

## CITY OF VAUGHAN

### **EXTRACT FROM COUNCIL MEETING MINUTES OF MARCH 21, 2023**

Item 3, Report No. 13, of the Committee of the Whole, which was adopted without amendment by the Council of the City of Vaughan on March 21, 2023.

#### **3. MOVESMART MOBILITY MANAGEMENT STRATEGY 2ND ANNUAL PROGRESS REPORT**

The Committee of the Whole (Working Session) recommends:

- 1) That the recommendations contained in the report of the Deputy City Manager, Public Works dated March 1, 2023, be approved;
- 2) That the presentation by staff and Chris Philp, Director, Transportation, CIMA Canada Inc., and C4, presentation material titled “*2023 Annual Report MoveSmart Mobility Management Strategy*” be received; and
- 3) That Communication C2, Memorandum from the Deputy City Manager, Public Works, dated February 24, 2023, be received.

#### **Recommendations**

1. That the MoveSmart 2<sup>nd</sup> Annual Progress Report, as outlined in Attachment 1, be received; and
2. That the City Clerk forward a copy of this report to York Region, York Region’s local Municipalities, York Regional Police, York Region District School Board, York Region Catholic School Board, Metrolinx, and the Ministry of Transportation.

## Committee of the Whole (Working Session) Report

---

**DATE:** Wednesday, March 1, 2023

**WARD(S):** ALL

**TITLE:** MOVESMART MOBILITY MANAGEMENT STRATEGY 2ND ANNUAL  
PROGRESS REPORT

**FROM:**

Zoran Postic, Deputy City Manager, Public Works

**ACTION:** FOR INFORMATION

---

### **Purpose**

To provide a status update on the MoveSmart Mobility Management Strategy (MoveSmart) through a 2nd Annual Progress Report. MoveSmart supports Council's commitment to providing a safer transportation network, encouraging healthy, sustainable and connected communities. The 2<sup>nd</sup> Annual Progress Report highlights advancements within each of the four program areas of MoveSmart over the last year.

### **Report Highlights**

- On March 10, 2021, Council endorsed the five-year MoveSmart Mobility Management Strategy. MoveSmart is comprised of four highly integrated programs designed to encourage a safe network for all modes of transportation, including active and sustainable travel.
- The MoveSmart programs and initiatives facilitate improvements through best practices and policies, operation and design, and supported by data driven and evidence-based decisions.

## **Report Highlights (continued)**

- Fourteen out of twenty-nine initiatives are advancing as planned, with six more initiatives set to launch in 2023. Notable achievements to date include:
  - The implementation of the speed limit policy, inclusive of the Neighbourhood 40km/h Pilot Program within select block locations across all five wards, the launch of the Active School Travel Pilot Program and the installation of new traffic calming measures at select locations all show a trend of improved speed compliance.
  - The commencement of the Neighbourhood Traffic Calming and Speed Management Plan and select Urban and Rural Corridor Traffic Reviews, inclusive of stakeholder and public engagement strategies.
  - A collaborative partnership with the Regional Municipality of York on the Traveller Safety Plan.
  - A comprehensive analysis to commence the operation of an Intelligent Transportation System and Traffic Management Centre.
  - Developing the framework for the implementation of an Automated Speed Enforcement Program and establishment of community safety zone and safer school zone policies and plans.
- Vital to the success of MoveSmart is the continued collaboration and engagement with internal and external partners, as well as our citizens.

## **Recommendations**

1. That the MoveSmart 2<sup>nd</sup> Annual Progress Report, as outlined in Attachment 1, be received; and
2. That the City Clerk forward a copy of this report to York Region, York Region's local Municipalities, York Regional Police, York Region District School Board, York Region Catholic School Board, Metrolinx, and the Ministry of Transportation.

## **Background**

**On March 10, 2021, Council endorsed the MoveSmart Mobility Management Strategy.**

The endorsement of MoveSmart recognizes that traffic management and road safety are both primary concerns for the Citizens of Vaughan. During the foundational year, MoveSmart set the direction and priorities for twenty-nine initiatives designed to effectively manage the road network as Vaughan continues to experience significant growth and expansion, and safety continues to be top of mind for Vaughan's citizens.

MoveSmart consists of four highly integrated programs, road safety, mobility management, sustainable mobility and traffic data management. **For more information on these programs, please refer to the First Annual MoveSmart Mobility Management Strategy Progress Report (links below).**

MoveSmart is designed to adapt as the needs of the transportation network change. The strategy will be updated every five years (in parallel with the Transportation Master Plan) to reflect the growth and availability of innovative technologies and align with the City's new term of Council priorities.

## **Previous Reports/Authority**

MoveSmart Mobility Management Strategy:

<https://www.vaughan.ca/projects/transportation/trafficstrategy/Pages/default.aspx>

Speed Limit Policy:

<https://www.vaughan.ca/services/residential/transportation/speed-limit-policy/Pages/default.aspx>

Vaughan Official Plan:

[https://www.vaughan.ca/projects/policy\\_planning\\_projects/official\\_planning\\_2010/Pages/default.aspx](https://www.vaughan.ca/projects/policy_planning_projects/official_planning_2010/Pages/default.aspx)

Pedestrian and Cycling Master Plan:

[https://www.vaughan.ca/projects/projects\\_and\\_studies/pedestrian\\_master\\_plan/Pages/default.aspx](https://www.vaughan.ca/projects/projects_and_studies/pedestrian_master_plan/Pages/default.aspx)

MoveSmart Mobility Management Strategy Annual Progress Report, Extract from Council Meeting Minutes of March 22, 2022 (Report No. 11, Item 1 of the Committee of the Whole (Working Session)):

<https://pub-vaughan.escribemeetings.com/filestream.ashx?DocumentId=101578>

Speed Limit Reduction Report, Extract from Council Meeting Minutes of March 22, 2022, (Report No. 12, Item 15 of Committee of the Whole):

<https://pub-vaughan.escribemeetings.com/filestream.ashx?DocumentId=101737>

MoveSmart Mobility Management Strategy, Extract from Council Meeting Minutes of March 10, 2021 (Report No. 10, Item 1 of the Committee of the Whole (Working Session)):

[filestream.ashx \(escribemeetings.com\)](filestream.ashx(escribemeetings.com))

Establishing Speed Limits on City Roadways, Extract from Council Meeting Minutes of June 22, 2021 (Report No. 31, Item 1 of the Committee of the Whole (Working Session)):

<https://pub-vaughan.escribemeetings.com/filestream.ashx?DocumentId=78914>

School Crossing Guard Policy, Extract from Council Meeting Minutes of November 17, 2020 (Report No. 53, Item 3 of the Committee of the Whole (Working Session)):  
<filestream.ashx> ([escribemeetings.com](https://pub-vaughan.escribemeetings.com))

## **Analysis and Options**

**MoveSmart consists of twenty-nine initiatives organized into four programs.**

The initiatives within MoveSmart are highly integrated in that they support or enhance other initiatives. For example, the Data Management System is the core of the MoveSmart strategy. This system facilitates the analysis and reporting of traffic related data to allow evidence-based decisions on the implementation of road safety improvements and supports the development of new policies.

**Data collected at Neighbourhood Area 40km/h pilot, Active School Travel pilot and other select locations show trends towards greater speed compliance.**

A combination of traffic calming measures, including radar message boards, new signage, pavement markings and in-road flexible posts implemented at the piloted Neighbourhood 40km/h blocks, Active School Travel and other select locations are resulting in a trend towards greater driver compliance to the posted speed. Monitoring of these locations will continue throughout 2023. York Regional Police data and a safety analysis using the Data Management System, will continue to identify locations where safety can be further improved. The City is expanding on proactive assessments of the effectiveness of new policies and changes on the roadway.

Similarly, a network of stakeholders is needed to optimize the benefits of MoveSmart. This past year, the City has continued to strengthen relationships with key stakeholders to establish a coordinated effort with all partners who have a vested interest in the City's transportation network. Communication and public awareness have been instrumental in ensuring citizens are provided with timely information on the progression of initiatives and changes taking place throughout the road network.

A summary of the key MoveSmart initiatives in 2022 are listed below for each of the four programs (inclusive of Communications and Public Awareness). **Further details for each initiative can be found in the attached MoveSmart 2nd Annual Progress Report.**

### **Road Safety**

- **Traveller Safety Plan** - a strategy to reduce fatal collisions and serious injuries
- **Neighbourhood Area Traffic Calming Plan and Speed Management Strategy** - establish a set of revised guidelines for implementing traffic calming measures and speed management tools

- **In-Service Road Safety and Corridor Operational Reviews** - examine the current and future transportation infrastructure needs for six corridors to advance road safety
- **Automated Speed Enforcement (ASE) Program** - a plan for implementing ASE at key locations throughout the City
- **Implementation of all three phases of the Speed Limit Policy** - reducing speed limits in areas of focus and piloting five neighbourhood block areas

### **Mobility**

- **Intelligent Transportation System Network** - a plan to leverage the latest technologies to improve safety and efficiency throughout the road network
- **Pavement Markings and Signs** - implemented over 240 flexi-posts within select locations across all five wards to improve mobility and safety
- **LED Streetlights** - completed LED retrofit program and developed streetlighting monitoring plan, leveraging smart adaptive features

### **Sustainable Mobility**

- **Active School Travel (AST) Pilot Program** - a partnership with eight schools to engage school communities, school administrations and particularly the youth about road safety and active and sustainable travel choices
- **School Crossing Guard Program Exposure Index Matrix** - applies both data and a priority risk ranking system to validate the implementation, reallocation or removal of a School Crossing Guard
- **Community Safety Zones and Safer School Zones** - evaluation and identification of communities and schools across Vaughan whereby road safety, traffic operations and speed enforcement measures can be recommended

### **Data Management**

- **Traffic Engineering Software (TES)** - access to accurate traffic data, analysis and reports
- **Partnerships with University Students** – supporting with data collection, program plans, and developing mapping tools and performance measures to assess progress made in all initiatives within MoveSmart

### **Communications and Public Awareness**

- **Launch of the #slowdownvaughan Lawn Sign Campaign** - signs have been distributed to city facilities and at city led events with citizen uptake at approximately 5715 signs
- **Road Safety Handbook** – a quick reference guide that can be offered to citizens outlining the various initiatives and programs within MoveSmart

Whether it be through the use of a road safety systems approach, emerging technology, traffic engineering measures, policy design, data management or education, all programs are aligned and contingent on making progressive changes throughout the

transportation network that will facilitate a safer and improved mobility experience for all road users.

