

5.2.1

Analyzing Delaware's Crash Data for MAP-21's HSIP and Federal Reporting

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Over the past 4 years, DeIDOT's traffic and planning groups have been designing and building the Crash Analysis Report System (CARS), with recent focus on HSIP and federal submission requirements directed through MAP-21. With the help of GeoDecisions, the CARS system is going through a technology and workflow refresh to enhance its user experience and future maintainability. CARS provides DeIDOT and other stakeholders, including State Police, with a robust GIS visualization engine to analyze, validate, and dissect crash data on all Delaware roadways. The system's success has helped DeIDOT employees decrease the time spent looking for data by providing an application that is simple to use, while assisting the traffic group in HSIP and federal submissions. Through the use of CARS, DeIDOT has developed a systemic safety program by creating specific queries that also incorporate crash exposure data such as traffic volumes and roadway lengths. This information can then be used to prioritize low cost highway safety improvements based on specific crash or roadway criteria, moving away from the traditional black spot highway safety approach.