

SMART CITY TASK FORCE –APRIL 21, 2021

COMMUNICATIONS

Distributed February 17, 2021

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C1.	Presentation material titled: “ <i>Smart City Task Force – Public Works & The Move Smart Mobility Strategy</i> ”	3
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Please note there may be further Communications.



Communication : C1
Smart City Task Force
April 21, 2021
Agenda Item # 3

Smart City Task Force

Public Works & The Move Smart Mobility Strategy

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Deputy City Manager, Public Works

Public Works Portfolio



Transportation
and Fleet
Management
Services



Parks, Forestry
and Horticulture
Operations



Environmental
Services

Transportation and Fleet Management Services

2,200

Lane km of roads
maintained

585,000

Average daily trips
enabled

59

Winter events in the
2019-2020 season

22,590

Streetlights

112

School Crossing
Guards at 67
schools

92

Traffic Signals

635,000

Meters of pavement
markings applied

468

Municipal Consent Applications
Approved

3,550

Road Occupancy Permits
Approved

252

Traffic Surveys completed

2

High Speed Fiber internet
network upgrades





Parks, Forestry and Horticulture Operations

204 Outdoor community events supported

10,360 ha. of grass cut in parks and boulevard



78 facilities salted and plowed

275 Sports playing facilities maintained

785 Hanging baskets maintained

557 Planters maintained

1,265 Hours of splashing fun provided

1,190 km of sidewalks salted & plowed

3,506 Trees pruned

802 Shrub beds maintained





Environmental Services



more than

65%

88,000

tonnes of solid waste collected and more than avoided landfill



100%

MECP compliance rating



43

licensed operators



35

billion litres of safe, clean, drinking water delivered



39

watermain breaks repaired



2,400

water samples taken annually

200

blocked sewers and catch basins cleared



26

stormwater ponds rehabilitated

Stewardship of

\$2.2 Billion

In Assets

2

water booster stations

12

sanitary lift stations

143

stormwater ponds

889

km storm sewers

1,120

km watermains

8,900

fire hydrants

23,640

catch basins

210,852

sewer service connections

MOVESMART

Mobility Management Strategy





ROAD SAFETY PROGRAM

Increase road safety and raise public awareness



MOBILITY MANAGEMENT PROGRAM

Improve efficiency through innovation and technology



SUSTAINABLE MOBILITY PROGRAM

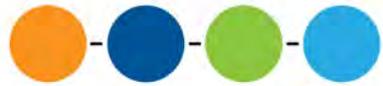
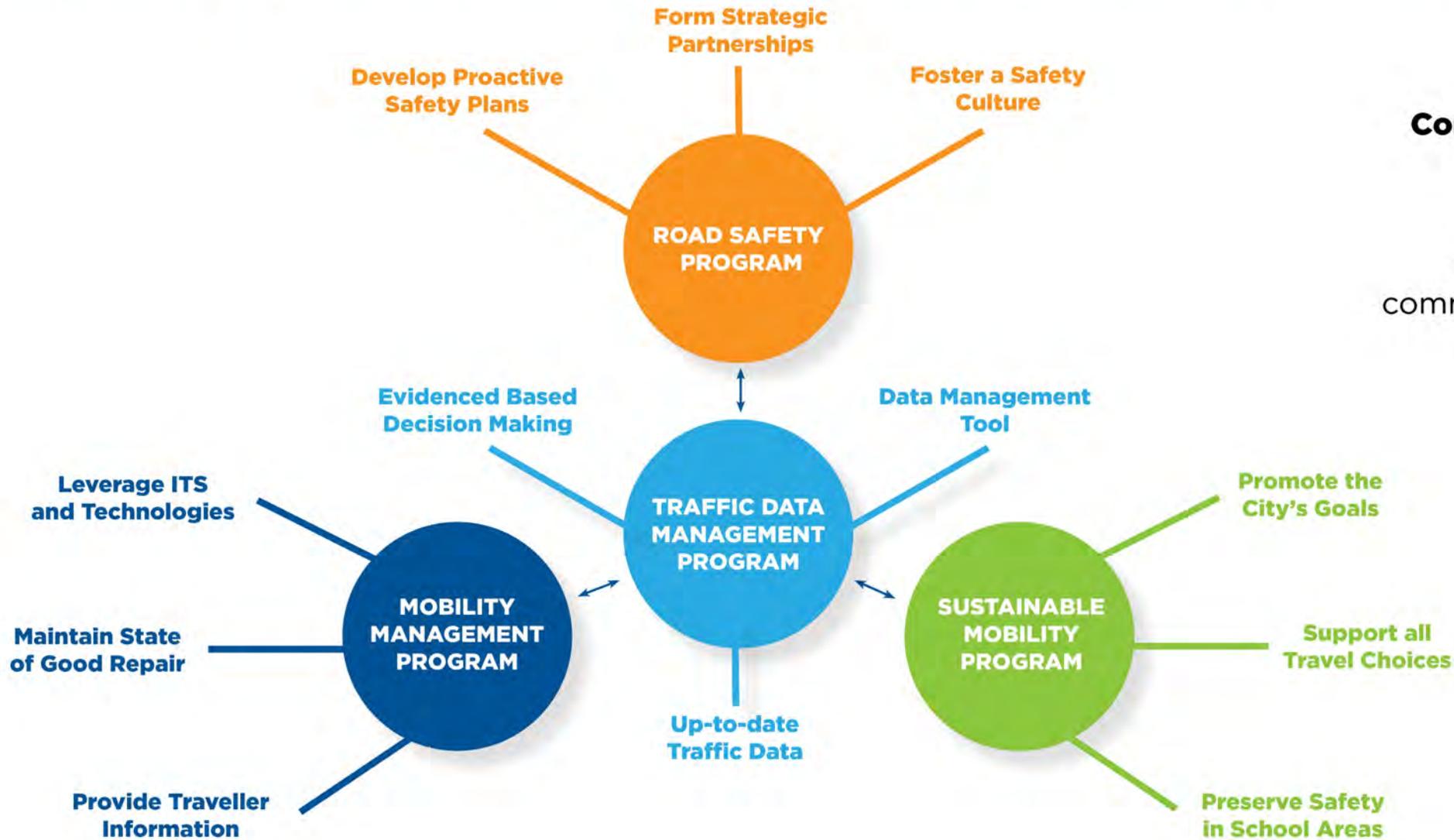
Support active and sustainable transportation



