

Accuracy & Range

Accuracy & Range Explained

Accuracy gauges the precision of the Augmented Reality (AR) content in the real world, while Range refers to the distance visitors can travel with an acceptable level of drift from one access point scan.

Map visitors scan access points such as QR codes and Image Access Points (IAPs) to recharge the navigation accuracy and range of their AR experience. This ensures that they can explore a wider distance range while still enjoying accurate content placement.

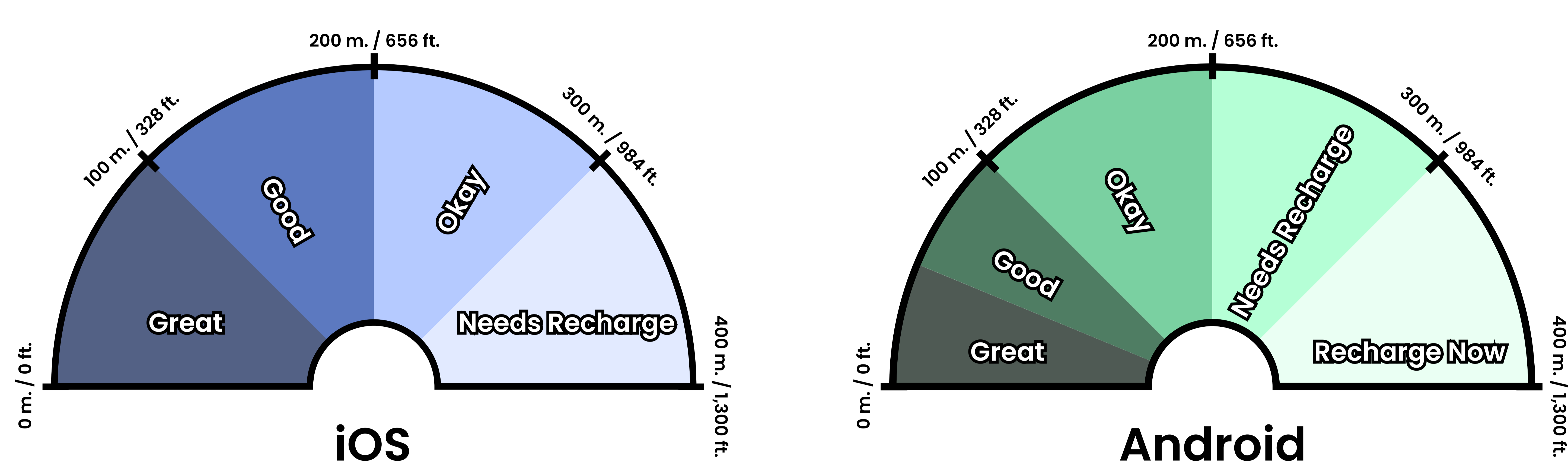
QR Code Placement

Place QR codes at entrances/exits of your map area to provide a scanning point. Add QR codes near connector pins for multi-level navigation.

