



Executive Summary

MOVESMART

Mobility Management Strategy



THE NEED FOR A MOBILITY MANAGEMENT STRATEGY

The City of Vaughan continues to see substantial growth. By the year 2031, the population is projected to increase by 36 per cent from that of 2016, while jobs are expected to grow by 18 per cent in the same period. This growth is a continuation of the trend experienced leading up to 2016 and reflects a vibrant economy and a prosperous community.

With such high population and employment growth, the number of daily trips made by Vaughan citizens and business owners, and external trips made in and out of Vaughan, is expected to continue to increase over and above the rapid increases experienced in the last 25 years. This expansion creates many operational challenges on the City’s roads, including increasing congestion and potentially more conflicts between vehicles, cyclists and pedestrians. Despite these challenges, *high levels of service are expected from Vaughan’s citizens.*

In response to this expectation, the City has developed a Mobility Management Strategy. This Strategy was extensively guided from input received from the public through a 2019 outreach program. The key objectives of the engagement plan were to inform and engage the Vaughan community about the Strategy, and to gather input on travel and road safety priorities and values. Over 1,700 people were engaged in the outreach program providing the City with a wealth of information on the transportation priorities for the public.

The results of the outreach program were combined with a reflection of existing traffic operations services and programs, consideration of proactive practices from other jurisdictions and a look forward to technologies and the disruptive changes expected in the Transportation sector. The Mobility Management Strategy emerged from the combination of these considerations when tailoring them specifically for the needs of the City of Vaughan.



THE VISION AND GOALS OF THE MOBILITY MANAGEMENT STRATEGY

The vision of the Mobility Management Strategy is to *provide a transportation system that is safe, efficient, and sustainable*. It is recognized that this vision requires collaborative efforts between both internal and external stakeholders. The Mobility Management Strategy forms a road map for these efforts and encourages other dedicated partners to assemble, work together and continue delivering efficient traffic services.

Over the next five years, the proposed Mobility Management Strategy will serve Vaughan’s citizens with:



Roads and trails influenced by a world-class safety program – Road Safety Program

Reliable trip times through the City – Mobility Management Program

A high return to Taxpayers – Traffic Data Management Program

Practical choices to drive, ride or walk – Sustainable Mobility Program

Over the last two decades, road agencies across the world have continued to endorse road safety procedures that identify locations with the highest potential to improve safety and make targeted changes, reducing road-related collisions. The Safety Program will work towards a Vision Zero goal by bringing together partners and stakeholders to integrate these procedures and safety knowledge into the City’s roads and trails and by *fostering a culture of road safety with Vaughan’s citizens*.

