

# Subject: Vision Zero Action Plan Development - Progress Report #2 - City-wide

# **Reference:**

Date to Council: July 27, 2022 Author: Jeff Hagan Transportation Planning Senior Engineer 519-255-6100 ext 6003 jhagan@citywindsor.ca Planning & Building Services Report Date: July 7, 2022 Clerk's File #: ST/13714

To: Mayor and Members of City Council

#### **Recommendation:**

THAT report S 87/2022, Vision Zero Action Plan Development – Progress Report #2 **BE RECEIVED** for information.

#### **Executive Summary:**

N/A

#### Background:

At the February 24, 2020 Council meeting, Council passed the following resolution:

That the attached Vision Zero Policy, Vision Zero Procedure, and Vision Zero Stakeholder Group Terms of Reference BE ADOPTED; and,

That Council APPOINT Councillor Chris Holt to represent Council on the Vision Zero Stakeholder Group.

Membership of the Vision Zero Stakeholder Group was approved by Council at its March 29, 2021 meeting (Council Resolution CR123/2021).

The Vision Zero Policy and Vision Zero Procedure:

- Endorsed the goal of eliminating fatal and major injury collisions on City streets;
- Directed Administration to prepare a Vision Zero Action Plan to achieve this goal;

- Established two groups:
  - Vision Zero Task Force: a staff committee with representatives of City departments and emergency services generally responsible for responding to collisions and addressing road safety concerns; and
  - Vision Zero Stakeholder Group: an advisory committee with members affected by severe collisions, including representatives of vulnerable road user groups, representatives of neighbourhood associations, and the public at large.

The Vision Zero Policy sets out a framework for the preparation of the Vision Zero Action Plan. The Policy identifies that reports will be brought forward to the Environment, Transportation and Public Safety Standing Committee – and subsequently to Council – at the following points in the development of the Vision Zero Action Plan:

- Progress Report #1: after development of strategic priorities
- Progress Report #2: after development of recommended initiatives
- Final Report (including the completed Vision Zero Action Plan): after development of interim goals

Progress Report #1 was presented to the Environment, Transportation & Public Safety Standing Committee at its October 27, 2021 meeting. This report identified a number of themes and strategic priorities for the Vision Zero Action Plan, as summarized in Table 1.

Theme	Strategic Priority
1: Driver Behaviours	1A: Vehicle Speeds
	1B: Drug and Alcohol Impairment
	1C: Inattentive Driving
	1D: Failing to Yield at Intersections
2: Road User Types	2A: Vulnerable Road Users (Pedestrians,
	Cyclists, and Motorcyclists)
	2B: Data Gaps – People
3: Locations and Infrastructure	3A: High Injury Corridors
	3B: Signalized Intersections
4: Process Improvements	4A: Improved Data Sources and Information
	Sharing
	4B: Design Standards and Best Practices

Initiatives that form a Vision Zero Action Plan typically follow the Safe Systems approach. The Institute of Transportation Engineers summarizes the key features of the Safe Systems approach as follows:

- 1. <u>Anticipating Human Error</u> A Safe System is designed to anticipate and accommodate errors by drivers and other road users.
  - Example: Even a momentary distraction can prevent a driver from seeing vulnerable road users or vice-versa. Separating vulnerable road users, such as pedestrians and bicyclists, from traffic wherever possible reduces the likelihood that such predictable errors will lead to a deadly collision.
  - Example: On rural highways the application of rumble strips can recapture the driver's attention when they drift out of the lane due to distraction or fatigue. In newer vehicles, lane-keeping technologies can provide similar benefit.
- <u>Accommodating Human Injury Tolerance</u> A Safe System is designed to reduce or eliminate opportunities for crashes resulting in forces beyond human endurance.
  - Example: Where pedestrians and vehicles need to occupy the same space such as urban crosswalks reducing vehicle speeds through the use of lower speed limits combined with road design changes can reduce the likelihood of fatal collisions with pedestrians or bicyclists.
  - Example: Breakaway designs on traffic control devices installed in the right-of-way can reduce the force of impact when struck by an errant vehicle.

