The Transportation Data Center, headed by Carol Flannagan and Charles Compton, is a unique resource meeting the needs of transportation safety researchers worldwide.

The mission of the Transportation Data Center is to help reduce injury and suffering, and the associated costs of crashes, by providing transportation safety researchers with expert consulting and a readily accessible source of motor vehicle crash data.

The staff at the Data Center has over 30 years of experience in transportation safety research. Our expertise centers on the use of online data files to answer crash-related questions for researchers, industry and government.

The Transportation Data Center acquires state, federal and international data on road safety and other related datasets, utilizing unique and long standing institutional relationships. Data sources are continuously monitored for updates and acquisitions are regularly performed to incorporate new and revised data into the TDC data archive.

TDC CAPABILITIES

The TDC data archive is maintained on an internet-accessible system for on-demand access by registered users. Acquired datasets go through rigorous data quality assurance and validation procedures and can be reformatted for use in standard analytical systems, e.g., ADAAS, SAS, SPSS and on multiple software platforms.

With every dataset acquired a unique and customized system documentation codebook is produced listing data elements and their values and key word indexing. Each variable is described with its code values and counts. These codebooks are made available with each request for data or can be downloaded directly from the TDC website.

http://www.umtri.umich.edu/tdc/

The Michigan Traffic Crash Facts website, a state-of-the-art, custom designed, interactive query and mapping tool was created exclusively by the TDC. An award-winning website, it demonstrates TDC’s expertise in the development of online tools that facilitate customer access and analysis of data products.

http://www.michigantrafficcrashfacts.org

TDC provides the design and implementation of database driven websites that incorporate various state-of-the-art secure access platforms. This expertise enables TDC to design usable, accessible (Section 504 compliant) and secure websites.

Long-term involvement of TDC personnel in the development of road safety datasets enables expert opinion to be provided on key issues affecting the creation and management of crash datasets, such as, shortcomings of proposed data collection procedures, potential data analysis limitations and avoidable data quality challenges.

Personnel within the TDC offer expert consulting in the appropriate use of safety data to answer a variety of research questions, validate data quality and objectively interpret data elements and analysis results. TDC also offers micro and macro analyses of crash datasets including statistical modeling and GIS mapping of safety data.

TDC warehouses an unparalleled collection of current and legacy road safety datasets that are maintained and managed in-house for on-demand querying, contractual research and longitudinal analysis. TDC has a proven successful track record in consulting and project management of information and data management systems within local and wide area networks.

TDC DATASETS

- FARS
- NASS CDS
- NASS GES
- Multiple State Datasets
TDC PROJECTS

The Data Center is involved in ongoing projects with members of the traffic safety community.

Initiated in 1968, the Accident Database Services program sponsored by the Alliance of Automobile Manufacturers provides a computerized database of motor-vehicle crash information to transportation safety researchers. With UMTRI’s Automated Data Access and Analysis System (ADAAS) tool and our expert consultation, researchers can rapidly gain insight into specific human, environmental, and vehicle related factors of the traffic crash problem. New datasets are added in accordance with the expressed or anticipated needs of our users.

Michigan Traffic Crash Facts is an information resource we design, develop, and implement for the State of Michigan's Office of Highway Safety Planning (OHSP). This annual compilation and analysis of statewide crash data offers valuable publications and an interactive query tool for government agencies, researchers, and the general public. The data is provided by the Michigan Department of State Police.

The UMTRI Center for International Transportation Data (CITD) is an expansion of the Data Center to encompass global issues. By sharing information globally, we hope to improve road safety and the quality and consistency of data worldwide.