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## **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

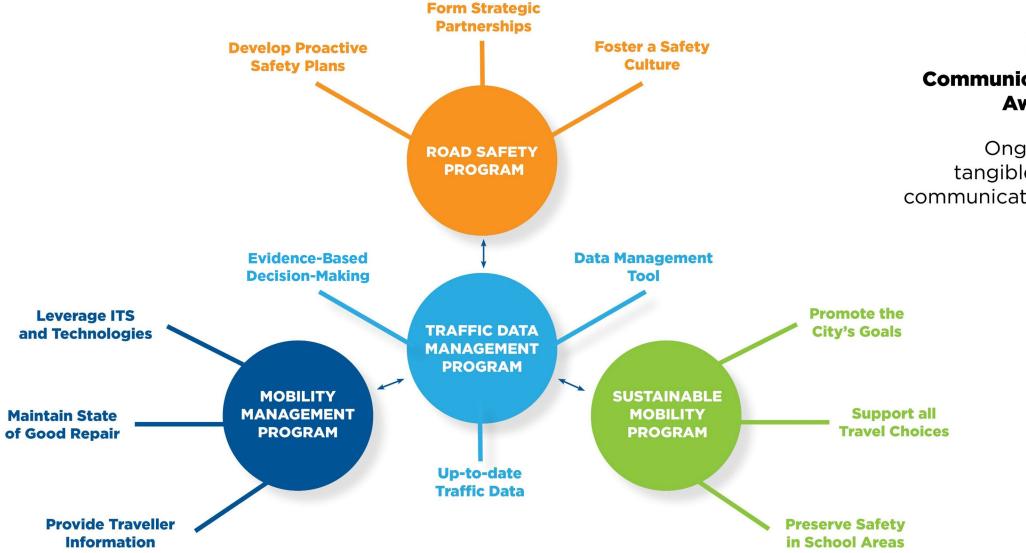


## TRAFFIC DATA **MANAGEMENT PROGRAM**

Assure accuracy and availability of traffic data

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## **MoveSmart Integrated Programs**



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



## 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 C4: Page 5 of 26



## **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**

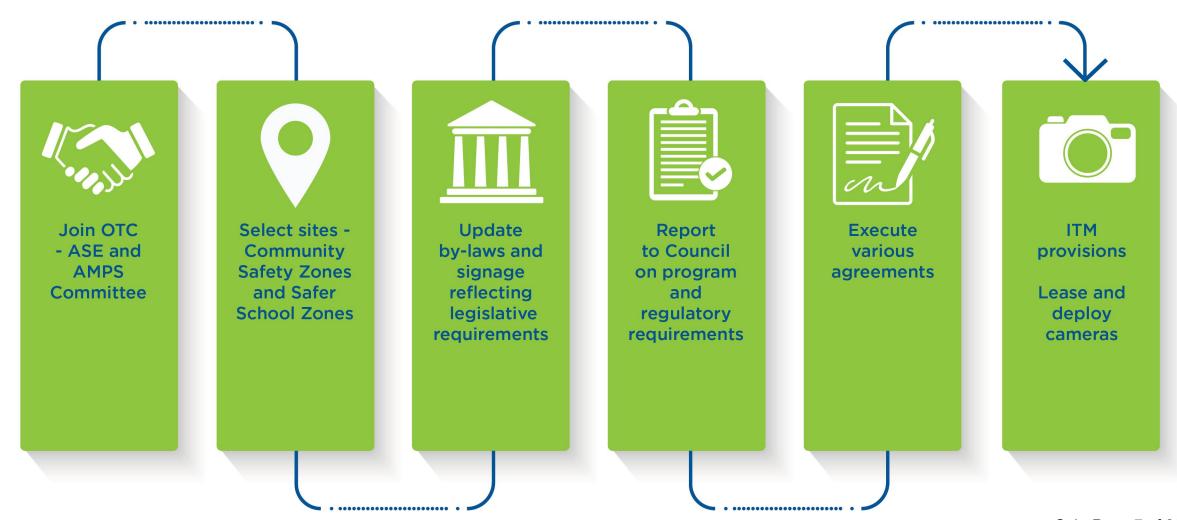
Use technology for enforcement in school zones and other community areas