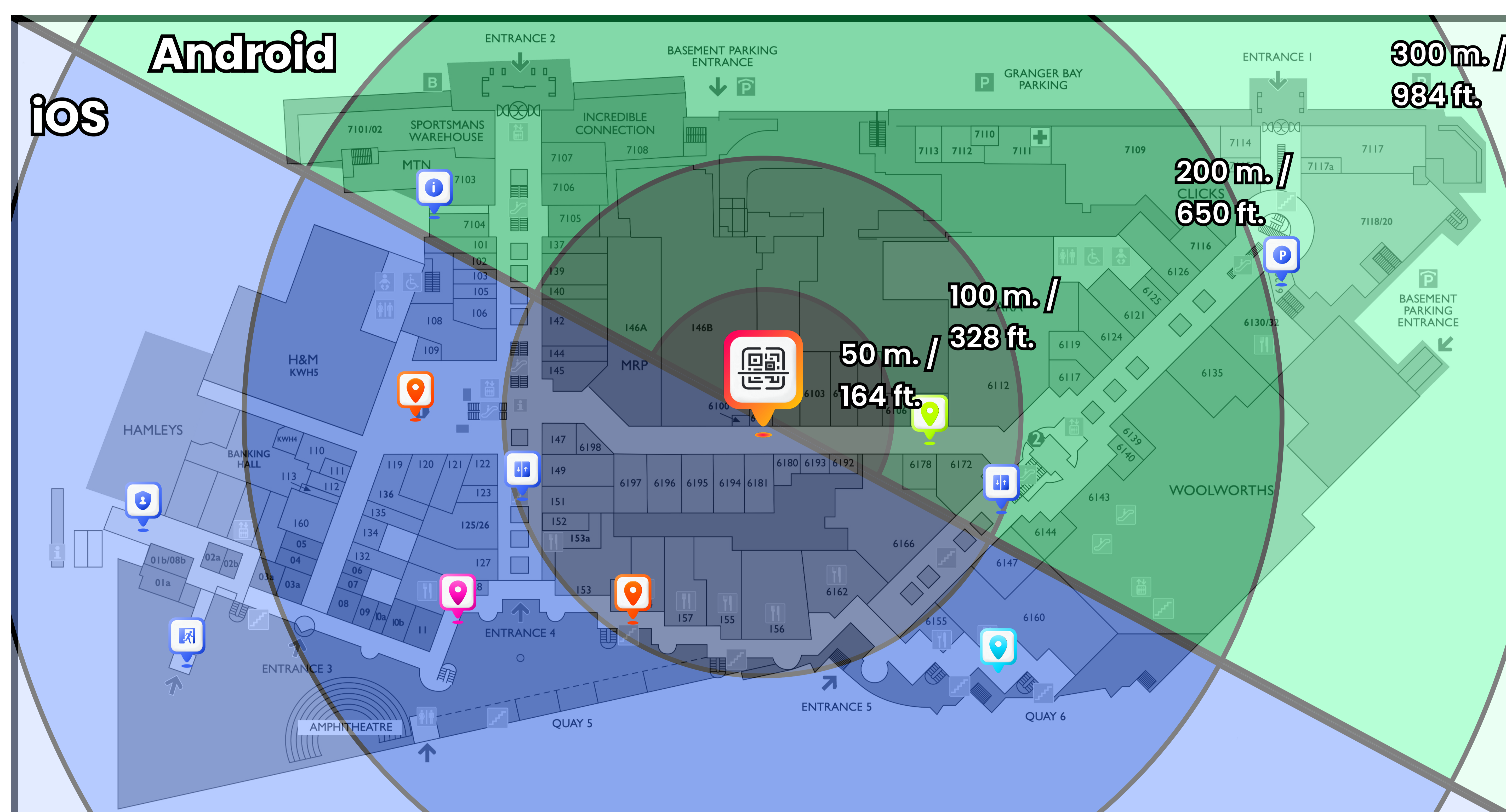
QR codes should be positioned only along the navigation paths you want users to follow.

In large open spaces, position QR codes in easily scannable areas along the paths people typically traverse within the open area.

