

TranspoXR

Using Augmented Reality (AR) to better engage the public during the transportation planning process



Problem Space

Transportation agencies usually conduct engagement sessions during transportation planning to inform and engage the public in decision-making. They will use these sessions to gather feedback and increase public buy-in. However, for planners and the public, there are some obstacles to achieving productivity and efficiency during the engagement process.

We developed a tool with immersive technologies to promote more productive and inclusive community engagement in transportation planning.

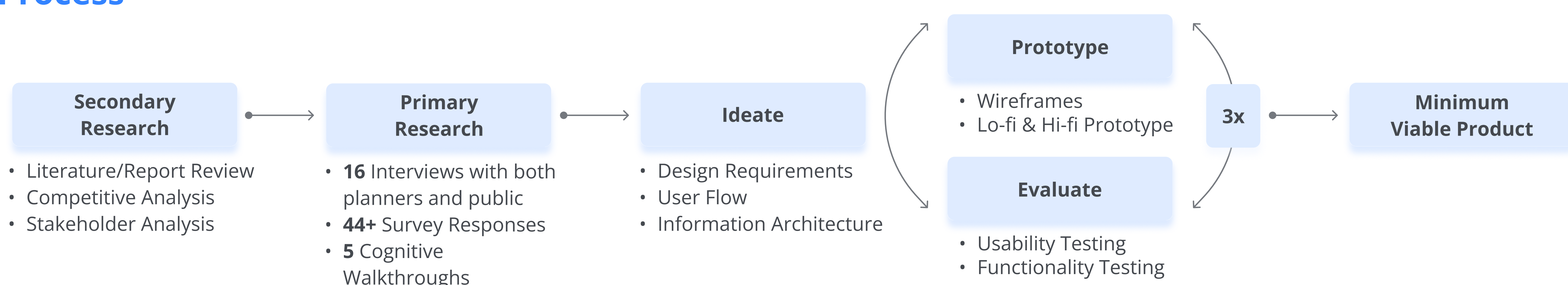
Solution

We created an Augmented Reality (AR)-based, one-stop mobile application that allows the public to immerse themselves in the transportation planning process and provide authentic feedback.

