

## Transportation Pooled Fund Program

<b>Project Title:</b> Software Tools for Sharing and Integrating GIS Data		
<b>Project Manager and Phone Number:</b>  Michael Leierer (360) 596-8927	<b>Project No:</b>  TPF-5(108)	<b>Project is:</b>  <input type="checkbox"/> PLANNING <input checked="" type="checkbox"/> R&D
<b>Reporting Period:</b> April 2010 – June 2010	<b>Multi Year Project</b> Yes	
<b>Description of Work Performed and Progress:</b>		
<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. Due to funding constraints we will be unable to complete many of the research items we have started by the end of June 2010. We have about 2/3 of the funding we needed to complete this research project as initially envisioned. Additional funding is necessary to complete the project and in anticipation of this additional funding this pooled fund end date has been extended till June 2011.</p> <p>Other States are adopting WA-Trans structures and processes.</p> <ul style="list-style-type: none"> <li>• The Washington State Transportation Framework (WA-Trans) has been delivering software package units with complete designs, software and processes to the partners in this Transportation Pooled Fund Study</li> <li>• 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.</li> <li>• 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.</li> <li>• WA-Trans has been hosting monthly Web meetings with various interested organizations to help them understand, configure and adopt the software and processes either being developed or contained in the package units already delivered.</li> <li>• WA-Trans is working with Washington State University (WSU) and Spokane County GIS to integrate and conflate transportation data in Washington using WA-Trans created software, methodologies and processes.</li> <li>• HPMS data is being integrated using WA-Trans created software, methodologies and processes to meet 2011 FHWA reporting requirements and economize HPMS processing efforts at WSDOT.</li> </ul> <p>Software processes completed this period include: 1.) Geocoding and LRS tools and extensive QA/QC processes for Address and LRS data within the defined database structure. 2.) Refining the manual integration processes allowing for more automation, reducing errors and enforcing more data integrity. 3.) Delivery of a Data Provider package to include: a.) obtaining data from a local provider, b.) translating this data into a standardized structure (data model and sample database), c.) QA/QC processes and processes to create QA/QC reports, d) Extensive related documentation and directions.</p> <p>Current Members of this TPF Study are: California, Idaho, Nebraska, Ohio, Oregon, Tennessee and Washington.</p>		
<b>STATUS AND COMPLETION DATE</b>		
Percentage of work completed to date for total project Project is: <u>85 %</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>		