

FREIGHT TRANSPORT: SITUATION OVERVIEW



+190%
Increase in freight carbon emissions in Quebec, from 1990 to 2018 ¹



39%
GHG emissions in the Montreal Metropolitan Community that come from the transportation sector ²



+350%
Increase in e-commerce sales in Canada from 2016 to 2020 ³



3,000,000
Hours of work lost by Montrealers each year due to traffic congestion ⁴

CONSULTATION & REPORT

35

stakeholders in the urban freight transport ecosystem were met, from both the private and public sectors

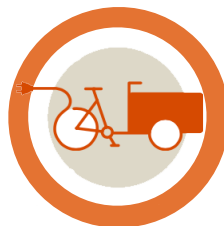
1

year review and study of best practices and academic research

9

members forming an advisory committee to spearhead the study

4 SOLUTIONS FOR MONTREAL



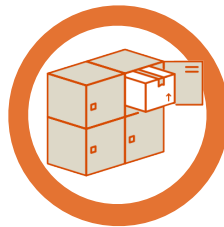
SOLUTION #1

Increase the use of electric-assist cargo bikes and mini-hubs



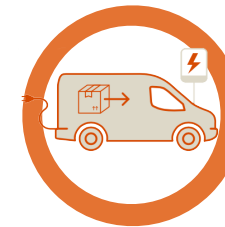
SOLUTION #2

Optimize urban delivery systems and logistics



SOLUTION #3

Increase direct delivery to customers through parcel lockers



SOLUTION #4

Accelerate the deployment of zero-emission vehicles

¹ and ². Inventaire québécois des émissions de gaz à effet de serre en 2018 et leur évolution, Gouvernement du Québec ³. Statistics Canada ⁴. Study by the Canadian Automobile Association, 2017



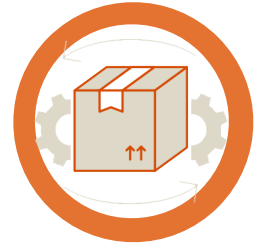
SOLUTION #1

Increase the use of electric-assist cargo bikes and mini-hubs

- Cargo bikes allow for 15% more delivery points per hour than a traditional truck.
- Compatible with pedestrian areas, they can use bike paths, are easy to park, and even make deliveries in the winter.
- Strategically located mini-hubs can be used to transfer merchandise from larger size trucks to cargo bikes.

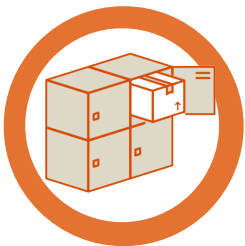
SOLUTION #2

Optimize urban delivery systems and logistics



- Optimize vehicle loading through consolidation and other strategies.
- Reduce travel by empty or partially empty urban delivery vehicles.
- Optimize urban delivery hours of operation, using quieter-performing zero-emission vehicles (ZEVs).

**REDUCING TRUCK EMISSIONS:
4 SOLUTIONS
FOR MONTREAL**



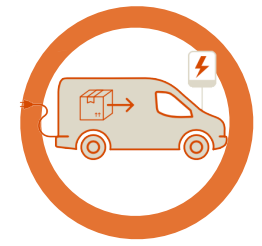
SOLUTION #3

Increase direct delivery to customers through parcel lockers

- Reduces trips made by delivery trucks to home addresses, therefore allowing for more deliveries in one place.
- A system already in use in some Montreal suburbs, using parcel lockers can contribute to reducing the number of failed deliveries and consolidate shipments and returns in one place.

SOLUTION #4

Accelerate the deployment of zero-emission vehicles



- Zero-emission vehicles (ZEVs), which include using battery-electric vehicles and hydrogen fuel cell vehicles, reduce pollutants and are relatively quiet.
- They allow for deliveries in residential areas during off-peak hours without noise being a concern.