



REV Saint-Denis

Boosting the local economy
through cycling and walking
in Montreal, QC

Agenda

Background

Reseau Express Velo

Results

Who are they?

Background

— Montreal

1.8 million
population

560 miles
bicycle network

25%
physically protected

80%
plowed in winter

56
active counters in 2022

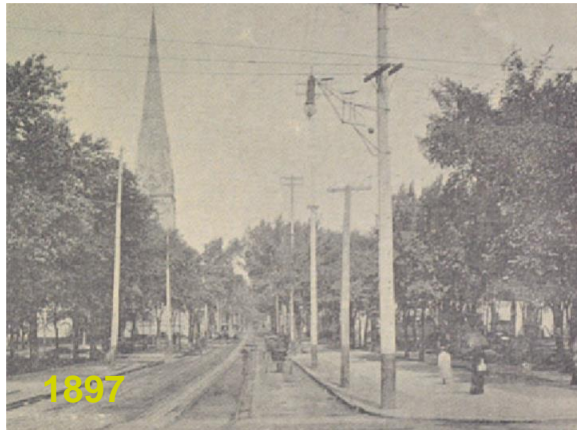


Photo: Marc Bruxelles | Dreamstime



Photo: Larisa Kapustkina | Dreamstime

Times are changing for Saint-Denis street



2019 Action Plan

- City, Borough, BID and residents
- For business owners, visitors and residents
- Door-to-door consultation (n=195)

1. New public spaces
2. Non-residential tax break
3. Digital support
4. Réseau Express Velo
5. Mid-block crosswalks
6. Zoning updates
7. Lighting Plan
8. Public art corridor
9. Public gardens
10. Gateway enhancements



2020 Recovery Plan

- City and Borough
- For business owners
- \$1.2 M for 2 years (2021-2023)

1. Professional services to business owners
2. Competitions for vacant shops
3. Online shopping optimisation
4. Branding and events
5. Promotion



Reseau Express Velo

Reseau Express Velo (2019-2025)

