

Mississauga Moves: A City in Transformation

2018 iCity Symposium

Hamish Campbell

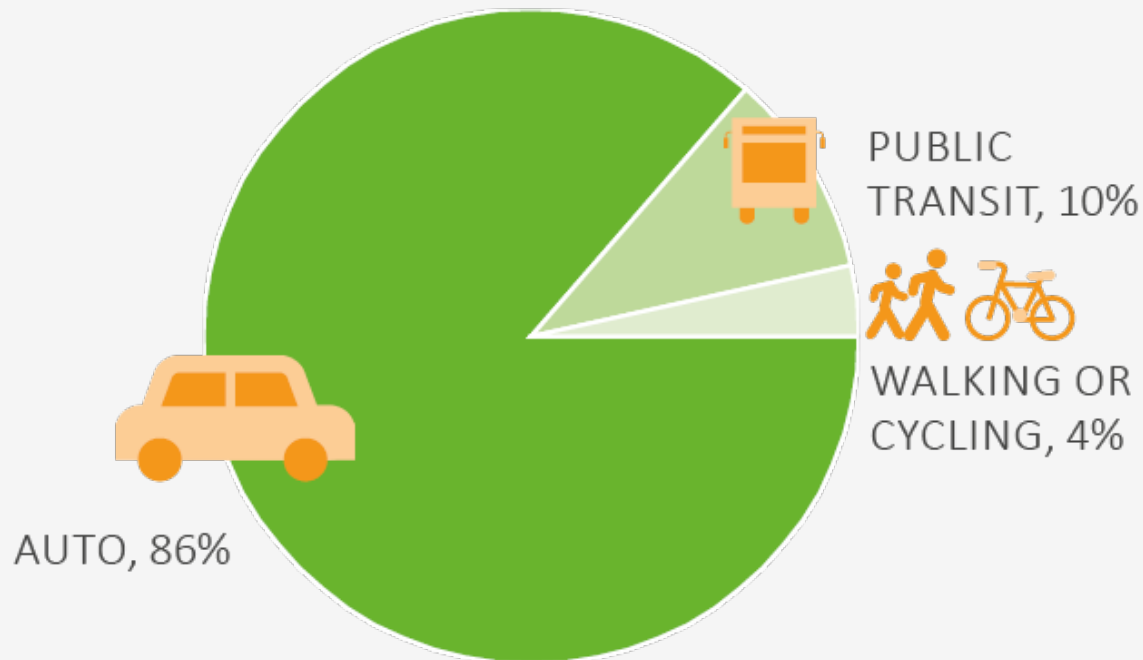


Outline

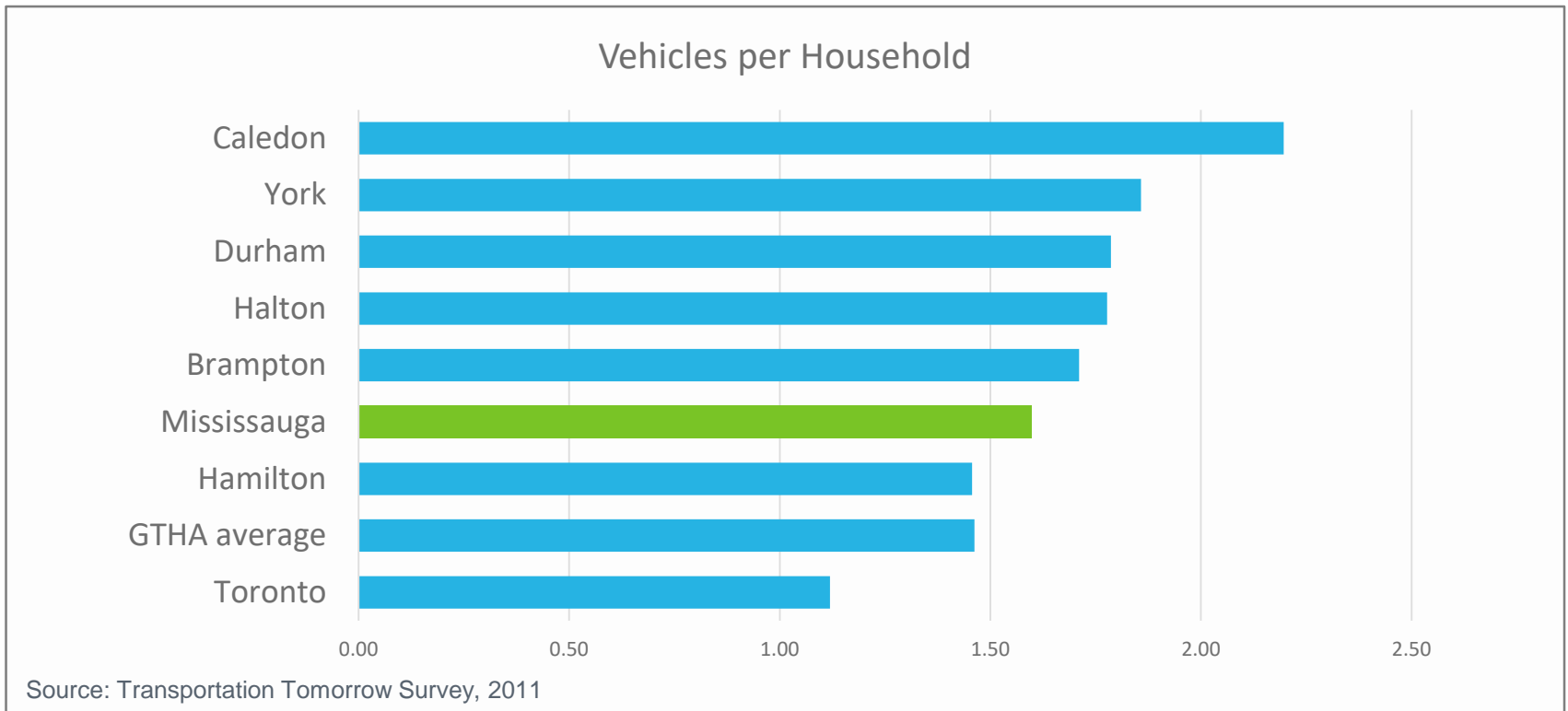
- Mississauga: A City in Transformation
- Planning for a Transformative Future
 - Transportation Master Plan
 - Parking Master Plan (“Parking Matters”)
 - Zero Emission Vehicles & Infrastructure (ZEV&I)
- Taking Transformative Steps Today
 - Transportation Network Company (TNC) Pilot Project
 - Transit 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