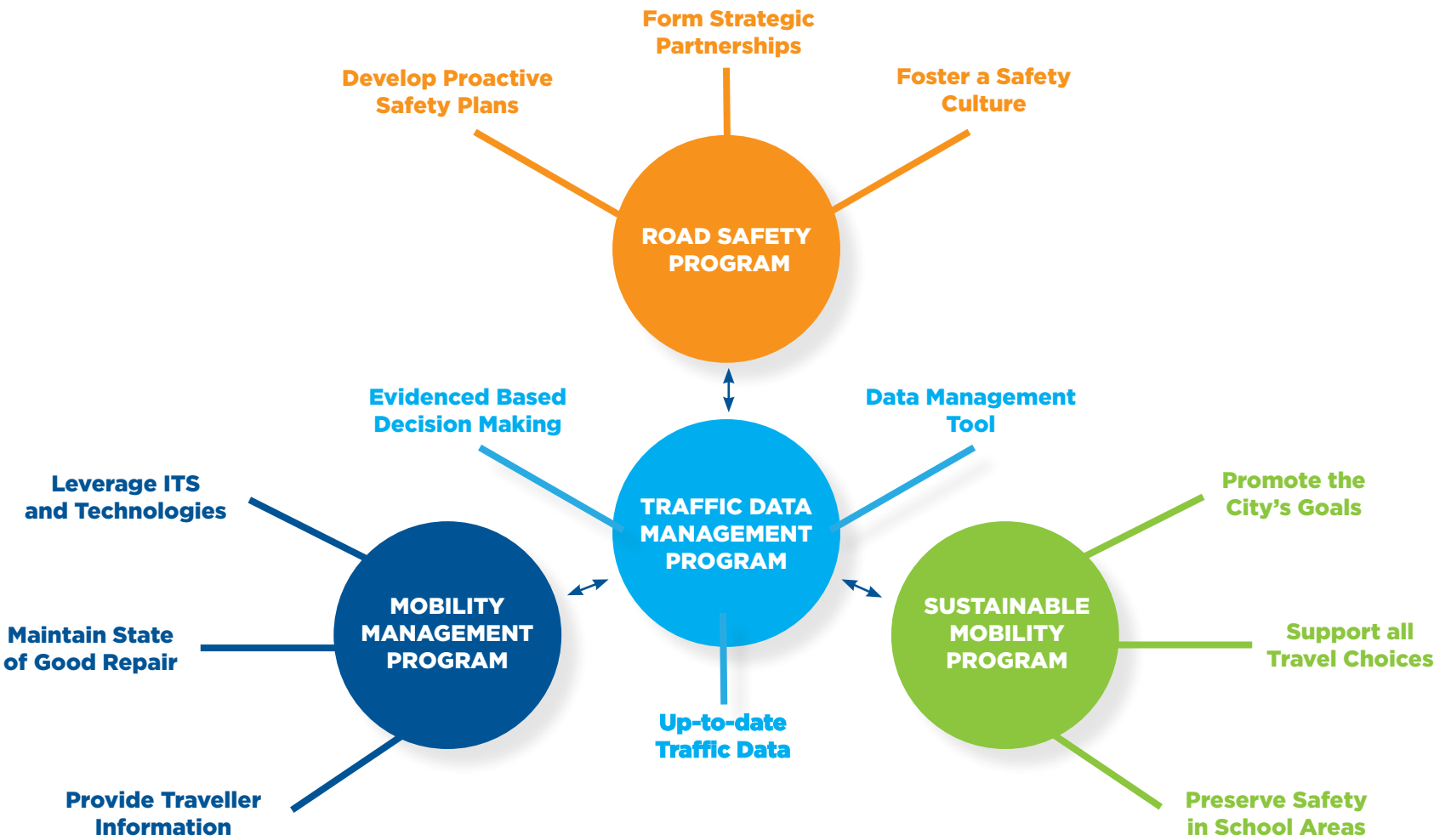
Most people in Vaughan have experienced the routine congestion that forms daily on our roads. Traffic congestion is a symptom of a vibrant economy. Nonetheless, most find it frustrating when traffic moves slower than expected. The mobility management program is designed to *manage congestion, coordinate construction projects and get the most from our existing road network*.

The citizens of Vaughan expect their tax dollars to be spent wisely and for City staff to be accountable for their actions and decisions. Traffic data allows the City to make *evidence-based decisions and assess the effectiveness of changes on the roadways*. The traffic data management program will improve the efficiency with which traffic data is collected, analyzed and reported.

A connected network of roads, bicycle lanes and trails will provide the citizens of Vaughan with *transportation choices and promote a higher quality of life* for many people.

THE MOVESMART MOBILITY MANAGEMENT STRATEGY

The MoveSmart Mobility Management Strategy consists of four programs that support each other. The interrelationships are illustrated in the diagram below.



At the core of the strategy is the Traffic Data Management Program. This program includes the acquisition of a traffic data management tool. The tool will interface with data collection devices and will have the ability to assess and analyze the data so that the City can make evidenced base decisions. In this way, the traffic data management program provides support to the other programs.

The Road Safety Program will establish a proactive approach to road safety. To achieve this approach, it will encourage partnerships with other agencies to collectively address safety issues and concerns. These agencies include the York Regional Police, York Region, neighbouring municipalities, advocacy groups and others. Through this group, messages can be developed collectively to provide a louder voice, show agency coordination to tax-payers and encourage a safety culture with the public.

