

Canyon Country Cultural Landscapes:

A Tribal Education and Community Engagement Resource

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Goals and Objectives

- Deliver educational narratives through VR experiences that feature cultural heritage landscapes by layering narratives from:
 - Indigenous Communities
 - Land Managers
 - Archaeologists
 - Conservationists
- Create platform for the creation of Tribal Education Modules specific to the needs of partner communities
- Raise the *right kind* of awareness
 - Maximize emotional connections to the land
 - Minimize negative impacts
 - Remain respectful of our responsibilities to these landscapes



CCCLVR Project Phases

- Phase 1 (Ongoing)
 - Moon House VR
 - Virtual reality representation of Moon House and its surrounding natural and cultural landscape in the Cedar Mesa area of SE Utah
- Phase 2 (Initial Stages)
 - Tribal Education Models
 - VR experiences tailored to the educational objectives of partner communities

Tribal Engagement Plan

Step 1 – Initiate Consultation via BLM

 With the involvement of our team, Monticello BLM Field Office formally initiated government-togovernment consultation with project participants, beginning with a letter of invitation from the agency. This letter notified them that the project staff's (our team) intend to contact both the THPOS and individual tribal members whom we hope to work with on the project. Our team provided comments and input on this letter of contact.

• Specifically, we are contacting the appropriate representatives of the Bears Ears Intertribal Coalition:

- The Hopi Tribe
- The Pueblo of Zuni
- The Ute Mountain Ute Tribe
- The Ute Tribe (Uintah and Ouray Reservations)
- The Navajo Nation

And:

- The Kaibab Band of Paiute Indians
- The San Juan Southern Paiute Tribe

*Additional tribes will be contacted in later phases of the project to gauge their interest in participation

Tribal Engagement Plan

- Step 2 Contact THPOs of Bears Ears Intertribal Coalition Members
 - Our team is contacting both the THPO and Cultural Preservation offices of the Bears Ears Intertribal Coalition members, following up on the BLM letter of invitation for the project. Following these initial contacts, Drs. Pleshet and Bellorado will request a meeting with THPOs and cultural preservation to discuss the project and to gauge the interest of each tribe in participating. Drs. Pleshet and Bellorado are also contacting individual tribal members whom we hope to work with on the project due to their specialized knowledge related to different aspects of the cultural and archaeological resources in study areas. Following tribal governance processes, all of the contacts will be approved by each tribe's THPO or cultural preservation offices.
- Step 3 Contact nominated tribal members and other stakeholder groups
 - Initiate conversations with them about the site and the project, and to solicit feedback and participation in short interviews, video and audio recordings, and project reviews meetings.
- Step 4 Content Development
 - Conduct short interviews, video and audio recordings, and project reviews meetings with specific tribal members to develop a portion of the content for the Moon House VR exhibit.
- Step 5 Review
 - Once the draft project outputs including reports and the Moon House VR model are complete, the tribes and their representatives can comment on prior to final inclusion in the Moon House VR educational tool.

LIGHTING NEEDS TO BE REBUILT (12 unbuilt objects)

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Canyon Country Cultural Landscapes VR

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Phase I: Moon House and Virtual Museum

