RESEARCH PROJECT DESCRIPTION

PROJECT NUMBER:
02406

PROJECT TITLE:
Upgrade of Florida Safety Information System

PRINCIPAL INVESTIGATORS:
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PROJECT OBJECTIVE:
This project will install the Critical Analysis Reporting Environment (CARE®) software for the Florida Department of Highway Safety and Motor Vehicles (DHSMV). The installation will include conversion of existing crash records, implementation of the software, and training.

PROJECT ABSTRACT:
This project is result in installation of the basic CARE® system for the State of Florida. The “basic” version has the capability to accept user queries and to deliver information mining (IMPACT) analysis on nominal-level variables. Middleware will be provided to convert thee
years of current Florida data into a dataset in the CARE format. The proposed application will be a multi-relational system, consisting of crash, vehicle, person, and other relational data that the design process identifies as necessary for optimum analyses. The installation will include server-based CARE®, data, filters and software versions that allow analysis at any point, including World Wide Web analysis.

PROJECT TASK DESCRIPTIONS:
Task 1: Design/develop a basic CARE® system specifically for the DHSMV.
Task 2: Convert data.
Task 3: Install CARE® server and middleware on central server.
Task 4: Develop a customized user’s manual for Florida users.
Task 5: Provide two training sessions.

MILESTONES AND DATES:
Task 1: Apr 1 – May 31, 2002
Task 2: May 1 – Jun 30
Task 3: May 15 – Jun 30
Task 4: Jun 15 – Aug 30
Task 5: Sep 1 – 30, 2002

TOTAL BUDGET:
Six-month project: Florida Department of Highway Safety and Motor Vehicles $75,000.

STUDENT INVOLVEMENT:
Several undergraduate students will work on this project.

RELATIONSHIP TO OTHER RESEARCH PROJECTS:
The Principal and Co-Principal Investigators have previously preformed similar actions for the Alabama Department of Transportation. Similar installations have been conducted for many other states, such as UTCA projects 994646 “A CARE Interpreter for North Carolina,” 01463 “Extend CARE for North Carolina,” and 99467 “Upgrade Iowa Safety Information System.”

TECHNOLOGY TRANSFER ACTIVITIES:
Technology transfer activities will include development of a customized user’s manual for the new system, and training of the staff of the Florida Department of Highway Safety and Motor Vehicles and others as designated by the sponsor.

POTENTIAL BENEFITS OF THE PROJECT:
The installation of CARE will allow more thorough, more accurate, and more timely processing of traffic accident data, which will improve the efficiency of safety studies and safety program.

TRB KEYWORDS:
Traffic safety programs, CARE®, traffic safety analysis