

#### **2019 LEARN Conference**





#### Using Mixed Reality to Enhance Language and Cultural Training



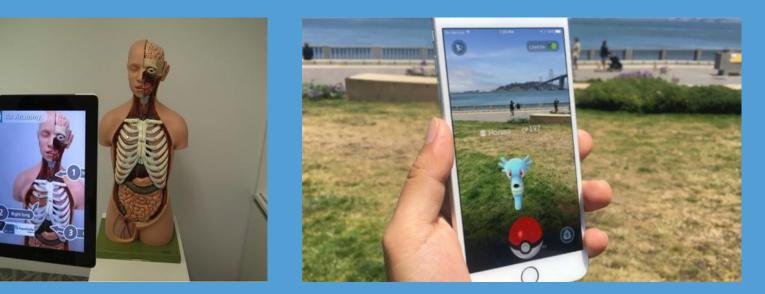
Presenters: Assia Naidji, Corina August-Falcescu, Tim Hayes Department of State - Foreign Service Institute March 25, 2019



#### What is Mixed Reality?

- Combines digital interaction with the experience of the real world
- Different from Virtual Reality
- Real-time interaction
- Registered in 2D or 3D









### Background

- Audience: diverse professional interests, widespread backgrounds and learning profiles, varied language proficiency levels
- Context: security requirements related to geo-tagging/geo-localization, and monetary limitations
- Purpose: need for technology-infused materials to teach language and culture outside the classroom, immersion-like





# SCAVENGER HUNT All Roads Lead To.



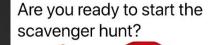
#### Mixed Reality for Language Learning







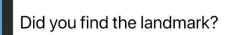
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I'm ready!



×



Great, take a picture of it!

Watch the directions again.

I need a hint!

Good job! Collect your reward.



**Collect my reward** 



**Collect item** 



- Problem solving: learner-centered, task-based interaction
- Fluency: listen to authentic, not simplified language
- Retention: practicing vocabulary by applying to task in real world context



## Game Dynamics



Competition / Collaboration



• Badges

Discover culturally relevant information

Rewards – Knowledge is power







- Increased engagement/motivation
- Realistic practice outside the classroom
- Built-in assessment and feedback
- It's FUN



#### Feedback

The activity is engaging and interactive.

Learning in a new way – getting out of standard classroom mode is productive.

An opportunity for practicing material and learning about culture. Create more activities of this type!

It is rewarding to see the students handle the activity with autonomy. Instructor Movement stimulates learning and memory.

Builds trust in their language abilities. Instructor





- Metaverse is a platform that makes it easy to create mixed reality interactive experiences
- Widely used in K-12
- No programming needed



## Replication

- Experiences can easily be shared, cloned, and reproduced in other languages
- Reduced overall production time
- Possibility to create other games

"Amazing activity!Very easy to adapt to the Italian language and culture." Italian Instructor

"It was ready in no time. And it's great that we can highlight popular Italian landmarks." Italian Instructor

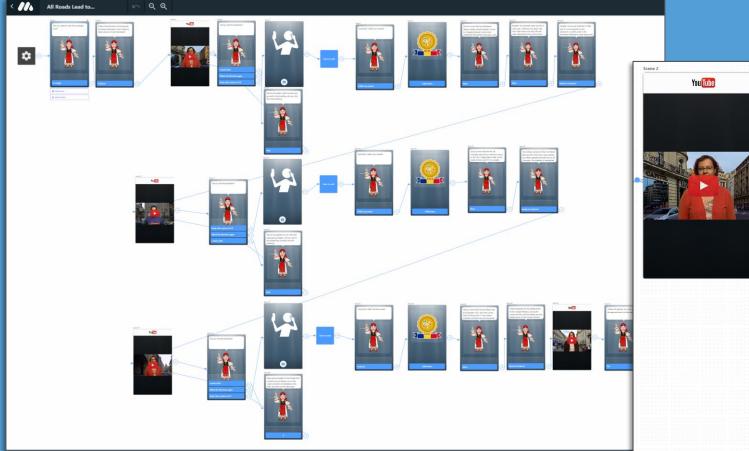


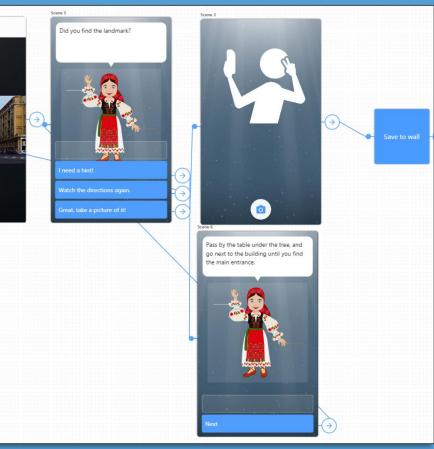
## Metaverse Features

- Character dialogs
- Interactive branching
- Photo/video walls
- YouTube video
- 360-video
- Multiple choice questions
- Free response questions
- Polls
- Custom code implemented via *blocks*



## Authoring

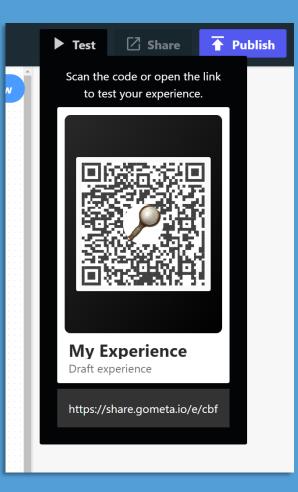




*Experience* authoring on a *Storyboard* 

Connected Scenes

## EX Testing / Publishing



- One-click instant play testing on device
- Publish your experience publicly, as part of a group, or unlisted



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