

# Subject: Vision Zero Action Plan Final Report - City-wide

#### **Reference:**

Date to Council: November 29, 2023 Author: Chris Gerardi Policy Analyst, Transportation Planning 519-255-6100 ext 6830 cgerardi@citywindsor.ca Public Works – Operations Report Date: November 4, 2023 Clerk's File #: ST/13714

To: Mayor and Members of City Council

## **Recommendation:**

- 1. THAT the Vision Zero Action Plan provided as Appendix A and the Supplemental Action Plan provided as Appendix B to report S 33/2023 "Vision Zero Action Plan Final Report" **BE ADOPTED**; and,
- THAT City Council APPROVE a transfer of funding in the amount of \$40,000 from the Budget Stabilization Reserve, Fund 139, to a new capital project for salary and fringe costs for three Co-Op students for three school terms in 2024; and,
- 3. THAT City Council **APPROVE** a transfer of funding in the amount of \$15,000 from the Budget Stabilization Reserve, Fund 139, to a new capital project for salary and fringe costs for a Co-Op Student for the first school term of 2025; and,
- THAT City Council APPROVE a transfer of funding in the amount of \$23,404.85 from the Budget Stabilization Reserve, Fund 139, to a new capital project to purchase and set up Traffic Engineering Software (TES) provided by True North Safety Group (TNS Group); and,
- THAT the CFO/City Treasurer **BE DIRECTED** to include a new capital project in the 2024 10-year capital plan with funding as outlined above in order to action the Vision Zero Action Plan; and,
- 6. THAT Administration **BE DIRECTED** to bring forward initiatives in the Vision Zero Action Plan forward for funding consideration for future budgets in accordance with the Action Plan's implementation plan; and,
- 7. THAT Administration **BE DIRECTED** to report back to Council annually with details of progress toward the Vision Zero Action Plan's goals; and,

- 8. THAT Administration **BE DIRECTED** to carry out reviews of the Vision Zero Action Plan at the intervals specified in the Action Plan; and,
- 9. THAT report S 13/2021 "Follow-up –CQ 7-2020, 40 km/h Residential Speed Limits-City Wide" **BE RECEIVED** for information; and,
- 10. THAT Council **APPROVE** the updated All-Way Stop Policy as listed in Appendix B of report S 70/2023.

# **Executive Summary:**

N/A

# Background:

The City of Windsor's Vision Zero Policy was adopted by Council on February 20, 2020 by Council Resolution CR82/2020, including the overall statement of endorsement of Vision Zero:

The Corporation of the City of Windsor endorses the Vision Zero goal of zero traffic deaths or serious injuries on roadways under its jurisdiction and commits to collaborating with all stakeholders in working to realize this goal.

Additionally, the Vision Zero – and the accompanying Vision Zero Procedure and Vision Zero Stakeholder Group Terms of Reference:

- Directed Administration to develop a Vision Zero Action Plan;
- Established a Vision Zero Task Force and a Vision Zero Stakeholder Group (Table 1);
- Outlined the process for development of the Vision Zero Action Plan, including:
  - Points of consultation with the Vision Zero Task Force and Vision Zero Stakeholder Group, and
  - Points in the process where progress reports would be provided to the Environment, Transportation & Public Safety Standing Committee.

	Vision Zero Task Force	Vision Zero Stakeholder Group
Members	City & emergency services departments responsible for implementing road safety	Members of public and stakeholder organizations impacted by road safety issues
	actions	
Role	<ul> <li>Approves Vision Zero Action Plan elements</li> <li>Leads implementation of the Vision Zero Action Plan</li> </ul>	<ul> <li>Provides input and feedback to inform and shape the Vision Zero Action Plan</li> </ul>

#### Table 1: Task Force and Stakeholder Group Roles

Progress reports were prepared at key points in the development of the Vision Zero Action Plan, as specified in the Vision Zero Policy. Both reports were received by Council for information. Details on the progress reports are provided in Table 2.