## **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)



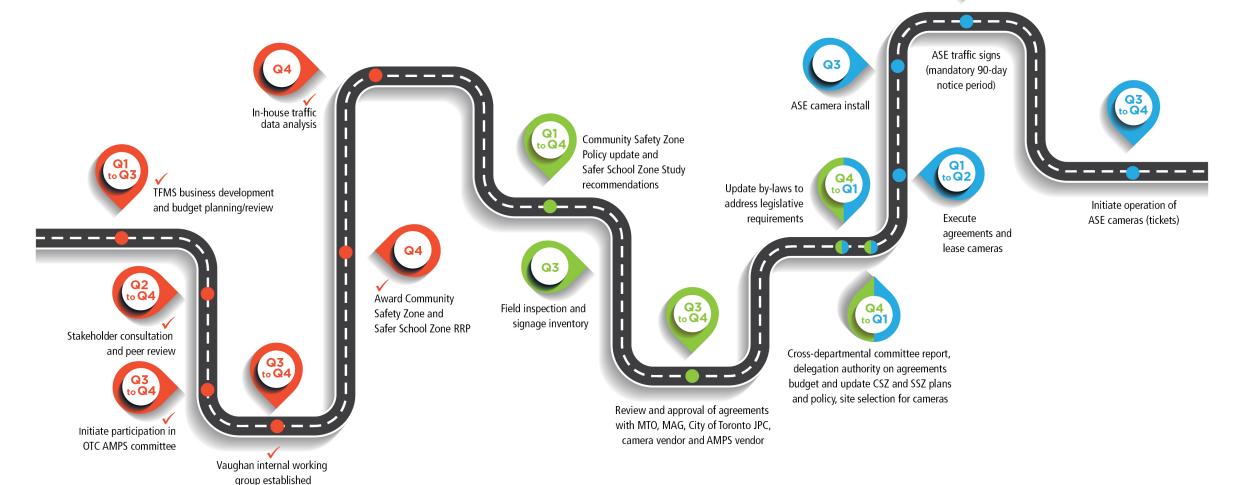


Speed camera vendor



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

# Automated Speed Enforcement Delivery Plan



2022 2024 C4: Page 9 of 26



## **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

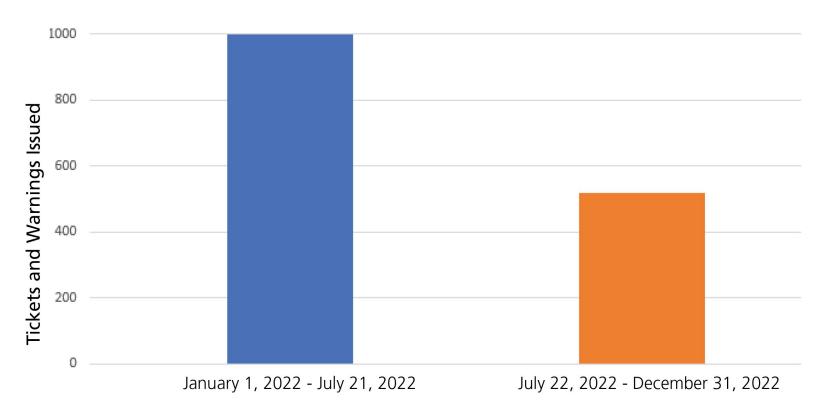


## **Road Safety Program**

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

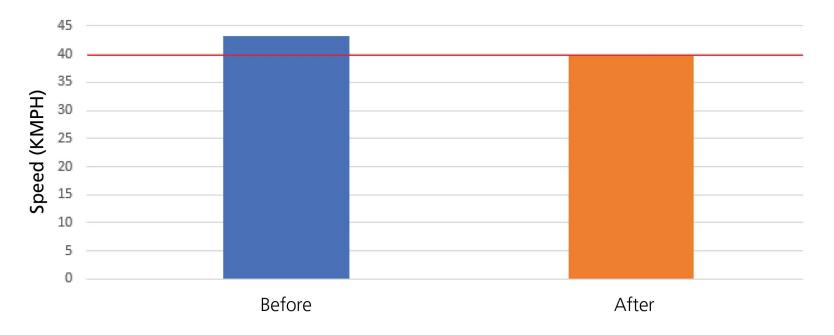
Improve efficiency through innovation and technology







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



