

**DATE:** February 24, 2023

**TO:** Mayor and Members of Council

**FROM:** Zoran Postic, Deputy City Manager Public Works

**RE:** **Committee of the Whole Working Session  
March 1, 2023, Agenda Item #3  
MoveSmart Mobility Management Strategy 2<sup>nd</sup> Annual Progress  
Report**

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**Purpose**

To provide a copy of Attachment 1 to the subject report of the Deputy City Manager, Public Works - 2023 MoveSmart 2<sup>nd</sup> Annual Progress Report, March 1, 2023.

Respectfully submitted by



Zoran Postic  
Deputy City Manager Public Works

**Attachment:**

1. 2023 MoveSmart 2<sup>nd</sup> Annual Progress Report, March 1, 2023

# 2023 Annual Report

# MOVESMART

## MOBILITY MANAGEMENT STRATEGY



# MOVESMART

## MOBILITY MANAGEMENT STRATEGY



On March 10, 2021, Vaughan Council endorsed MoveSmart, reinforcing the City's commitment to Transportation and Mobility - a strategic priority in the Term of Council Service Excellence Strategic Plan. With a focus on improving the municipal road network, enhancing road safety and supporting more cycling and pedestrian infrastructure to create a fully connected and integrated community, MoveSmart positions the City to achieve the strategic goals and objectives set forth by Council.



# MESSAGE FROM THE **MAYOR**



The City of Vaughan is committed to being a fully connected and integrated community. As a part of that commitment, the City developed MoveSmart, a first-of-its-kind road safety and mobility management strategy. MoveSmart ensures all road users can efficiently and safely utilize the transportation network while identifying and promoting more sustainable transportation options for residents and visitors.

MoveSmart is advancing in 2023, with 14 of 29 initiatives moving forward as planned, and six more will launch this year. The strategy relies heavily on collaboration and seeks engagement with residents, York Regional Police, York Region,

York Region Public Health, local school boards and other subject matter experts. By working together, soliciting public feedback and working with partners from across York Region, we are making our city better for everyone.

The City continues to advance innovative strategies like MoveSmart because we keep Vaughan moving.

Sincerely,

A handwritten signature in black ink, appearing to read 'Steven Del Duca'. The signature is fluid and cursive.

Steven Del Duca  
Mayor, City of Vaughan

# MESSAGE FROM THE **CITY MANAGER**



Incredible progress was made on the City of Vaughan's MoveSmart Mobility Management Strategy in 2022.

With many road safety and active and sustainable travel initiatives completed, underway and on the horizon, it's truly remarkable to see this first-of-its-kind strategy come to life!

I want to recognize, congratulate and thank every member of the Vaughan team who has contributed to the achievements made to date. It goes without saying that MoveSmart is a team effort.

I look forward to everything that will be accomplished under this strategy in 2023.

Thank you,

A handwritten signature in black ink, appearing to read 'Nick Spensieri', written over a white background.

Nick Spensieri  
City Manager, City of Vaughan



# MESSAGE FROM THE **DEPUTY CITY MANAGER**



I am pleased to present the second annual MoveSmart Mobility Management Strategy Progress Report. As our city continues to grow, the need for safe, efficient and sustainable transportation options becomes increasingly important. The MoveSmart program is designed to take advantage of new smart technologies and involve the community in identifying and implementing solutions to enhance safety and mobility for all road users.

~ **Zoran Postic**,  
Deputy City Manager, Public Works



# MESSAGE FROM THE **DIRECTOR**



As the city of Vaughan continues to grow, the implementation of the MoveSmart Mobility Management Strategy is an important driver towards improving the safety, efficiency and sustainability of the city's transportation system. Important progress continues to be made and

collaboration and co-ordination between key provincial, regional and municipal stakeholders remains a core focus in achieving our vision of creating safe, integrated and thriving communities.