#### Table 2: Progress Reports

Report Number & Title	Report Focus	Meeting Date		
		Environment, Transportation & Public Safety Standing Committee	City Council	
S 92/2021 Vision Zero Action Plan Development - Progress Report #1	Proposed Strategic Priorities	Oct. 27, 2021	Nov. 15, 2021	
S 87/2022 Vision Zero Action Plan Development - Progress Report #2 - City-Wide	Proposed Recommended Initiatives	Jul. 27, 2022	Sep. 6, 2022	

## CQ 7-2020 – 40 km/h Residential Speed Limits

At the March 2, 2020 meeting of Council, Councillor Kaschak asked CQ 7-2020 as follows:

"Asks that if Council decides to move forward with reducing the speed limit to 40 km/h on all city residential streets, that administration advise of the timelines and cost to implement this across the city."

This report was subsequently deferred and requested to be returned to Council with the Vision Zero Action Plan.

#### CQ 27-2021 – All-Way Stop Warrant

At the meeting of City Council on November 15, 2022, Councillor Costante asked CQ27-2021 as follows:

"Asks that Administration report back on opportunities to amend the warrant matrix and incorporate additional factors when determining the installation of 4-way stops in our residential neighbourhoods. This may include certain factors in the warrant threshold be lowered or amended, and may also include other factors such as petitions and school zones to be incorporated in the overall matrix."

This report was subsequently deferred and requested to be returned to Council with the Vision Zero Action Plan.

#### **Discussion:**

The proposed Vision Zero Action Plan is attached as Appendix A. Key elements of the Action Plan include:

- Strategic priorities
- Recommended initiatives

• Interim goals (including an implementation plan)

Each of these elements is summarized below.

#### **Strategic Priorities**

Strategic priorities were developed based on the trends and patterns noted in the City's collision history and Vision Zero principles. The proposed strategic priorities are grouped into themes as summarized in Table 3.

Table 3: Themes and Strategic Priorities
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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

#### **Recommended Initiatives**

Recommended initiatives are grouped into two categories:

- Existing initiatives that are already being carried out; for City activities, the Action Plan recommends that these activities continue.
- New initiatives; the Action Plan recommends that these new City activities be adopted in accordance with the implementation plan.
  - These initiatives are divided further into two sub-groups:
    - Future initiatives already planned;
    - Future Initiatives Recommended, not already planned.

The recommended initiatives are summarized in Table 4 through Table 6 below.

## Table 4: Existing Road Safety Initiatives

Existing Initiative	Lead Agency or City 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 countermeasures	City – Transportation Planning
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)	Windsor Regional Hospital
Program	

# Table 5: Future Road Safety Initiatives – Already Planned

Number	Planned Initiative	Lead Agency or City Department
1	Develop and Implement a Complete Streets Policy	City – Transportation Planning
2	Construct Roadway Capital Projects (for certain	City – Engineering
	corridors)	City – Transportation Planning
3	Obtain Collision Data through Provincial ARIS	City – Transportation Planning
	System	
4	Continue to Implement the Transit Master Plan	Transit Windsor
5	Review Yellow and All-Red Intervals for Traffic	City – Traffic Operations
	Signals	

Number	Planned Initiative	Lead Agency or City Department
6	Install Retroreflective Backboards for Traffic	City – Traffic Operations
	Signals	
7	Increase Winter Roadway Maintenance	City – Operations
8	Driver Simulation Training for Commercial Motor Vehicle Operators	City – Human Resources
9	Commercial Motor Vehicle Driver Evaluation by Independent Party	City – Human Resources