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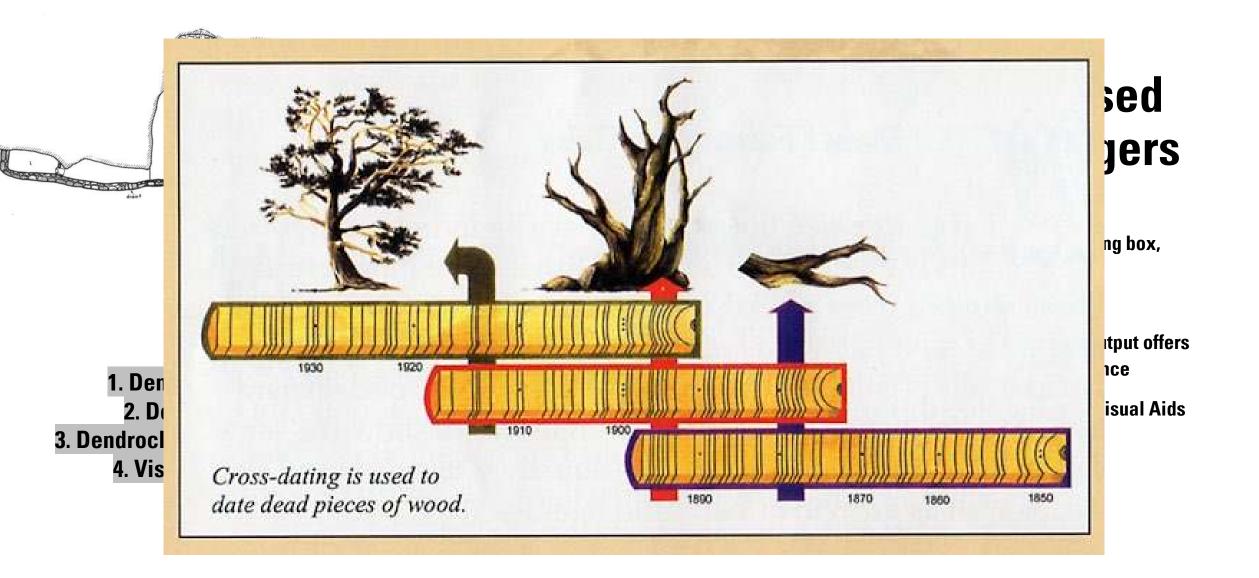
Flythrough



Location-Based Content Triggers

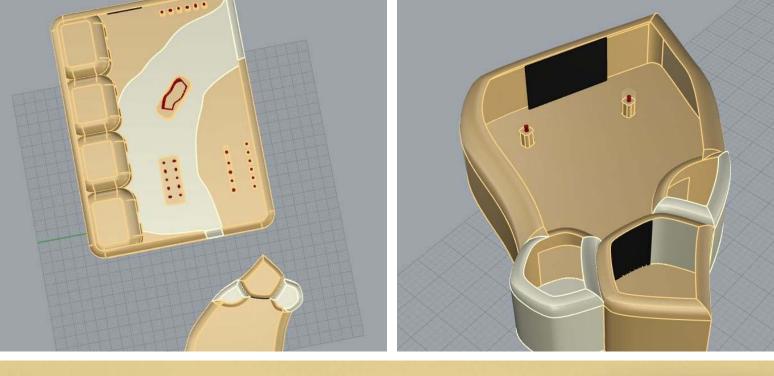
Perspective

LR SHOW



Virtual Museum

- Interactive showcase for indigenous art & artifacts
 - Ancient
 - Contemporary
- Interactive map of Cedar Mesa





Canyon Country Cultural Landscapes Phase II

	Engage	Provide tools for tribes to engage tribal youth with modern technologies loaded with narratives related to preserving senses place and ways of life
	Revitalize	Revitalize connections to canyon country landscapes in the Four Corners
	Reconnect	Develop a new venue for reconnecting tribal members with distant homelands and ancestral sites
	Access	Provide new tools for tribal elders and knowledge holders with accessibility and mobility issues to access ancestral sites and landscapes
	Create	Develop tools for tribes to engage their members with educational content and messaging developed for their own purposes and needs
	Outreach	Access, use, and distribution of each tribal module will be controlled by each participating tribe's Tribal Historic Preservation Office or equivalent entity and in collaboration with the MFO-BLM and CCAC



