Outline

• Mississauga: A City in Transformation
• Planning for a Transformative Future
  – Transportation Master Plan
  – Parking Master Plan (“Parking Matters”)
  – Zero Emission Vehicles & Infrastructure (ZEV&I)
• Taking Transformative Steps Today
  – Transportation Network Company (TNC) Pilot Project
  – Transit Fleet Transition
  – Advanced Transportation Management System (ATMS)
• Open to Transformative Partnerships
  – We are participating on a host of working groups
  – What we hope to achieve with iCity - CATTS
Mississauga: City in Transformation
A city with a driving habit…

Source: Transportation Tomorrow Survey 2011
...but less than we might think...

Source: Transportation Tomorrow Survey, 2011
...changing every year...

MiWay Transit Usage by Year

26% growth in ridership 2011-2016

2nd highest rides per capita in GTHA
4th highest in all of Ontario

Sources: MiWay and CUTA Factbook (rides) & Census (pop.)
...embedded in regional system.

Where Mississauga residents work

Where Mississauga workers live

Source: Transportation Tomorrow Survey, 2011
Word on the street

- First and last mile barriers to transit are becoming factors in business (re)location
- TNCs in common use, irrespective of controversy and regulatory status
- Growing older adult population dependent on caregiver chauffeurs for mobility
- Cycling and walking impeded by concerns for road safety
Planning for a Transformative Future
Transportation Master Plan

Integration

Connectivity

Safety

Inclusion

Resilience

Health
Resilience: leadership in adapting to changes that reshape the transportation system and how it is used

• How will public appetite for personal car ownership and modal choice be affected by:
  – evolution of on-demand transport (taxis, TNCs)?
  – app-supported shared mobility?
  – innovation in auto tech (fuel type, connected vehicles, autonomy)?

• How will ( Provincial) policy on licensing drivers and licensing vehicles evolve as drivers and vehicles become one?

• What is the municipal role in developing design standards, best practices, infrastructure requirements, ROW allocations to enable:
  – New fueling systems (electricity, hydrogen)?
  – Connected and/or autonomous vehicles?
  – Curbside service provision (pick-up/drop-off, vendors-on-wheels, etc.)?
Parking Master Plan ("Parking Matters")
A coordinated and strategic approach to citywide parking provision and management.

Transformations:
• Digital payments, permits and signage
• Open Data, standardization
• Parking enforcement upgrades
• Emerging parking technologies, such as stackers and pop-up facilities
• Curbside management
• Impacts of autonomous vehicles
Zero Emissions Vehicles & Infrastructure (ZEV&I)

- Why ZEV’s are important:
  - Reduce GHG emissions
  - Improve local air quality
  - Catalyze the transition away from fossil-fuel powered vehicles

- Challenge: lack of access to fueling or charging infrastructure

- Municipal role:
  - Support the adoption of ZEVs by helping to establish a reliable and readily available charging and refueling infrastructure
  - Use land-use and building policies and planning to direct the deployment of low carbon charging and refueling infrastructure in public, residential, and workplace locations
ZEV&I – Mississauga Approach

• Establishing a ZEV Ecosystem which will include:
  – Developing a ZEV&I Ecosystem Strategy in 2019
  – Electrification of the City’s Corporate Fleet
  – Exploring possible applications of hydrogen fuel cells (e.g. buses)
  – Charging and Refueling Infrastructure
Transformative Steps
We’re Taking Today
Transportation Network Company (TNC) Pilot Project

- 18 month TNC Pilot Project Licensing By-law enacted on June 21, 2017 to permit “ride share” services.
- By-law deregulation amendments made to Public Vehicle Licensing By-law to permit taxis to be more competitive.
- Effective July 1, 2017, TNCs must meet licensing requirements to operate in Mississauga.
TNC Pilot Project Purpose

To assess the effectiveness of the ride share (TNC) regulatory framework from a consumer protection and public safety perspective:

1. Assess TNC By-law compliance rates.
2. Assess the impact of the Public Vehicle By-law deregulations.
3. Identify regulatory framework limitations and recommend a permanent regulatory framework.

Report back to Council in 2019
Transit Fleet Technology

MiWay is transitioning its fleet away from carbon fuels:

• Purchased battery electric change-off vehicles with operations expected September 2018.

• Purchasing second generation Hybrid buses which have the potential to be converted to full electric at mid-life (replace the diesel engine with batteries).

• Ongoing monitoring of electric bus demonstrations projects within Canada.

• Reviewing Hydrogen Fuel Cell Electric bus applications.

• Conducting a facility review in 2019 to identify the requirements for electric bus charging within our bus garages.
Advanced Transportation Management System (ATMS) Project

State-of-the-art project that provides means to:

• Meet traffic system and operational needs
• Manage traffic congestion and its effect on the road network

Travelling better in Mississauga
Moving Forward

• Proactive Traffic Management
• Traffic Signal Performance
• Private Traffic Data Apps:
  ➢ Real-time traffic information
• Connected Automated Vehicles:
  ➢ Future interconnections between vehicles and traffic infrastructure
• Big Data:
  ➢ Data sharing is the way of the future
Open To
Transformative Partnerships
Our Partners in New Mobility

- Peel Region Goods Movement Task Force
- Metrolinx Urban Freight Forum
- National AV Working Group
- Ontario Good Roads | MACAVO
Our New Partner: iCity-CATTS

We look forward to:

• Learning from global academic community about emerging policy approaches and technological advancements

• Helping to identify local applications and implementation practicalities of emerging tools and technologies
Thank you

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