### **Financial Impact**

**There are no financial impacts associated with this report.**

Cost estimates for the various initiatives under MoveSmart continue to be further refined as projects evolve and are implemented. Additional funding will be requested through the City's annual budget process. Staff will continue to explore opportunities and other partnerships to help support the strategy's implementation over the next few years.

### **Broader Regional Impacts/Considerations.**

**Improving the safety and efficiency by which our citizens experience the transportation network is the overarching goal of MoveSmart.**

The integration of road safety and mobility management systems, the coordination of services, policy development and data sharing across local municipalities and regional government will serve to create uniformity and consistency in decision making and assist in further enhancing a road network that is multi-functional and integrated. It will ensure coordination in programming development and outreach initiatives while demonstrating equitable transparent road safety measures are being utilized as required.

Staff continue their partnerships with the Regional Municipality of York by sharing data through a central traffic data management system and are also in a collaborative partnership in developing the Road Safety Strategic Plan. York Regional Police, York Region School Boards, York Region Public Health, and other City Departments continue to play a vital role in the development and implementation of initiatives within all four program areas of MoveSmart.

### **Conclusion**

**At the end of the second year, MoveSmart has made considerable progress on fourteen key initiatives and has met target deliverables.**

Six new initiatives are set to launch in 2023, many of which will support internal partnerships. Key initiatives include the development of Curbside Parking Management, Construction Management and Work Zone Safety Plans, Traffic By-Law Consolidation, and the Pedestrian Infrastructure and Enhancement Plan. Traffic Data will continue to evolve as the latest technologies will be leveraged and community best practices considered. Data sharing and analytics will be instrumental in making evidence-based decisions and establishing policies which will guide the improvements throughout Vaughan's neighbourhoods and transportation network. This proactive approach will serve to enhance the daily experience of our citizens as they move throughout the City.

**A vital factor to the success of MoveSmart’s second year is the collaboration between internal and external partners and citizens.**

Citizens will continue to have opportunities to shape the strategy and provide insight through their daily experiences navigating the road network. Many of the initiatives within MoveSmart are currently in the public and stakeholder engagement stages. Ensuring an equitable and transparent approach in developing new policies, utilizing suitable measures in the appropriate areas and leveraging the latest trends and technologies will reinforce the benefits of the strategy. The achievements realized in the second year of MoveSmart are a direct result of steadfast collaboration with vested internal and external road safety partners. Championing a vision for a safer and more sustainable transportation network is only achievable when all the partners share the same values and objectives.

Staff recommend that Committee receive the 2nd Annual MoveSmart Mobility Management report and presentation outlining the achievements to date as information.

**For more information**, please contact: Peter Pilateris, Director Transportation and Fleet Management Services ext. 6141.

**Attachment**

1. 2023 MoveSmart 2<sup>nd</sup> Annual Progress Report, March 1, 2023 (to be provided prior to the meeting).

**Prepared by**

Margie Chung, Manager Traffic Engineering ext. 6173  
Brenda Bisceglia, Manager MoveSmart ext. 6144

**Approved by**



Zoran Postic, Deputy City Manager,  
Public Works

**Reviewed by**



Nick Spensieri, City Manager



# 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!

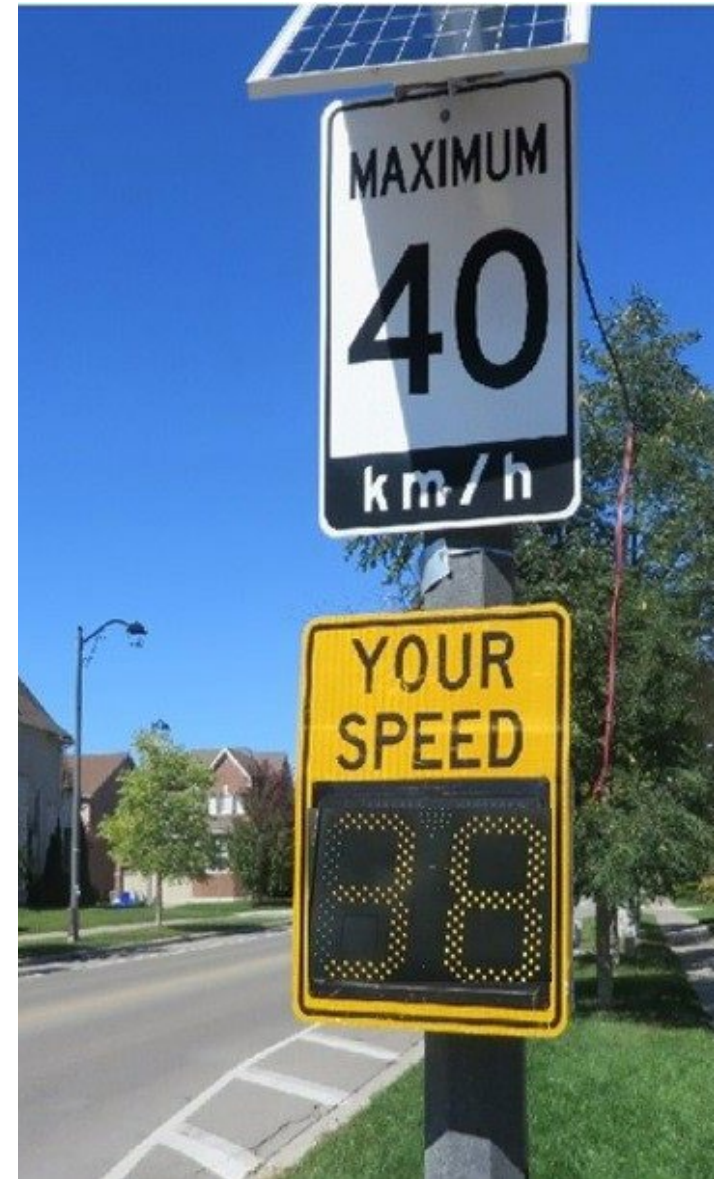
I want to recognize, congratulate and thank every member of the Vaughan team who has contributed to the achievements made to date. It goes without saying that MoveSmart is a team effort.

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

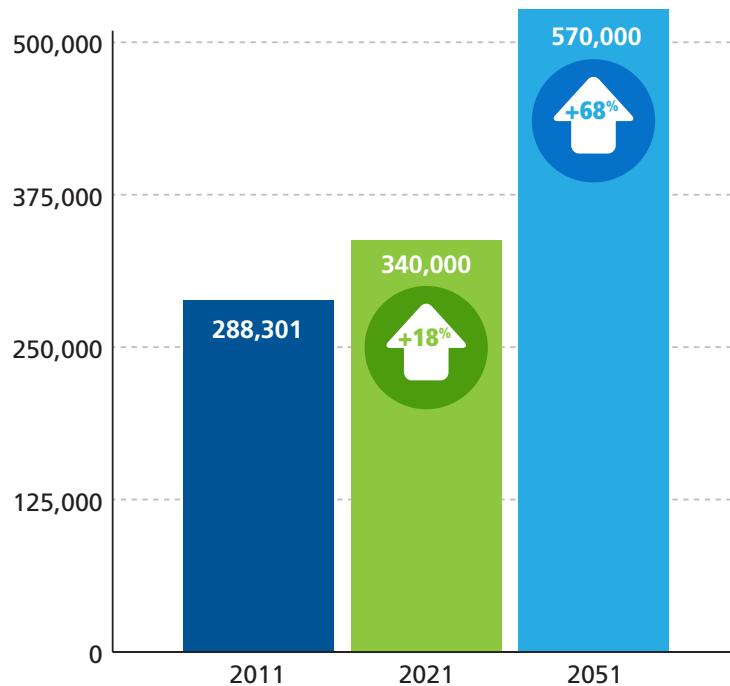
With thousands of businesses and more than 335,000 residents, the city of Vaughan is one of Ontario's fastest-growing municipalities.

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.

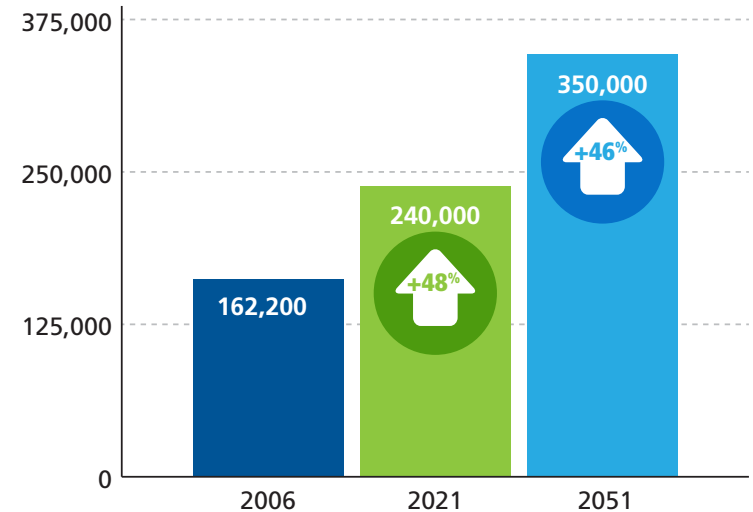
In response, the City initiated the MoveSmart Mobility Management Strategy (MoveSmart) in 2021. The strategy sets the direction and priorities for the next five years (2022-2026) while ensuring an efficient, reliable, safe and sustainable transportation system for all citizens and business owners.