~ **Peter Pilateris**, Director of Transportation and Fleet Management Services

# MOVESMART AT A GLANCE

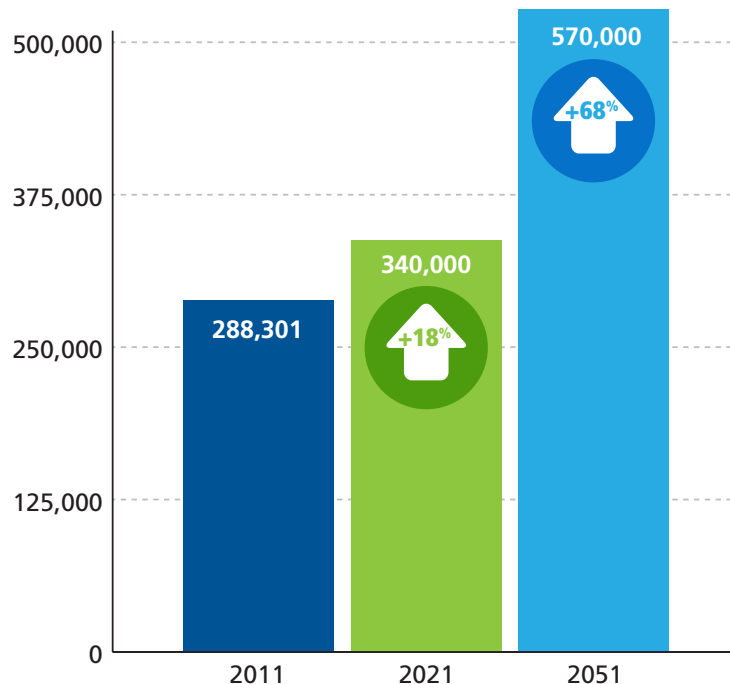
With thousands of businesses and more than 335,000 residents, the city of Vaughan is one of Ontario's fastest-growing municipalities.

To keep up with the increase in travel demand, the road network throughout the city of Vaughan continues to expand; new roads and recreation trails have been created to serve new development, and existing roads are being widened. This expansion creates many operational challenges in all parts of the city, including more construction, more controls for traffic and more vehicles, cyclists and pedestrians.

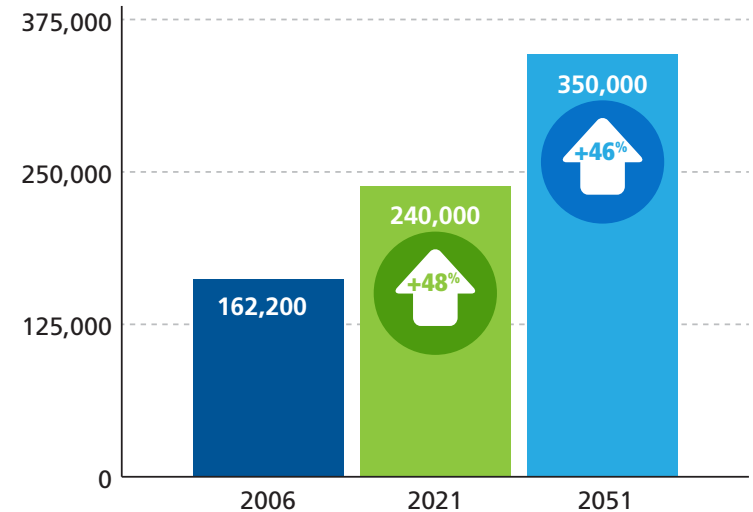
In response, the City initiated the MoveSmart Mobility Management Strategy (MoveSmart) in 2021. The strategy sets the direction and priorities for the next five years (2022-2026) while ensuring an efficient, reliable, safe and sustainable transportation system for all citizens and business owners.