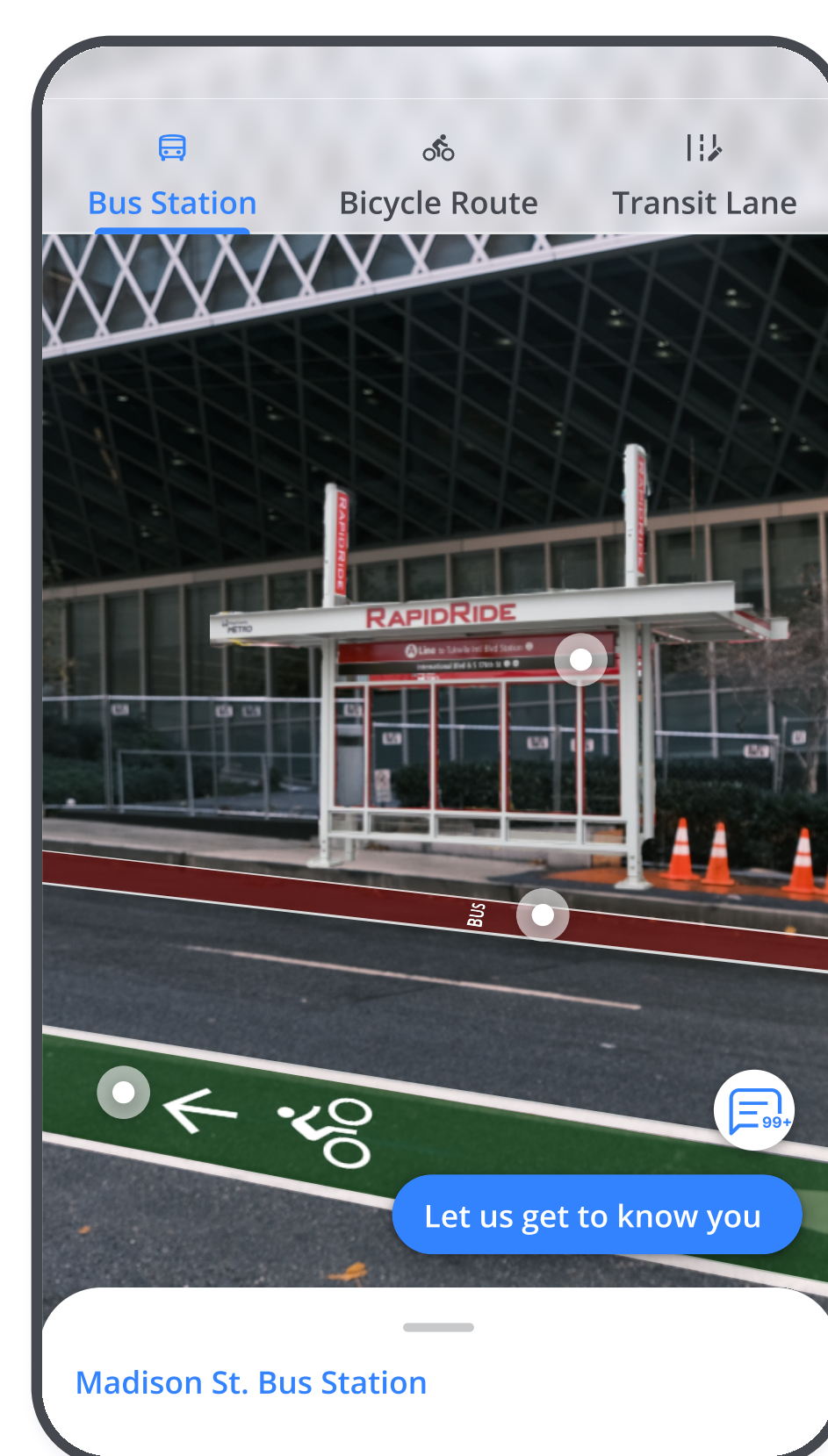
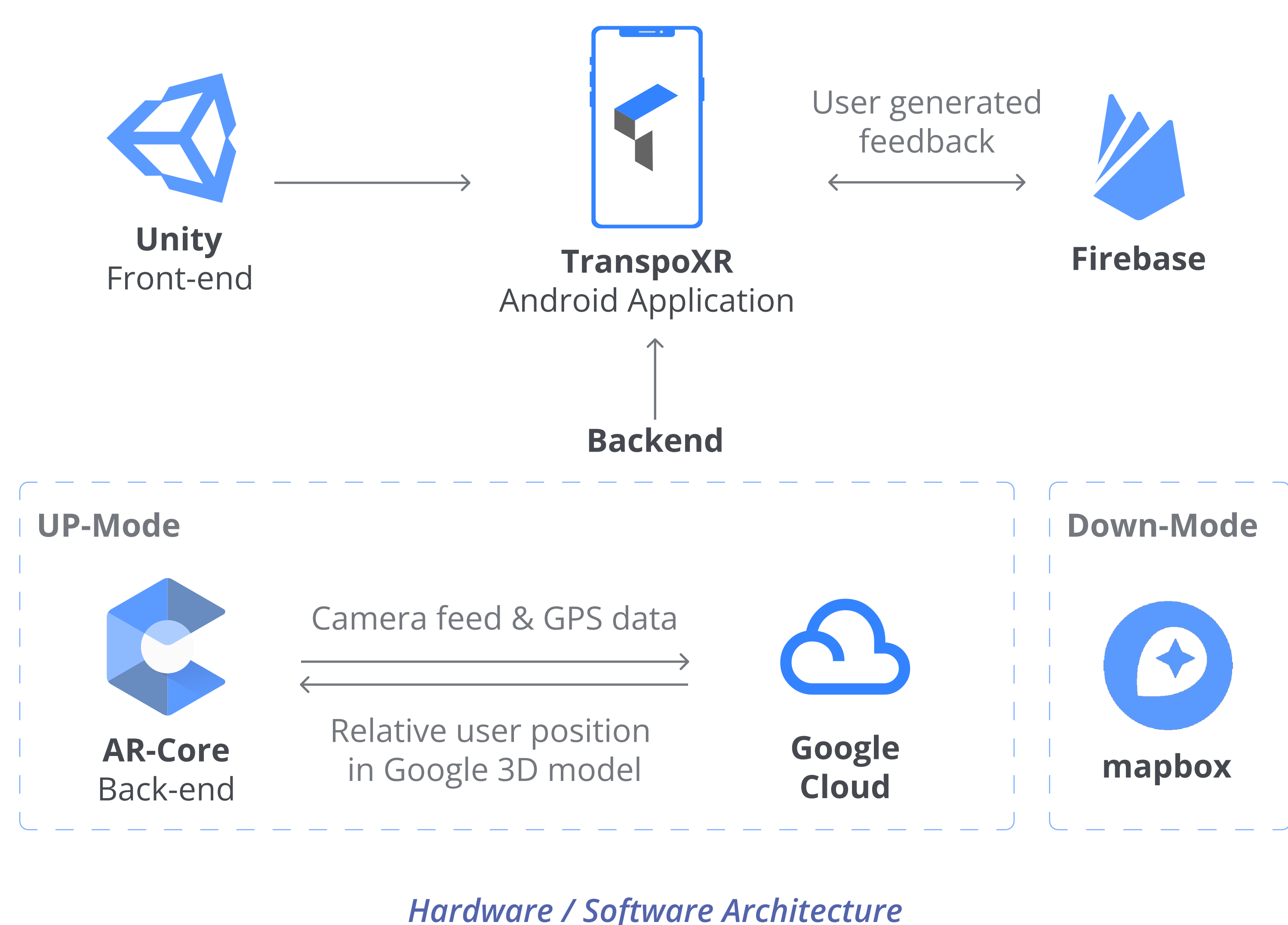
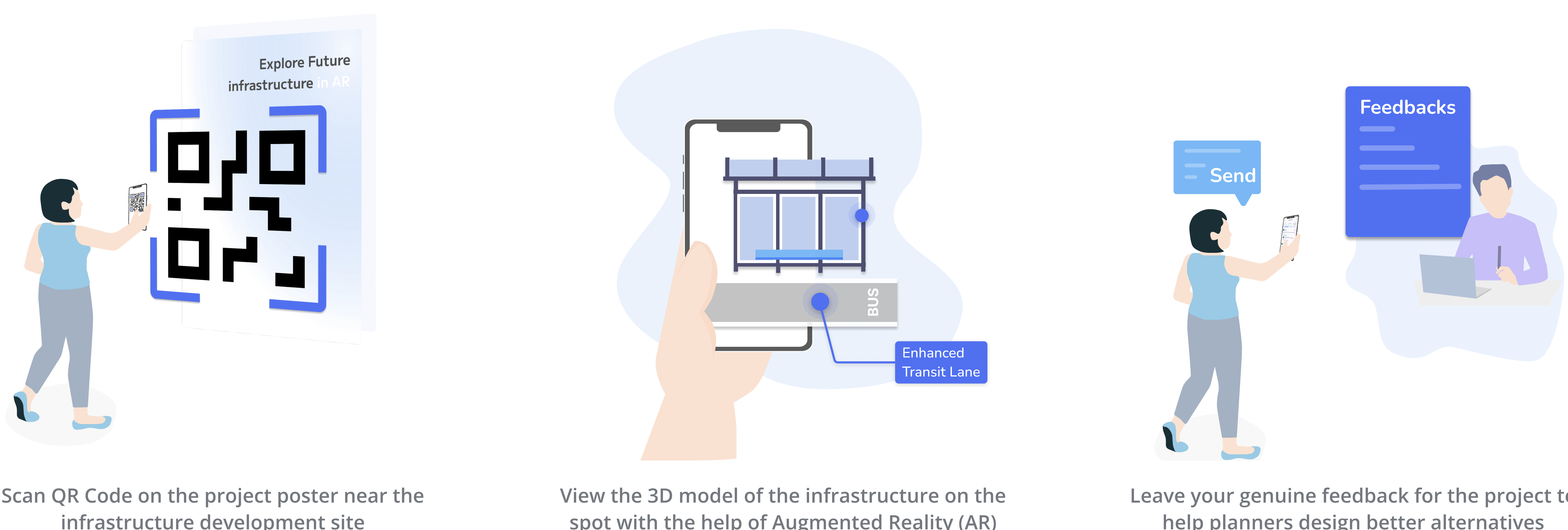
Pedestrians can find an inviting poster near future development sites with a QR code that leads them to the mobile app. After scanning the QR code, our app users can see the proposed infrastructure in an AR view mode while holding their phones upright. When users tilt their phone down towards a more horizontal position, our app automatically guides them to a project information page, where they can see meta-information about the project. Lastly, users can leave feedback and their email to stay informed.