## 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

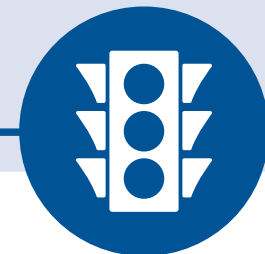


## Mobility Management Program

- ✓ 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



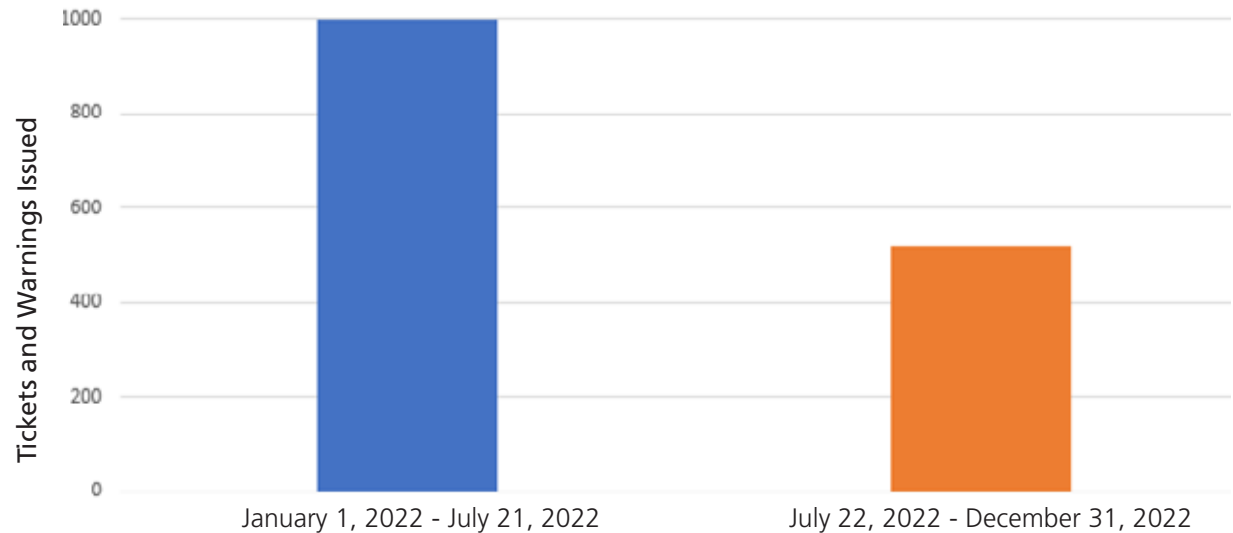
## ACCOMPLISHMENTS

- ✓ 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:

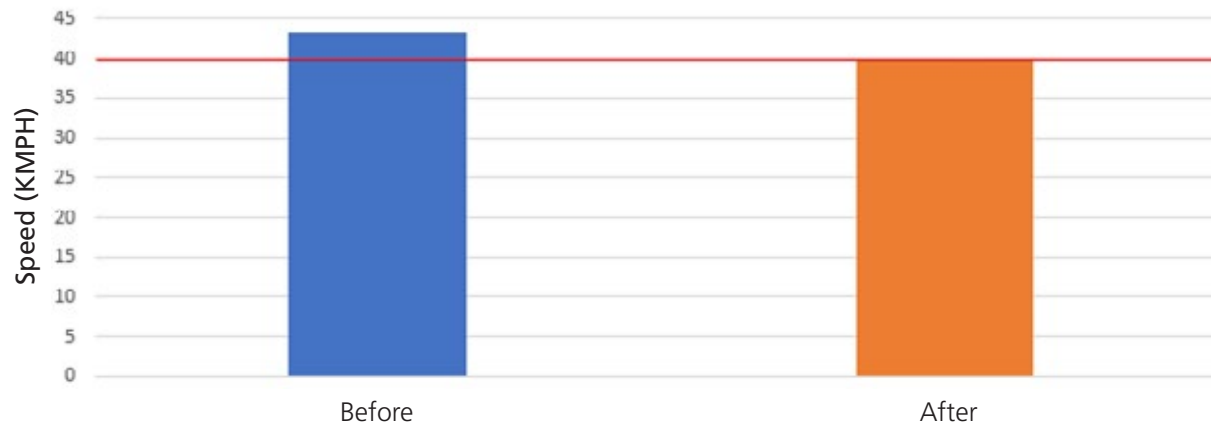
- applied **more than 65 “slow down” (or similar) stencils** to roadways
- installed **more than 240 in-road flexi posts**
- upgraded **more than 25,000 streetlights** to LED
- re-painted **more than 600,000 metres of lines**
- maintained **78 traffic signals** and **15 signalized pedestrian crossings**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



