

# MoveSmart Mobility Management Strategy 2023



Transportation and Fleet Management Services

November 20<sup>th</sup>, 2023

# Traffic Services: What We Deliver

**Mandate:** To manage safe and efficient movement of pedestrian and vehicular traffic along City streets, pathways and sidewalks.



## Traffic Operations and Road Safety

- Traffic Operations, Speed Reviews, Traffic Calming
- On-Street Parking Studies and Amendments
- New Warning and Regulatory Signs
- New Traffic Control Measures
- Pavement Marking Program
- Sign Retro-Reflectivity Program

## Traffic Signals and Streetlighting

- Traffic Signal Operations and Maintenance
- Streetlight Operations and Maintenance

## School Crossing Guards

- School Crossing Guard Program
- Active School Travel

## Utilities and Permits

- Utility Coordination and Road Permits
- Special Project – Bell FTTH



### **ROAD SAFETY PROGRAM**

Increase road  
safety and raise  
public awareness



### **MOBILITY MANAGEMENT PROGRAM**

Improve efficiency  
through innovation  
and technology



### **SUSTAINABLE MOBILITY PROGRAM**

Support active  
and sustainable  
transportation



### **TRAFFIC DATA MANAGEMENT PROGRAM**

Assure accuracy  
and availability of  
traffic data



## ROAD SAFETY PROGRAM

Increase road safety and raise public awareness



## MOBILITY MANAGEMENT PROGRAM

Improve efficiency through innovation and technology



## SUSTAINABLE MOBILITY PROGRAM

Support active and sustainable transportation



## TRAFFIC DATA MANAGEMENT PROGRAM

Support active and sustainable transportation

2021 / 2022



### In-Service Road Safety and Corridor Operational Review

Identify safety measures for priority locations, community areas and corridors



### Neighbourhood Traffic and Speed Management Plan

Improve safety and livability of neighbourhoods by calming traffic

2023



### Construction Management and Work Zone Safety Plan

Develop guidelines to minimize impacts and maximize safety for construction workers and the public



### Road Safety Strategic Plan

Foster partnerships and a data-driven approach for improving safety

2024



### Network Screening and Annual Report

Prioritize safety resources for roads and intersections



### Automated Speed Enforcement Plan

Use technology for enforcement in school zones and other community areas



### Speed Compliance Plan

Address speeding behaviour with feedback to drivers

2025



### Low-Cost Safety Countermeasures Plan

Implement low-cost measures such as pavement markings, signage, etc.

2026

### Rail Transportation and Safety Plan

Improve mobility while minimizing noise at crossings near residential area

### Heavy Traffic and Truck Routing Plan

Manage heavy vehicle and truck transport throughout the City

2021 / 2022



### Traffic Signal Control System and Upgrades

Establish a traffic signal control system and upgrade field equipment



### Pavement Markings and Signs

Replace and optimize markings and signs



### Update Streetlights

Continue LED retrofit with smart adaptive features

2023



### Traffic Signal Operations and Maintenance

Maximize the efficiency of traffic signal operations



### Curbside Parking Management

Establish parking policies and procedures throughout the City



### Traffic By-Law Consolidation

Consolidate the City's road-related by-laws



### Intelligent Transportation System (ITS) Strategy and Plan

Establish a roll-out plan for existing and emerging smart mobility technologies

2024



### Traveller Information Systems

Generate and present data to support travellers

2021 / 2022



### School Crossing Guards

Manage the City's school crossing guard program



### Safer School Zones Plan

Develop and implement safety measures near schools for traffic, pedestrians, and pick-ups/drop-offs