15%

Montreal's 2027 target
bicycle mode share

115 miles

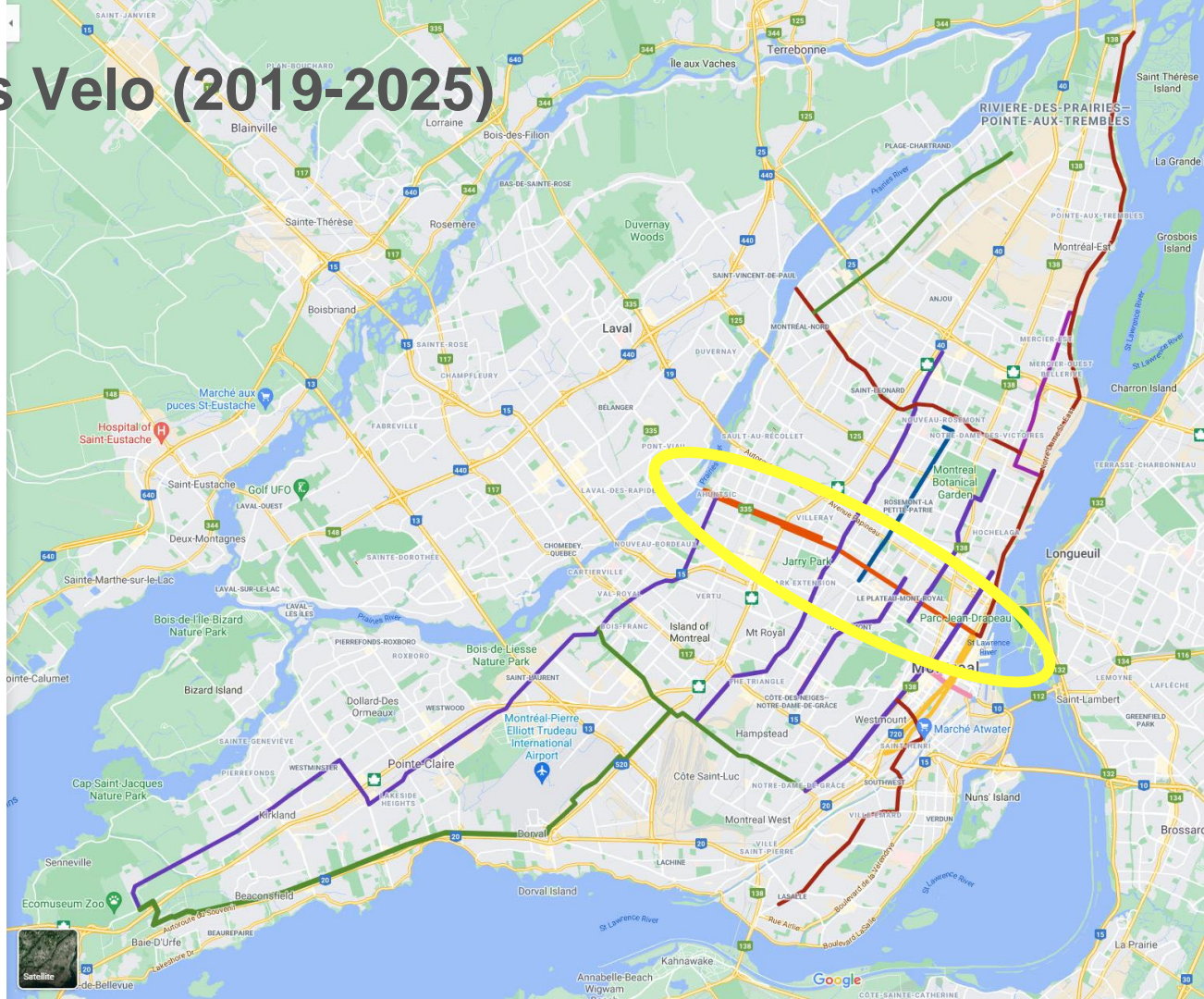
protected bicycle lanes

17 routes

accessible year-round

8ft

standard lane width



Recipe for a complete transformation

Saint-Denis prior to road treatment



≈ parking

÷2 travel lanes

+2 unidirectional protected bicycle lanes

← limited

→ pocket lanes

X midblock crosswalks

Recipe for a complete transformation

Saint-Denis since November 2020



≈ parking

÷2 travel lanes

+2 unidirectional protected bicycle lanes

← limited

→ pocket lanes

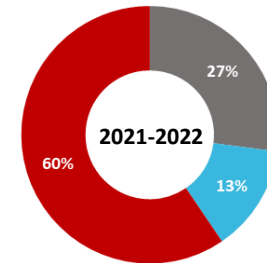
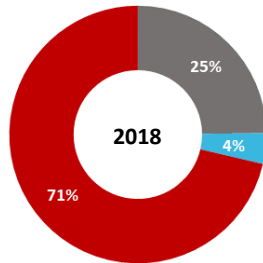
X midblock crosswalks

Recipe for a complete transformation

Saint-Denis prior to road treatment