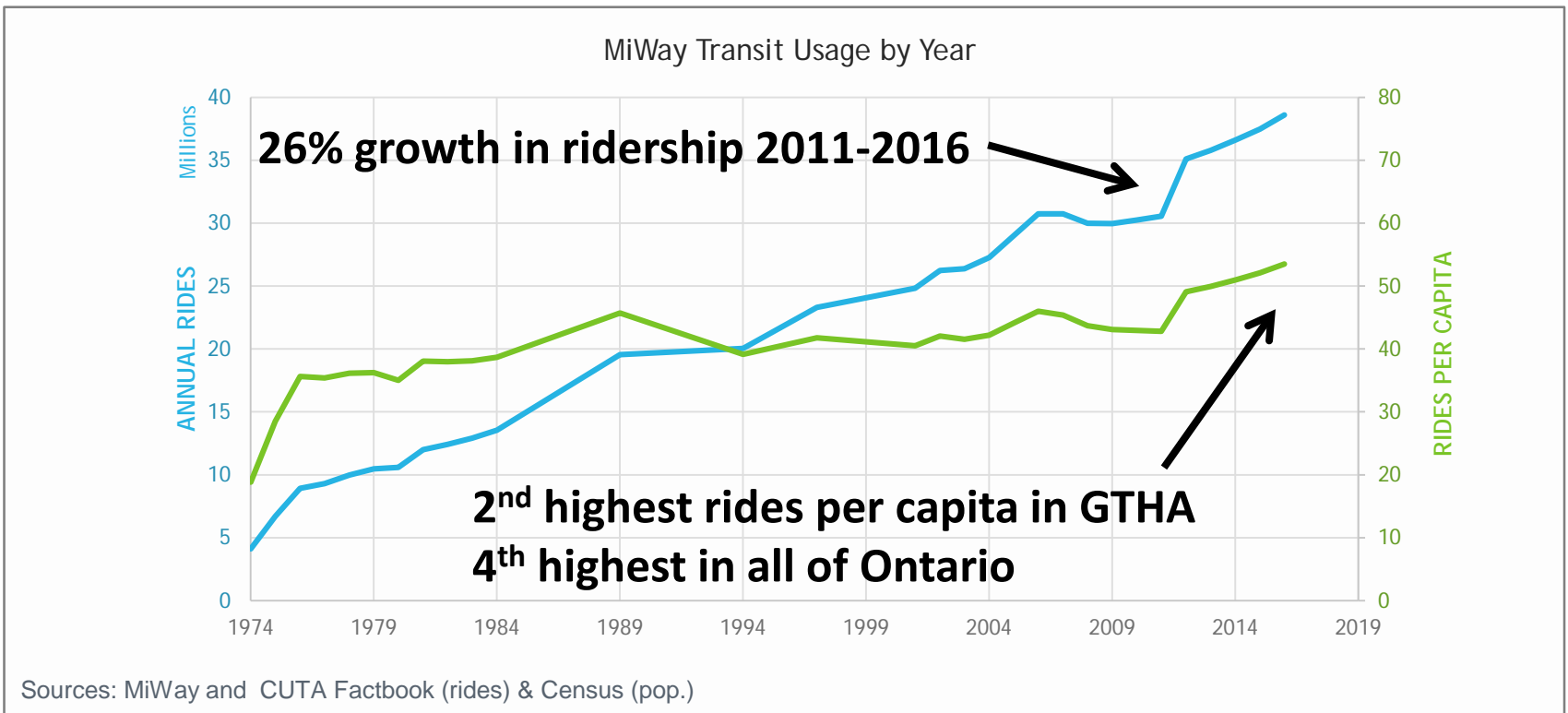
A city with a driving habit...