## Table 6: Future Road Safety Initiatives – Recommended

Number	Recommended Initiative	Lead Agency or City Department
	(highlighting indicates initiatives identified by	
	members of the Stakeholder Group as high priority)	
10	Conduct Road Safety Audits of Identified High	City – Transportation Planning
	Injury Corridors	
11	Carry out a Value Engineering & Road Safety	City – Transportation Planning
	Review of Existing Approved Preliminary Designs	City – Engineering
	for Roadway Projects	
12	Establish a Fatal Collision Response Team	To be determined
13	Explore Data-Sharing Arrangements Between	City – Transportation Planning
	Agencies	
14	Carry out a Resident Survey	City – Transportation Planning
15	Implement Target Speed Requirements for New	City – Transportation Planning
	Construction and Major Roadway Projects	
16	Implement Speed Limit Reductions –	City – Transportation Planning
	Neighbourhoods	
17	Implement Speed Limit Reductions – Major Streets	City – Transportation Planning
18	Implement Speed Limit Reductions and Increased	City – Traffic Operations
	Fines – Construction Zones	
19	Reduce Progression Speed for Traffic Signal	City – Traffic Operations
	Coordination	
20	Carry out Education Campaigns	City – Transportation Planning
21	Adjust Project Prioritization Criteria in the Active	City – Transportation Planning
	Transportation Master Plan to Place a Greater	
22	Emphasis on Safety and Collisions	City Engineering
22	Capital Projects	City – Engineering
22	Capital Flojects Review Official Plan and Zaning Ry laws for Vision	City Planning
23	Zero Opportunities	City Transportation Planning
24	Review Design Standards and Development	
24	Manual for Vision Zero Opportunities	City – Transportation Planning
25	Require Transportation Impact Studies for New	City – Transportation Planning
20	Developments to Include a Full Multimodal Review	ony – mansportation i naming
26	Develop Safety Performance Functions	City – Transportation Planning
27	Implement Automated Speed Enforcement	City – Traffic Operations
28	Install Transverse Rumble Strips at Select	City – Transportation Planning
20	Locations	only manoportation r lamming
29	Implement a Parking Ticket Forgiveness	City – Transportation Planning
	Program to Target Impaired Driving	
30	Provide Free (or Cost-Included) Transit Service	Transit Windsor
	for Alcohol-Oriented Special Events	City – Special Event Resource Team
31	Support the Development of a "Safe Ride Home"	To be determined
	Service	
32	Provide Stop Bars and Crosswalk Markings at	City – Traffic Operations
	Unsignalized Intersections	

Number	Recommended Initiative	Lead Agency or City Department
	(highlighting indicates initiatives identified by	
	members of the Stakeholder Group as high priority)	
33	Provide Ladder Crosswalk Markings at Signalized	City – Traffic Operations
	Intersections	
34	Implement Fully Protected Intersections	City – Transportation Planning
		City – Engineering
35	Implement Leading Pedestrian Intervals	City – Traffic Operations
36	Install Pedestrian Countdown Signals	City – Traffic Operations
37	Implement Hardened Centrelines at Intersections	City – Transportation Planning
	with High Speed Left Turns	
38	Adopt a "Roundabouts First" Policy or Best	City – Engineering
	Practice for New Intersections and Major	
	Roadway Projects	
39	Adopt a "No Right Turn Channels" Policy or	City – Engineering
	Best Practice for New Intersections and Major	
	Roadway Projects	
40	Implement a Road Diet Program	City – Engineering
		City – Transportation Planning
41	Develop a Comprehensive GIS-based Collision	City – Transportation Planning
	Information System	
42	Develop Safety-Related Vehicle Design Criteria for	City – Fleet Review Committee
	Future City Vehicle Fleet Purchases & Leases	

Highlighting indicates initiatives that were identified by the Vision Zero Stakeholder Group as especially high priority.

# **Overall and Interim Goals**

All initiatives included in the Vision Zero Action Plan have an associated activity, impact and outcome, as summarized in Figure 1.



#### Figure 1: Activity, Impact and Outcome Goals

Identified goals in the Vision Zero Action Plan goals can relate to an activity, impact or outcome. Each has advantages and disadvantages, as noted in Table 7.

#### Table 7: Activity, Impact and Outcome Goals

Goal Type	Activity Goals	Impact Goals	Outcome Goals
Examples	<ul> <li>Number of countermeasures installed</li> <li>Lane-kilometers of street with reduced speed limit</li> </ul>	<ul> <li>Change in operating speed for a treated roadway</li> <li>Number of red light camera citations issued</li> </ul>	<ul> <li>City-wide reduction in severe collisions</li> <li>Reduction in severe collisions at a treated location</li> </ul>
Strengths	<ul> <li>City can exert direct control to achieve goal</li> <li>Future performance can be predicted with high levels of certainty</li> </ul>	<ul> <li>Provides timely feedback on the performance of road safety interventions</li> </ul>	<ul> <li>Direct measurement of the focus of concern</li> </ul>
Weaknesses	<ul> <li>Proxy measure for safety; relationship between activity and impact/outcome is subject to uncertainty</li> </ul>	<ul> <li>Proxy measure for safety; relationship between impact and outcome is subject to uncertainty</li> </ul>	<ul> <li>Significant lag in results (on the order of years) from when action is taken until outcome can be measured</li> </ul>
Approach Used for Vision Zero Action Plan	<ul> <li>Activity goals are reflected in the Implementation Plan</li> </ul>	<ul> <li>Impact goals are identified where indicators are available</li> </ul>	Outcome goals are identified for all strategic priorities

#### **Overall Goal**

For all Vision Zero programs, the overall goal is zero fatalities and major injuries due to road crashes, ideally within an identified timeline.