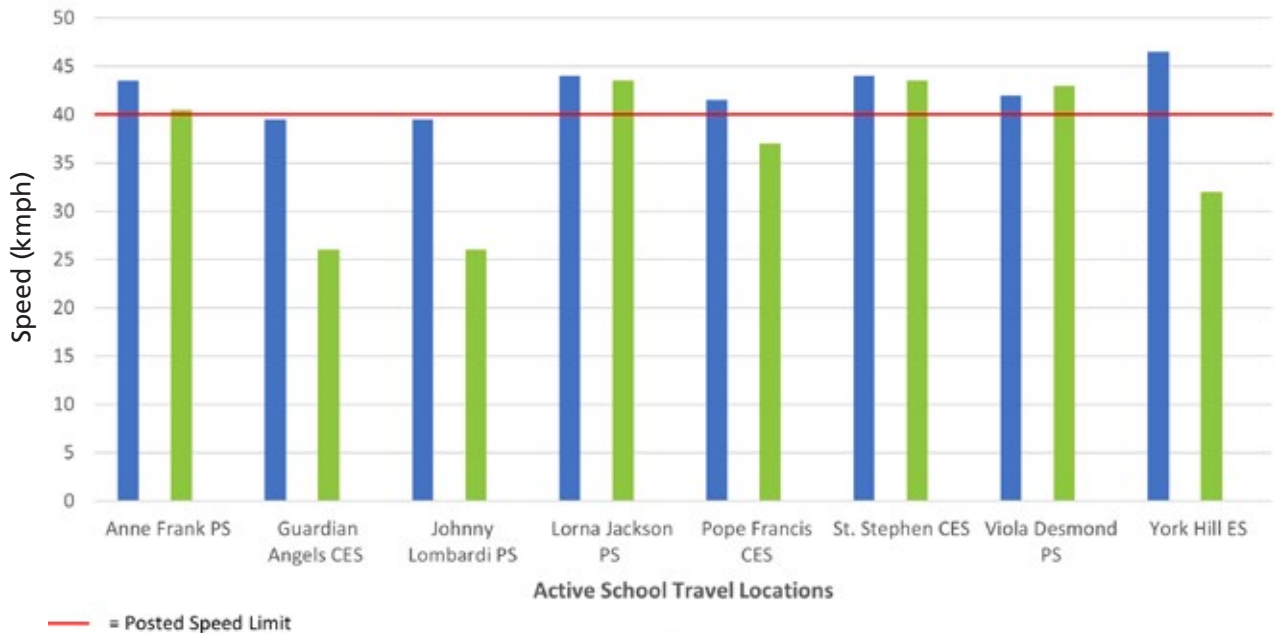
# SUSTAINABLE MOBILITY PROGRAM



## 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



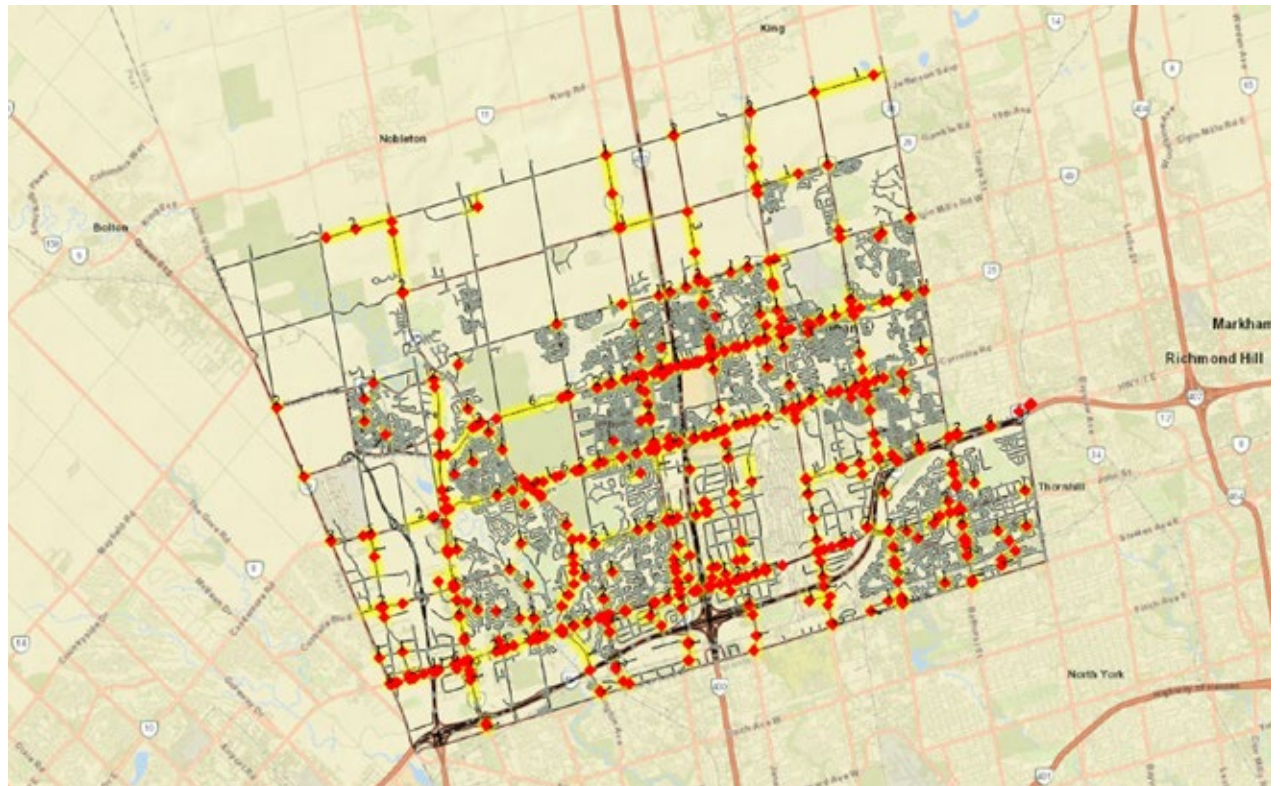


# TRAFFIC DATA MANAGEMENT PROGRAM

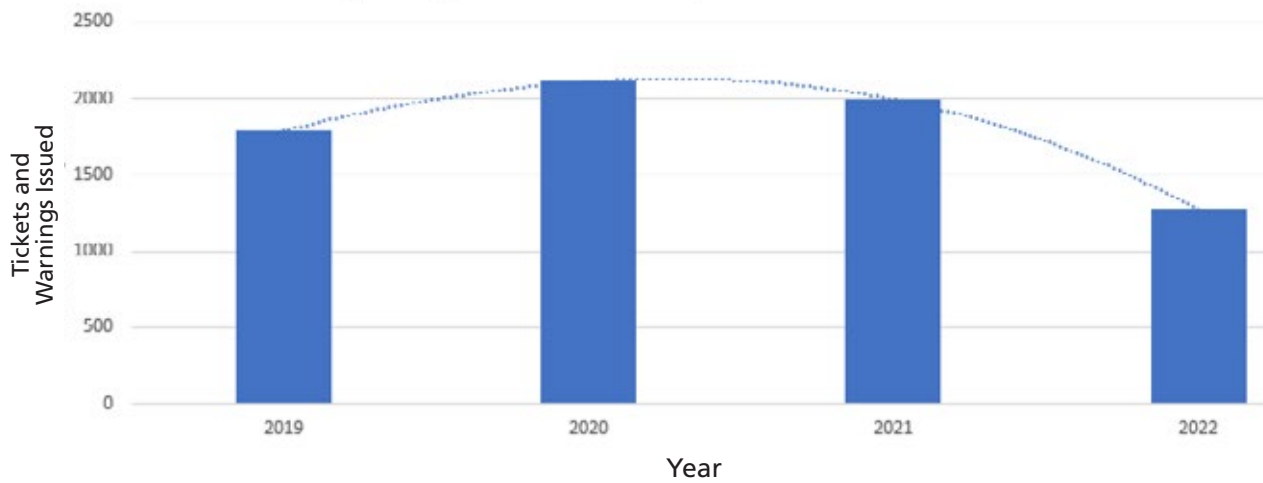


## ACCOMPLISHMENTS

- ✓ 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



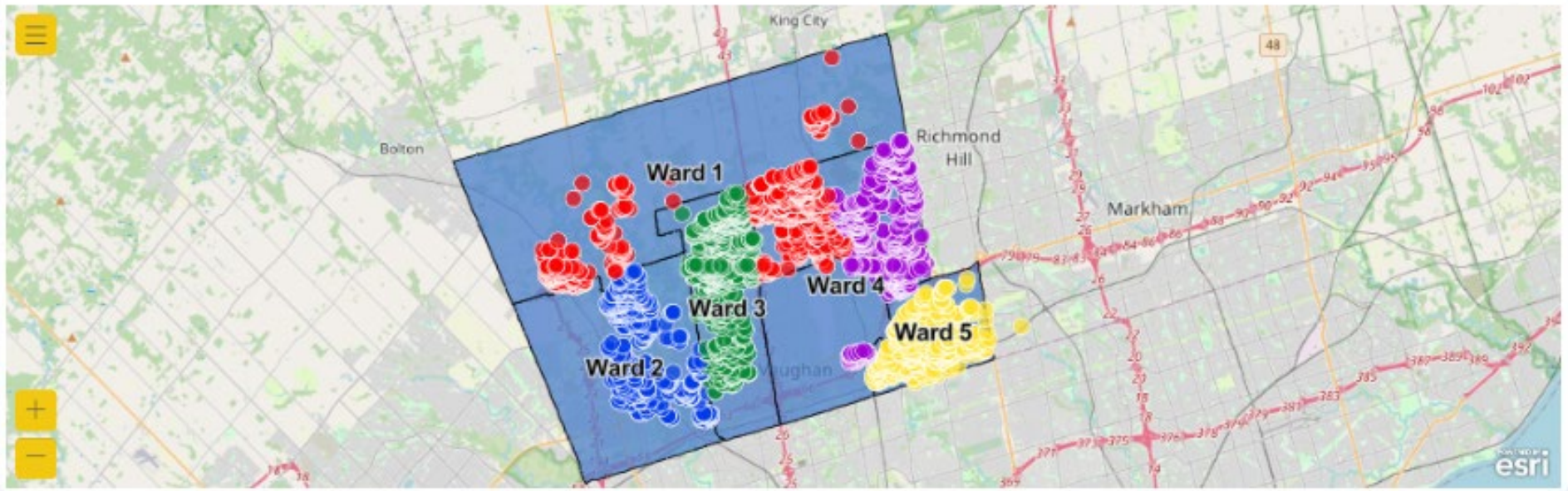
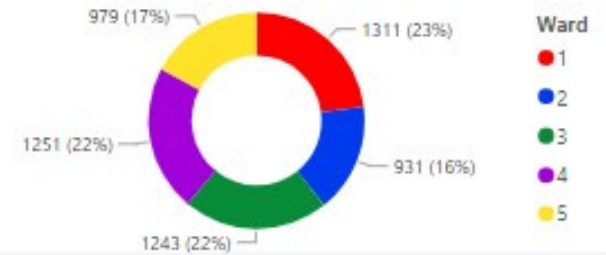


# #SlowDownVaughan



Signs

**5715**



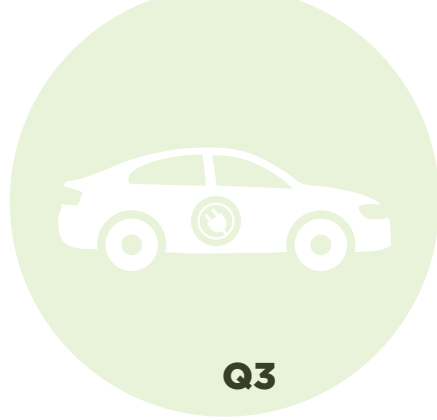
To date, **more than 5,700 signs** have been picked up by Vaughan citizens.



**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**

Annual MoveSmart Progress Report

Construction Management and Work Zone Safety Plan

Pedestrian Infrastructure Enhancement Plan  
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



**Transportation and  
Fleet Management Services**

905-832-2281

service@vaughan.ca

Joint Operations Centre

2800 Rutherford Rd.

Vaughan, ON L4K 2N9

[vaughan.ca/MoveSmart](http://vaughan.ca/MoveSmart)

**MOVESMART**  
MOBILITY MANAGEMENT STRATEGY





# 2023 Annual Report

# MOVESMART

## MOBILITY MANAGEMENT STRATEGY



# MOVESMART

## MOBILITY MANAGEMENT STRATEGY



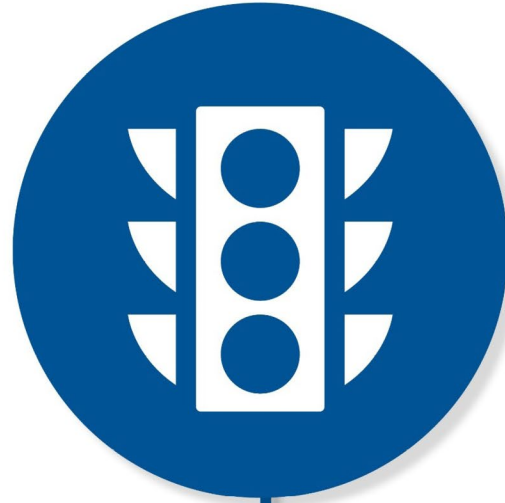
On March 10, 2021, Vaughan Council endorsed MoveSmart, reinforcing the City's commitment to Transportation and Mobility - a strategic priority in the Term of Council Service Excellence Strategic Plan. With a focus on improving the municipal road network, enhancing road safety and supporting more cycling 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.





