Project Title: TRANSPORTATION SAFETY RESOURCE CENTER

<table>
<thead>
<tr>
<th>Task</th>
<th>% of Total</th>
<th>% of Task this quarter</th>
<th>% of Task to date</th>
<th>% of Total Complete</th>
</tr>
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<tbody>
<tr>
<td>1. Startup</td>
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<tr>
<td>2. Database Development</td>
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<td>3. Analysis/Traffic Engineering</td>
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<td>4. Technology Transfer</td>
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<td>TOTAL</td>
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<td>63.25%</td>
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Project Objectives:

The center will strive to assist NJDOT in their efforts to improve highway safety by creating a new core program that consolidates existing efforts championed by both the Federal Highway Administration (FHWA) and the National Highway Traffic Safety Administration (NHTSA). The TSRC will provide services to the NJDOT Division of Traffic Engineering and Safety Programs, along with technical support on merging specialized data sources with the New Jersey Crash Records System.

More specifically, the TSRC will partner with the NJDOT to develop and deliver training programs and technical assistance programs to supply the locals with the preliminary analysis of crash data using advanced decision support systems. The TSRC will also provide support to the New Jersey Safety Conscious Planning (SCP) Network that has been established between NJDOT and the Metropolitan Planning Organizations (MPO). Research and technical support will also be provided to NJDOT with the efforts to establish a comprehensive Safety Management System (SMS) which will integrate existing and yet to be identified databases involving both traditional and non-traditional stakeholders.

The center will be focused on assisting locals with developing safety solutions that meet the “tier one” or quick fix/low cost projects. By using the resources of the center, the local users will package and present their problems to NJDOT along with potential solutions. This will then allow for a much more efficient and objective response from the NJDOT.

Project Abstract:

The Transportation Safety Resource Center is a partnership between federal and state transportation agencies, local stakeholders, academic institutions, and the private sector to provide technical and educational services to address transportation safety in New Jersey.
1. Progress this quarter by task:

- The TSRC is represented on the SMTF and the Safety Management core group as well as the database integration committee.

- During this quarter the TSRC conducted an analysis of existing local safety networks within Mercer, Gloucester, Camden, and Burlington Counties for the DVRPC. This work also was conducted to support the NJTPA regional forum for Bergen, Hudson, and Passaic Counties.

- The center has obtained a completed survey from the Mercer County Engineering Dept. and have subsequently conducted a Safety Conscious Planning presentation and obtained Feedback from Mercer County Police Traffic Officers on Local Decision Making Efforts (this is to be compiled and distributed).

- An interview with the DVRPC was conducted to determine the support they need from the TSRC, the type of support the DVRPC provides to local agencies, as well as the steps they are taking relative to Safety Conscious Planning.

- The TSRC has continued the development of a comprehensive Safety Management Network. In doing so, a brief survey was developed which and distributed to local municipal clerks in the state. The results are being compiled and any relevant safety groups will be added to the Network.

- Based on the meeting with NJDOT in December 2004 we have started the design and implementation of a statistical analysis tool that can be used easily by the staff at the DOT in order to analyze and explore the existing crash report database. The main features of this tool can be described briefly as follows:
  - The statistical analysis tool will be user friendly. The objective is to create an application that can be used even by anybody, even if they do not have much familiarity with the information technology related issues.
  - Unlike the CARE software that was previously considered, which has a very complex data loader, the center is implementing a product that can generate the necessary data sets using a very simple process.
  - Since this product is a database related application, future NJ crash database design updates and changes will be embraced in our design, making the system easy to update and adaptable to change.
  - The tool is comprised of common statistical functions, graphs and charts and the design infrastructure is established in a way that the tool can also be used with our corresponding GIS decision making application.

  - The functions that are currently being implemented are:
    - Frequencies
    - Cross Correlations
    - Filter Combinations
    - Hotspot Detection
    - Data Mining

- We are also working on the model and architecture of the decision making tool which will be a separate layer on top of the GIS layer. This tool will be connected to the GIS to provide support to the traffic engineers and professionals.
2. Proposed activities for next quarter by task:

- Continuation of work on the TSRC website and the launching of it.

- A full time traffic engineer has accepted the position and it is anticipated that she will be on board by beginning of March 2005. A database manager will is also anticipated to be hired shortly.

- The traffic engineer will begin to work closely with NJDOT to tie the organizations together.

- The traffic engineer will also begin work on the database analysis as well as working with the DVRPC to identify local needs and to help in the selection of the transportation safety task force.

- The TSRC will continue to work with Mercer County and the Mercer County Police Traffic Officers Association in preparation of project selection.

- Continuation of the design and implementation of a statistical analysis tool as well as the decision making layer of the database.

3. List of deliverables provided in this quarter by task (product date):

1/14/05 Analysis of Existing Local Safety Networks for DVRPC
1/4/05 Obtained Completed Survey from Mercer County Engineering Dept.
2/9/05 Interview with DVRPC
2/16/05 Conducted SCP Presentation and obtained Feedback from Mercer County Police Traffic Officers on Local Decision Making Efforts

4. Progress on Implementation and Training Activities:

Not at implementation.

5. Problems/Proposed Solutions:

Funding issues are currently being resolved and a no cost extension was submitted as a result of the February 8th, 2005 meeting with the NJDOT (Patricia Ott and Jim Lewis).

<table>
<thead>
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<th>Total Project Budget</th>
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<td><strong>Modified Contract Amount:</strong></td>
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<td>Total Project Expenditure to date</td>
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* These are approximate expended amounts for the project; these estimates are for reference only and should not be used for official accounting purposes. For a more accurate project accounting please review the quarterly invoice for this project.