The Mobility Management program will acquire the traffic control systems, equipment and procedures to manage traffic and congestion. The traffic signal control system is a key element of this program, which will not only help to monitor and control the City's traffic signals, but can form a portal to integrate future technologies such as connected and autonomous vehicles, traveller information and a whole host of road related sensors.

The Sustainable Mobility Program will provide support to sustainable modes of transportation including walking and micro-mobility options (existing and emerging). The MoveSmart Mobility Management Strategy will share insights into the pedestrian and cycling planning processes and assure the operations and maintenance of the infrastructure needed for all travel choices. It will also consider the safety around the City's many schools, and promote the greater goals of the City as mentioned previously.

There are 29 initiatives in all, as shown on the following pages.



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 behavior with feedback to drivers

2025



Low-Cost Safety Countermeasures Plan
Implement low-cost measures such as pavement markings, signage, etc.

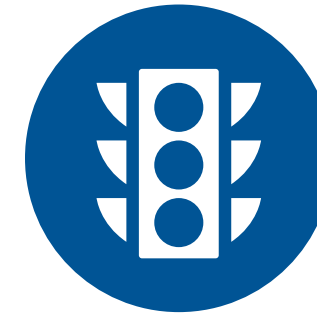
2026



Rail Transportation and Safety Plan
Improve mobility while minimizing noise at crossings near residential areas



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 & 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

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



TRAFFIC DATA MANAGEMENT PROGRAM

Assure accuracy and availability of traffic data

2021/2022



Traffic Data Needs Assessment
Identify traffic data requirements to support the MoveSmart Strategy

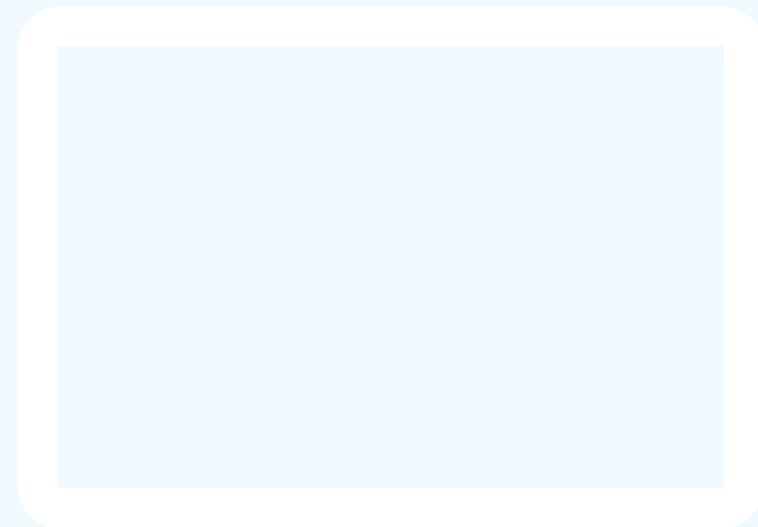


Traffic Data Management System
Procure and implement a traffic data management system

2023



Traffic Data Services
Enhance the City's traffic data collection programs and contracts



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



Timelines

The implementation of the initiatives will take place over the five year period (2022 to 2026) with the foundation for the Strategy being set in 2021. The timeline outlines the recommended sequence of activities for all four programs and the associated plans and services. The timeline was developed to recognizing that some plans and services are pre-requisites for others.

Costs and resources

The costs and resources are shown in the figure on the right for each year of the Strategy. To deliver the initiatives in the MoveSmart Mobility Management Strategy, additional funding and staff will be required to bring the strategy to life. Note, the Strategy is designed to accelerate if new opportunities present themselves or can adjust to a longer timeline if needed. However, the services associated with the initiatives are dependent on the availability of capital and operating budgets, and staff.

Program monitoring

A set of potential key performance indicators (KPIs) have also been developed to monitor and evaluate the effectiveness of the Strategy throughout its five-year lifespan (as listed in the Mobility Management Strategy report). Monitoring and evaluating the Strategy will be an ongoing task, and the KPIs will be used to identify the overall success of the Strategy.





KPMG

TTC SUBWAY ↓

Highway 7