Distance After Scan & Associated Drift

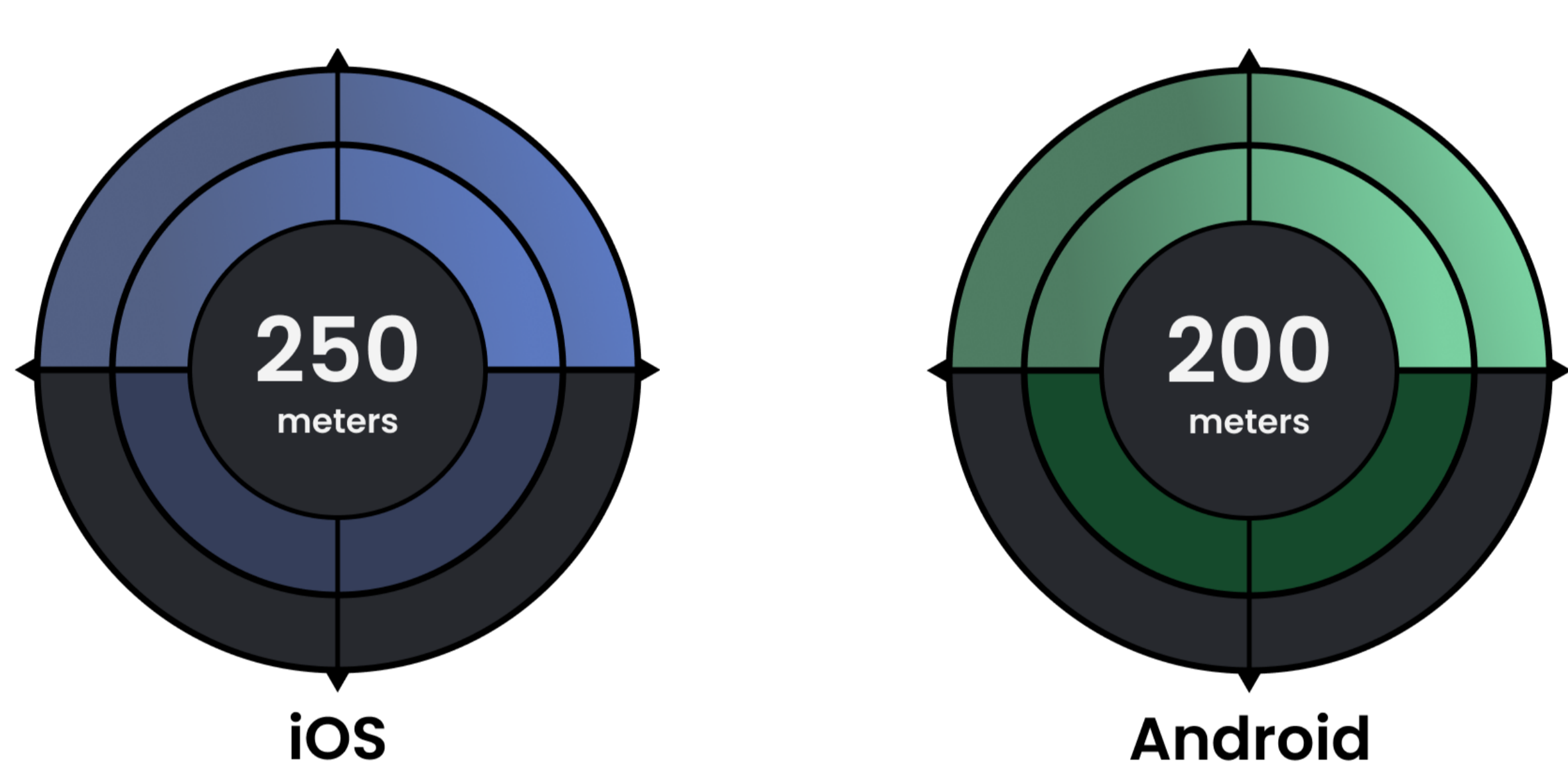


The dials above show the accuracy of the AR content placement after a visitor scans a QR code and navigates in the map experience. Map Visitors can recharge their experience at recharge stations (QR codes or IAPs).



Review the walkable area of your QR code to determine the placement of items in the space. Place the QR codes to cover highly trafficked areas where people can stop and scan.

