



# Cultural Resources Data Platform

Introduction for ACHP members



February 12, 2026  
ACHP Business Meeting

# Project Goals

- Use AI-driven tools to make access to information about where historic properties have been identified easier and more available in early project planning
- Leverage data to help project planners avoid conflicts with historic properties
- Time savings and cost efficiencies
- Improvement to the overall permitting process



# Context

- Permitting Council Investments in IT Solutions funding opportunity in 2024
- Presidential Memorandum (PM), Updating Permitting Technology for the 21st Century, April 2025
- CEQ Permitting Technology Action Plan, May 2025
- ACHP Permitting Technology Action Plan Implementation Plan, August 2025
- September-October 2025: ACHP proposes and Permitting Council approves IAA scope modification for AI-powered Cultural Resources Data Platform



# Planned Capabilities

- AI agents retrieve relevant geographical and cultural resources data remotely from disparate systems
- Generate a project research report to inform early project planning
- Offer visual simulation tools to help predict potential resource impacts based on geography
- Optimize location or route planning

# Safeguards and oversight

- Development of data sharing template agreements
- Security architecture meeting high federal standards
- Development of access controls before any sensitive data is included
- Mandatory human oversight

## **Core Challenge**

Balancing speed of infrastructure development with consideration of effects to historic places

## **AI Solution Architecture**

Integration of AI Deep Researcher agents, Google Earth AI, AI World models for comprehensive analysis of geospatial data, records, and interactive visualizations.

Google  
AlphaEarth  
Geospatial  
intelligence for  
environmental &  
cultural impact  
assessment



Deep Researcher  
Agentic AI  
Automated  
discovery and  
synthesis of relevant  
regulatory documents

AI Semantic Layer  
Programmatic data  
labeling and quality  
assurance for  
compliance

Google Cloud  
GraphRAG AI  
knowledge hub for  
contextual  
understanding of  
complex regulatory  
data relationships

# Benefits

---

## **Federal agencies/Applicants:**

- Process efficiencies where avoidance strategies are identified
- “Eyes wide open” to plan for consultation, identification
- Time and cost savings in data gathering

## **States, Tribes, other preservation stakeholders:**

- Connect agencies and applicants to the most relevant data sources
- Flag areas earlier where historic property conflicts could arise



# Next Steps

- Data landscape survey
- Proof of concept within six months
- Identify partner agencies for pilot
- Pilot system testing and refinement
- Soft launch approximately 15 months
- Public availability in approximately 18 months