Saint-Denis since November 2020



■ walking ■ cycling ■ driving











A person wearing a white helmet and a light blue t-shirt is riding a bicycle on a dirt path that runs alongside a river. The path is flanked by tall grasses and a dense line of trees with thick trunks. The scene is captured from a rear perspective, showing the cyclist's back and the path ahead. The river is on the left, and the trees form a canopy on the right. The overall atmosphere is peaceful and natural.

Data sources

City of Montreal's bicycle counts



Du 01/01/2022

au 20/10/2022

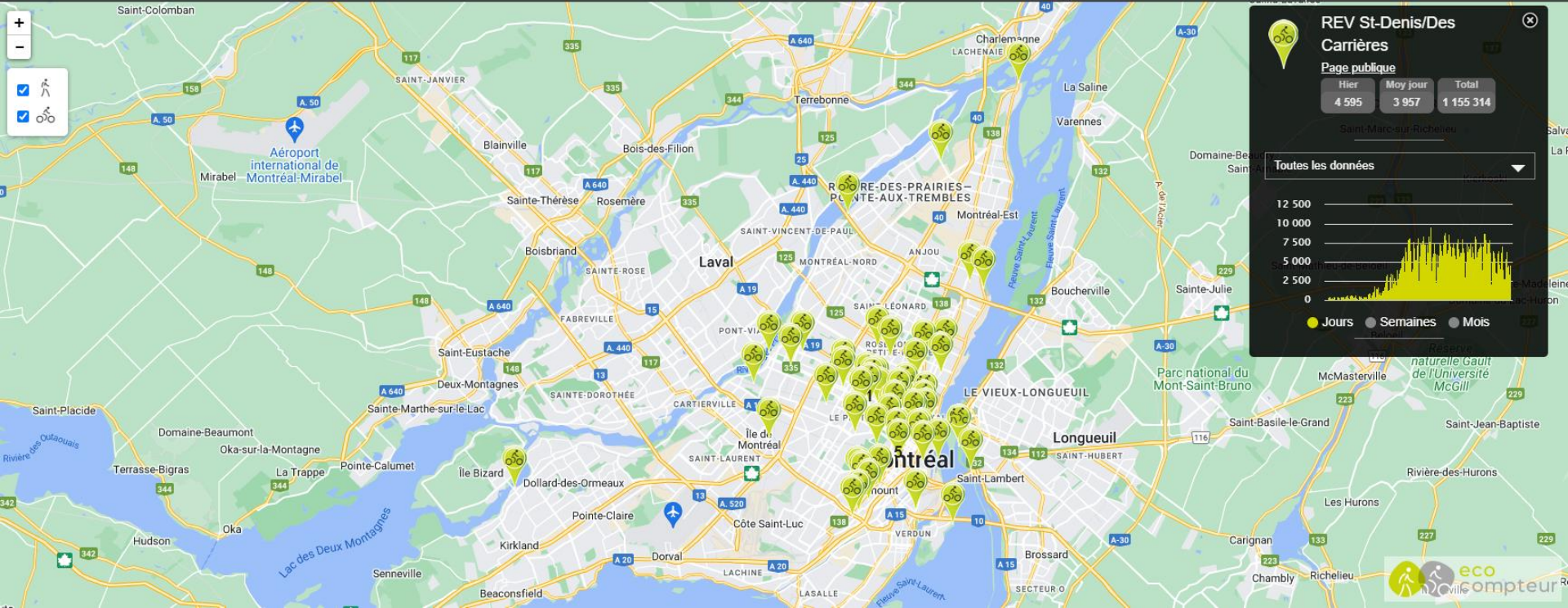
- 1. REV St-Denis/Des Carrières 1 155 314
- 2. REV St-Denis / Rachel 987 713
- 3. Berri / Ontario 941 713