**ROAD SAFETY PROGRAM**

Increase road safety and raise public awareness



**MOBILITY MANAGEMENT PROGRAM**

Improve efficiency through innovation and technology



**SUSTAINABLE MOBILITY PROGRAM**

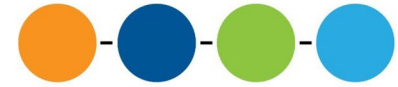
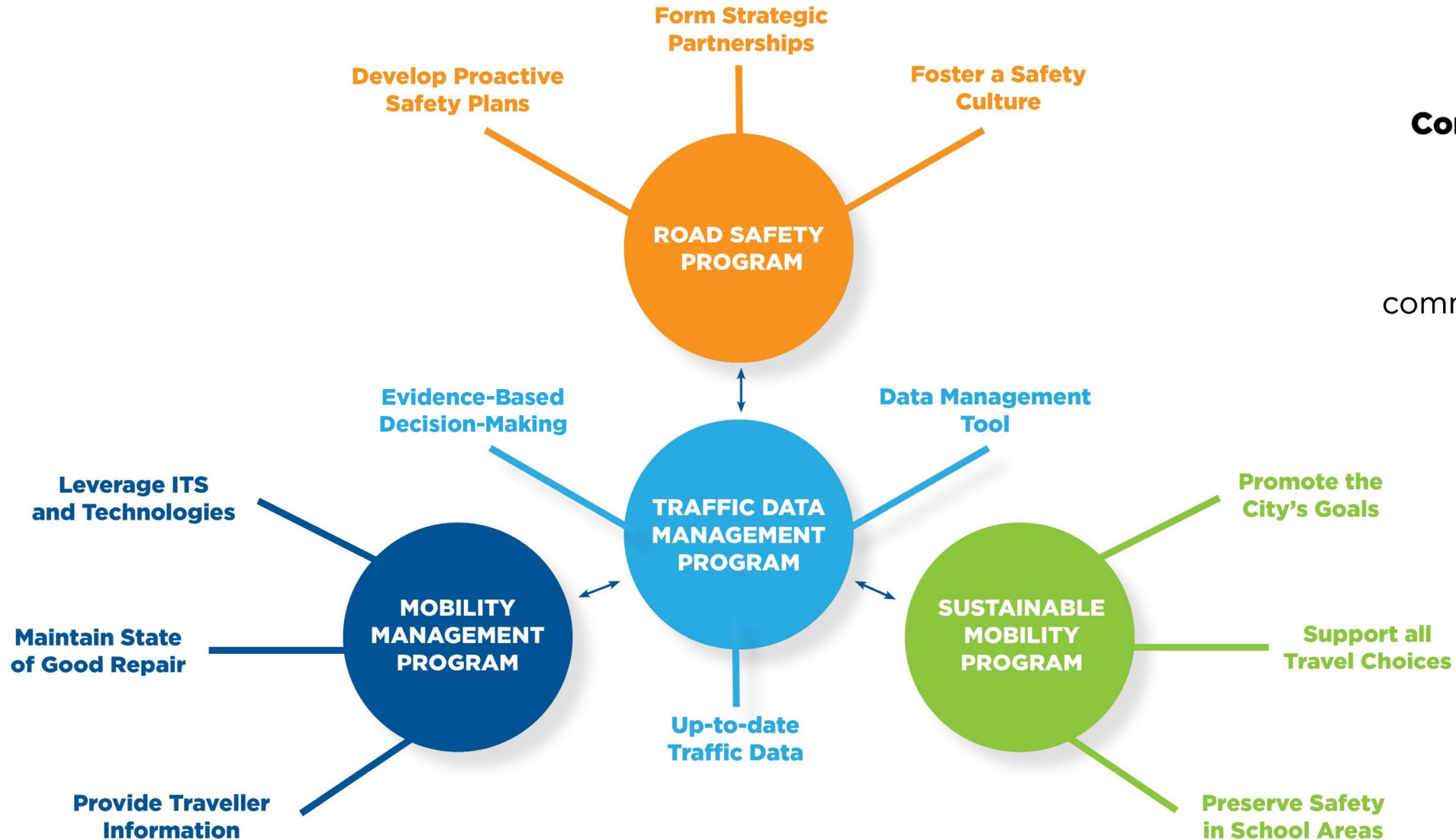
Support active and sustainable transportation



**TRAFFIC DATA MANAGEMENT PROGRAM**

Assure accuracy and availability of traffic data

# MoveSmart Integrated Programs



## Communications and Public Awareness Initiative

Ongoing awareness of tangible benefits through communication and education



### 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

# MOVESMART

## Mobility Management Strategy



# Road Safety Program

Increase road safety and raise public awareness



## 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



## Road Safety Strategic Plan

Foster partnerships and a data-driven approach for improving safety



## Automated Speed Enforcement Plan

Use technology for enforcement in school zones and other community areas

## ACCOMPLISHMENTS

- ✓ Pilot 40 km/hr neighbourhoods
- ✓ Neighbourhood Traffic Calming Plan
- ✓ Corridor Reviews
- ✓ Traveller Safety Plan (York Region)
- ✓ Automated Speed Enforcement (established internal working group, stakeholder consultations)



# Automated Speed Enforcement Process



# Automated Speed Enforcement Stakeholders



- By-law and Compliance, Licensing and Permit Services
- Corporate and Strategic Communications
- Financial Services
- Legal Services
- Office of the Chief Information Officer
- Procurement Services
- Office of the City Clerk
  - Access and Privacy
- Enterprise Information Management Services
  - Insurance And Risk Management
- Transportation and Fleet Management Services

- Provincial government
  - Ontario Ministry of Transportation
  - Ministry of the Attorney General
- City of Toronto – Joint Processing Centre (camera data and image processing)
- Current AMPS vendor (parking tickets)



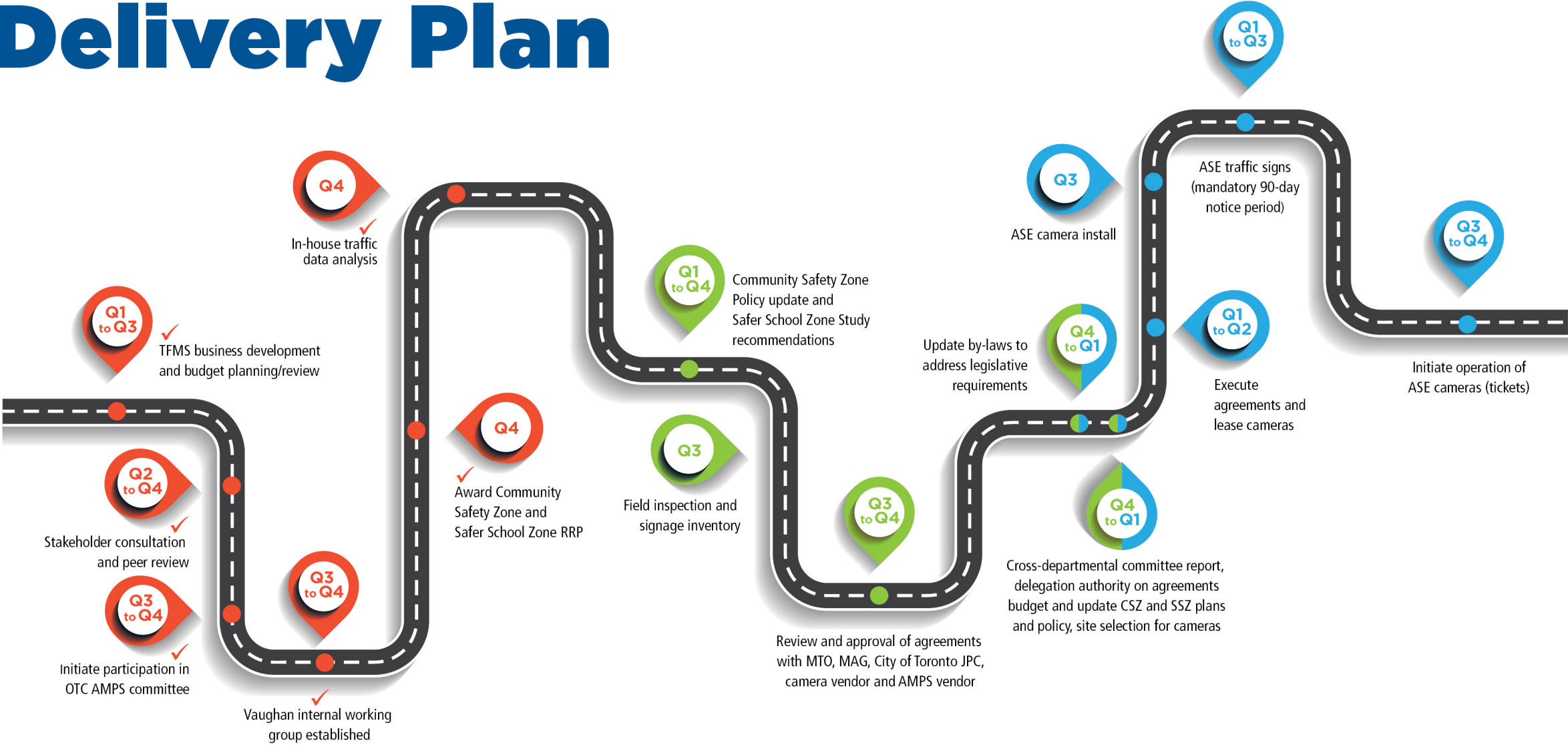
- Speed camera vendor



*Note: the City of Vaughan is required to enter into separate agreements with each of the above-noted stakeholders.*



# Automated Speed Enforcement Delivery Plan





# Road Safety Program

Increase road safety and raise public awareness



## Construction Management and Work Zone Safety Plan

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



## WHAT'S NEXT

- Neighbourhood Traffic Calming Plan pilot
- Traffic operational reviews
- York Region's Traveller Safety Plan
- Identify Automated Speed Enforcement areas through the Community Safety Zones Plan and Safer School Zones Plan
- Launch the Construction Management and Work Zone Safety Plan