### Input into Development Planning

Provide insights to help the City's planning for future development

2023



### Pedestrian Infrastructure Enhancement Plan

Optimize and upgrade the City's pedestrian infrastructure



### Creation of Community Safety Zones

Develop guidelines to create and operate community safety zones

2024



### Cycling Network Expansion

Optimize and upgrade the City's cycling infrastructure



### Travel Demand Management Plan

Share insights and decisions for the City's travel demand management plan

2021 / 2022



### Traffic Data Needs Assessment

Identify traffic data requirements to support the MoveSmart Strategy



### Traffic Data Management System

Procure and implement a traffic data management system

2023



### Traffic Data Services

Enhance the City's traffic data collection programs and contracts



## Communications and Public Awareness Initiative

Ongoing awareness of tangible benefits through communication and education

14

Initiatives Underway

6

Launched in 2023

# MOVESMART

## Mobility Management Strategy



# ROAD SAFETY PROGRAM

## **GOAL:**

### **Increase road safety and raise public awareness**

- To bring together key stakeholders to keep the City's streets safer for all road users and help foster a road safety culture
- To take a more proactive approach to road safety by using data and proven statistical procedures and identify additional road safety opportunities

## **Projects and Activities**

- ✓ Implement Speed Limit policy introducing 40 km/h neighbourhoods
- ✓ Update City's Neighbourhood Traffic Calming policy, program and toolbox of measures
- ✓ Undertake Road Safety Reviews and Area Traffic Studies to address safety and improve mobility
- ✓ Collaborate with York Region on a Traveller Safety Plan
- ✓ Prepare City's Automated Speed Enforcement (ASE) program
- ✓ Develop Citywide Community Safety Zone Policy
- ✓ Develop Construction Management and Safety Plan to address congestion and support pedestrian safety





# ROAD SAFETY PROGRAM

Increase road safety and raise public awareness



# MOBILITY MANAGEMENT PROGRAM



## GOAL:

### **Improve efficiency through innovation and technology**

- To modernize the City's traffic signals system, providing more efficient traffic flow and link to existing and future technologies
- To ensure pedestrian, cyclist and vehicular traffic continue to move safely and efficiently through signalized intersections and pedestrian crossings using the existing road network

## **Projects and Activities**

- ✓ Develop a plan to implement an Intelligent Transportation System (ITS) traffic signal centralized system
- ✓ Implement a Pilot Project to determine effectiveness of proposed signal upgrades in the City
- ✓ Procure a Traffic Signal Control System that is City owned for proactive management
- ✓ Develop an ITS Strategic Plan to modernize the City's traffic signal infrastructure with future growth





# MOBILITY MANAGEMENT PROGRAM

Improve efficiency through innovation and technology





# SUSTAINABLE MOBILITY PROGRAM



## GOAL:

### **Support active and sustainable transportation**

- To support the development of additional active and sustainable transportation options and ensure that they focus on the safety of all road users
- To support the expansion of the pedestrian and cycling network through consideration of the operations and maintenance services

## Projects and Activities

- ✓ Advance improvements for pedestrian crossings and cycling networks with other departments
- ✓ Plan and implement Pedestrian Crossovers (PXO) across Vaughan
- ✓ Support Cycling Network Expansion Program through the Pavement Marking Design Program
- ✓ Develop a “Made in Vaughan” Pedestrian Crossing (PXO) and Mid-Block Pedestrian Signals (MPS) Policy and Guideline
- ✓ Develop a Safer School Zones Plan recommending policies, programs and support active school travel
- ✓ Manage the School Crossing Guard Program including supervision of over 125 crossing guards



# SUSTAINABLE MOBILITY PROGRAM

Support active and sustainable transportation



# TRAFFIC DATA MANAGEMENT PROGRAM



## GOAL:

### **Assure accuracy and availability of traffic data**

- To modernize traffic data management with up to date traffic data to form the core of the Strategy and support data-driven and evidence-based decision-making
- To have traffic data to allow for ongoing tracking of performance of the transportation system over time

## Projects and Activities

- ✓ Acquire a traffic data management system
- ✓ Develop a plan for system integration
- ✓ Centralize traffic data in a Regional database to advance analytics and knowledge sharing between the Region and all local municipalities
- ✓ Customize traffic data management in collaboration with Infrastructure Planning and Capital Asset Management
- ✓ Modernize and develop an annual traffic data collection plan with relevant City departments





# TRAFFIC DATA MANAGEMENT PROGRAM

Assure accuracy and availability of traffic data



+ STUDY

Drag a column header here to group by that column



Search ...