## Population



## Jobs





The MoveSmart Strategy consists of **four highly integrated programs**:



**Road Safety**  
to 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 to identify additional road safety opportunities



**Traffic Data Management**  
to 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 use traffic data to monitor the ongoing performance of the transportation system over time



**Mobility Management**  
to improve efficiency through innovation and technology

- To modernize the city's traffic signals system, providing more efficient traffic flow and linking to existing and future technologies
- To ensure pedestrians, cyclists and vehicle traffic continue to move safely and efficiently through signalized intersections and pedestrian crossings using the existing road network



**Sustainable Mobility**  
to support active and sustainable transportation

- To support the development of additional active and sustainable transportation options and ensure these options focus on the safety for all road users
- To support the expansion of the pedestrian and cycling network by considering the operations and maintenance services





## ROAD SAFETY PROGRAM

Increase road safety and raise public awareness

### 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



## MOBILITY MANAGEMENT PROGRAM

Improve efficiency through innovation and technology

### 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

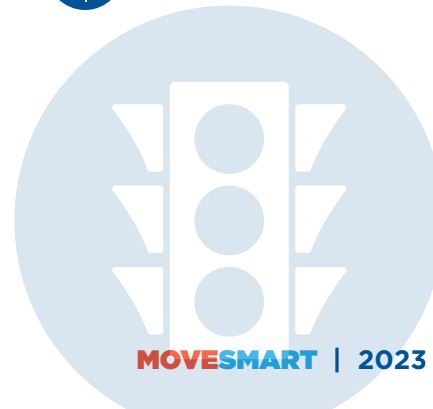
Establish a roll-out plan for existing and emerging smart mobility technologies

### 2024



#### Traveller Information Systems

Generate and present data to support travellers





## SUSTAINABLE MOBILITY PROGRAM

Support active and sustainable transportation

### 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



## TRAFFIC DATA MANAGEMENT PROGRAM

Support active and sustainable transportation

### 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



# MOVESMART

## Mobility Management Strategy

# MOVESMART: YEAR TWO IN REVIEW

This second year of MoveSmart made progress on 14 of the 29 initiatives, including #SlowDownVaughan and Active School Travel.



## Road Safety Program

- ✓ Automated Speed Enforcement Program
- ✓ In-Service Road Safety and Corridor Operational Reviews (Corridor Reviews)
- ✓ Neighbourhood Area Traffic Calming Policy, Design and Speed Management Plan (Neighbourhood Traffic Calming Plan)
- ✓ Traveller Safety Plan led by York Region (in collaboration with local municipalities)
- ✓ Speed Limit Policy



## Traffic Data Management Program

- ✓ Enhance traffic data collection
- ✓ Traffic engineering software database



## Sustainable Mobility Program

- ✓ Community Safety Zone Plan
- ✓ Safer School Zones Plan
- ✓ School Crossing Guard Program exposure index matrix

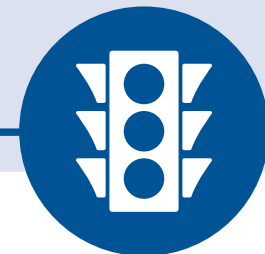


## Mobility Management Program

- ✓ Intelligent Transportation System
- ✓ Pavement markings and in-road flexible signs
- ✓ Streetlight maintenance
- ✓ Traffic signal control upgrades

## Notable Achievements

MoveSmart generated opportunities for students from Queen's University, York University and through the Canada Summer Jobs program. The City provided public sector work experience and the opportunity to contribute to various projects within MoveSmart, leveraging the students' innovation through applications and solutions for various road safety and mobility initiatives.