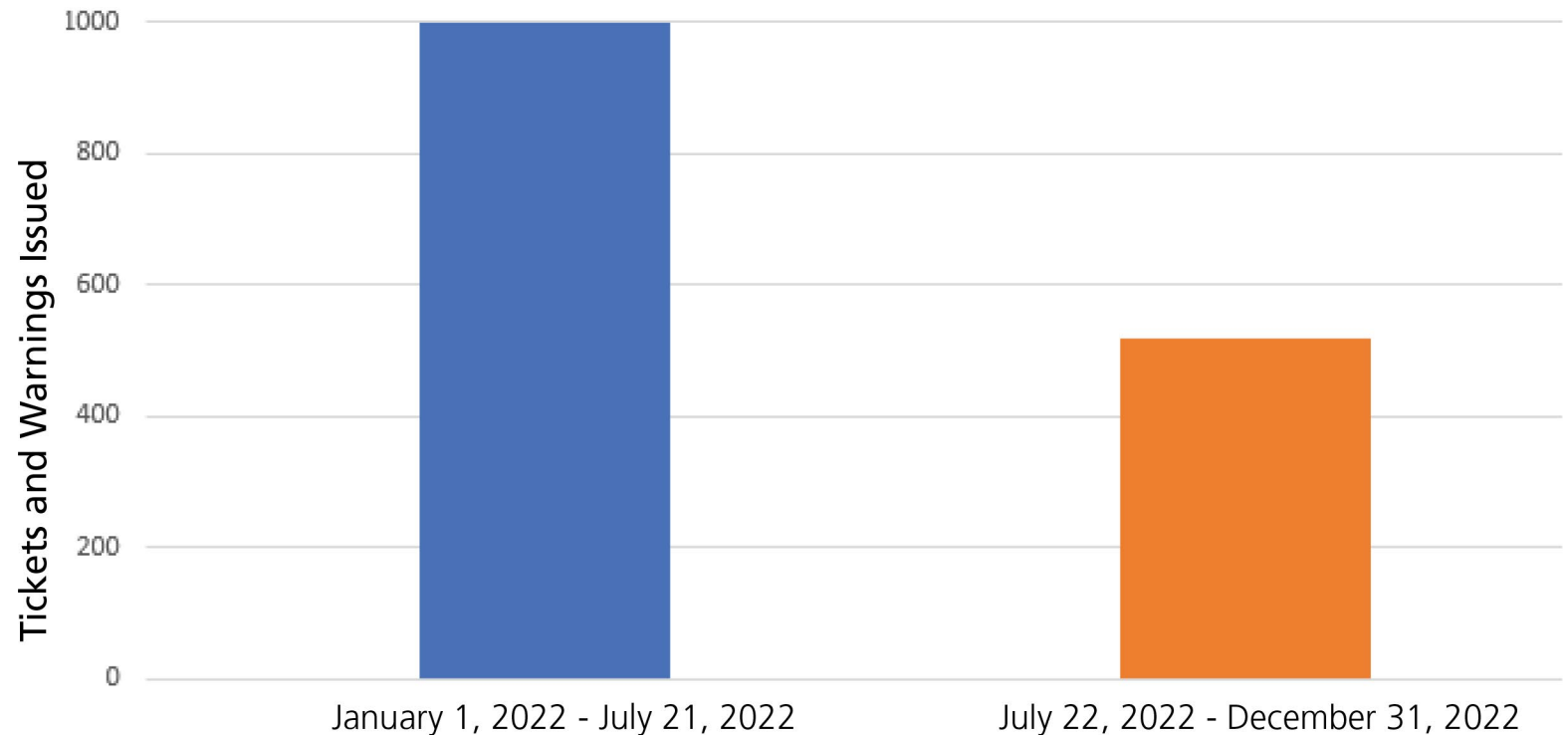


# Road Safety Program

Increase road safety and raise public awareness



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 40 kilometre per hour block pilot locations.



# Mobility Management Program

Improve efficiency through innovation and technology



## Traffic Signal Control Systems and Upgrades

Establish a traffic signal control system and upgraded field equipment



## Pavement Markings and Signs

Replace and optimize markings and signs



## Update Streetlights

Continue LED retrofit with smart adaptive features



## Intelligent Transportation System (ITS) Strategy and Plan

Use technology for enforcement in school zones and other community areas

## ACCOMPLISHMENTS

- ✓ Installed **more than 65 special stencil pavement markings**
- ✓ Installed **more than 240 flexi posts**
- ✓ **Upgraded 25 intersections** with LED traffic signals and reflective backboards, pedestrian countdown timers
- ✓ **Comprehensive analysis completed** to develop an Intelligent Transportation System, leveraging latest technology





# Mobility Management Program

Improve efficiency through innovation and technology



## Curbside Parking Management

Establish parking policies and procedures throughout the City



## Traffic By-Law Consolidation

Consolidate the City's road-related by-laws



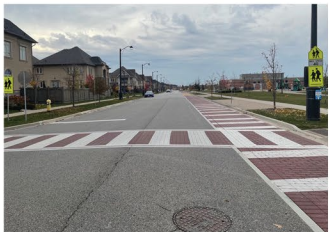
## WHAT'S NEXT

- Procure an advanced traffic signal control system
- Pilot an additional 17 upgraded traffic signals on York Region's Centracs system
- Retrofit an additional 25 signalized intersections with LED traffic signals, reflective backboards and countdown timers
- Complete streetlight upgrades
- Finalize in-road flexible post guidelines and identify new locations for implementation
- Work with By-law and Compliance, Licensing and Permit Services on Curbside Parking Management and Traffic By-law Consolidation

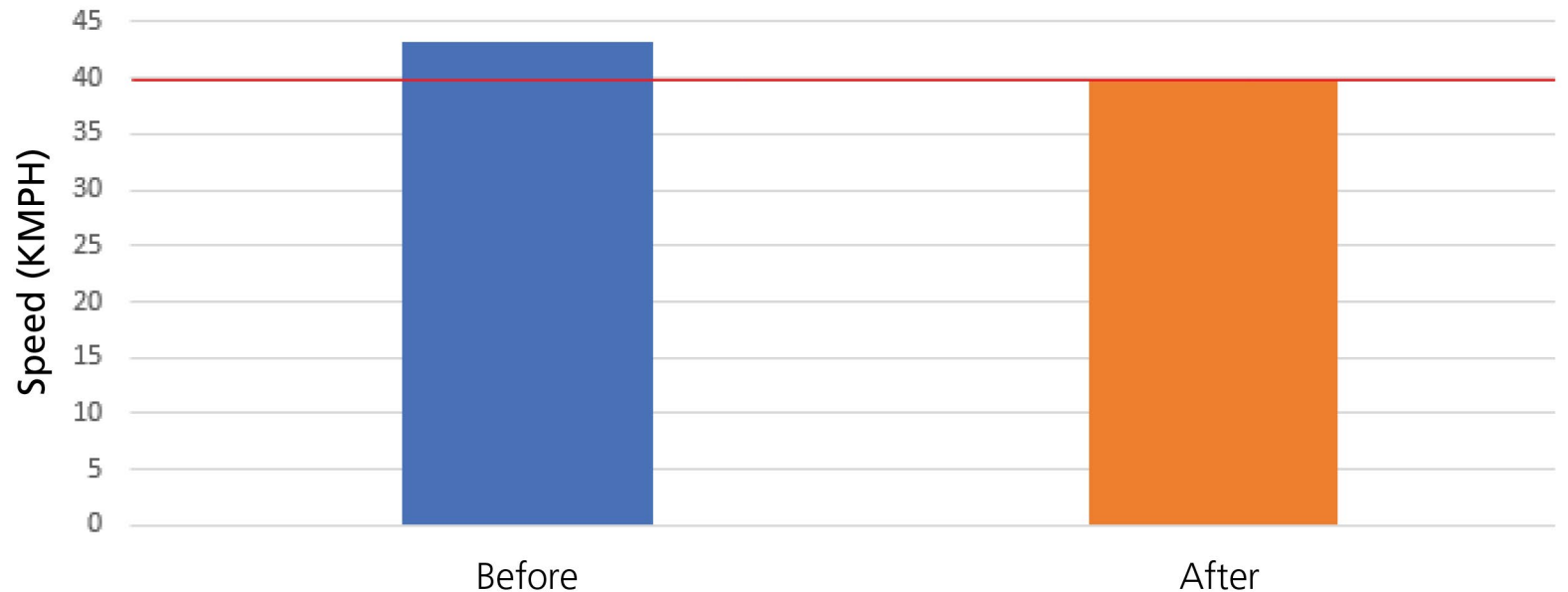


# Mobility Management Program

Improve efficiency through innovation and technology



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).



# Traffic Data Management Program

Assure accuracy and availability of traffic data



## Traffic Data Needs Assessment

Identify traffic data requirements to support the MoveSmart Strategy

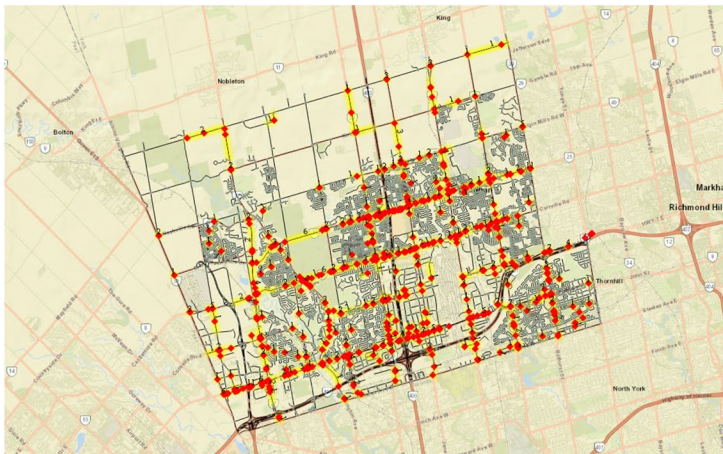


## Traffic Data Management System

Procure and implement a traffic data management system

## ACCOMPLISHMENTS

- ✓ Continue to identify traffic data needs
- ✓ Data from 2016-2021 entered in Traffic Data Management System
- ✓ Leverage new software and analytics





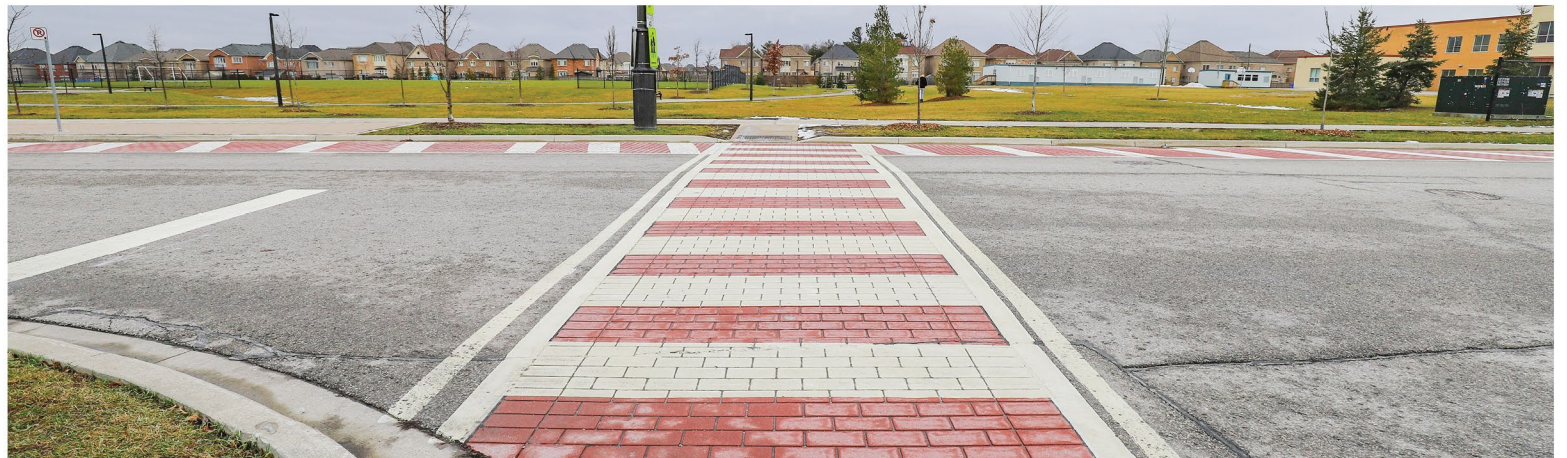
# Traffic Data Management Program

Assure accuracy and availability of traffic data



## WHAT'S NEXT

- Enhance traffic data collection programs needed to support MoveSmart and other City services
- Partnerships with academic programs