# **Discussion:**

Development of the Vision Zero Action Plan was done in two components:

- Inventory of Existing Road Safety Initiatives: this component involved cataloguing existing programs – regardless of agency or organization – that address the Vision Zero strategic priorities. This inventory serves as a foundation for new initiatives to build upon, and also provides insight into gaps between current road safety programs and a Vision Zero approach focused on all of the Vision Zero strategic priorities.
- 2. **New Initiatives:** this component involved identifying additional initiatives that could be undertaken to address the Vision Zero strategic priorities. Except as noted, new initiatives were focused specifically on areas of City responsibility.

Details on the inventory of Existing Road Safety Initiatives are presented in Appendix A. Details on recommended new initiatives are presented in Appendix B.

Before developing recommended initiatives, an inventory of existing road safety initiatives in Windsor – City programs as well as initiatives by other agencies and groups – was developed. This inventory is summarized in Table 2; additional details are available in Appendix A. The existing initiatives were taken into account when developing the list of new recommended initiatives for the Vision Zero Action Plan.

Existing Initiative	Lead Agency or City Department
	Department
Enforcement and Emergency Response	
Traditional Enforcement	Windsor Police Service
High Visibility Enforcement (HVE)	Windsor Police Service
Selective Traffic Enforcement Program (STEP)	Windsor Police Service
Road Watch	Windsor Police Service
Report Impaired Driving (RID) program	MADD Windsor Essex County
	Windsor Police Service
Emergency response to collisions	Essex Windsor EMS
	Windsor Fire & Rescue Services
	Windsor Police Service
	Windsor Regional Hospital
City Programs and Policies	
Traffic Calming Policy	City – Transportation Planning
Community Safety Zone Policy	City – Transportation Planning
Radar Trailer Program	City – Traffic Operations
School Neighbourhood Policy	City – Transportation Planning
Bikeways Development Project	City – Transportation Planning
Pedestrian Generator Sidewalk Program	City – Operations
Pedestrian Safety Improvement Program	City – Engineering
Intersection Improvements Program	City – Engineering
Audible/ accessible pedestrian signal program	City – Traffic Operations
Pedestrian crossover program	City – Transportation Planning
Winter maintenance program	City – Operations
Pavement marking maintenance program	City – Traffic Operations
Sign maintenance program	City – Traffic Operations
Sight line clearing at intersections	City – Traffic Operations
Before-after analysis of road safety	City – Transportation Planning
countermeasures	
Red light cameras	City – Traffic Operations
Vehicle operator training	City – Human Resources
	Transit Windsor
Periodic driver's abstract review	City – Human Resources
	Transit Windsor
Collision Review Group (for collisions involving City vehicles)	City – Fleet Review Committee
Fleet vehicle standard development	City – Fleet Review Committee
Education Programs	
Children's Road Safety Programs	Safety Village Bike Windsor Essex
PARTY (Prevent Alcohol and Risk-related Trauma in Youth) Program	Windsor Regional Hospital

A number of new City road safety initiatives are already planned, as summarized in Table 3. These initiatives have been incorporated into the overall list of recommended initiatives for the Vision Zero Action Plan.

Table 3: Future Road Safety Initiatives – Already Pla
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Planned Initiative	Lead Agency or City Department
Develop and Implement a Complete Streets Policy	City – Transportation Planning
Construct Roadway Capital Projects (for certain corridors) Obtain Collision Data through Provincial ARIS	City – Engineering City – Transportation Planning City – Transportation Planning
System Continue to Implement the Transit Master Plan	Transit Windsor
Review Yellow and All-Red Intervals for Traffic Signals	City – Traffic Operations
Install Retroreflective Backboards for Traffic Signals	City – Traffic Operations
Increase Winter Roadway Maintenance Driver Simulation Training for Commercial	City – Operations City – Human Resources
Motor Vehicle Operators	
Commercial Motor Vehicle Driver Evaluation by Independent Party	City – Human Resources

A list of potential new Vision Zero initiatives was presented to the Vision Zero Task Force and Vision Zero Stakeholder Group, then revised based on feedback received. The initiatives considered not only the City's role as a road authority, but also its role as a fleet operator, land development authority, provider of social services, and its other functions and responsibilities.