Nombre de passages:

16 081 581

Moyenne journalière:

1 026



City of Montreal's open data portal

Montréal  Données ouvertes


Rechercher un ensemble de données

Rechercher

Reddition et performance du réseau 311 Ententes d'achats accordées
Parcs et installations sportives Comptages vélos sur les pistes cyclables

Nos données

 Agriculture et alimentation	 Économie et entreprises	 Éducation et recherche
 Environnement, ressources naturelles et énergie	 Gouvernement et finances	 Infrastructures

Montréal  Données ouvertes

Accueil > Catégories > Infrastructures

Bien démarrer





Données
Méthodologie
Territoires
Mots-clés
Info supplémentaire

Comptages des vélos sur les pistes cyclables

Publié par **Ville de Montréal**

Nombre de passages calculé au quotidien

Données

Titre	Format	Taille	Dernière modification	Télécharger
Localisation des compteurs	CSV	3KB	il y a 3 mois	
Vélos - comptage sur les pistes cyclables, 2022	CSV	3MB	il y a 12 jours	
Vélos - comptage sur les pistes cyclables, 2021	CSV	--	il y a 5 mois	
Vélos - comptage sur les pistes cyclables, 2020	CSV	3MB	il y a un an	

Montréal  Données ouvertes

Accueil > Catégories > Infrastructures

Bien démarrer

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Info supplémentaire

Comptages des véhicules, cyclistes et piétons aux intersections munies de feux de circulation

Publié par **Ville de Montréal**

Comptages des véhicules, cyclistes et piétons à la majorité des intersections munies de feux de circulation, ainsi que certaines intersections où l'installation de feux était à l'étude. Pour chacune de ces intersections, toutes situées dans les 19 arrondissements, le nombre de véhicules et de piétons a été relevé à différentes périodes d'une journée type. Les comptages peuvent parfois ne pas tenir compte de certains usagers (piétons, cyclistes, camions par exemple). À NOTER : depuis 2009, les relevés comprennent aussi le passage des cyclistes.

Les comptages furent réalisés dans le cadre de la mise aux normes des feux. Ce sont donc des comptages issus des services centraux et ne incluent pas les comptages faits par les arrondissements.

2018 short-term count campaign

Short-term automated counts from Fall 2018
 Extrapolation of short-term counts → ADT

ST. DENIS

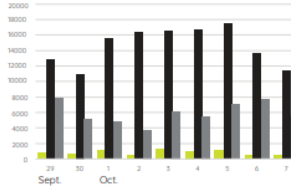
Short-Term Counts: Sept. 28 - Oct. 7, 2018



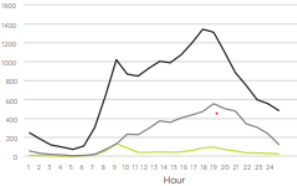
Street Space Allocation VS. Mode of Travel



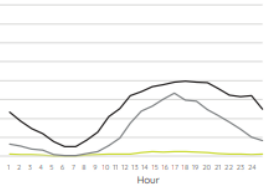
DAILY TOTALS BY MODE



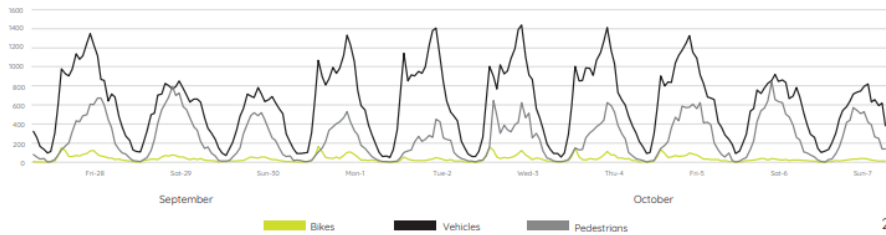
WEEKDAY HOURLY PROFILE



WEEKEND HOURLY PROFILE



DAILY PROFILE OF SHORT-TERM COUNT



27

ST. DENIS

Seasonal Estimates: April 15 - November 15, 2018



Street Space Allocation VS. Mode of Travel



-7%
less than the study area's total share of bikes



233,000
bike passes

9.2%
of the study area's total bikes

13%
greater than the study area's total share of vehicles



3.3 mil.
vehicle passes

27.6%
of the study area's total vehicles

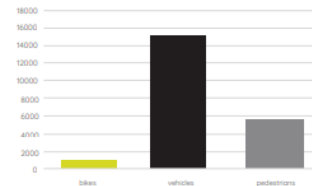
-6%
less than the study area's total share of pedestrians



