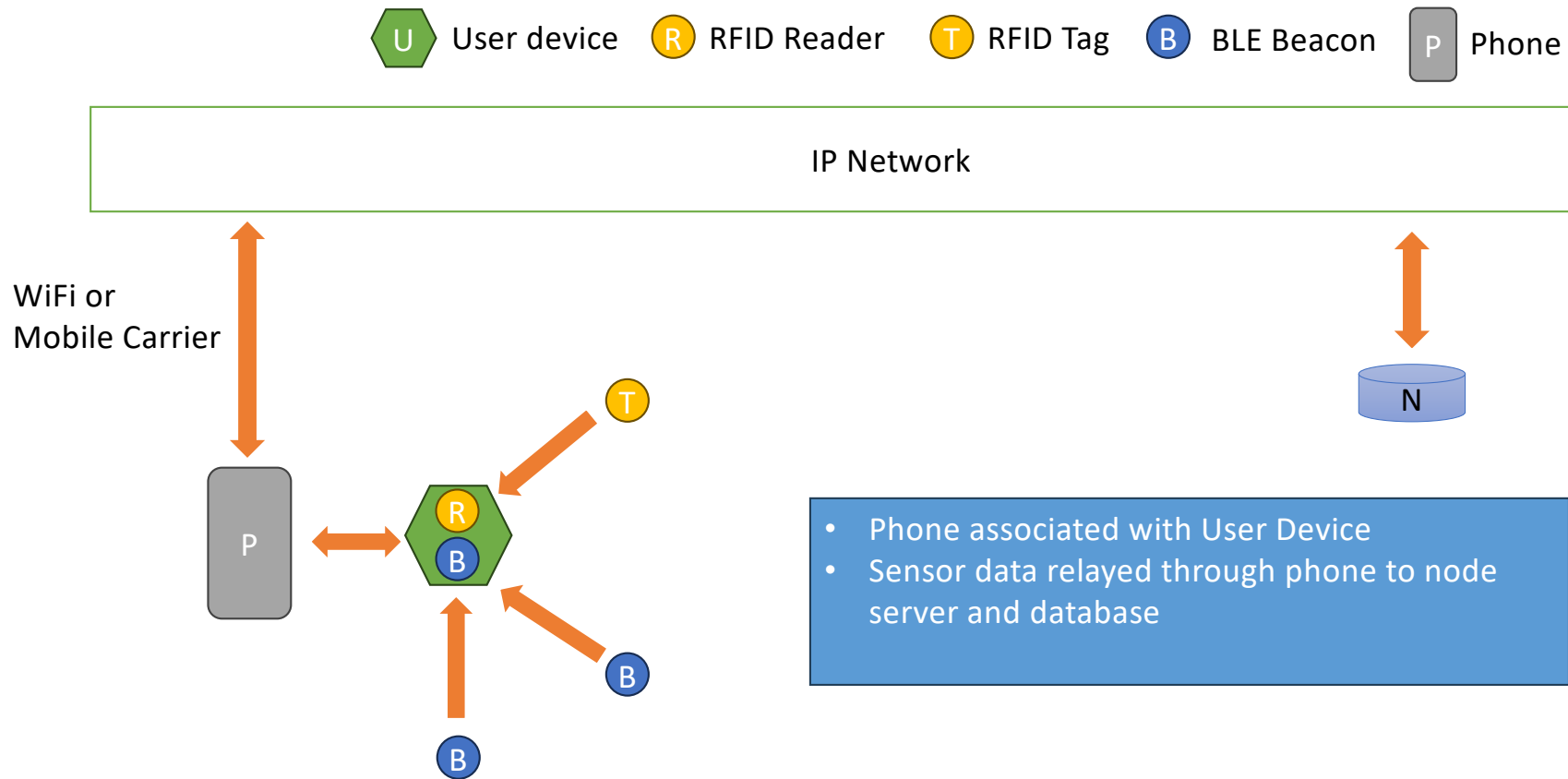
Phone and UD



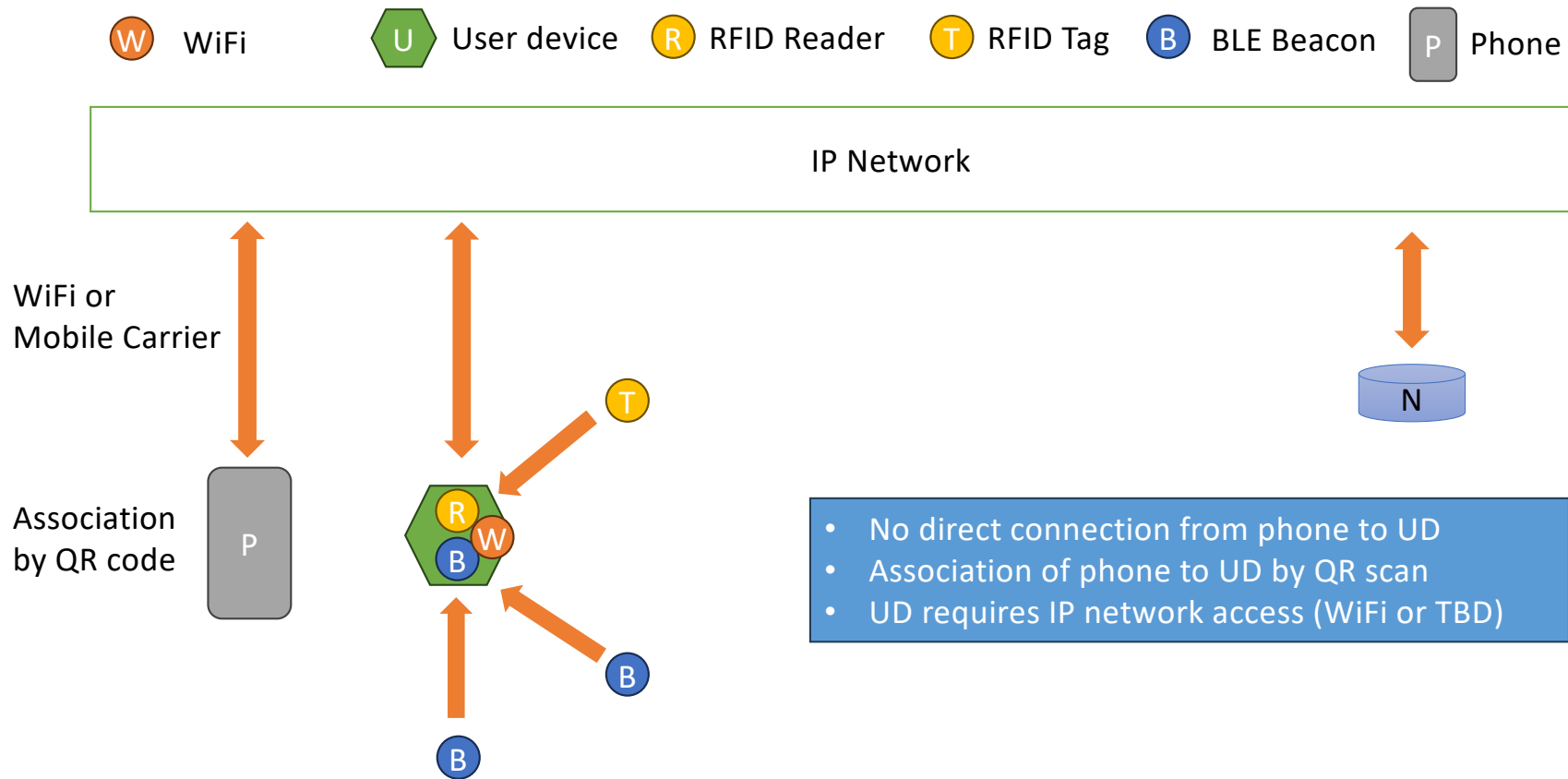
Data Flow



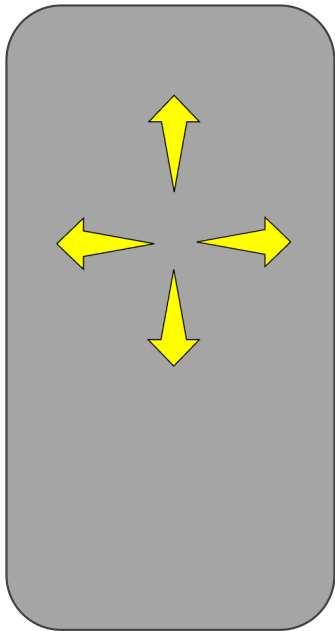
Scenario 1: BLE as Sensors (UD has no WiFi)



Scenario 2: Phone and UD use WiFi



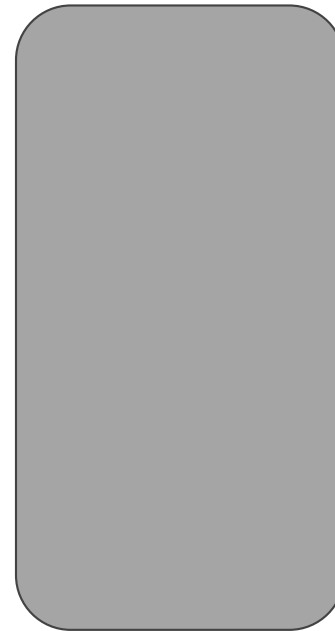
- No direct connection from phone to UD
- Association of phone to UD by QR scan
- UD requires IP network access (WiFi or TBD)



Directions



Traffic Map



XR Content Display