The recommended overall goal of the Vision Zero Action Plan is zero fatal and major injury collisions within 15 years of adopting the Vision Zero Action Plan.

#### Interim Goals – Road Safety Outcomes

For all indicators that are given in terms of fatalities and major injuries, interim goals are as follows:

- 5 years after Vision Zero Action Plan adoption: 33% reduction from 2015-2019 baseline levels
- 10 years after Vision Zero Action Plan adoption: 67% reduction from 2015-2019 baseline levels
- 15 years after Vision Zero Action Plan adoption: 100% reduction from 2015-2019 baseline levels

Interim goals for each strategic priority are provided in Table 8.

## Table 8: Interim Goals by Strategic Priority

Strategic	Indicator	2015-2019	Goals		
Priority		Baseline	5 years	10 years	15 years
Overall	Fatalities and major injuries (all causes and victim categories)	37.2 per year	24.8 per year	12.4 per year	0 per year
1A: Vehicle Speeds	Fatalities and major injuries involving the following driver actions: • Exceeding speed limit	11.0 per year	7.3 per year	3.7 per year	0 per year
	<ul> <li>Speed too fast for conditions</li> <li>Lost control</li> </ul>				
	<ul> <li>Fatalities and major injuries involving either:</li> <li>Traffic control type identified as "traffic controller" or</li> <li>Road condition identified as "under construction"</li> </ul>	0.8 per year	0.5 per year	0.3 per year	0 per year
1B: Drug and Alcohol Impairment	<ul> <li>Fatalities and major injuries involving the following driver conditions: <ul> <li>Had been drinking</li> <li>Ability impaired, alcohol</li> <li>Ability impaired, alcohol (over 0.08)</li> <li>Ability impaired, drugs</li> </ul> </li> </ul>	4.8 per year	3.2 per year	1.6 per year	0 per year
1C: Inattentive Driving	Fatalities and major injuries involving the driver condition "inattentive"	3.8 per year	2.5 per year	1.3 per year	0 per year
1D: Failing to Yield at Intersections	Fatalities and major injuries at intersections involving the following driver actions: • Failed to yield right- of-way • Disobeyed traffic control • Improper turn	12.2 per year	8.1 per year	4.1 per year	0 per year
2A: Vulnerable Road Users	Pedestrian fatalities and major injuries	8.4 per year	5.6 per year	2.8 per year	0 per year
(Pedestrians, Cyclists, and Motorcyclists)	Cyclist fatalities and major injuries	3.2 per year	2.1 per year	1.1 per year	0 per year
	Motorcyclist fatalities and major injuries	6.0 per year	4.0 per year	2.0 per year	0 per year
3A: High Injury Corridors	Pedestrian fatalities and major injuries – Tecumseh Road East (Jefferson to Forest Glade Drive)	0.8 per year	0.5 per year	0.3 per year	0 per year
	Pedestrian fatalities and major injuries – Wyandotte Street (Ouellette to Chilver)	0.8 per year	0.5 per year	0.3 per year	0 per year

Strategic	Indicator	2015-2019	Goals		
Priority		Baseline	5 years	10 years	15 years
	Cyclist fatalities and major injuries – Wyandotte Street (Pelissier to Parent)	0.6 per year	0.4 per year	0.2 per year	0 per year
	Motor vehicle driver and passenger fatalities and major injuries – EC Row Expressway (Howard to Banwell)	1.8 per year	1.2 per year	0.6 per year	0 per year
	Motor vehicle driver and passenger fatalities and major injuries – Wyandotte Street (Pelissier to Gladstone)	1.0 per year	0.7 per year	0.3 per year	0 per year
3B: Signalized Intersections	Fatalities and major injuries at signalized intersections	11.6 per year	7.7 per year	3.9 per year	0 per year
4A: Improved Data Sources and Information Sharing	N/A				
4B: Design Standards and Best Practices	N/A				