# ROAD SAFETY PROGRAM



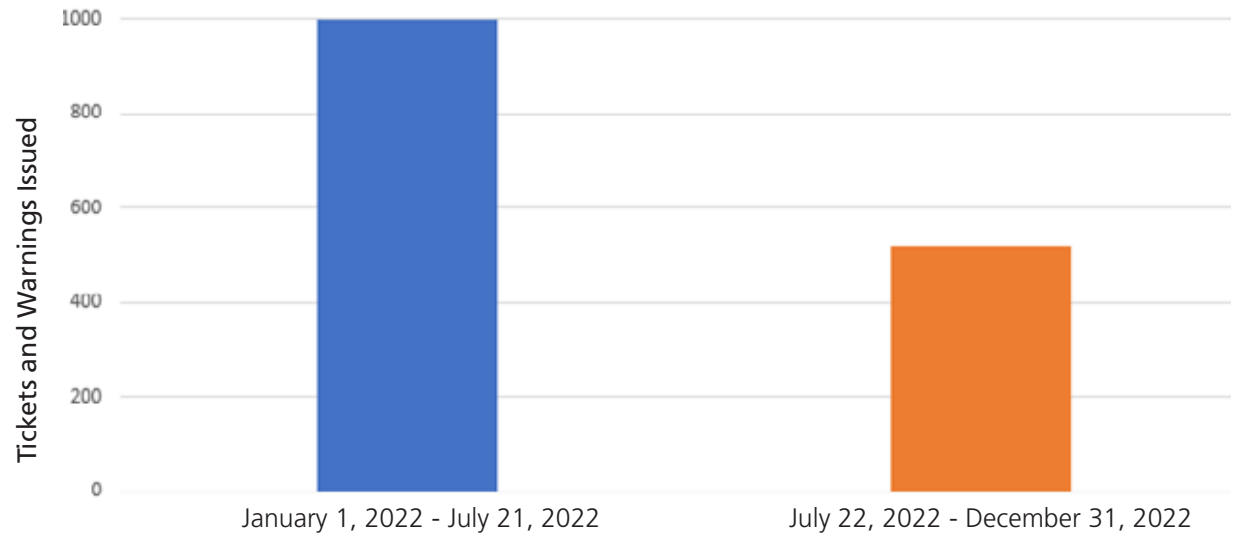
## ACCOMPLISHMENTS

- ✓ A city-wide #SlowDownVaughan campaign to encourage the public to slow down while driving on city roads.
- ✓ A road safety handbook with information on all road safety and sustainable mobility initiatives completed under MoveSmart to date.
- ✓ A comprehensive Speed Limit Policy to set and adjust appropriate speed limits throughout the city's street network.

**164** NEW 40 kilometres per hour signs installed to date

York Regional Police continue to support MoveSmart through speed limit enforcement. A consistent police presence and the City's traffic calming measures support greater compliance with posted speed limits. The City is committed to further evaluating the effects of traffic calming measures and identifying trends across the entire road network where additional interventions can be considered and applied.

Total York Regional Police speeding tickets and warnings issued in 40 kilometre per hour area pilot blocks



A **48 per cent decrease** in speeding and warning tickets in all area 40 kilometre per hour block pilot locations.

## WHAT'S NEXT

- The City is currently undertaking two projects to increase road safety and raise public awareness using data and proven statistical procedures to identify additional road safety opportunities:
  - Neighbourhood Area Traffic Calming Policy, Design and Speed Management Plan (Neighbourhood Traffic Calming Plan)
  - Six In-Service Road Safety and Corridor Operational Reviews (Corridor Reviews)
- The City is working towards implementing an Automated Speed Enforcement Program.
- A Construction Management and Work Zone Safety Plan will be developed to maximize safety for construction workers and the public during city-building projects.
- The City is working with York Region and local municipalities on a Traveller Safety Plan.



### Neighbourhood Traffic Calming Plan

**10** stakeholder and technical advisory meetings

**2** virtual engagement sessions

**9** in-person engagement sessions

MORE THAN **500** SURVEY RESPONSES

DURING PHASE ONE, ENGAGED WITH MORE THAN **1,000** RESIDENTS

### Corridor Reviews

**3** agency and stakeholder meetings

**4** public engagements

MORE THAN **100** SURVEY RESPONSES



# MOBILITY MANAGEMENT PROGRAM

## Did you know?

The City has:

