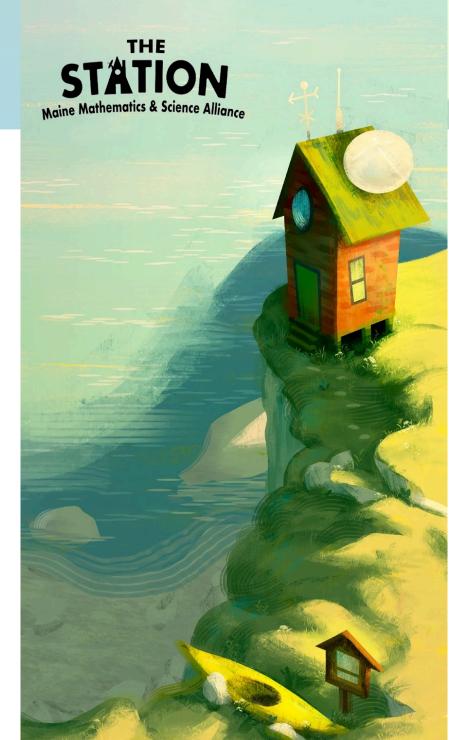
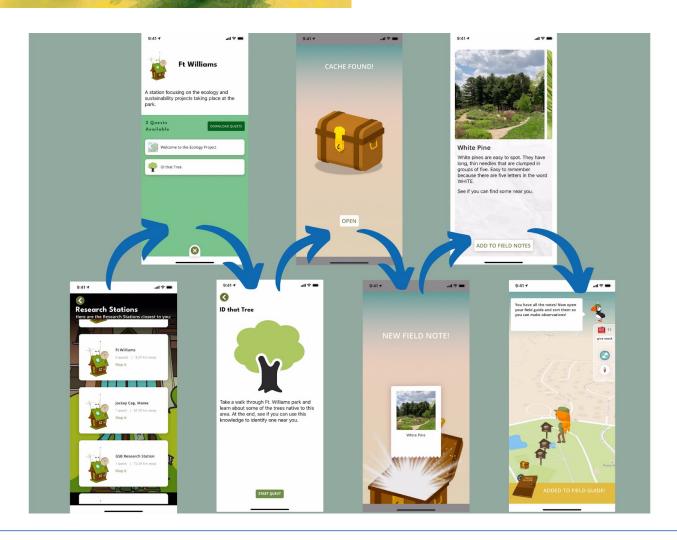
STEMports: Community Workforce Development through Augmented Reality STEM Learning Experiences

Susannah Gordon-Messer – Maine Math and Science Alliance (MMSA), Ruth Kermish-Allen-MMSA, Gary Lewis-MMSA, Sue Allen-MMSA, David Gagnon – Field Day Lab, University of Wisconsin

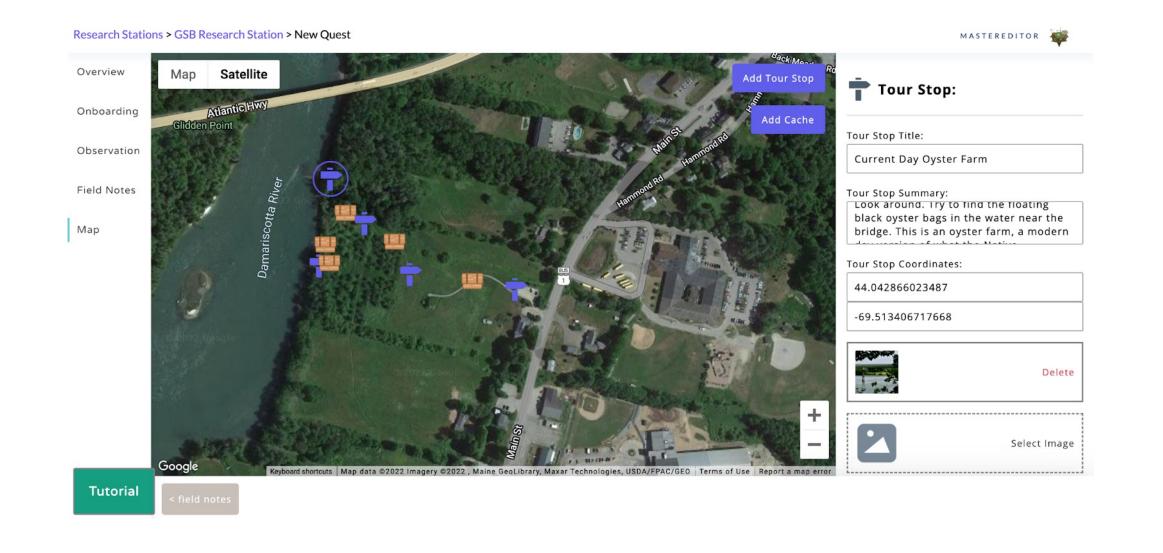


The Station is a collaboratively designed AR iPhone app connecting players to the world around them through educational quests.

A community need: Museums, parks, land trusts and similar spaces are rich learning resources for rural communities. They are eager for tools to help them connect with teachers, students, families and the public.



The App: We launched The Station in in the Apple app store in early 2022. The basic game loop can be seen in the above image



rapid prototyping.



Students, teachers, and informal educators have a new format in which to connect to learning. Organizations have a enhance tool to educational outreach youth voice empower choice.





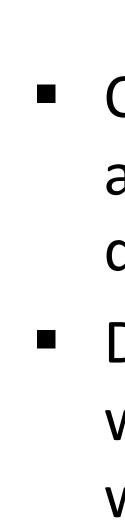
IRG FY 2018

The Editor: Content is created through a web-based editor. Users can add text, photos and GPS locations without the need for coding knowledge. This allows for



Development of a model for for working with museums, parks and other spaces will inform the technologies and AR | learning communities as they developer further engagement work to through the use of educational technologies.





Community Engagement and Research

- Held
- - include:

Intellectual Merit

Creation of an AR app and companion editor that allows users to create and play their own AR quests for community STEM learning

Development of models and best practices for working with outdoor based organizations who want to engage communities using technology

Geographic Focus: Rural Maine communities Dozens of quests co-created with partners across Maine to meet their educational needs. student centered design workshops directly engaging middle school youth.

Used survey and interviews to collect data from students and community partners. Key findings

> High levels of youth engagement with both content and the design process. Partners increased appreciation of how technology can enhance the tell the stories of their work.







Next Steps

- Expand resources to formal and educators the tools they need to create content independently.
- Provide opportunities for existing partners connect community of *The Station* users who can support each other.
- Analyze final data and publish results.

