

Development and Implementation of a Web-based Visual Transportation Improvement Program (TIP) Tool

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In 2005, the Volusia County MPO started a project to develop an on-line, interactive web-based Transportation Improvement Program (TIP) tool. The application is now fully implemented and available through the web to be utilized by state, regional, and local governments; as well as the general public. The tool provides several key functions including administration for data maintenance and upkeep, TIP project visualization through a map viewer or specific search criteria, and ready-made finished products in PDF format. The MPO has witnessed a significant time savings in the actual creation and amendment of the over 300 page TIP as the application utilizes automated programming to develop project level maps, cost, phasing, and totals data. In addition, an advanced search function allows the user to create custom partial TIP reports for those who may be only interested in projects along a specific corridor (i.e. all of I-95) or of a particular project type (i.e. Transit, Highway, or Bike/Pedestrian). The purpose of this session will be to discuss the lessons learned from both a technical and organizational standpoint related to the application implementation, as well as highlighting the current functionality and potential future enhancements.