

Project Summary

Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Enterprise Digital Information Management Research for the NPS

Discipline: Interdisciplinary
Type of Project: Research
Funding Agency: National Park Service
Other Partners/Cooperators: Colorado State University
Effective Dates: September 15, 2009 - September 30, 2013
Funding Amount: \$337,000 (FY12: \$100,000; FY09: \$237,000)

Investigators and Agency Representative:

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Project Abstract: Colorado State University is to provide in-depth research and tactical implementation guidance for integration of data and metadata services required by partner digital information services (DIS) projects that lack the ability to manage and provide public access to their program information. Project components include the American Recovery and Rehabilitation Act (ARRA) projects, Abandoned Mine Lands, Facilities Assets at Risk (of Wildland Fire), National Register of Historic Places, Facilities Condition Assessments, and Civil War-related features and sites of interest that require the ability to dynamically link disparate data and metadata sources, such as digital images and documents, into a common, web-based service. To understand and meet these requirements, CSU researchers will collaborate with affiliates at other universities, non-Federal support groups, and NPS staffs to research, compile, integrate, and test new ideas and methods to manage and publish eclectic resource information for easy public access.

This effort will primarily investigate and research new methods for capturing, managing, and transferring thematic resource data and metadata (library, geospatial, tabular, images, etc.) from multiple (often disparate and widely distributed) sources to enterprise services capable of disseminating multiple themes and resource/recreation information over the public Internet. Information captured via these systems also will be published to dynamic document, image, and metadata services, and other database applications for sharing among partners and the public. Assistance with this project will include focused stakeholder and workflow requirements analyses, workflow documentation, and research, development, and implementation of related spatial and non-spatial metadata, data, and applications.

This task agreement relates to other cooperative work (e.g., GIS) with the common goal of providing state of the art management and utilization of traditionally disparate data sources to produce accessible and easy to use information products for the broadest possible audience (including reuse by others outside the NPS). Different aspects of this goal are under R&D with multiple partners, including University of Arizona, Montana State University, New Mexico State University, North Carolina State University, Northern Arizona University, University of Nevada-Reno, and University of West Virginia, among others.

Outcomes with Completion Dates: Due Date for Final Report and/or Other Products: September 30, 2013

Keywords: Digital Information Management, GIS, digital information services (DIS), National Park Service, Resource Information Services Division, Colorado State University