

Transportation Pooled Fund Program

Project Title: Software Tools for Sharing and Integrating GIS Data		
Project Manager and Phone Number: Michael Leierer (360) 596-8927	Project No: TPF-5(108)	Project is: <input type="checkbox"/> PLANNING <input checked="" type="checkbox"/> R&D
Reporting Period: October 2010 – December 2010	Multi Year Project Yes	
Description of Work Performed and Progress:		
<p>The Transportation Pooled Fund (TPF) Study “Software Tools for Sharing and Integrating GIS Data” is continuing. The Washington State Transportation Framework (WA-Trans) is leading this TPF study.</p> <p>Research performed this period has focused on updating existing data with newer provider data. The data update processes leverage existing completed WA-Trans software and processes to obtain and translate provider data, then run change detection and prepare data for update. We are also tying all processes together within a master process controller in order to run the automated processes in a string with error trapping and reporting mechanisms. All processes and software are being designed to be implemented in a variety of DOT environments. The process is considered as important as the software.</p> <p>At the Annual Meeting in September 2010 the TPF partners prioritized the software of most interest. This prioritization was necessary due to the funding reality that this research project will run out of funds by June 2011. The goal is to <u>complete</u> the software, identified as the top priority, and do as much as possible on the remaining software. We are also going to focus on delivery of this software to each partner to include documentation specific to each state DOT environment. The research priorities formulated at the Annual Meeting are progressing as planned.</p> <p>It is very clear that all of the software being researched and developed is important and there will be efforts by the TPF partners find additional funds to ensure all software can be adequately researched.</p> <p>Other States are adopting WA-Trans structures and processes.</p> <ul style="list-style-type: none"> • The California Department of Transportation (Caltrans) is implementing a version of the design, processes, and tools developed as part of this study to obtain and process open source road data for their HPMS management and federal reporting. Not only is Caltrans replacing their commercial roads layers with an open source roads layer leveraging the tools and methods from WA-Trans, but implementation of the model is also being considered for use in other data integration and sharing efforts being led by the State Office of the Chief Information Officer's GIO and the California GIS Council. • The Tennessee Department of Transportation (TDOT) has expended substantial resources to collect physical inventory for all local roads in the state. It is hoped that the WA-Trans project will provide us the tools to eliminate or greatly reduce the need for field data collection by providing for incorporation of local data into our database. In addition, these tools will allow TDOT to automate our response to transportation data requests. Both aspects to the WA-Trans processes and software have the potential to free up substantial human resources for other tasks while holding down overall expenses."The Oregon State Department of Transportation and the contractors working for them are currently using processes developed as part of this study. • The Oregon Department of Transportation (ODOT) is implementing a version of the WA-Trans Data User Portal. <p>Current Members of this TPF Study are: California, Idaho, Nebraska, Ohio, Oregon, Tennessee and Washington.</p>		
STATUS AND COMPLETION DATE		
Percentage of work completed to date for total project Project is: <u>88 %</u>		
<input checked="" type="checkbox"/> on schedule <input type="checkbox"/> behind schedule, explain:		
Automated integration and conflation is continuing. A revised completion date of 2011 is proposed with the expectation that there will be new additional funding to continue this software research.		
Expected Completion Date: <u>06-2011 Phase IV Completion Date</u>		