- Enable productive participation**
A mobile AR solution makes it easier and more accessible for people to check out project information and provide feedback at any time.
- Cost-effective for planners**
Compared to traditional outreach methods, we provide a customized and reusable solution to reduce preparation manpower and time cost.
- Empowering & Engaging**
Attractive AR visualization helps the public better understand complex transportation planning projects.

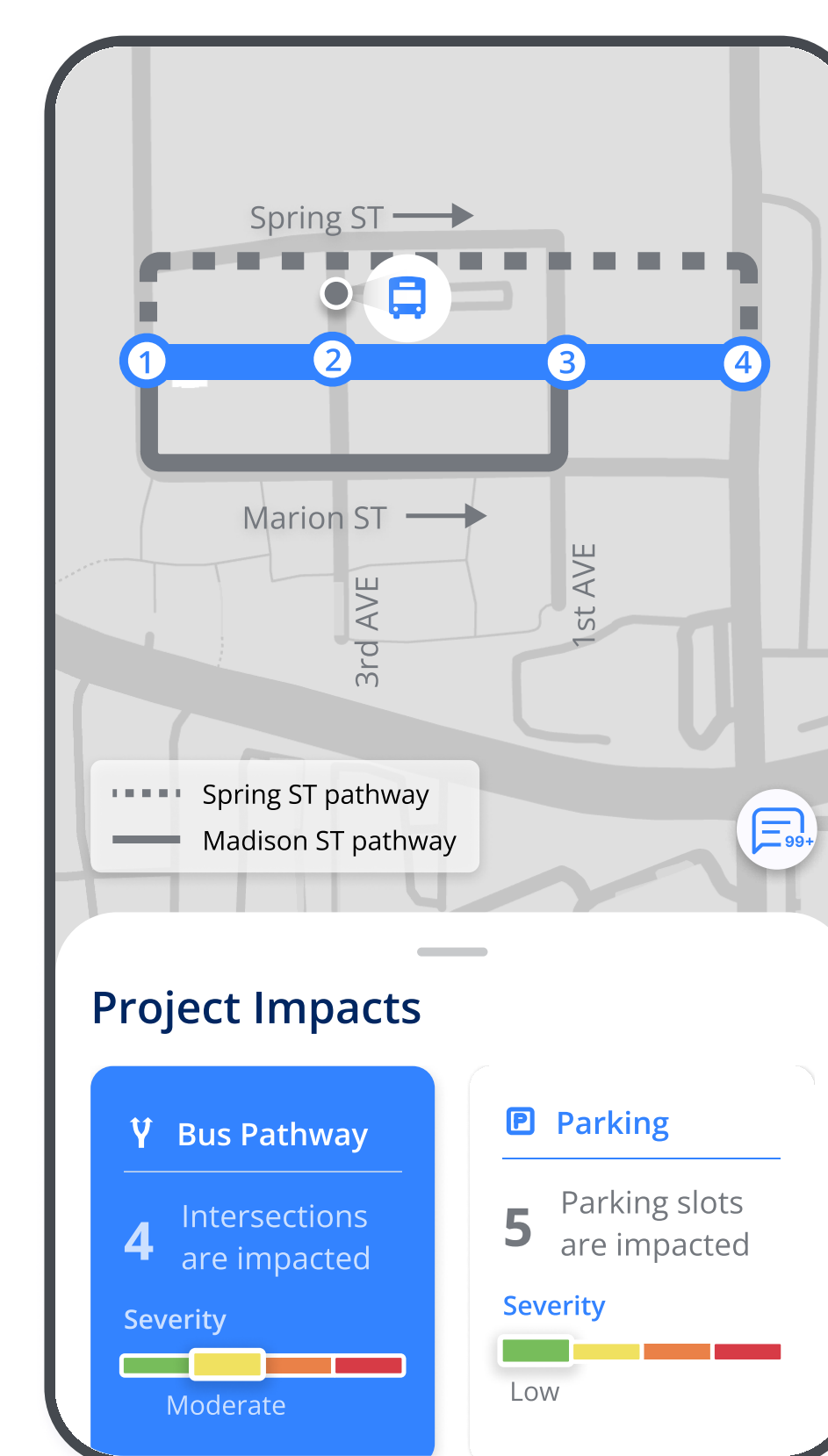
Process



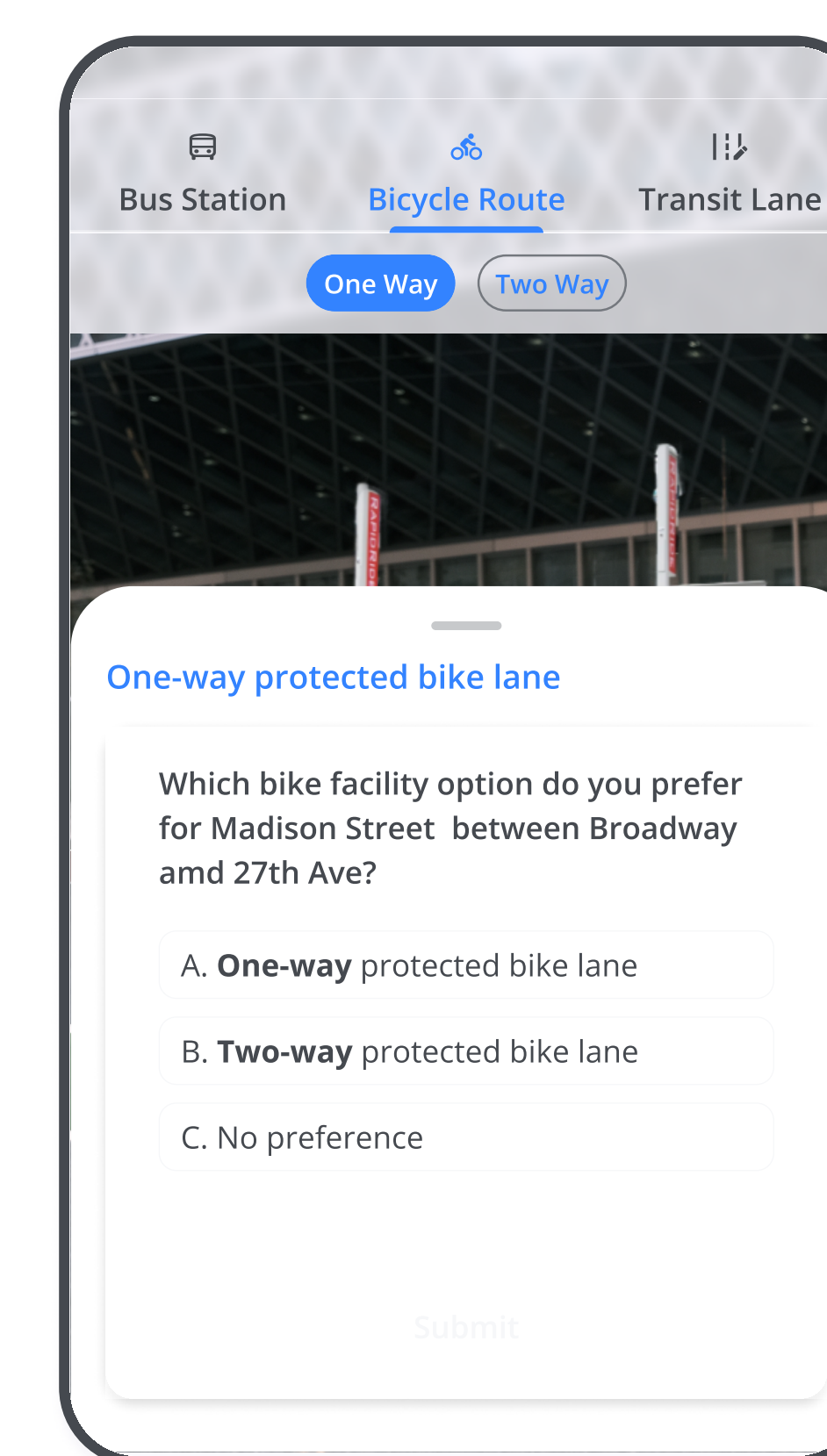
User Scenario