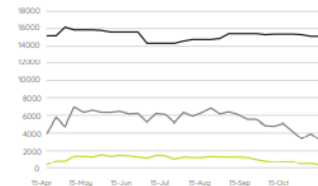
1.2 mil.
pedestrian passes

18.0%
of the study area's total pedestrians

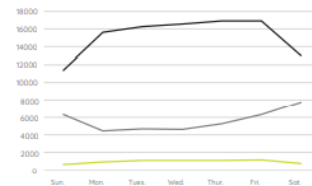
DAILY AVERAGE



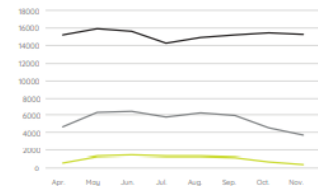
DAILY AVERAGE BY WEEK



DAILY AVERAGE BY DAY OF WEEK



DAILY AVERAGE BY MONTH



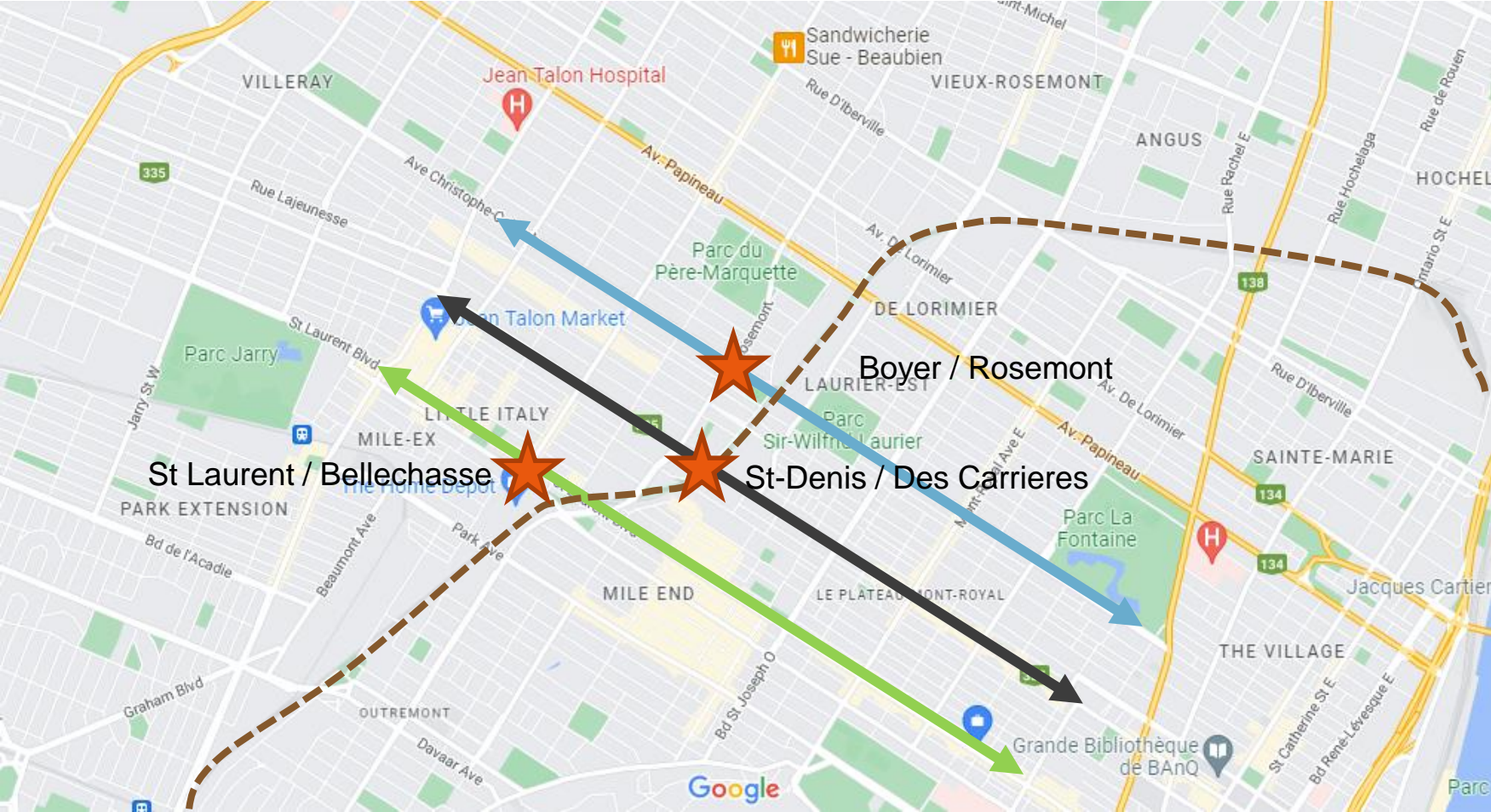
28



Results

Performance of the new protected bicycle lanes

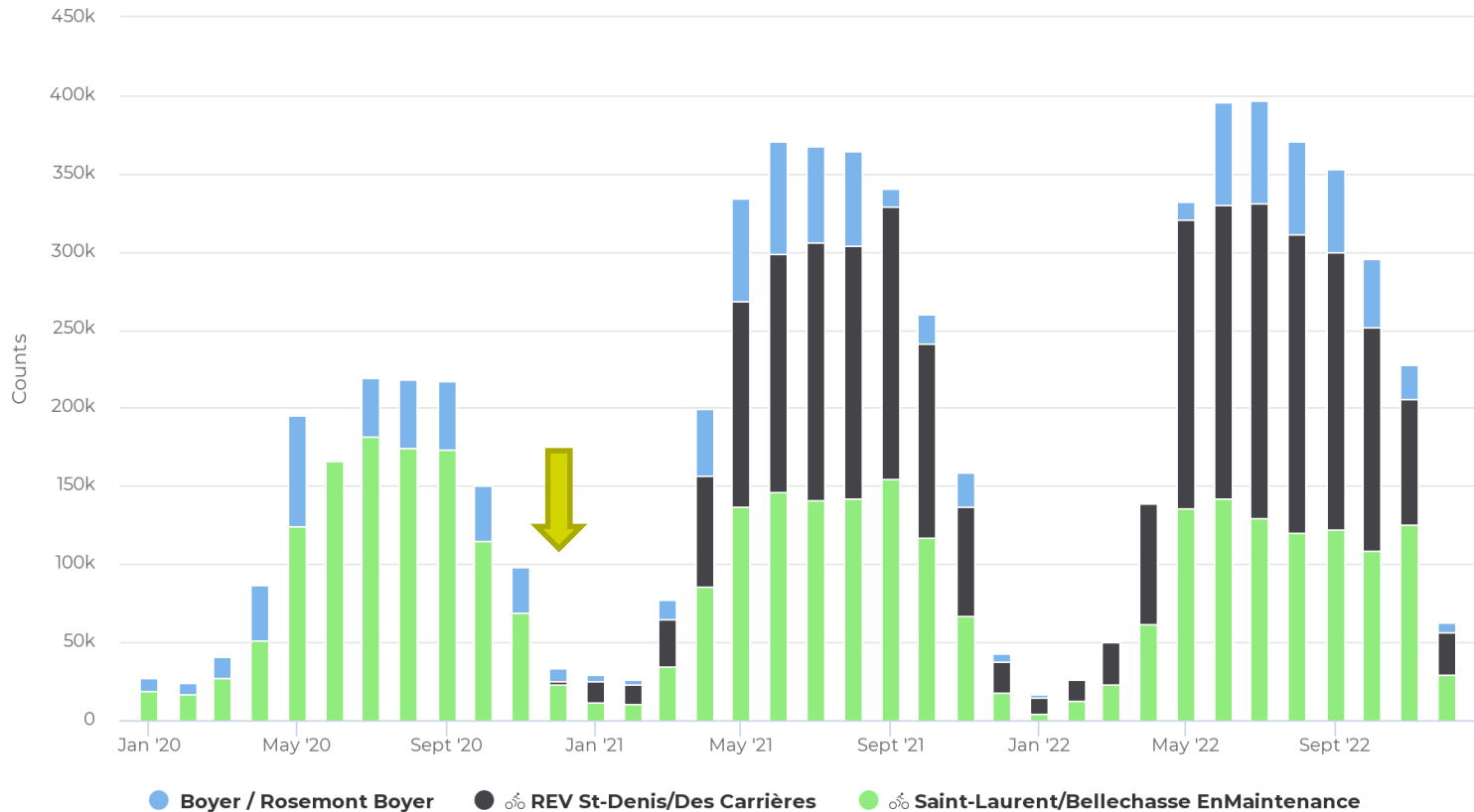
Comparing North/South protected bicycle lanes