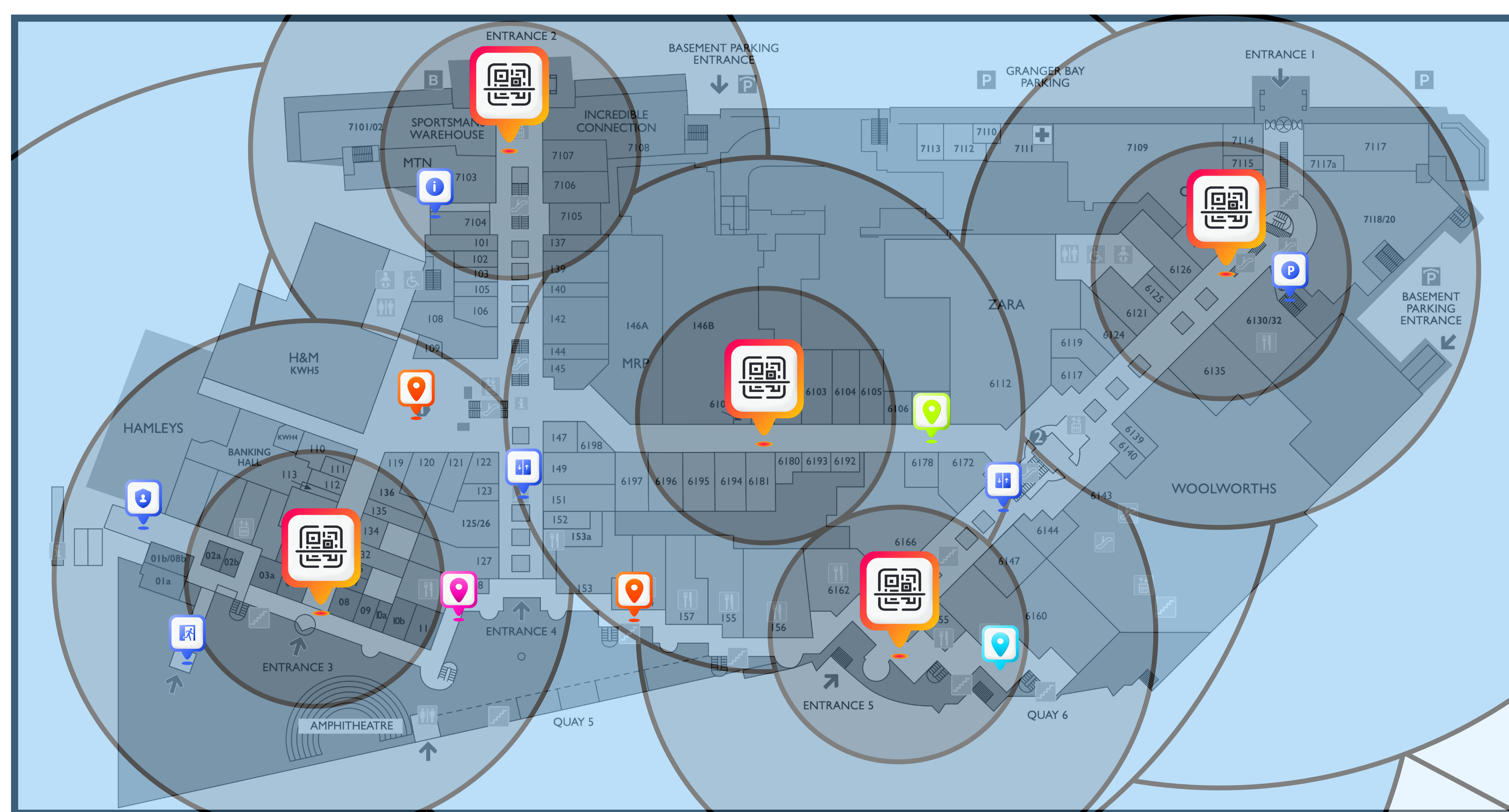
Recommended Max Distance Before Recharge



For iOS and Android, the recommended max distance that a map visitor should travel to avoid noticeable drift is 250 meters / 820 feet.

Place additional QR codes along routes that the map visitors travel to ensure they can recharge their experience.

