

A Regional Perspective on Goods Movement

Smart Freight Centre Symposium

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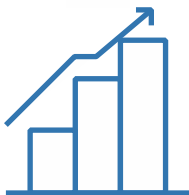
Top Ten Issues in Peel

1



Traffic Congestion

2



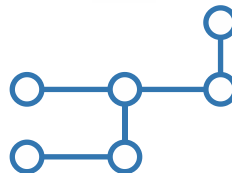
Managing the
Region's Growth

3



Opportunities to
Both Live and
Work in Peel

4



Link Transportation
and Access Networks

5



Attracting
and Retaining
Businesses

6



Health Programs
That Cover Our Life
Span From Infancy
to old Age

7



Employment and
Entrepreneurship

8



Active Lifestyles
and Habits

9



Mental Health
and Its Impacts

10



Community
Safety and Crime
Prevention

Transportation Trends

2018

2031

2041

Population



Peel > 1.4 Million
GTHA > 7 Million



Peel > 1.77 Million
GTHA > 9 Million



Peel > 1.97 Million
GTHA > 10 Million

Average Commute Time



82 min

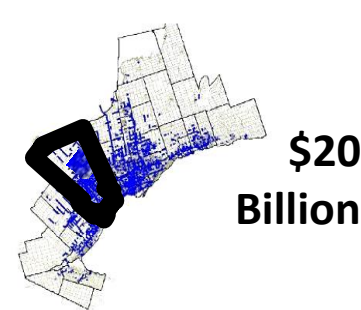
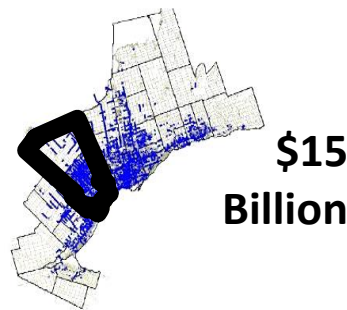
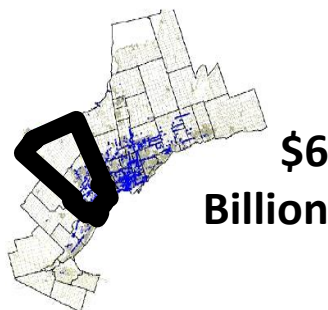


109 min



123 min

Traffic Congestion Cost



Truck trips



It is estimated that each person generates 2-3 truck loads per year. In **2041**, this could result in **6 million trucks per year** in Peel!



Goods Movement Trends



1

Customers' growing expectations



2

Increasing concern of the effects of congestion



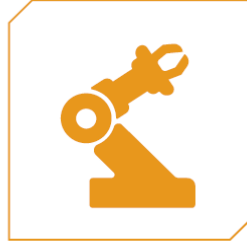
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The decreasing labour force availability and growing industry expectations