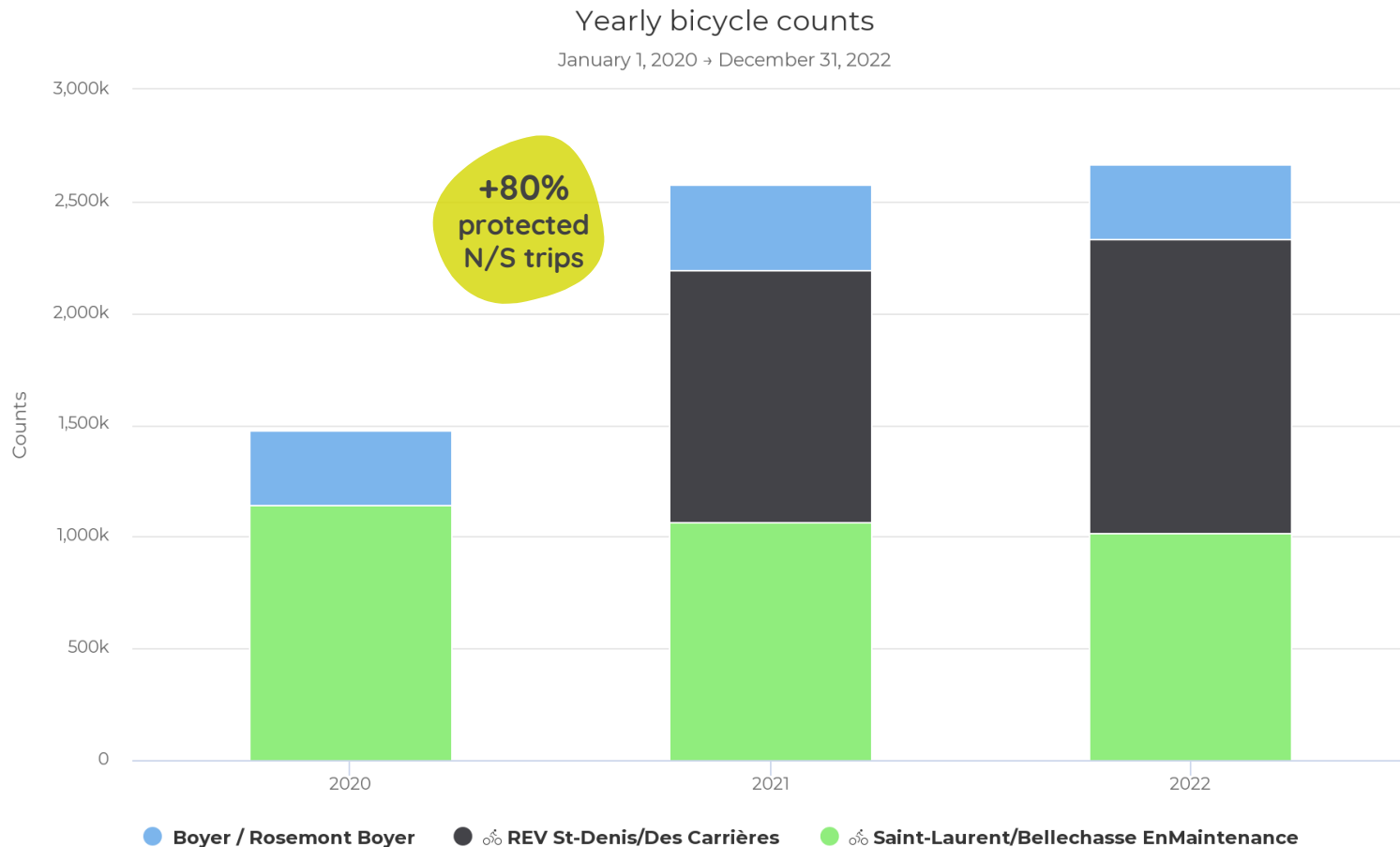
REV Saint-Denis, an instantaneous success...