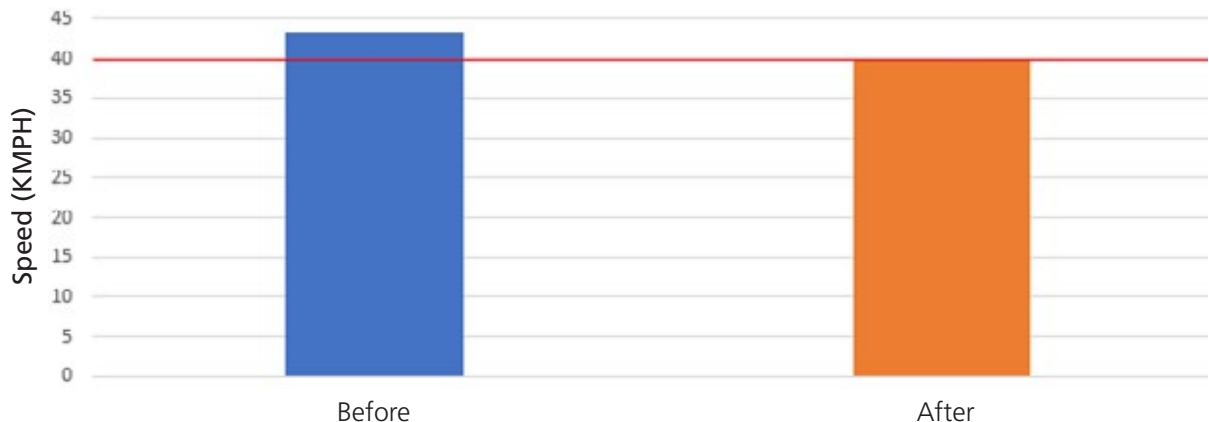
- applied **more than 65 “slow down” (or similar) stencils** to roadways
- installed **more than 240 in-road flexi posts**
- upgraded **more than 25,000 streetlights** to LED
- re-painted **more than 600,000 metres of lines**
- maintained **78 traffic signals** and **15 signalized pedestrian crossings**
- inspected **more than 17,000 signs**



## ACCOMPLISHMENTS

- ✓ The City has installed signs and pavement markings across Vaughan to remind motorists to slow down.
- ✓ The City has upgraded approximately 25,000 streetlights to light-emitting diode (LED) through a city-wide LED Streetlight Retrofit Program.

### Average speeds at locations before and after various traffic calming measures implemented



**A 9 per cent decrease** in average speed after various traffic calming measures were implemented (includes all 40 kilometre per hour locations, Active School Travel pilot locations and hot spots around the city).

## WHAT'S NEXT

- The City will initiate the procurement of a **Traffic Signal Control System and Upgrades** to monitor and control the City's 93 traffic signals and signalized pedestrian crossings. This will improve and modernize traffic signals and help manage congestion. It will also position the City to integrate with emerging smart mobility technologies.