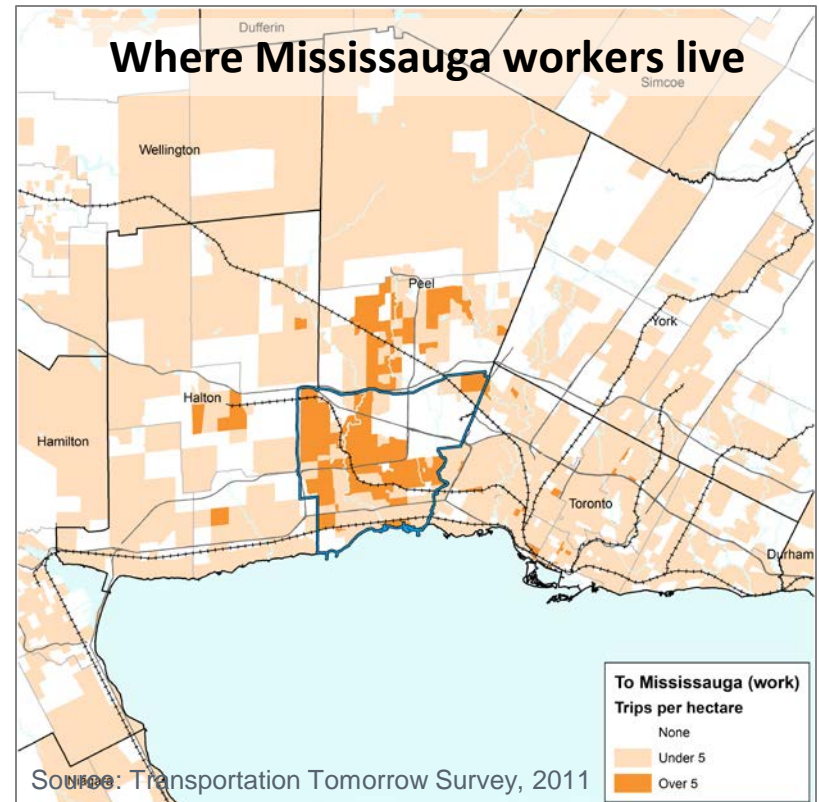
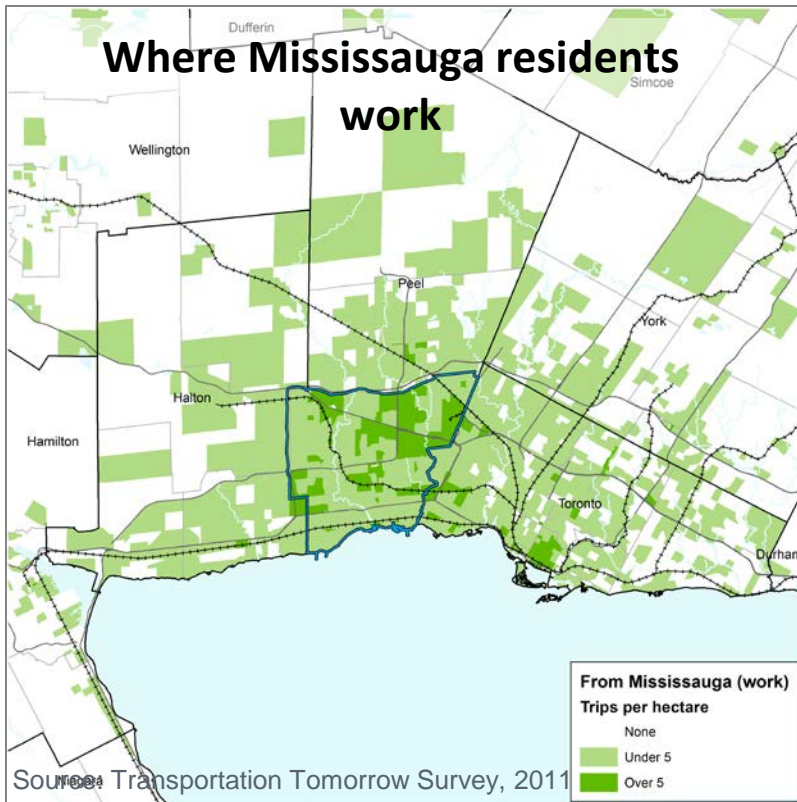
...but less than we might think...



...changing every year...



...embedded in regional system.



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



Servicing express routes



Servicing local and school routes

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



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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