Monthly bicycle counts

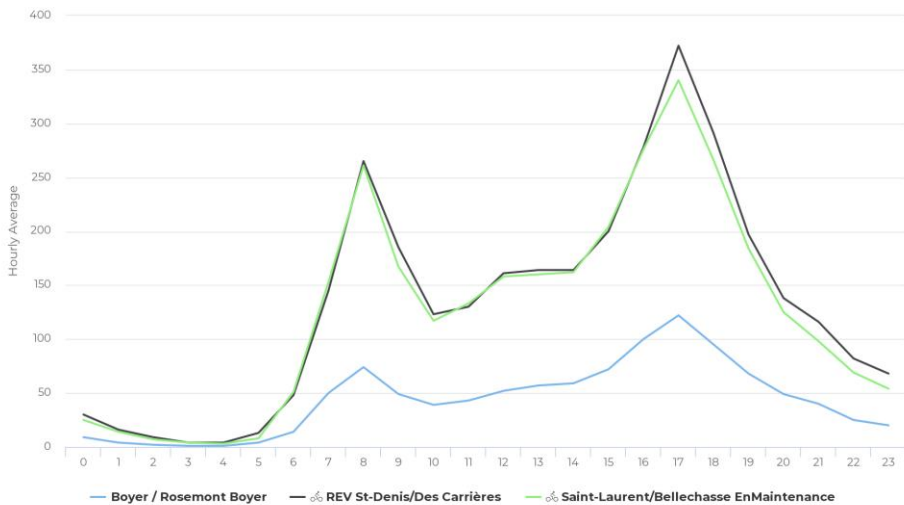
January 1, 2020 → December 31, 2022



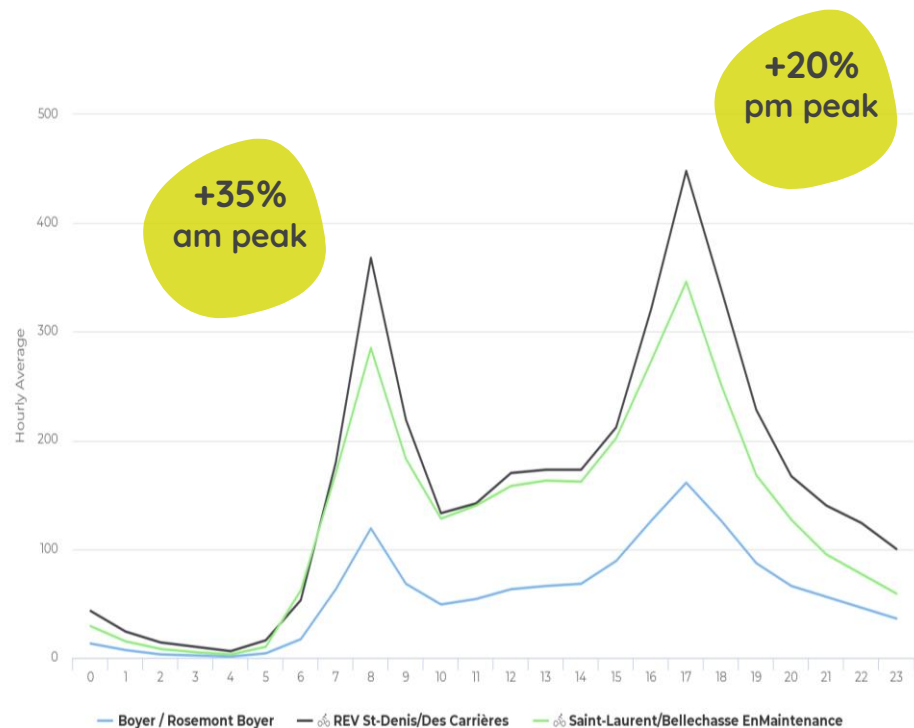
... boosting safe cycling year after year...



... on weekdays...