# Interim Goals – Impacts

Strategic	Indicator	2015-2019	Goals		Notes
Priority		Baseline	Target	Timeframe	
1A: Vehicle Speeds	% of treated locations with operating speed within 5 km/h of target speed	N/A	80%	Immediate after treatment	This indicator should be summarized by category (e.g. speed limit reduction, radar speed feedback sign, permanent traffic calming, Complete Street installation)
	# of automated speed enforcement citations issued	N/A	Downward trend in citations issued at each treated intersection	1 year after treatment	
1B: Drug and Alcohol Impairment	# of riders per year using "Safe Ride Home" service	0	To be determined	To be determined	Goals to be identified as part of service development
1C: Inattentive Driving	N/A				
1D: Failing to Yield at Intersections / 3B: Signalized Intersections	# of red light camera citations issued	N/A	Downward trend in citations issued at each treated intersection	1 year after treatment	

Strategic	Indicator	2015-2019	Goals		Notes
Priority		Baseline	Target	Timeframe	
2A: Vulnerable Road Users (Pedestrians, Cyclists, and Motorcyclists)	N/A				
3A: High Injury Corridors	See note	N/A	To be determined	To be determined	As part of each road safety audit, impact goals will be developed based on the audit's conclusions and recommendations
4A: Improved Data Sources and Information Sharing	Mean days from crash date to date crash report is entered into City database	477 days	60 days	Immediate after implementation of ARIS-based collision data system	
	Percentage of crash reports entered into the database within 90 days after the crash	0%	90%	Immediate after implementation of ARIS-based collision data system	
	% of fatal collisions where Fatal Collision Response Team was activated	N/A	100%	Immediate after establishment of the Fatal Collision Response Team	
4B: Design Standards and Best Practices	N/A				
Multiple	Education campaign reach	N/A	To be determined	To be determined	Campaign goals will be developed individually for each educational campaign

#### Implementation Plan

The Vision Zero Action Plan includes an implementation plan with short term (0-5 years), medium term (5-10 years) and long term (10-15 years) targets. The implementation plan is included in Appendix A.

A number of measures can proceed immediately; these measures are summarized in Table 9 below. In cases where these measures require Council approval, they have been included in the report recommendations.

#### Table 9: Recommended Initiatives for Immediate Action

Number	Recommended Initiative
1	Develop and Implement a Complete Streets Policy (development portion)
3	Obtain Collision Data through Provincial ARIS System
5	Review Yellow and All-Red Intervals for Traffic Signals
6	Install Retroreflective Backboards for Traffic Signals
12	Establish a Fatal Collision Response Team
13	Explore Data-Sharing Arrangements Between Agencies
18	Implement Speed Limit Reductions and Increased Fines – Construction Zones
19	Reduce Progression Speed for Traffic Signal Coordination
20	Carry out Education Campaigns
28	Install Transverse Rumble Strips at Select Locations
38	Adopt a "Roundabouts First" Policy or Best Practice for New Intersections and Major
	Roadway Projects
39	Adopt a "No Right Turn Channels" Policy or Best Practice for New Intersections and Major
	Roadway Projects
41	Develop a Comprehensive GIS-based Collision Information System

Recommendation #41, Develop a Comprehensive GIS-based Collision Information System, requires the purchase of a subscription of TES Software, setup costs and additional co-op students to assist existing city staff in building the City's collision database.

This GIS based software, as noted in the financials below, has been identified in the Supplemental Vision Zero Implementation plan as an important first step to roll out and support the implementation of 14 other data driven initiatives.

The City of Windsor uses GIS extensively and has a significant amount of data in GIS form. Currently, the Windsor Collision Database is a standalone database, not connected to other data sources. This initiative would entail translating data from the collision database into a GIS, which would allow more efficient analysis of collision data to identify collision "hot spots" and City-wide trends.

Having a GIS-based collision information system would also allow for comparisons with other mapped data, which would enable analyses that City staff have not been able to do to date, such as identifying correlations between road safety outcome and neighbourhood characteristics (e.g. social determinants of health), which could inform future road safety policies or outreach programs.

TNS Group (formerly TES Information Technology) has provided software development and consulting engineering services to the public and private sectors since the year 2000. The company focuses entirely on the field of traffic engineering and road safety and consists of multiple branches within this field including software development (custom and off-the-shelf), consulting, as well as collision data entry and management.