4

Emissions from the transportation sector



5

Automation, technological changes, and robotics

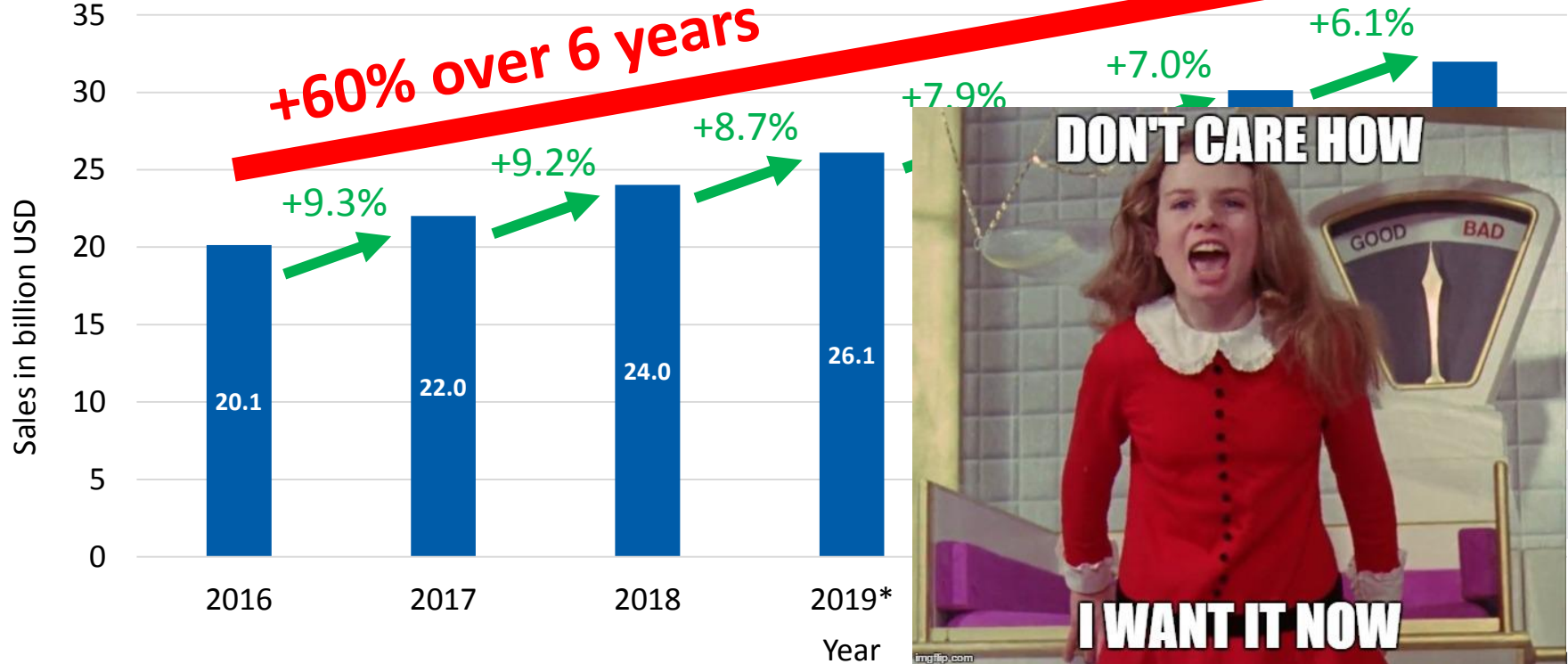


6

Strategies to address population and employment growth pressures

E-Commerce Growth

Retail E-Commerce Revenue in Canada





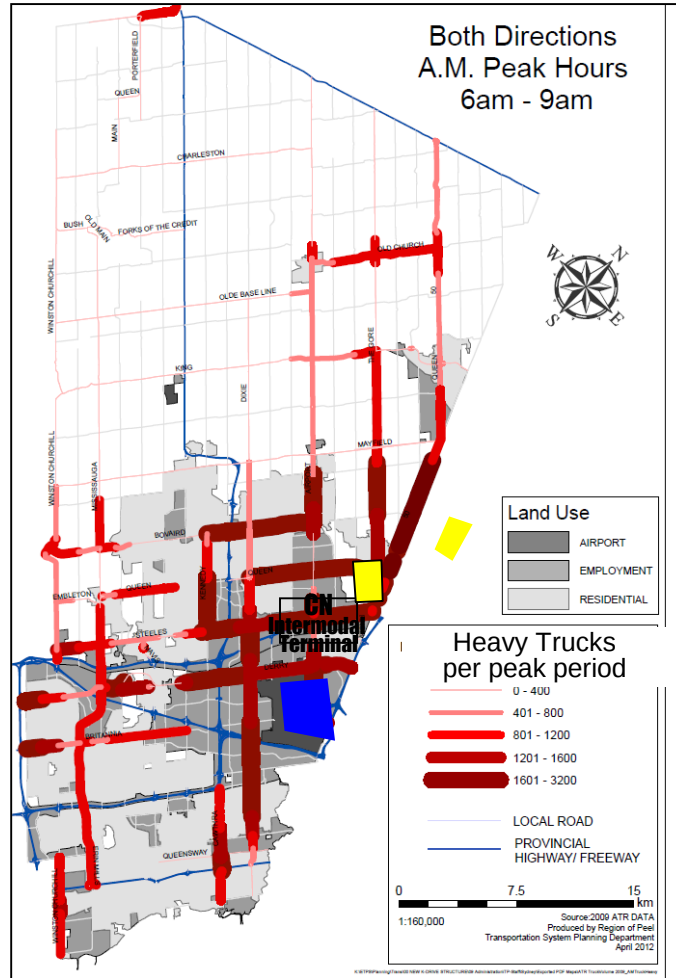
Queen St @ Hwy 50



Dixie Rd @ Steeles Ave



Airport Rd @ Derry Rd



CP Intermodal Terminal



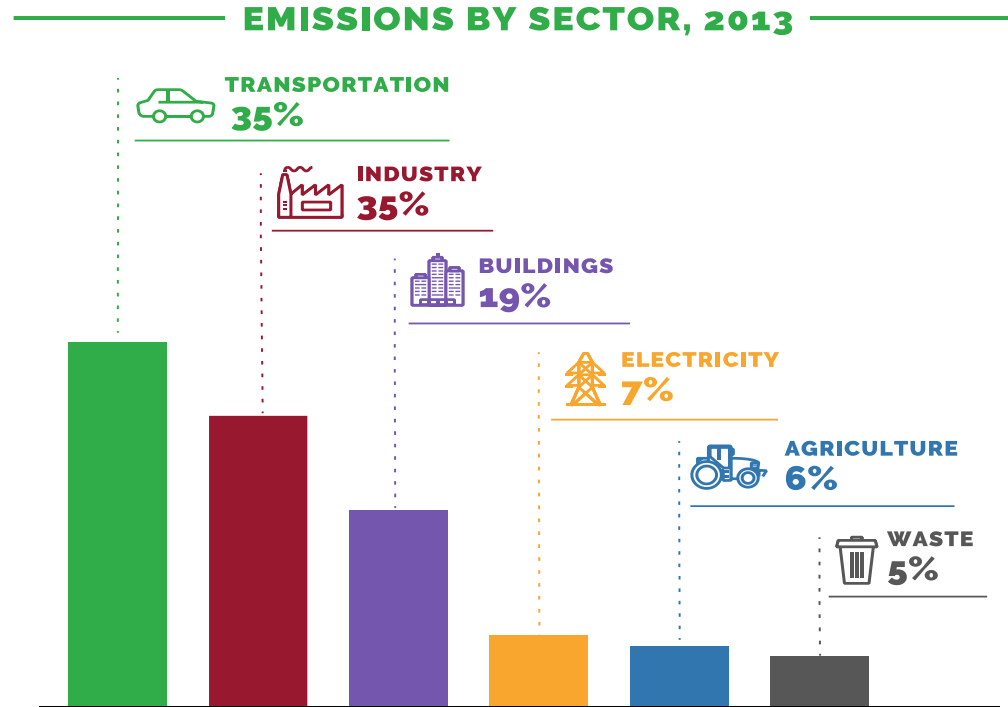
CN Intermodal Terminal



Toronto Pearson Airport

Emissions and Air Quality Challenges

- Need for Sustainable Action



Impact of Autonomous Vehicles

Impact on trucking industry Future Truck Driver



Source: <https://www.mercedes-benz.com>

Truck collisionssafety is paramount!



Highway 50/Cottrelle Blvd , Dec 2018

Source: CBC news, Sonny Subra

Peel Region Goods Movement Program

2003

Formal Goods Movement (GM) Program Initiated

2004

Strategic Policy Goods Movement Study in Peel

2009

GM Task Force Established

2012

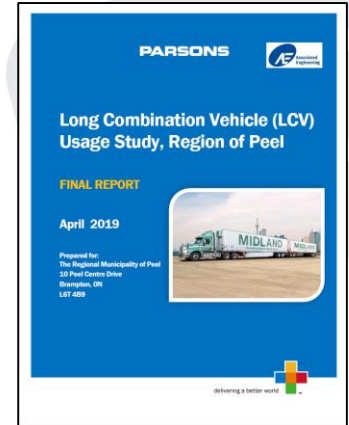
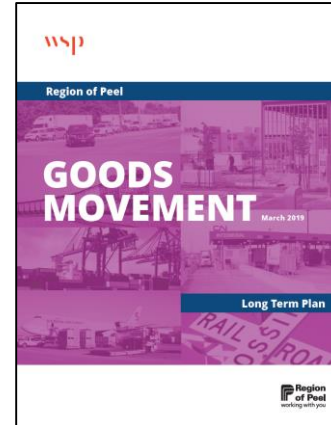
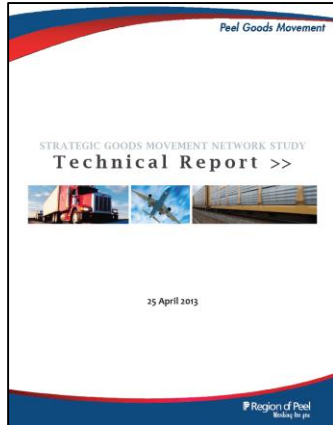
2012-2016 GM Action Plan (23 Actions)

2013

GM Network Established & Actions Implementation

2016

2017-2021 GM Strategic Plan
2041 GM Long Term Plan



2017-21 Goods Movement Strategic Plan

- Freight and Logistics Planning
- Connected and Autonomous Vehicle Corridor Pilot
- Off-Peak Delivery Pilot
- E-Commerce Strategy
- Expand Long Combination Vehicle Use
- Aggregates Study