These varied roles provide a wide range of ways in which the City of Windsor can exert influence to encourage a culture of road safety throughout the region and beyond.

New recommended initiatives are summarized in Table 4; initiatives identified by the Stakeholder Group as especially high priority are highlighted. Other potential initiatives that were presented to the Vision Zero Stakeholder Group but are not recommended based on feedback received are presented in Table 5. Additional details on both groups of initiatives are provided in Appendix B.

Conflicting feedback from the Vision Zero Stakeholder Group was received on one initiative included in Table 4: Adopt a "No Right Turn Channels" Policy or Best Practice for New Intersections and Major Roadway Projects. While some comments received from the Stakeholder Group identified this as high priority, other comments expressed concerns related to cyclist safety and comfort at roundabouts.

Recommended Initiative	Lead Agency or City
(highlighting indicates initiatives identified by	Department
members of the Stakeholder Group as high	
priority) Conduct Road Safety Audits of Identified High	City – Transportation Planning
Injury Corridors	ony transportation rialiting
Carry out a Value Engineering & Road Safety	City – Transportation Planning
Review of Existing Approved Preliminary	City – Engineering
Designs for Roadway Projects	
Establish a Fatal Collision Response Team	To be determined
Explore Data-Sharing Arrangements Between	City – Transportation Planning
Agencies	
Carry out a Resident Survey	City – Transportation Planning
Implement Target Speed Requirements for	City – Transportation Planning
New Construction and Major Roadway	
Projects	
Implement Speed Limit Reductions –	City – Transportation Planning
Neighbourhoods	
Implement Speed Limit Reductions – Major	City – Transportation Planning
Streets	
Implement Speed Limit Reductions and	City – Traffic Operations
Increased Fines – Construction Zones	
Reduce Progression Speed for Traffic Signal	City – Traffic Operations
Coordination	
Carry out Education Campaigns	City – Transportation Planning
Adjust Project Prioritization Criteria in the	City – Transportation Planning
Active Transportation Master Plan to Place a	
Greater Emphasis on Safety and Collisions	<u> </u>
Include Collision History as a Factor in	City – Engineering City – Operations
Prioritizing Capital Projects	, , , , , , , , , , , , , , , , , , ,
Review Official Plan and Zoning By-laws for Vision Zero Opportunities	City – Planning City – Transportation Planning
Vision Zero Opportunities Review Design Standards and Development	City – Engineering
Manual for Vision Zero Opportunities	City – Engineering City – Transportation Planning
Require Transportation Impact Studies for	City – Transportation Planning
New Developments to Include a Full	
Multimodal Review	
Develop Safety Performance Functions	City – Transportation Planning
Implement Automated Speed Enforcement	City – Traffic Operations
Install Transverse Rumble Strips at Select	City – Transportation Planning
Locations	

<b>Recommended Initiative</b> (highlighting indicates initiatives identified by	Lead Agency or City Department
members of the Stakeholder Group as high priority)	Department
Implement a Parking Ticket Forgiveness Program to Target Impaired Driving	City – Transportation Planning
Provide Free (or Cost-Included) Transit Service for Alcohol-Oriented Special Events	Transit Windsor City – Special Event Resource Team
Support the Development of a "Safe Ride Home" Service	To be determined
Provide Stop Bars and Crosswalk Markings at Unsignalized Intersections	City – Traffic Operations
Provide Ladder Crosswalk Markings at Signalized Intersections	City – Traffic Operations
Implement Fully Protected Intersections	City – Transportation Planning City – Engineering
Implement Leading Pedestrian Intervals	City – Traffic Operations
Install Pedestrian Countdown Signals	City – Traffic Operations
Implement Hardened Centrelines at Intersections with High Speed Left Turns	City – Transportation Planning
Adopt a "Roundabouts First" Policy or Best Practice for New Intersections and Major Roadway Projects	City – Engineering
Adopt a "No Right Turn Channels" Policy or Best Practice for New Intersections and Major Roadway Projects	City – Engineering
Implement a Road Diet Program	City – Engineering City – Transportation Planning
Carry Out Additional Driver Training for City Employees Based on Highway Traffic Act Offenses	City – Human Resources
Develop a Comprehensive GIS-based Collision Information System	City – Transportation Planning
Develop Safety-Related Vehicle Design Criteria for Future City Vehicle Fleet Purchases & Leases	City – Fleet Review Committee