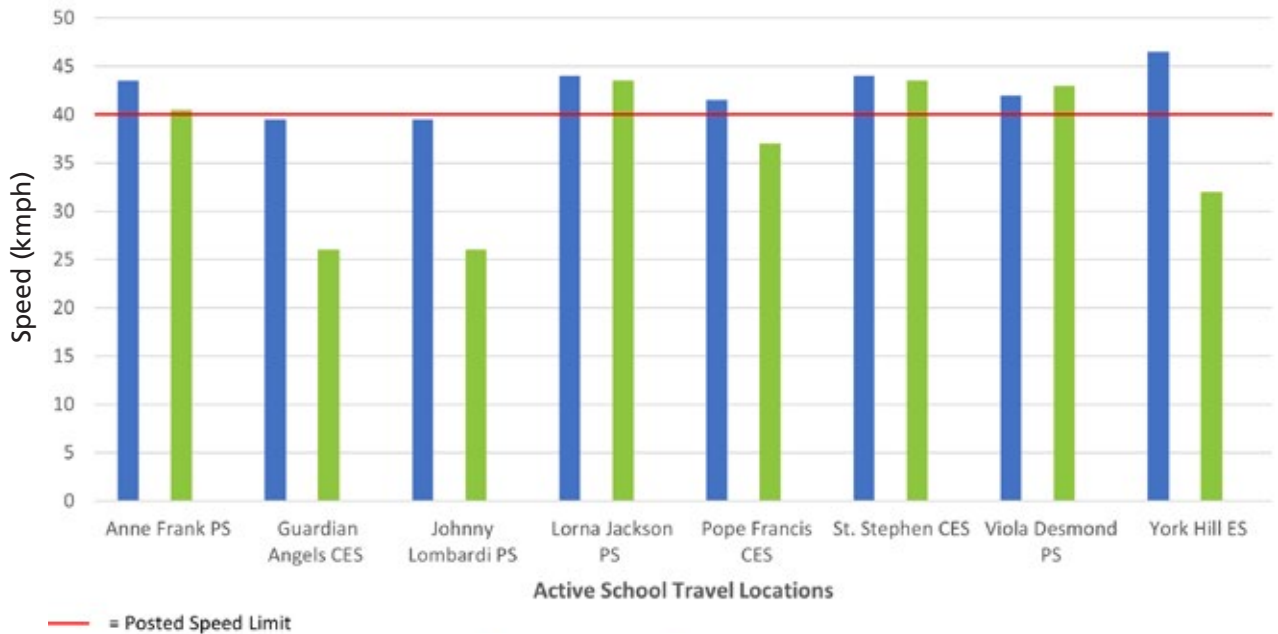
# SUSTAINABLE MOBILITY PROGRAM



## ACCOMPLISHMENTS

- ✓ In June 2022, the City launched the Active School Travel pilot program, which promotes any form of human-powered travel, such as walking or wheeling (including the use of assistive mobility devices), cycling, rollerblading or skateboarding to get to and from school.

### Average speed in Active School Travel pilot locations before and after traffic calming implementation



Active School Travel Locations

Recent studies near schools with traffic calming measures show **a trend in reduced vehicle speeds**. The City intends to continue these studies to better understand the effects of combining different traffic calming measures and how they influence road safety.



- ✓ Under the City's School Crossing Guard Program, guards are trained to balance traffic and pedestrian needs to provide safe passage. In Oct. 2022, the School Crossing Guard Program Exposure Index for Vaughan was completed. The Exposure Index measures the level of risk to pedestrians based on vehicle volumes and conflicting turning movements. Existing and new locations will be evaluated based on this new Exposure Index.

## WHAT'S NEXT

- The City is developing a Safer School Zones Plan that will include infrastructure, policy and design recommendations for improvements in school zone areas.
- As part of the Pedestrian Infrastructure Enhancement Plan, the City is working with stakeholders to upgrade the transportation network, including improved accessibility and providing a continuous pedestrian network.
- The City is developing policies and guidelines to assess and determine the potential locations and designations of Community Safety Zones. The Community Safety Zones Plans will guide where Automated Speed Enforcement will be located in Vaughan.

