The primary objective of the Intelligent Transportation Systems program is to integrate advanced technologies into the current system for greater efficiency and improved safety. Our investigators determine possible uses for a broad range of technologies, including wireless and wire line communications, information technologies and various other electronic applications and equipment. We are involved in the planning, implementation, management and evaluation of various types of ITS-related projects.

Our program has enjoyed national prominence for more than 20 years and began with a substantial role in Commercial Vehicle Operations (CVO) projects, particularly the Advantage I-75 Mainline Automated Clearance System. In addition to CVO projects, we have conducted a variety of research projects for the Kentucky Transportation Cabinet and various federal transportation agencies. Our research areas range from studies of virtual weigh station technology to traffic control procedures for emergency responders.

Areas of Emphasis:

**Policy and Tax Issues Related to the Motor Carrier Industry** We have performed an in-depth analysis of the chameleon carrier problem, and have identified the causes as well as potential solutions. Our team also has years of combined knowledge regarding motor carrier credentials and associated fees and taxes. We performed an analysis of various Kentucky Department of Vehicle Regulation (DVR) fees and taxes for Kentucky and made recommendations where changes were warranted.

**Support of Kentucky’s Commercial Vehicle Information Systems and Networks (CVISN) & Performance Registration Information Systems Management (PRISM) Programs** Our team has years of experience as an active member in Kentucky’s CVISN and PRISM programs. We have been involved with CVISN since its inception and helped Kentucky become one of the first states to be Core-CVISN compliant by FMCSA. Our team created and maintains Kentucky’s Program Plan and Top-Level Design for CVISN as well. We facilitate meetings among CVISN and PRISM stakeholders, solicit ideas, and perform research as needed.

**ITS Planning and Architecture Development** We were the primary developer of Kentucky’s statewide ITS Strategic Plan and Business Plan. We also mapped Kentucky’s ITS technologies and systems to the National ITS Architecture, and have experience developing regional and specialized ITS architectures.

**Commercial Vehicle Electronic Screening Systems** Our program became a leader in ITS through the early implementation of a regional mainline screening system for commercial vehicles, and we continue to be on the cutting edge of electronic screening systems. The use of these technologies increases enforcement efficiency and improves highway safety.

**Traffic Incident Management (TIM)** TIM is the planned, coordinated process by which multiple agencies respond, manage and clear an incident scene. We have been involved in many incident management-related studies, including the development of Highway Crash Site Management and Emergency Traffic Control for Responders curriculum.

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