Multiple QR Codes to Add Recharge Points

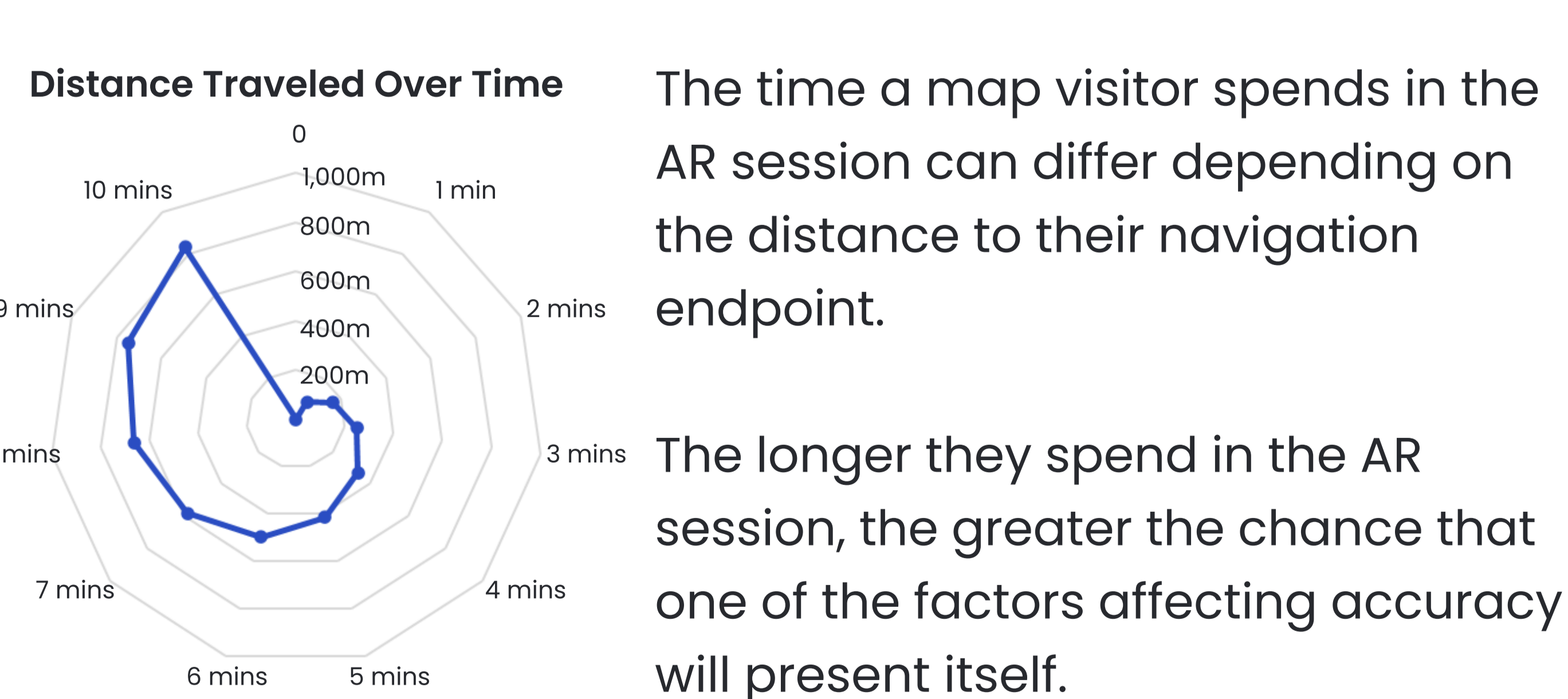


Place multiple QR codes to increase the coverage area they provide. As the user navigates in their space, they can recharge at different points. The multiple QR codes also serve as entry points into the AR map experience.

Factors That Affect Accuracy

- Rapid Movement:** Avoid sudden device movements.
- Blocked Camera:** Ensure the camera is not blocked for accurate measurements.
- Sensor Inaccuracies:** Small sensor errors add up over time, causing inaccuracies to gradually shift from their actual positions.
- Minimizing ARway App:** Keep the ARway app open to maintain accurate camera tracking.
- Dim Lighting:** Good lighting ensures proper tracking by the device camera.

Accuracy Over Time



Drift Indicator Dial



This gauge indicates the location accuracy or "drift" of AR content. Scan any access point when the gauge declines to restore accuracy.

Enable this feature in Map Settings to show users their mapping accuracy, enhancing user confidence in navigation.