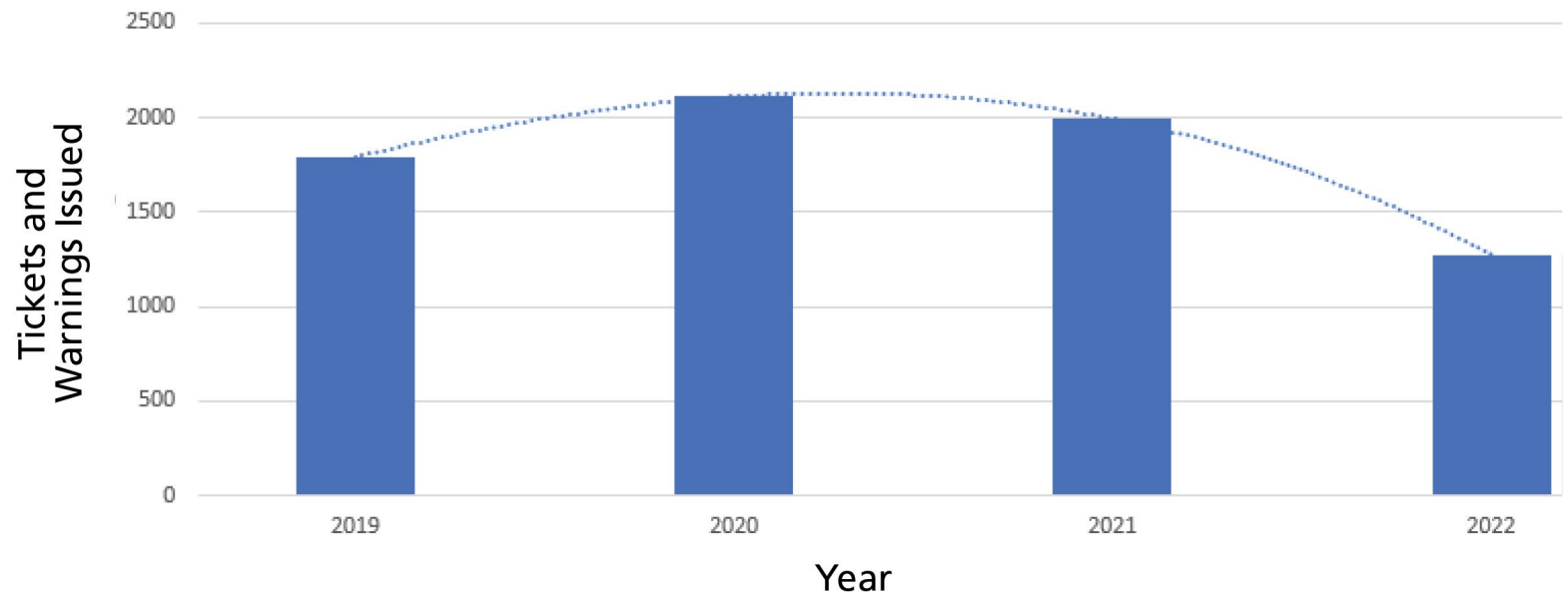


# Traffic Data Management Program

Assure accuracy and availability of traffic data



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 40 kilometre per hour neighbourhood pilot block locations).



# Sustainable Mobility Program

Support active and sustainable transportation



## 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

## ACCOMPLISHMENTS

- ✓ Implemented the Active School Travel pilot program in collaboration with local partners
- ✓ Created a road safety handbook
- ✓ Reported to Council on the School Crossing Guard Program Exposure Index Matrix
- ✓ Launched the Safer School Zones Plan and Community Safety Zones Plan





# Sustainable Mobility Program

Support active and sustainable transportation



## 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

## WHAT'S NEXT

- Develop framework for the Safer School Zones Plan and Community Safety Zones Plan
- Develop guidelines to create and operate Community Safety Zones
- Continue to engage youth through Active School Travel
- Pedestrian Infrastructure Enhancement Plan



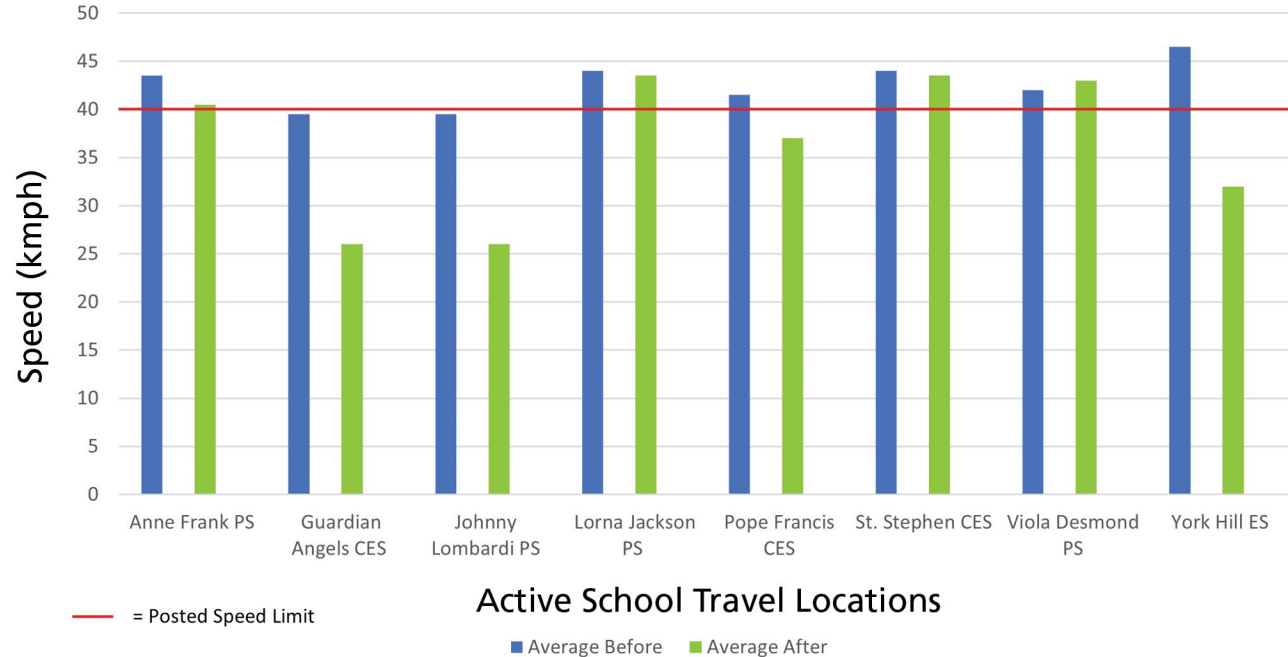


# Sustainable Mobility Program

Support active and sustainable transportation



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

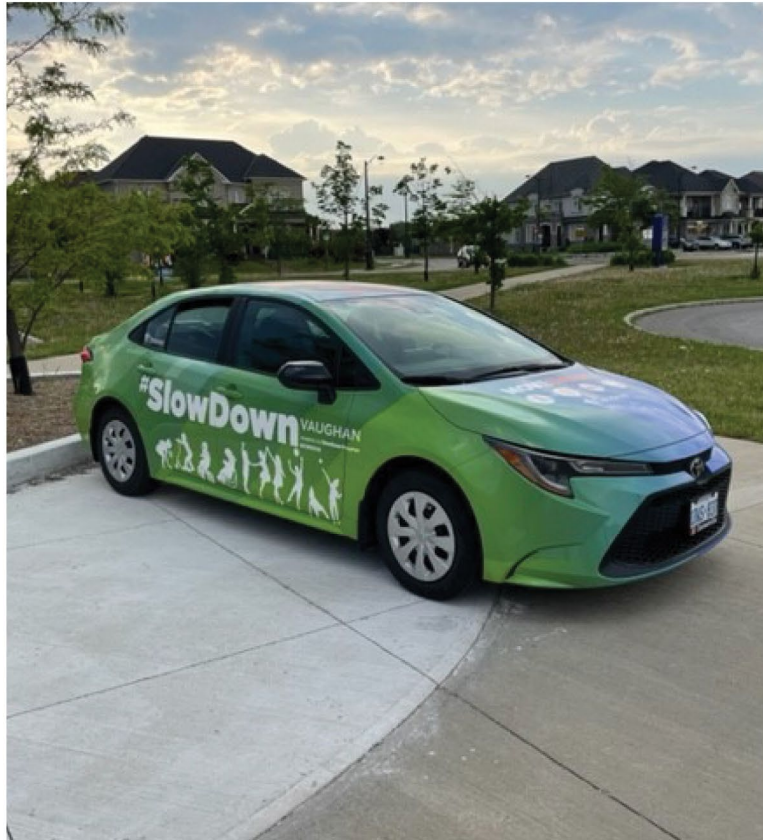


Recent studies near schools with traffic calming measures show **a trend in reduced vehicle speeds**. The City intends to continue these studies to better understand the effects of combining different traffic calming measures and how they influence road safety.