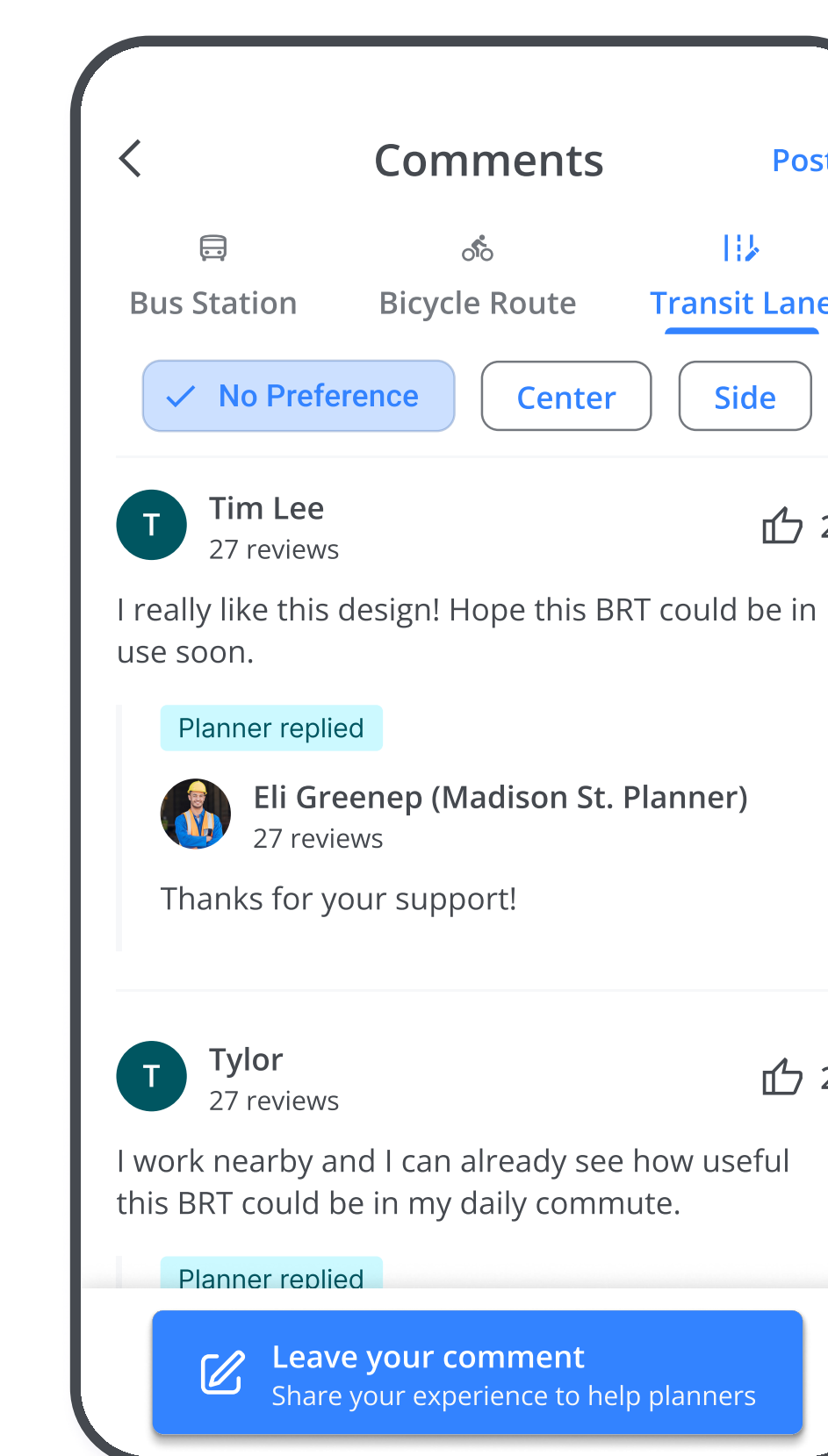
Up-Mode: explore virtual infrastructure in AR



Down-Mode: learn more about operational impacts



Feel empowered by responding to the survey



Comment to interact with other users and planners

Our Team

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