

Road Safety Overview

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2019-2027 Strategic Plan Priorities

Partners In Road Safety

ORGANIZATION	PRIMARY ROAD SAFETY ROLE	KEY EXAMPLES OF RESPONSIBILITIES
Federal Government	National Standards and Policy Leadership	Vehicle Safety Standards, National Research, Funding Programs
Province of Ontario	Legislation and Provincial Guidelines	Highway Traffic Act, Driver Licensing, Ontario Traffic Manual, Provincial Highways
City of Greater Sudbury	Municipal Road Design and Operations	Traffic Signals, Setting Speed Limits, Traffic Calming, Capital Safety Projects, Safety Campaigns
Public Health Sudbury & Districts	Injury Prevention and Education	Safety Campaigns, Active Transportation Promotion
Greater Sudbury Police Service	Enforcement and Collision Response	Traffic Enforcement, Collision Investigation, Community Safety Initiatives



Purpose, Scope, and Strategic Alignment of the Road Safety Program



Program Framework

The program is structured around three core pillars: Assess, Manage, and Improve for road safety enhancements.

Data-Driven Assessment

Assessment uses quantitative data like traffic volumes, speeds, and collision history to identify risks and deficiencies.

Operational Management

Management applies findings to optimize signal timing, policy development, and asset management daily.

Safety Improvements

Improvement delivers safety through capital projects, traffic calming, automated enforcement, and community programs.



Assess – Technical Review and Data-Driven Analysis

Comprehensive Data Collection

Robust data collection methods include multimodal traffic counts and radar speed studies to analyze road usage patterns.

Collision Analysis Techniques

Collision analysis involves data collection, rate calculations, and diagramming to identify crash patterns and safety risks.

Infrastructure Condition Assessment

Assessment of infrastructure includes evaluating sign visibility and roadside hazards.

Warrant and Additional Safety Analyses

Formal analyses determines the necessity of traffic signals, pedestrian crossovers, and speed limit appropriateness.



Manage – Network Operations, Assets, and Policy



Road Network Screening

Annual review of collision data identifies and ranks high-risk locations for targeted safety interventions.

Traffic Signal Network Management

Optimizing signal timing and coordinating corridors improve traffic flow and pedestrian safety.

Asset Management and Maintenance

Proactive upkeep and lifecycle replacement of signal controllers and detection systems reduce failures.

Policy and Technology Adaptation

Policies align with best practices and emerging tech like connected vehicles and data analytics manage risks.



Improve – Capital Investments and Community Initiatives

Capital Safety Projects

Projects target high-priority locations with intersection redesigns, signal upgrades, and accessibility improvements to enhance safety.

Active Transportation Infrastructure

Expanding sidewalks, adding pedestrian crossovers, and building protected cycling lanes improve connectivity and safety for non-motorized users.

Traffic Calming Measures

Speed humps, bollards, and gateway treatments reduce speeding and shortcutting in residential neighborhoods.

Community Engagement and Enforcement

Automated enforcement and community programs promote safe behaviours and building trust through education and awareness campaigns.



Summary



A Coordinated Effort

- Road safety involves collaboration across all levels of government and community partners, each playing a key role

Road Safety Program

- Assess
- Manage
- Improve

Shared Responsibility

- Road safety depends on partnership with residents
- Small, everyday safe driving behaviours create meaningful community wide impact



Questions?

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