TES Software is the TNS Group flagship product which is used by more than 70 agencies across North America. TES Software consists of several modules; the City is interested in the following modules:

• Infrastructure/GIS Module,

- Traffic Count & Study Module,
- Collision Module,
- · Collision Mapping and Geocoding Module, and
- Safety Module.

TES software has been evaluated as being the only available software on the market that will provide the required functionality. The software is an industry standard thorough the province and country.

Although an implementation plan is provided in the Vision Zero Action Plan, it only categorizes the initiatives into three timeframes, Short (0-5 years), Medium (5-10 years) and Long (10-15 years). The Supplemental implementation plan helps illustrate the relationship between related initiatives. Some initiatives depend on the results of others before it is possible to implement, while others can be implemented independently.

## CQ 7-2020 – 40 km/h Residential Speed Limits

Report S 111-2020 previously provided Council with three (3) potential options for reduction of speed limits:

- 1. Sign 40 km/h residential streets individually.
- 2. Reduce the City-wide default speed limit to 40 km/h
- 3. Implement speed areas in residential neighbourhoods.

Each option is detailed in the attached report along with pricing from 2020. It should be noted that costs have increased since this report was developed in the range of 40%.

The Vision Zero Action Plan has two (2) initiatives that relate to speed limit reductions;

- #16 Implement Speed Limit Reductions Neighbourhoods
- #17 Implement Speed Limit Reductions Major Streets

Initiative #16 aligns with option 3 from report S 111-2020 while initiative #17 does not directly align with any option. However, indirectly is could be considered to be aligned with options 1 or 2.

Major (Arterial) road speed limits in the City are between 50 km/h and 70 km/h depending on the cross section of the roadway. A City-wide reduction of the default speed to 40 km/h would not affect many of the major roads that are already 50 km/h as many of these roads would have very little compliance for a speed limit lower than this. However, lowering some of the higher speed roads to 50 km/h may have more impact.

Neither initiative #16 nor #17 were identified as immediate action items, however they are listed as potentially being implemented within the 0-5 year time frame. As noted in the Supplemental Implementation Plan, Administration recommends the implementation of both of these initiatives be driven by data. With the purchase of the TES software above, speeds throughout the City can be compiled graphically and analysed. The software will identify specific neighbourhoods that could be targeted for speed reductions, it will also allow Administration the opportunity to analyse the areas and

propose other traffic calming tools that can be implemented along with the speed reductions that may assist in increasing compliance. As noted in previous reports, speed reductions typically do not have an impact when implemented alone. Additionally, the software will assist in determining appropriate speed reductions for major roadways.

Assuming the purchase of the software is complete early 2024, there will be time required to upload all the City's existing data. Based on these timelines, initial recommendations for implementation of initiatives #16 and #17 are estimated be presented as part of the 2025 and/or 2026 budget process.

## CQ 27-2021 – All-Way Stop Warrant

While fundamentally, stop control devices are installed with the intention to make roadways safer and hence may be considered an initiative related to the vision zero mandate, they are a regulatory element of the Highway Traffic Act and therefore not an item specifically discussed within a Vision Zero framework. Vision Zero looks at initiatives that can be done outside of and in addition to the regulatory safety devices. Of the items in the Action Plan, the only item that could potentially be tied to the All-Way stop warrant process would be initiative #38 – Adopt a "Roundabouts First" Policy or Best Practice for New Intersections and Major Roadway Projects. Some Municipalities have implemented a policy that would allow for some intersections to be converted into roundabouts or smaller traffic circles where all-way stops are not warranted. This could be considered in the development and adoption of Windsor's Roundabout First Policy of Best Practice. However, this consideration would not change the proposed warrant criteria proposed in report S 70-2023.

#### **Risk Analysis:**

Overall, the Vision Zero Action Plan is a mitigation strategy for life safety risk to road users in Windsor.

Construction costs – and the impact of policy and best practice decisions on construction costs – are subject to variability due to market forces. These risks are mitigated by following the Purchasing By-law and standard project management practices.

Risks that the interim and overall goals of the Vision Zero Action Plan may not be met are mitigated by ongoing monitoring, reporting, and periodic updates to the Action Plan.