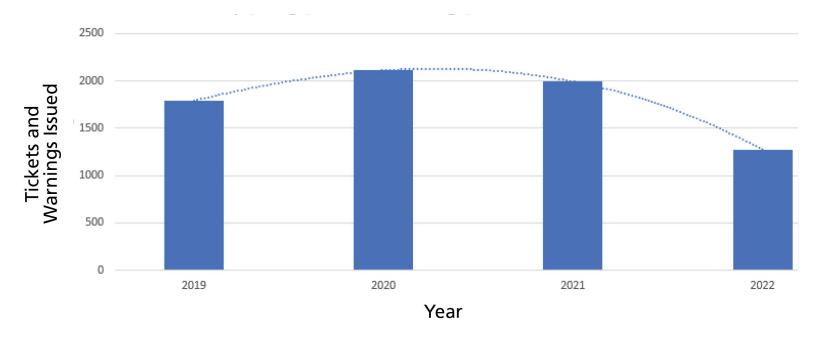


# Traffic Data Management Program

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





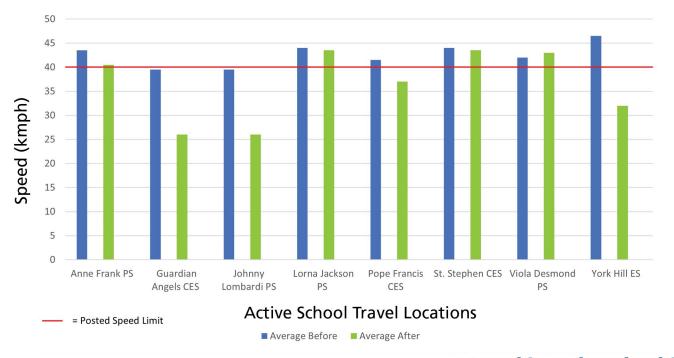


# Sustainable Mobility Program

Support active and sustainable transportation



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

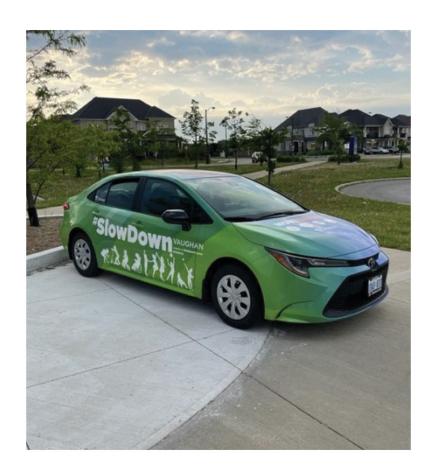


Recent studies near schools with traffic calming measures show **a trend in reduced vehicle speeds**. The City intends to continue these studies to better understand the effects of combining different traffic calming measures and how they influence road safety.