- Education and Outreach
- Pursue Alternative Fuels
- Local Freight Fluidity



Smart Freight Centre

- The **Smart Freight Centre (SFC)** is a centre of excellence for goods movement.
- It has been established as a five-year collaborative network between:



UNIVERSITY OF
TORONTO



- We are looking for both **public** and **private sector stakeholders** to **actively partner** in this endeavor.



**SMART FREIGHT
CENTRE**

Collaboration

- Multiple Objectives with Opportunities to Coordinate and Work Together



Government

- Federal
- Provincial
- Municipal



Industry

- Goods Movement Businesses



Universities

- Research Partnerships



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SFC Projects

- **Current Projects**
 - Off-Peak Deliveries in the Region of Peel
 - E-Commerce Trends and Impacts
 - Truck-Friendly Measures
 - Cargo Tricycle Parcel Delivery Pilot Study at the University of Toronto



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SFC Projects

- **Potential Future Projects**

- Aggregate Movements and their Impacts
- Last Mile Delivery Models informed by Customer Attitudes
- Inter-Regional Truck Parking
- Connected and Automated Commercial Vehicles
- Alternative Fuels and Fuel Efficiency Initiatives
- Long Combination Vehicles Program Expansion
- Backhaul and Freight Matching
- Data Management-Big Data
- Border Crossing Improvement



Thank You

For more information, please contact:

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