This GIS based software has been identified in the Supplemental Vision Zero Implementation plan as an important first step to roll out and support the implementation of 14 other initiatives. Any delay in the purchase of TES Cloud Software and hiring coop student to assist in building the database will delay the future implementation of those data driven 14 initiatives

Initiatives that require additional funding will be brought forward for consideration in future budget items. If additional budget allotments are not approved, the overall goals of the Vision Zero Action Plan may not be met.

# **Climate Change Risks**

## **Climate Change Mitigation:**

N/A

## **Climate Change Adaptation:**

N/A

#### **Financial Matters:**

Funding would be required to purchase the TES Cloud Software to translate data from the collision database into a GIS, which would allow more efficient analysis of collision data to identify collision "hot spots" and City-wide trends. TES Cloud Software will also allow for comparisons with other mapped data, informing future road safety policies and outreach programs at a cost of approximately \$23,404.85 inclusive of non-refundable HST for year 1 and \$13,737.63 (inclusive of non-refundable HST) for the second and third years ongoing subscription costs. The year 1 cost includes the monthly subscription fee, a one-time set up and training fee, and a one-time import of historical collision data. The monthly subscription fee would remain the same for the first three years with adjustments after the three years based on the annual inflation rates reported by the Bank of Canada.

Transportation Planning currently does not have an operating budget sufficient to fund the initial year 1 cost of the software set up and subscription, therefore, Administration recommends funding year 1 with funding from the Budget Stabilization Reserve, Fund 139, to be transferred into and tracked in a new capital project. Subsequent year costs will be absorbed in the annual operating budget for Public Works.

In addition to the software requirements for the TES software implementation, Administration would recommend hiring a co-op student for each school term in 2024 and the first school term in 2025 to assist existing city staff in building the City's collision database. The estimated cost of three (3) students in 2024 is \$40,000, and one (1) student in 2025 is \$15,000. Transportation Planning does not have an approved operating budget allotment for students currently, and as such, Administration recommends funding the cost of four (4) students with a transfer of funding from the Budget Stabilization Reserve, Fund 139, to be transferred into and tracked in a new capital project. Students will not be required ongoing once implementation is complete.

Expense	2024	2025	2026	Total
TES Software	23,404.85	13,737.63	13,737.63	50,880.11
Co-op Students	40,000.00	15,000.00	-	55,000.00
Total Expenses	63,404.85	28,737.63	13,737.63	105,880.11
Funding Source	2024	2025	2026	Total
Budget Stabilization Reserve (Fund 139)	63,404.85	15,000.00	-	78,404.85
Operating	-	13,737.63	13,737.63	27,475.25
Total Funding	63,404.85	28,737.63	13,737.63	105,880.11

A summary of these costs, and funding sources, is provided in the table below.

While 18 of the 42 initiatives are zero-cost initiatives or are expected to result in net cost savings to the Corporation, many of the remaining initiatives have not been allocated any funding in the current Capital or Operating Budgets. Administration will make requests for necessary funding as part of future Capital or Operating Budget submissions; however, these initiatives cannot be completed unless sufficient funding is available and allocated to these works through the annual budgetary process.

# **Consultations:**

Consultations were carried out with the Vision Zero Task Force and the Vision Zero Stakeholder Group at the following points:

- Project initiation
- After development of strategic priorities
- After development of recommended initiatives
- After development of interim goals and implementation plan

# Conclusion:

The recommended Vision Zero Action Plan and the Supplemental Action Plan has been brought forward as directed by the Vision Zero Policy. The Vision Zero Action Plan provides recommendations aimed at eliminating fatal and major injury collisions on streets under the jurisdiction of the City of Windsor within 15 years of adoption of the Plan.

# **Planning Act Matters:**

N/A

# Approvals:

Name	Title
Cindy Becker	Financial Planning Administrator
Shawna Boakes	Executive Director of Operations and Deputy City Engineer
Shawna Boakes for	Commissioner of Infrastructure Services and City Engineer
Janice Guthrie	Commissioner of Corporate Services and Chief Financial Officer
Joe Mancina	Chief Administrative Officer

# Notifications:

Name	Address	Email
Vision Zero Stakeholder Group		
Diane Bradford and Sean Wraight,		Diane.bradford@wrh.on.ca
Co-Chairs		sean.wraight@ontario.ca
Windsor Essex Road Safety		
Working Group		

# Appendices:

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