# 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







# 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

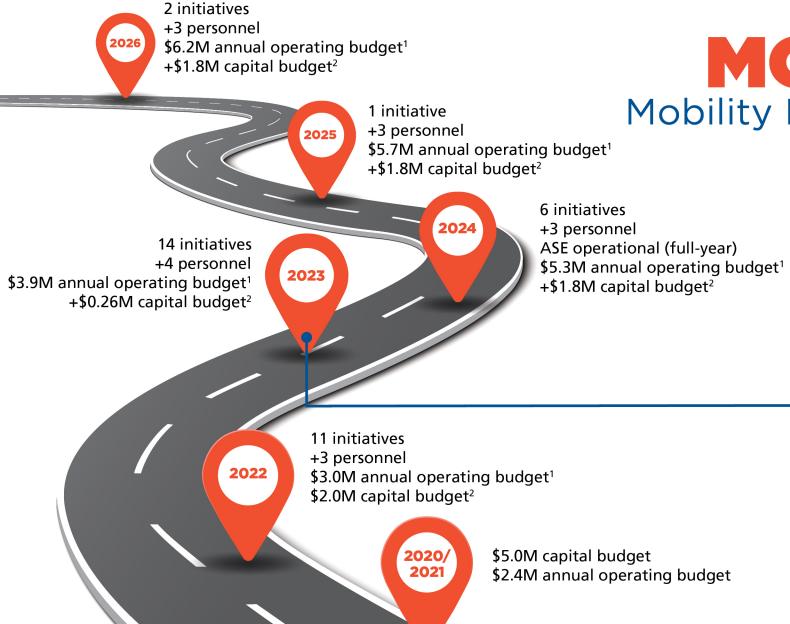










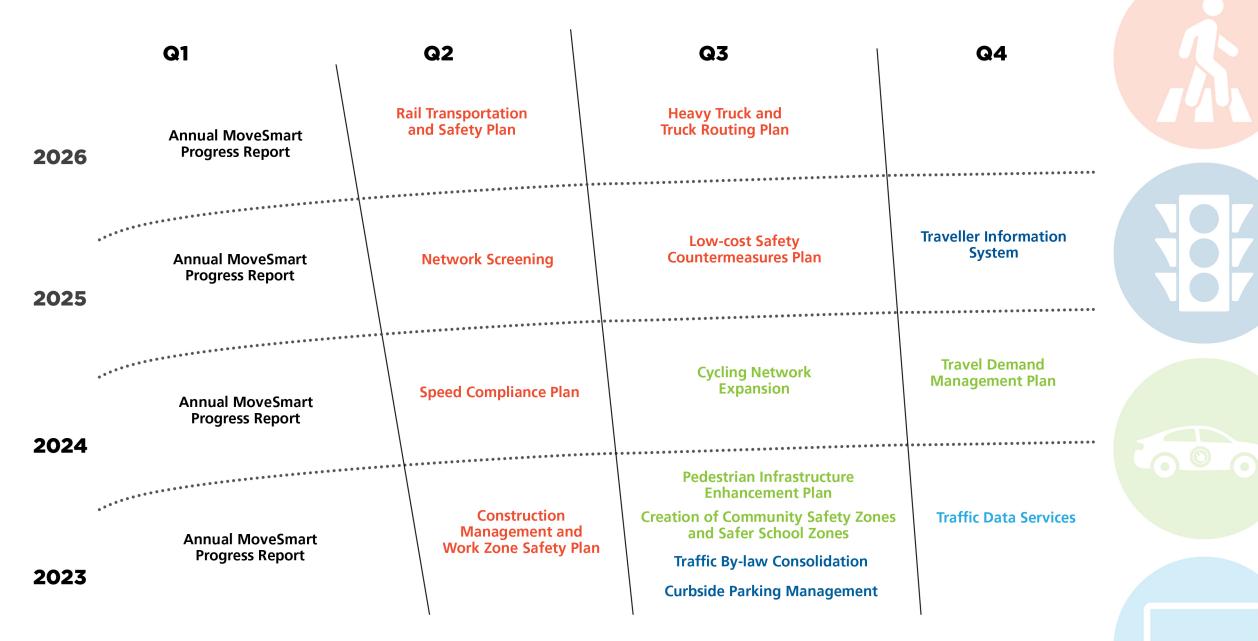






# Timelines and Resources

<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.