TRAFFIC DATA MANAGEMENT PROGRAM

Assure accuracy and availability of traffic data

Integrated Services and Plans



Communications and Public Awareness Initiative

Ongoing awareness of tangible benefits through communication and education



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



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



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



MOVESMART Timelines and Resources



+ 2 initiatives
+ 3 personnel
\$ 1.1M capital
\$ 3.7M operating



+ 1 initiatives \$ 1.1M capital
+ 4 personnel \$ 3.6M operating



+ 6 initiatives
+ 2 personnel
\$ 1.1M capital
\$ 3.5M operating



+ 9 initiatives
+ 4 personnel
\$ 2.2M capital
\$ 3.3M operating



11 initiatives
+ 3 personnel
\$ 2.4M capital
\$ 2.8M operating



2020/2021

\$5.0M capital (approved)
\$2.4M annual operating (approved)

THANK YOU



**Communication : C2
Smart City Task Force
April 21, 2021
Agenda Item # 2**

Smart City Task Force Workplan

April 21, 2021

Mandate

The City of Vaughan Smart City Task Force (SCTF) has an overall mandate to advance a culture of knowledge and pursue continuous improvement and to continue to provide advice to Council and City administration, including high-level political and community perspectives into the development of a Smart City initiative which enhances urban life in terms of people, living, economy, mobility and governance, and to endorse Smart City technologies for Council's ultimate consideration.

Objectives

1. Provide strategic advice and input into the development of the 5-year Smart City Business Plan
2. Identify and recommend smart city projects for Council's approval