The City has MORE THAN

**115**

**SCHOOL CROSSING GUARDS**

and conducts MORE THAN

**230**

**SCHOOL CROSSING GUARD INSPECTIONS** per school year



# TRAFFIC DATA MANAGEMENT PROGRAM

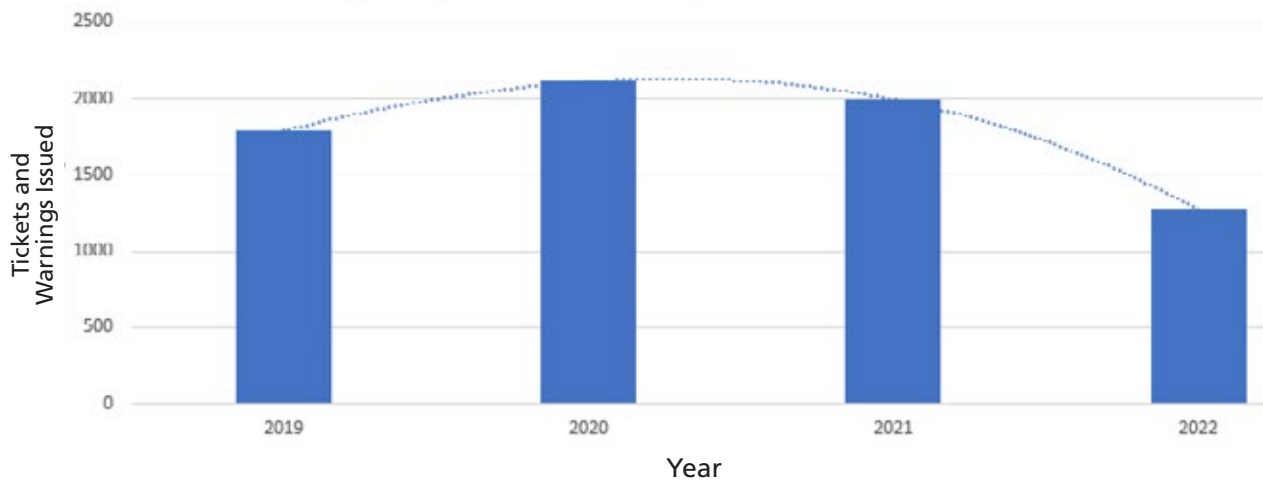


## ACCOMPLISHMENTS

- ✓ The City has acquired a Traffic Data Management System to integrate and share traffic information with local and regional road networks. It will also help City staff more effectively manage the transportation network and meet the city's current and future traffic management needs.
- ✓ The Traffic Data Management System allows the City to collect and store data efficiently, analyzing it quickly to support operations and planning services. It also monitors traffic condition trends over time, focusing resources and budgets toward priority areas.



## Speeding tickets and warnings issued in area 40 km/hr neighbourhood blocks



A **29 per cent decrease** from 2019-2022 (since implementing various traffic calming measures within pilot 40 kilometre per hour neighbourhood pilot block locations).



# PUBLIC AWARENESS INITIATIVES

Corporate and Strategic Communications supports the MoveSmart Strategy with a comprehensive communications approach that includes:

- **SOCIAL MEDIA MESSAGING:** shared with **more than 71,000 followers** across the City's four corporate social media platforms
- **NUMEROUS WEBPAGES:** dedicated to MoveSmart featured on vaughan.ca, which garners more than **2.6 million visits annually**
- **DIGITAL SIGNS:** shared throughout our city-wide network and garnering more than **63,000 daily impressions** or **more than 23 million impressions annually**
- **FEATURES IN CITY HALL CONNECTS NEWSLETTER:** distributed to all residences and businesses across the city (nearly **115,000 mailboxes**)
- **MOBILE SIGNS:** **numerous signs across the city**, strategically placed in each ward

A key factor to the success of MoveSmart's second year is the collaboration between internal and external partners and Vaughan citizens. Residents will continue to have opportunities to shape the strategy and provide insight through their daily experiences navigating the city's road network.

The achievements realized in the second year of MoveSmart are a direct result of steadfast collaboration with vested internal and external road safety partners, including York Region District School Board, York Region Catholic District School Board, York Region, York Region Public Health, York Regional Police and Vaughan Fire and Rescue Service.





## WHAT'S NEXT?

- Public consultation initiatives for the next phases of the Road Safety Strategic Plan, Neighbourhood Traffic Calming Plan and Corridor Reviews
- Promotions of all sustainable mobility programs, such as the School Crossing Guard Program, Active School Travel and the Pedestrian Infrastructure Enhancement Plan
- Automated Speed Enforcement Plan and identifying Community Safety Zones
- Continued promotion of #SlowDownVaughan



