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Reforestation VR User Research

Overview

1. Research Objectives
2. Research Methods
3. Interview Findings
4. Key Takeaways



Research Strategies

Goal & Audience

Gain an understanding of the needs and difficulties Augusta homeowners are facing after hurricane damage. By implementing methods such as field research and interviewing, we will be able to familiarize ourselves with both the past and future struggles the user may face.

Objectives

1. Understand the impact of the Hurricane on Augusta residents, and understand the needs of our target users.

2. Identify 3d tree models using poly-scan technology.

Research Methods

Field Research

- By utilizing the process of dogfooding, our team of developers collected 3D models and scans of trees in the real world by using poly-scan technology.

Interviews

- Thomas Mote, an Augusta homeowner, was interviewed along with his wife.



Field Research







Developers collected 3D models and scans of trees in the real world by using poly-scan technology

Interview Questions

- Do you have a LiDar capable device?
- Have you ever used an AR application? If so, what's your familiarity?
- What would you look for in a tool that allows users to visualize how trees would look like in their yards in real time?
- What is your knowledge of your local tree ordinances?
- Do you know how to purchase recommended trees?
- Have you ever been left without power from a hurricane/storm?
    - What was the longest time you were without power?
- Have you ever had property damage from a hurricane/storm?
- Have you ever planted a tree, or contributed to reforestation efforts?
- Could you detail the process of replanting trees in your yard post Hurricane Helene?

Interview Findings

(Interview with Thomas Mote)

“We were without power for more than a week following Hurricane Helene in September-October 2024”

“I am familiar with LiDAR, but would need to know more specifics about the LiDAR requirements and the device in question before answering.”

“Yes, I have used the AR lab in the Miller Learning Center, but I would say my familiarity is modest.”

“I would want to know where shade would strike at different times of day, so it would be helpful to vary solar angle. I would also want to know where the shade intersects the house, and the potential for branches to fall on the house. ”

Interview Findings

- The hurricane left people without power for multiple days.
- Users prioritize shade and branch falling dangers important features to have.
- Users believe reforestation after tree depletion is necessary.
- Most users would need a tutorial on how to use and navigate an AR application.

Interview Findings









Thank You