1. Provide strategic advice and input

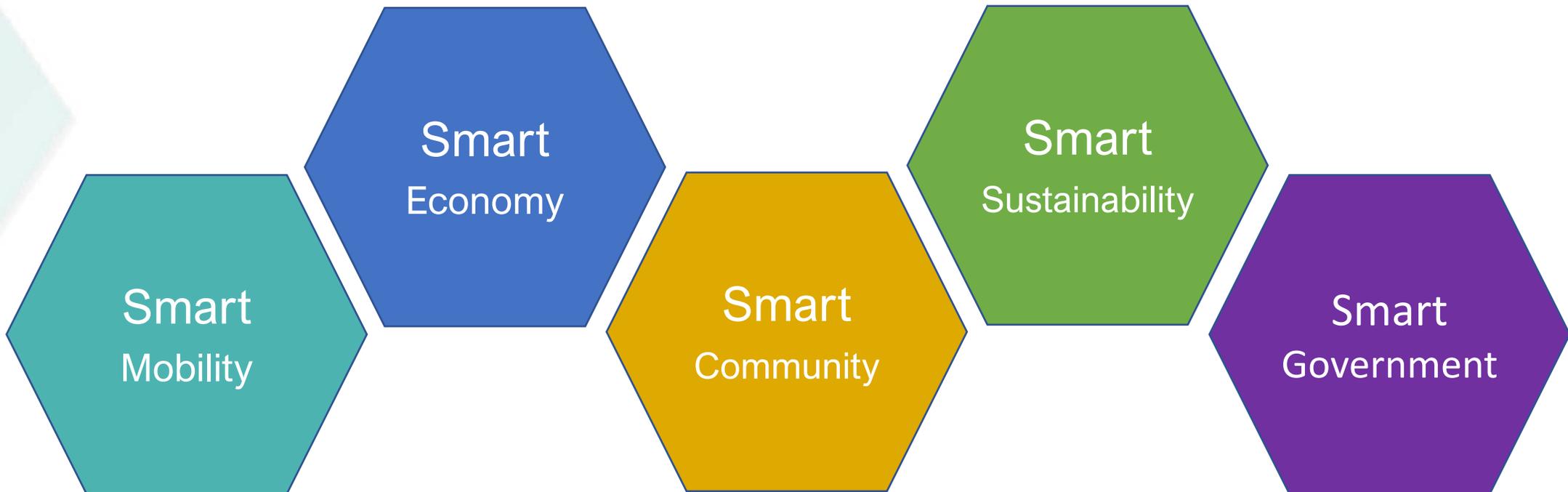
	Topics	What We Heard	Status
1.	Vision and Guiding Principles	<p>Key messages:</p> <ul style="list-style-type: none">• Not technology first, start with the community and how technology can support the community challenge• Importance of having external buy-in – i.e. storytelling, incentives• Long term play, start small, incremental change, build foundation (i.e. governance and policies)• 1-year: smart governance, 5-year: smart people, 20-year: smart environment, 30-year: smart living	<p>Complete.</p> <p>Draft vision and guiding principles incorporated in business plan.</p>
2.	Goals and Objectives	<p>Key messages:</p> <ul style="list-style-type: none">• Important to differentiate the “what” vs. “how”• Partnering with organization for big picture thinking• Focus on infrastructure and strategy• Bring new capabilities and methods of offering services to the residents• Provide more co-creation opportunities	<p>Complete.</p> <p>Strategic themes incorporated in the business plan.</p>

1. Provide strategic advice and input

	Topics	What We Heard	Status
3.	Privacy and Data	<p>Key messages:</p> <ul style="list-style-type: none">• City should start by owning all data collected and it should be stored on the cloud within Canada• Need to balance privacy vs. potential. Start with gaining public's trust and continue to communicate benefits• Explore how the City can make data accessible	<p>Complete.</p> <p>Need for smart city policy incorporated into business plan.</p>
4.	Governance	<p>Key messages:</p> <ul style="list-style-type: none">• Hybrid model and collaborative approach• Smart city needs to improve human conditions• Government's role is to lead, bring the right partners together	<p>Complete.</p> <p>Staff to create decision criteria and framework for collaboration</p>

2. Identify and Recommend Smart City Projects

5 Strategic Themes



2. Identify and Recommend Smart City Projects

	Strategic Themes	Leading Questions	Date
5.	Smart Mobility	<ul style="list-style-type: none">• How can we better understand how people move around the city?• How can Vaughan better manage pedestrian, cycle and vehicular flows and reduce congestion?• How to encourage our residents to participate in active transportation?	April 2021
6.	Smart Economy	<ul style="list-style-type: none">• How can we use smart technologies to improve livability and competitiveness?• How can we innovate in procurement, taking a problem-based approach to deliver better quality outcomes for the region?• How can we position Vaughan as the place to pilot and scale new smart technologies?	June 2021

2. Identify and Recommend Smart City Projects

	Strategic Themes	Leading Questions	Date
7.	Smart Community	<ul style="list-style-type: none">• How can we use technology to better understand and engage in 2-way communication with our residents?• How can collaborative technologies help bring communities together?• How to help create an accessible and age-friendly community for all?• How to improve citizen wellbeing?• How can we get more people involved in improving their city and services?	September 2021
8.	Smart Sustainability	<ul style="list-style-type: none">• How to reduce energy use and build long term sustainability and resilience for climate change?• How can Vaughan better understand, predict and respond to emergencies?	December 2021

2. Identify and Recommend Smart City Projects

	Strategic Themes	Leading Questions	Date
9.	Smart Government	<ul style="list-style-type: none">• How to access more timely and accurate information to better manage our City operations?• How do we deliver relevant information to citizens in real time?• How can local government use technology to engage better with Vaughan residents?• How can we bridge the digital divide?	February 2022

Deliverable			
10.	Summary Report and Projects Recommendation	<ul style="list-style-type: none">• Provide task force summary of recommendation to review	April 2022