FREIGHT TRANSPORT: SITUATION OVERVIEW

+190% Increase in freight carbon emissions in Quebec, from 1990 to 2018  
+350% Increase in e-commerce sales in Canada from 2016 to 2020  
39% GHG emissions in the Montreal Metropolitan Community that come from the transportation sector  
3,000,000 Hours of work lost by Montrealers each year due to traffic congestion

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

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).

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.