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Leveraging GIS as a Collaborative Platform: Integrating Data within Federal Lands Highway and with our Partners

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The Federal Highway Administration, Federal Lands Highway (FLH) needed a way to combine road inventory data and GIS technology to allow easy access to reliable information for system wide analysis and reporting. Historically, road inventory data has been collected and stored centric to the FLH Division responsible. Data was stove piped and used only for condition reporting. Along the way, the FLH also began to add other data layers for roadway asset management and analysis such as, data from pavement management systems, bridge management condition information, safety management crash data, and traffic data. This combining of data through GIS allows the FLH and government agency partners to analyze all of the data simultaneously to assist facility owners, planners and designers to more efficiently and effectively allocate highway trust fund and government agency funds for transportation projects, and to utilize the data to improve safety, operations, and overall quality of the transportation systems.

With an increased need to plan for future Federal Lands usage and smarter expenditure of taxpayer funds, we needed a new, faster platform to deliver integrated transportation information to both internal and external customers.

This presentation will describe the development of our common geodatabase structure, integration within FLH, current analysis techniques, and future methodologies for sharing data across government boundaries.