# Road safety is a shared responsibility.

## SUPPORTS:

- ✓ Active School Travel and road safety initiatives in schools
- ✓ School Crossing Guard Program
- ✓ Safer School Zone Plan and Community Safety Zones Plan
- ✓ Automated Speed Enforcement
- ✓ Neighbourhood Traffic Calming Plan
- ✓ Speed Limit Policy
- ✓ Road Safety Strategic Plan



MORE THAN  
**5,700**  
#SlowDownVaughan  
signs across the city

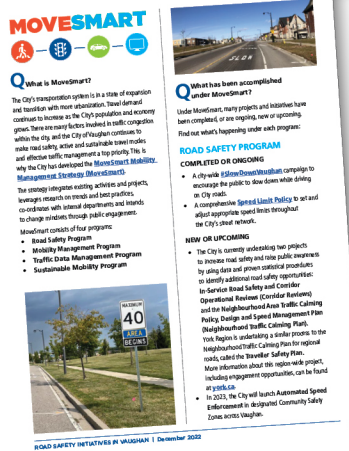
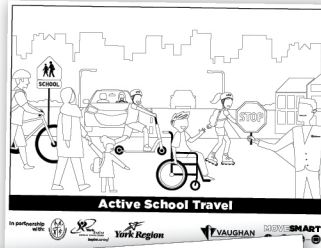


# Communications and Public Awareness Initiatives

Ongoing awareness of tangible benefits through communication and education

Corporate and Strategic Communications supports MoveSmart 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**



# Communications and Public Awareness Initiatives

Ongoing awareness of tangible benefits through communication and education

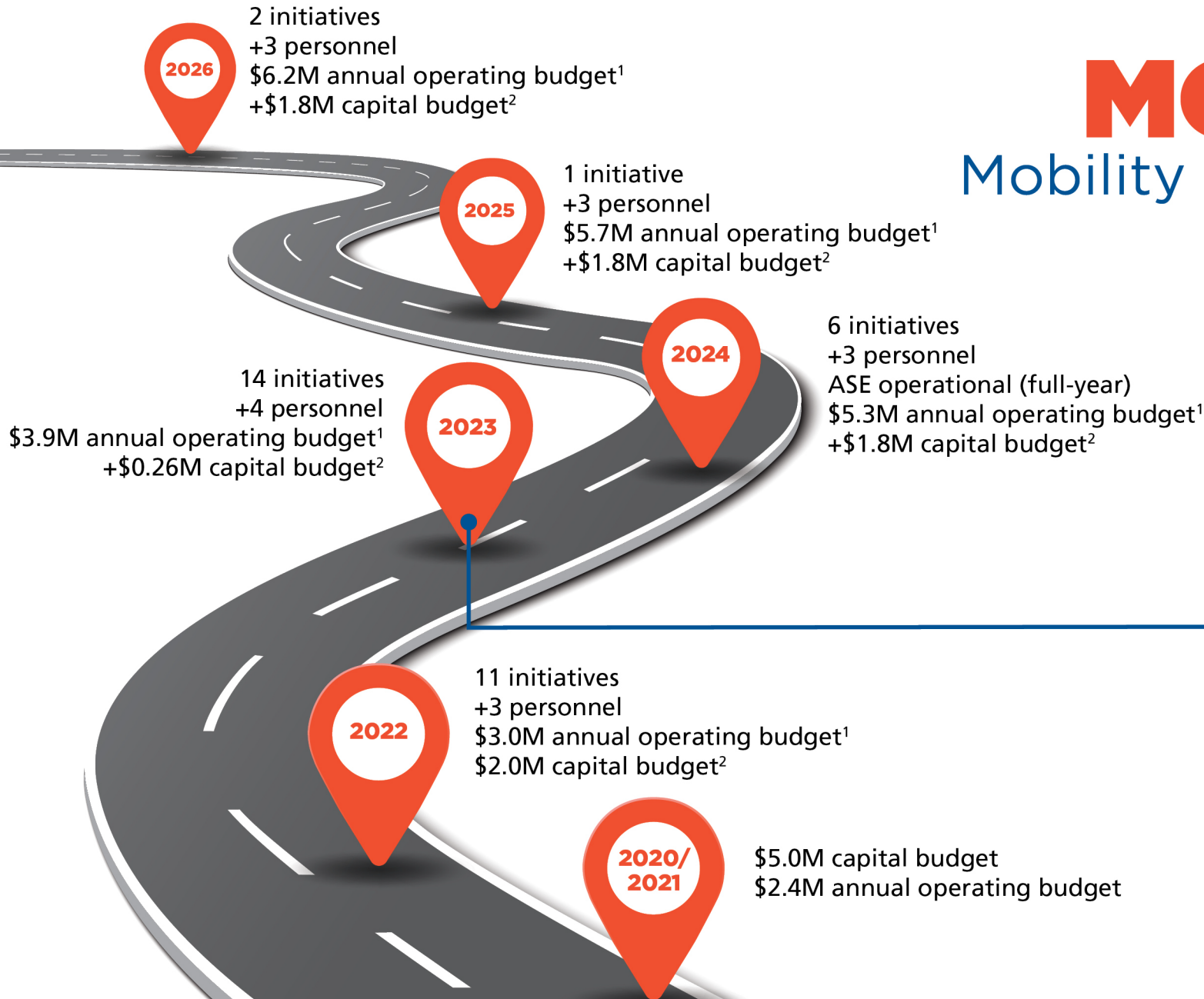


- **DIGITAL SIGNS:** shared throughout our city-wide network and garnering **more than 63,000 daily impressions** or **more than 23 million impressions annually**
- **FEATURES IN CITY HALL CONNECTS NEWSLETTER:** distributed to all residences and businesses across the city (nearly **115,000 mailboxes**)
- **MOBILE SIGNS:** numerous signs across the city, strategically placed in each ward



# MOVESMART

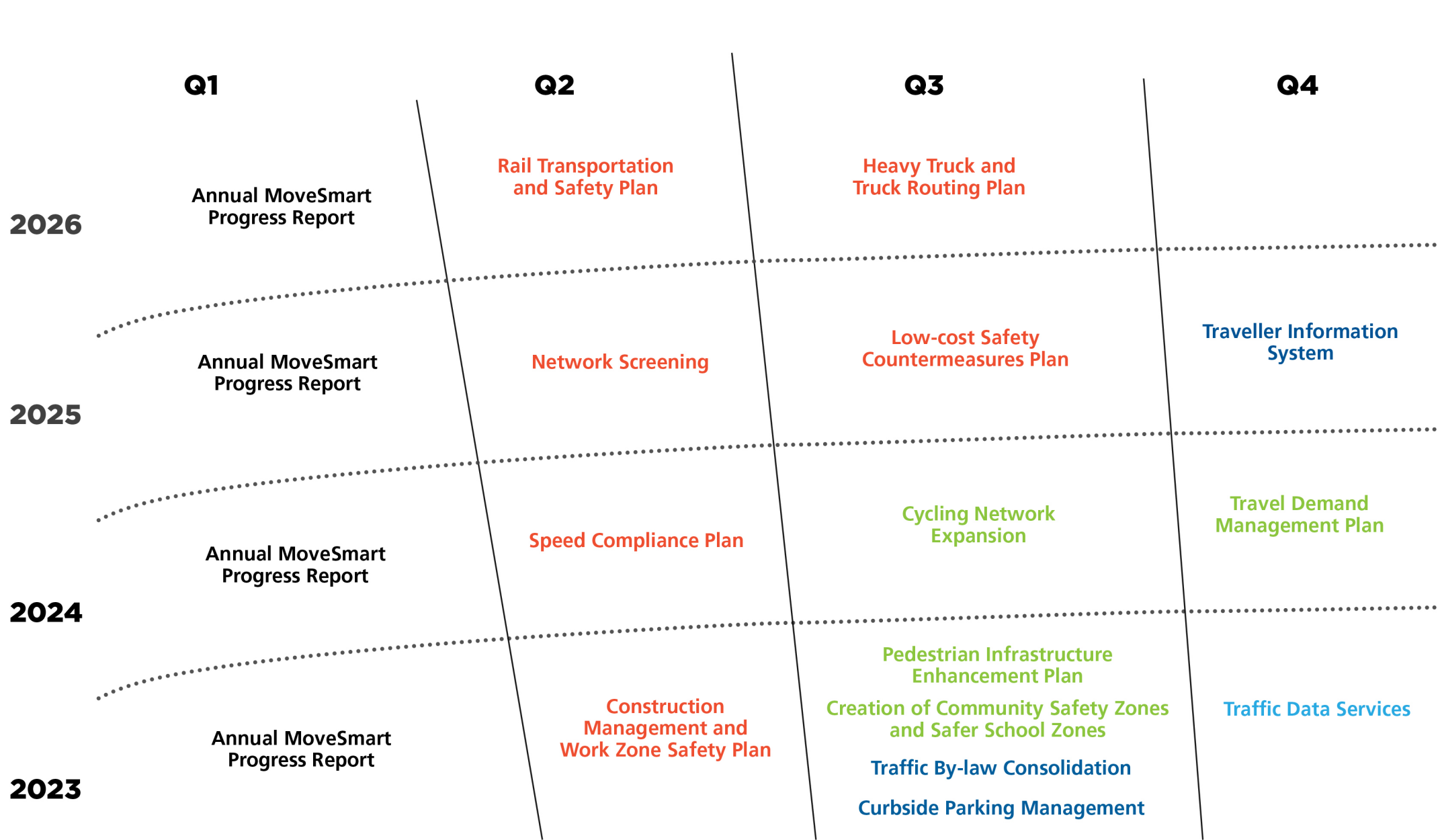
## Mobility Management Strategy



## Timelines and Resources

<sup>1</sup> Figure represents total gross operating expenditures  
<sup>2</sup> Figure represents new capital budget requests or top-ups





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

# Thank you

**MOVESMART**

MOBILITY MANAGEMENT STRATEGY