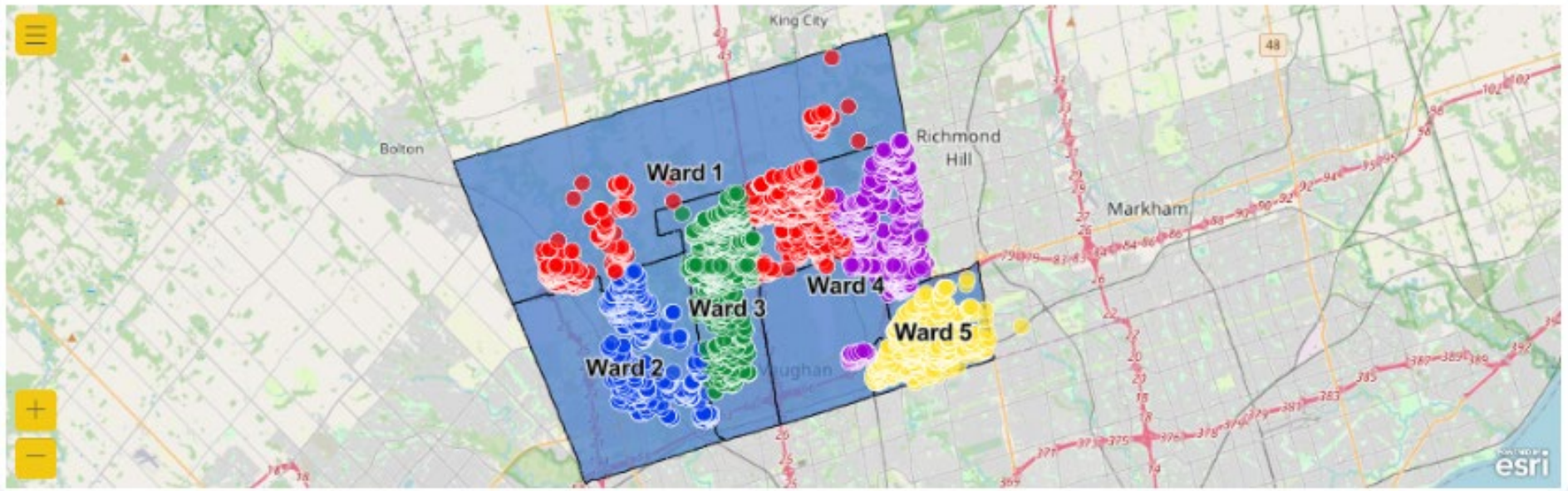
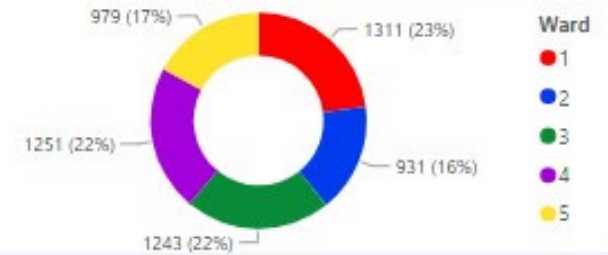


# #SlowDownVaughan



Signs

**5715**



To date, **more than 5,700 signs** have been picked up by Vaughan citizens.



**Q1**



**Q2**



**Q3**



**Q4**

**2026**

Annual MoveSmart Progress Report

Rail Transportation and Safety Plan

Heavy Truck and Truck Routing Plan

**2025**

Annual MoveSmart Progress Report

Network Screening

Low-cost Safety Countermeasures Plan

Traveller Information System

**2024**

Annual MoveSmart Progress Report

Speed Compliance Plan

Cycling Network Expansion

Travel Demand Management Plan

**2023**

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Creation of Community Safety Zones and Safer School Zones

Traffic By-law Consolidation  
Curbside Parking Management

Traffic Data Services

Note: 2023 project timelines are reflective of anticipated commencement date and subject to budget approval process.

# THE MOVE FORWARD

City staff made significant progress within all four MoveSmart programs in 2022. MoveSmart provides Vaughan residents, visitors and business owners with a transportation system that improves safety, mobility, connectivity and efficiency for all forms of travel.

Each of the 14 initiatives taking shape, and the six positioned to launch in 2023, are the result of continuous collaboration with vested stakeholders, equitable and transparent engagement with citizens, the development of new policies and measures, outreach programs with youth, and leveraging evidence-based data and emerging technologies.

As MoveSmart progresses into its third year, programs will be monitored and fine-tuned to balance resources while achieving milestones.

Together, we share the responsibility of road safety and the vision of a more sustainable and healthier transportation network for the city of Vaughan.

**MOVESMART**

MOBILITY MANAGEMENT STRATEGY





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