#### Table 5: Future Road Safety Initiatives – Considered But Not Recommended

Initiative – Not Recommended	Rationale for Not Recommending – feedback from Stakeholder Group members
Install Pavement Edge Rumble Strips at Select Locations	Concerns regarding the effectiveness of existing pavement edge rumble strips
Develop a Cell Phone App to Address Inattentive Driving	Many other electronic tools exist to address distracted driving
Require Helmets for all E-Scooter Riders	Difficulty of enforcement

## **Risk Analysis:**

No risks are associated with this informational report.

Risks associated with the Vision Zero Action Plan will be identified when the Action Plan is brought forward for approval.

Overall, the Vision Zero Policy, Procedure and Action Plan are tools to reduce and mitigate life safety risks to the community due to motor vehicle collisions.

#### Climate Change Risks

#### **Climate Change Mitigation:**

N/A

#### **Climate Change Adaptation:**

N/A

## **Financial Matters:**

No new expenditures are recommended by this progress report.

The Vision Zero Action Plan, when completed, will be brought before Council for approval of the plan. The Action Plan is intended as a multi-year plan; it is expected that funding approval for initiatives of the plan will be brought forward for Council approval as part of annual budget submissions over the life of the Action Plan.

Most of the recommended initiatives will not result in any additional cost increases; some initiatives will result in cost savings. Costing and phasing for the Vision Zero Action Plan will be developed during the next step of the Action Plan development process: development of interim goals.

# **Consultations:**

Consultations with the Vision Zero Task Force and Vision Zero Stakeholder Group occurred as summarized in Table 3.

Meeting	Vision Zero Task Force Meeting Date	Vision Zero Stakeholder Group Meeting Date
1 – Kickoff, Review of Fatal and Major Injury Collision Trends and Patterns, Roundtable Discussion	May 13, 2021	May 25, 2021
2 – Review of draft strategic priorities	June 18, 2021	July 2, 2021
3 – Review of draft recommended initiatives	November 5, 2021 April 4, 2022	June 29, 2022

# **Conclusion:**

Recommended initiatives for the Vision Zero Action Plan are provided. The initiatives presented in this report reflect the input of the Vision Zero Task Force and the Vision Zero Stakeholder Group.

The next step in the development of the Vision Zero Action Plan, identification of interim goals, will build on these recommended initiatives to create a draft Action Plan that will be presented to Council for review and approval.

#### **Planning Act Matters:**

N/A

## Approvals:

Name	Title
John Revell	Chief Building Official
Jelena Payne	Commissioner of Economic Development and Innovation
Chris Nepszy	City Engineer and Commissioner of Infrastructure
Onorio Colucci	Chief Administrative Officer

# Notifications:

Name	Address	Email
Vision Zero Stakeholder Group		
Windsor Bicycling Committee		
MADD Windsor Essex County		maddwin@yahoo.ca
The Safety Village		mlauzon@thesafetyvillage.com
Melissa Lauzon, Executive Director		
Bike Windsor Essex		hello@bikewindsoressex.com
Lori Newton, Executive Director		
Vision Zero Action Plan project notification list		
(list provided to Clerks)		

# Appendices:

- Appendix A: Existing Road Safety Initiatives Appendix B: New Vision Zero Initiatives 1
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