<input type="checkbox"/>	Study No	Location Description	Municipality	Jurisdiction	Study Type	Study Category	Status	Start Date	End Date	Total AADT
<input type="checkbox"/>	1	Nashville Road btwn ...	Vaughan	(All)	(All)	(All)	(All)	05/26/2012 12:0...	05/27/2012 12:0...	7823
<input type="checkbox"/>	2	Nashville Road btwn ...	Vaughan	(All)	(All)	(All)	(All)	05/27/2012 12:0...	05/28/2012 12:0...	6126
<input type="checkbox"/>	3	Nashville Road btwn ...	Vaughan	(All)	(All)	(All)	(All)	05/28/2012 12:0...	05/29/2012 12:0...	10300
<input type="checkbox"/>	4	Nashville Road btwn ...	Vaughan	(All)	(All)	(All)	(All)	05/29/2012 12:0...	05/30/2012 12:0...	10105
<input type="checkbox"/>	5	Nashville Road btwn ...	Vaughan	(All)	(All)	(All)	(All)	05/30/2012 12:0...	05/31/2012 12:0...	10129
<input type="checkbox"/>	6	Nashville Road btwn ...	Vaughan	(All)	(All)	(All)	(All)	05/31/2012 12:0...	06/01/2012 12:0...	10150
<input type="checkbox"/>	7	Nashville Road btwn ...	Vaughan	(All)	(All)	(All)	(All)	06/01/2012 12:0...	06/02/2012 12:0...	9335
<input type="checkbox"/>	8	Burthard Road btwn ...	Vaughan	(All)	(All)	(All)	(All)	05/06/2012 12:0...	05/07/2012 12:0...	17716

☒ (Municipality) Equals 'Vaughan'



Filter

From Date: 1/1/2019

To Date: 12/31/2023

Traffic Study

- ☐ Intersection AADT
- ☐ Road Segment AADT
- ☐ Speed Compliance
- ☐ Posted Speed
- ☐ Average Speed
- ☐ Speed Study
- ☐ Volume Study
- ☐ TMC Study

