



Greg Matthews

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US Geological Survey

PRESENTATION ABSTRACT

U.S. Geological Survey National Digital Trails Network

The purpose of the National Digital Trails Network (NDT) project is to support the Department of Interior priority to increase access and expand recreational opportunities on the Nation's public lands by connecting trail systems. This project supports the Department of the Interior (DOI) priority to support conservation stewardship.

Currently the USGS aggregates trails and other recreational features from a variety of sources for publication on the US Topo map series and other products. The data is stored in a geospatial database that can be used for cartographic products and analysis. The USGS is using the data to perform geospatial analysis to identify and evaluate potential connections between trail systems.

The project goals over the next two years include:

Goal 1: Decision Support Tool. Provide a web-based interactive tool for DOI Regional Managers to conduct geospatial analysis to identify and prioritize candidate trails for extension of the existing trail network.

Goal 2: Data Aggregation. Create a robust national trails GIS dataset that includes, at a minimum, trails from key Federal agencies including the U.S. Forest Service, National Park Service, U.S. Fish and Wildlife Service, and the Bureau of Land Management;

Goal 3: Crowdsourcing. Create a mobile friendly application that will allow trail stewards, including employees of land management agencies as well as members of the public to maintain trails information.

BIO

Greg Matthews has been with the USGS since 2008 and currently works for The User Engagement Office of the National Geospatial Program as the Natural Resources Conservation Community of Use Coordinator. Past positions at the USGS include working for the NGTOC as the Transportation National Partner Support Lead, Project Manager for The National Map Corps, and in the Innovations Office as an Applied Researcher. Previous professional GIS work includes GIS Database Manager and GIS project management for the City of Castle Rock, Colorado, and a GIS Analyst and project management at Parsons Engineering.



Education

Greg has a master's certificate in Geographic Information Science from the College of Engineering and Applied Science at University of Colorado at Denver, a Bachelor of Science in Natural Resource Management from Kansas State University, and is completing coursework in a master's certificate in Project Management at Denver University.

Expertise

Greg has specialized experience in building data partnerships and programs, natural resource and recreational data and projects, and crowdsourcing.