



Transportation Safety

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iTRANS is one of the leading professional practices in Canada specializing in Transportation Safety. We have worked with a range of local, provincial / state, and federal levels of government across Canada and the U.S.A. to improve safety for all road users.

Safety Research & Analysis

iTRANS is a leading firm in conducting state-of-the-art Transportation Safety research in both Canada and the U.S.A. Completed research studies include:

- NCHRP Project 17-27 to “Develop Parts I and II of a Highway Safety Manual”
- NCHRP Project 5-17 “Safety Evaluation of Permanent Raised Pavement Markers”
- Syntheses of Practices for the Transportation Association of Canada for shoulder, centreline, and transverse rumble strips
- Update to the Institute of Transportation Engineers' Recommended Practice for the Design and Application of Speed Humps
- Compilation of crash reduction factors for the Federal Highway Administration's Issue Briefs

Implementing Safety Cultures

iTRANS is committed to support practices which will result in a sustainable safety culture for future generations of road users, by working with multi-tier groups to facilitate, integrate, and aid in organizing a culture that is safe for all persons involved.

Safety Performance Functions (SPF) and Network Screening

iTRANS has worked with several provincial / state, and local jurisdictions to develop databases of recorded collisions, traffic volumes, and roadway inventory. iTRANS staff have extensive experience in performing statistical analysis with the goal of improving safety. Using advanced statistical techniques, such as empirical Bayes methodologies, our team has developed SPFs for a range of transportation facilities.

Strategic Highway Safety Plans

iTRANS led the development of the NCHRP Report 501 (of the Stay Alive 500 Series), a key document on the Integrated Safety Management Processes. iTRANS has facilitated the development and implementation of comprehensive, data driven, and legislation compliant Strategic Highway Safety Plans by identifying the need for senior state leadership, bringing key safety stakeholders together, developing state safety goals, selecting safety emphasis areas, and identifying potential countermeasure and evaluation metrics. iTRANS has helped develop Strategic Highway Safety Plans for Arizona, Kentucky, Utah, and Pennsylvania in the U.S.A., and in Ottawa, York Region, Mississauga, and the City of Red Deer in Canada.

Safety Reviews & Audits

iTRANS brings the combination of road safety engineering and human factors principles to Safety Reviews and Safety Audits. iTRANS creates teams of specialists in design, operations, pedestrians and cyclists, and transit to provide expertise during the Safety Review or Safety Audit process. This breadth of experience results in more comprehensive diagnoses and effective and innovative countermeasures in complex settings.

Safety Training

iTRANS has developed and presented a number of customized and modular training sessions to organizations across Canada and the U.S.A. Courses are customized to the interest and skill level of participants. Topics that have been covered in courses taught to date include: quantifying safety, using SPFs and Accident Modification Factors, and performing safety evaluations. Our training course have included a review of recent safety literature, presentation material with students, and facilitator notes.

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