Collision

- ☐ Show Cluster Data
- ☐ Show Collision Locations
- ☒ None



# TRAFFIC SERVICES CASES - 2023

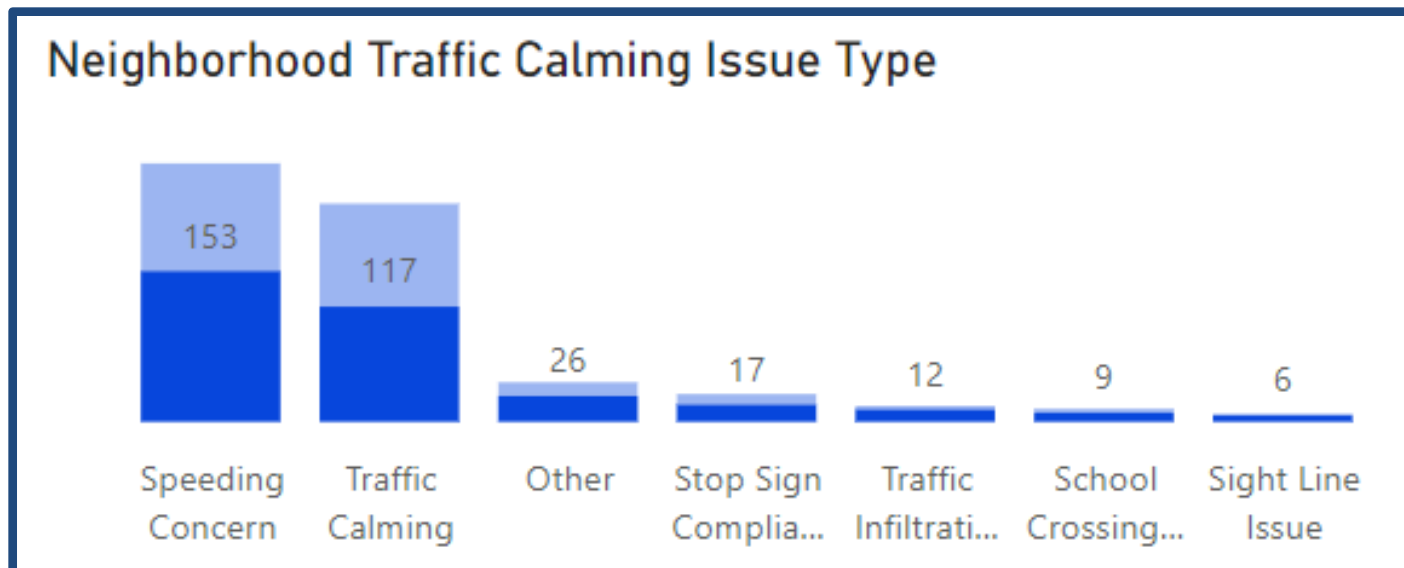
**3228** Resident Service Cases in 2023

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**81%** Resolved (to date) **19%** Under Review

**82%** Pavement Markings, Sign Requests, Streetlights

**18%** Road safety (Traffic Calming)





# QUESTIONS AND FEEDBACK





# Information Resources

[Mobility Management Strategy | City of Vaughan](#)

[About the Strategy | City of Vaughan](#)

[Traffic Calming Plan | City of Vaughan](#)

[Corridor Reviews | City of Vaughan](#)

[#SlowDownVaughan | City of Vaughan](#)

[Active School Travel | City of Vaughan](#)

[School Zone Safety | City of Vaughan](#)

The image shows two screenshots of the City of Vaughan website. The top screenshot is the 'MoveSmart Mobility Management Strategy' page. It features the City of Vaughan logo, a search bar, and a navigation menu with links for Residential, Business, Council, Explore Vaughan, and About City of Vaughan. Below the navigation menu is a breadcrumb trail: Home / About the City of Vaughan / Projects and Initiatives / Transportation Projects / MoveSmart Mobility Management Strategy. The main content area has the title 'MoveSmart Mobility Management Strategy' and a sub-header 'The City's transportation system is in a state of expansion and transition with more urbanization taking place. Travel demand continues to increase as the City's population and economy grows.' To the right is a graphic with the text 'MOVESMART MOBILITY MANAGEMENT STRATEGY' and icons for a person walking, a car, a bus, and a computer. The bottom screenshot is the 'School Zone Safety' page. It features the same navigation menu and breadcrumb trail: Home / Residential / Roads and Traffic / Traffic / School Zone Safety. The main content area has the title 'School Zone Safety' and a sub-header 'As students make their way to and from class, there is more pedestrian and vehicular traffic on the road. It is important for drivers, parents and children to be alert, follow the rules of the road, and walk safely – especially in school zones.' To the right is a photo of a person in a yellow safety vest standing next to a yellow pedestrian crossing sign. Below the photo are three small images of children wearing face masks. On the right side of the bottom screenshot is a section titled 'Additional Resources' with links to 'Ministry of Transportation: Pedestrian Safety' and 'School Zone Safety'.

**MoveSmart Mobility Management Strategy**

The City's transportation system is in a state of expansion and transition with more urbanization taking place. Travel demand continues to increase as the City's population and economy grows.

**School Zone Safety**

As students make their way to and from class, there is more pedestrian and vehicular traffic on the road. It is important for drivers, parents and children to be alert, follow the rules of the road, and walk safely – especially in school zones.

**Additional Resources**

- [Ministry of Transportation: Pedestrian Safety](#)
- [School Zone Safety](#)

# Contact Information

## Transportation and Fleet Management Services

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**MOVESMART**

MOBILITY MANAGEMENT STRATEGY

