

Session

1.4.1 Alaska DOT&PF Photolog / GPS data Collection and Integration

Presenter

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In August 2006 the Alaska Department of Transportation and Public Facilities and Mandli Communications, Inc. initiated a multi year, digital road inventory project. The purpose of this project is to gather a complete digital photolog inventory of the state's road network as well as obtaining select feature locations and roadway attributes. The resulting data and images are integrated and synchronized with the Division of Program Development's GIS and made available to users on the ADOT & PF network.

Alaska's environment presents many challenges for photolog image and GPS data quality. Examples of these challenges are mountainous terrain, poor satellite visibility, scarce D-GPS options, short collection season and possible harsh weather. Another challenge is transferring the data collection equipment to 14 remote and restricted access locations included in this project. This presentation will discuss how these challenges were addressed and overcome in the first few months of the project, and the plans for proceeding with data collection for the remainder of the project.

Additionally this presentation will cover the process of integrating the newly collected data with the exiting GIS environment. It will demonstrate techniques used to identify differences in the datasets, and the procedures used to update the existing data when deemed appropriate. Finally, it will detail the plan to keep this data updated and current following the initial data collection effort.