Input -> Content library

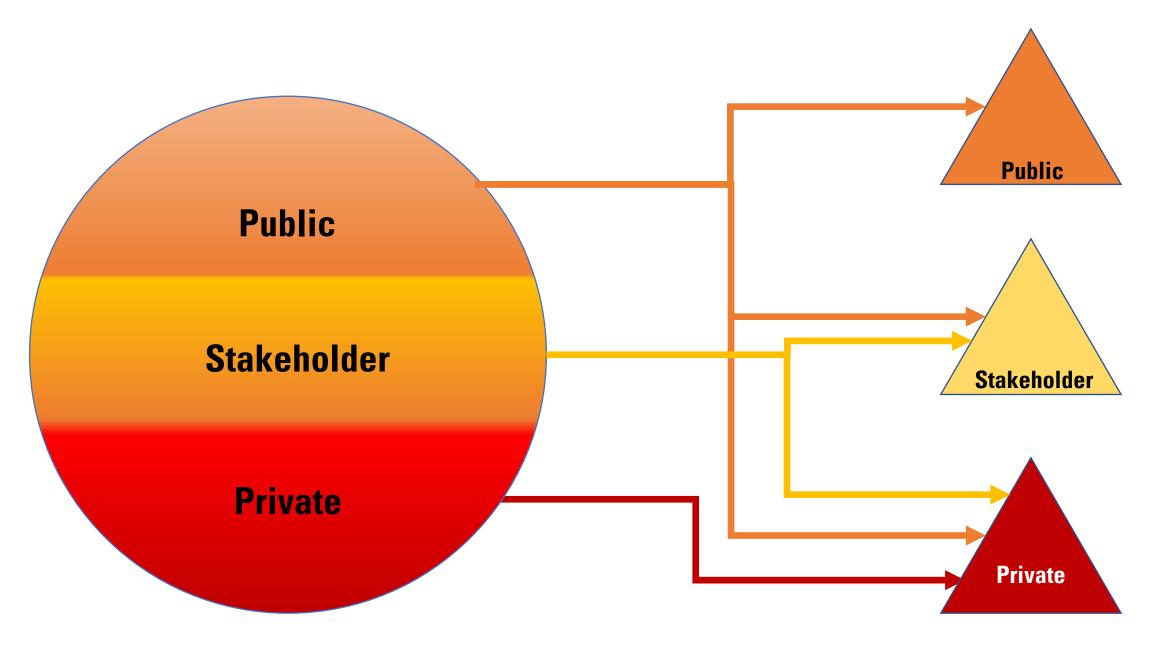
- 3D Models of sites and objects
- Audio (interviews, etc.)
- Historical Resources (photographs, videos, etc.)
- Output -> Customized VR experiences optimized for use by tribal partners and other authorized users
 - Tribal Historic Preservation Offices
 - Digital distribution
 - Visitor's Centers
 - Community education initiatives

Content Library



Three tiers of encryption, privacy, and access

- Public
 - Approved for access to all potential viewers
 - Wide digital distribution, downloadable, etc.
- Stakeholder
 - Approved for access to small, specific groups of visitors (e.g. resource managers, tribal members etc.)
 - Limited distribution, for sharing in small private or semi-public settings, only installed on select non-internet connected devices
- Private
 - Approved for access for only select individuals
 - Limited distribution, only installed on select non-internet connected devices
 - Not accessible by all project members!



Content Library

Experience Development

Project Staff:

- Dr. Ben Bellorado (PI) CCAC & U of A SOA Local archaeologist, ethnographer
- Dr. Noah Pleshet (Co-PI) U of A SOA-BARA Ethnographer and cultural anthropologist
- Dr. Eric Heller (Co-PI) USC Archaeologist, lead VR designer **Crow Canyon**:
- **Rebecca Hammond CCAC Native American Initiatives and Education**
- Laura Brown CCAC Videographer and audio/visual content editor
- **Dylan Schwindt CCAC IT support and digital curation University of Southern California Students and Faculty**
- Native American Student Assembly
- USC ArcLab •
- **Department of Anthropology**
- Visual Arts

MFO-BLM:

- Jared Lundell BLM-MFO-BENM Archaeologist •
- Misti Haines BLM-MFO Outdoor Recreation Planner

Our indigenous partners and communities!





USCSchool of Cinematic Arts

NYON





We'd love to hear from you!

To provide feedback or get involved please email:

erichell@usc.edu