

Project Summary
Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Digital Asset management, Geographic Information Systems, Remote Sensing, Global Positioning Systems, and Mobile Mapping Research and Development for the NPS RISD Program

Discipline: Interdisciplinary
Type of Project: Technical assistance and Research
Funding Agency: National Park Service
Other Partners/Cooperators: Colorado State University
Effective Dates: 9/10/2014 - 12/31/2017
Funding Amount: \$1,785,656

Investigators and Agency Representative:

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Project Abstract: The main component for this agreement is to provide in-depth research and tactical implementation guidance for integration of enterprise data management, web mapping, mobile services, and digital asset management systems required by partner GIS project components that lack the ability to manage and provide access to their own program information. Project components include, but are not limited to, Abandoned Mine Lands, Air Quality, Cultural and Natural Resources, Federal Lands to Parks, Fire, National Trails, Coastal and Marine Resources, and Transportation-related geospatial features and sites of interest that require the ability to dynamically link disparate attribute databases, digital images, and documents into common services. To understand and meet these requirements, CSU researches will collaborate with affiliates at other universities and agencies, non-Federal technical and support groups, volunteers and interns, and NPS staff 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 and transferring thematic resource data (geospatial, tabular, images, documents, etc.) from multiple (often disparate and widely distributed) sources to enterprise data services. Information captured via these systems also will be ported to various GIS, asset management services, and other database and web applications for sharing among partners, NPS staff and the public.

Keywords: NPS- Resources Information Services Division, Colorado State University, research, technical assistance, data capture, data management