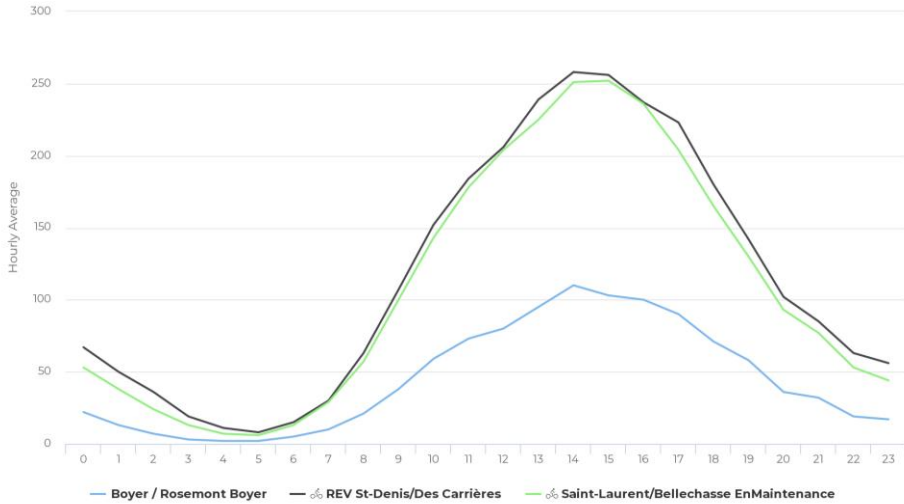


2021

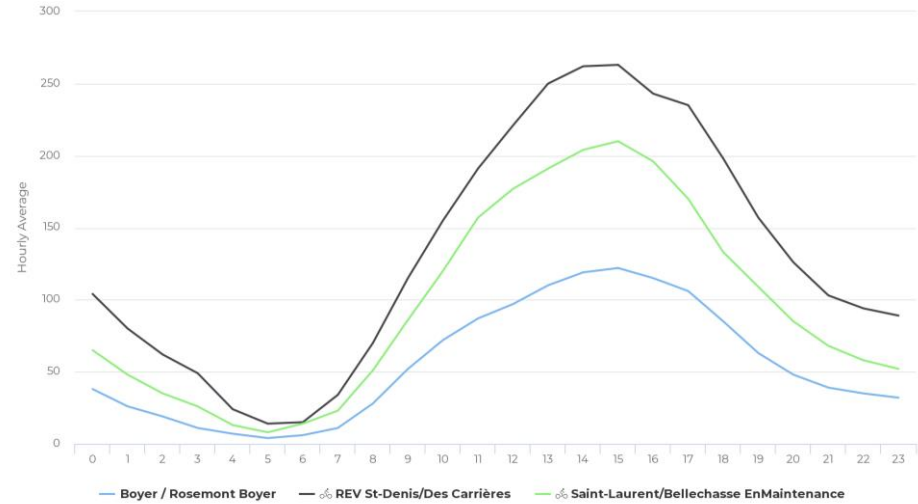


2022

... and weekends



2021



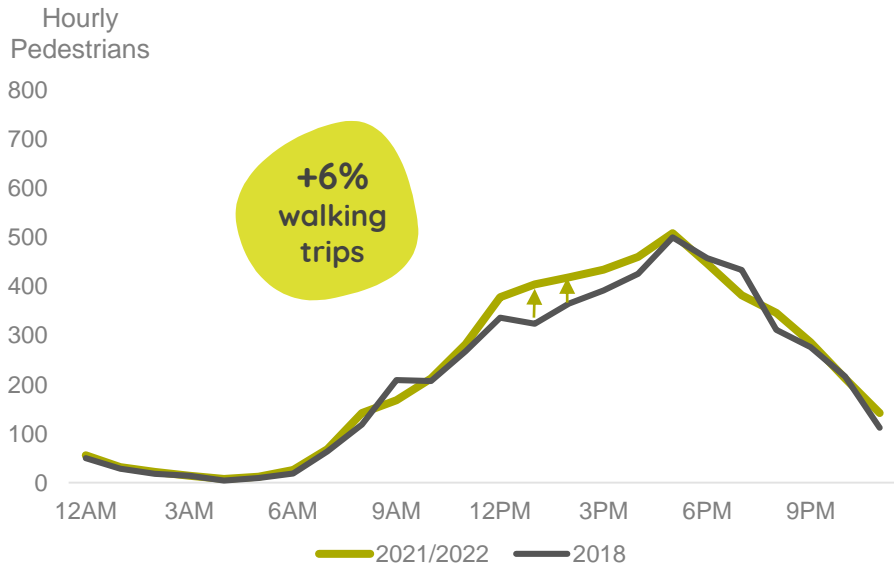
2022

Who are they?

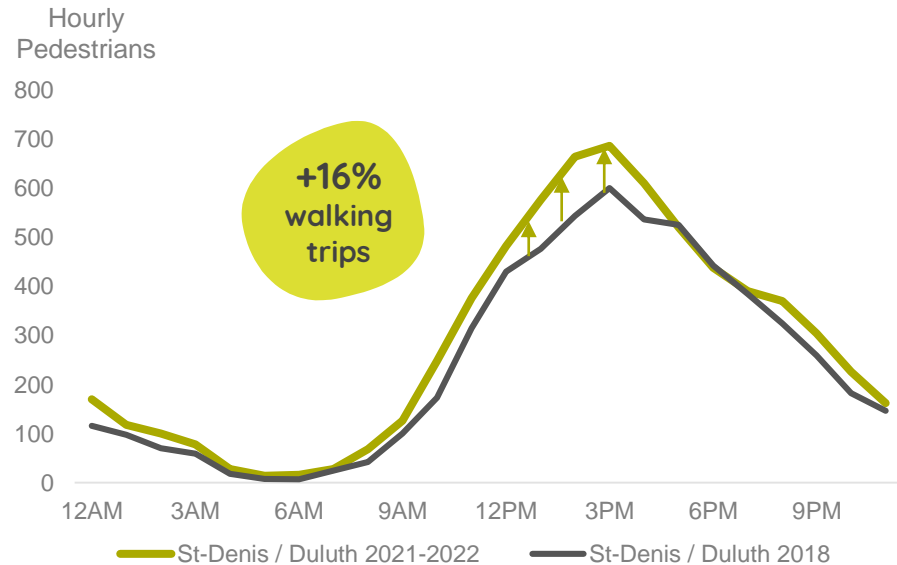
A before/after comparative analysis
to evaluate the Complete Street performance

— Pedestrians: enhanced shopping experience

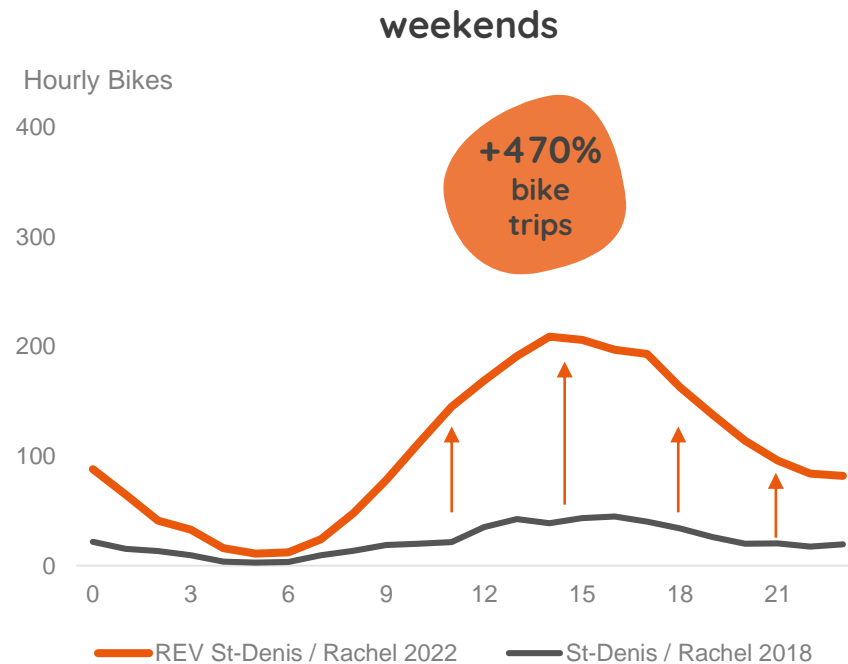
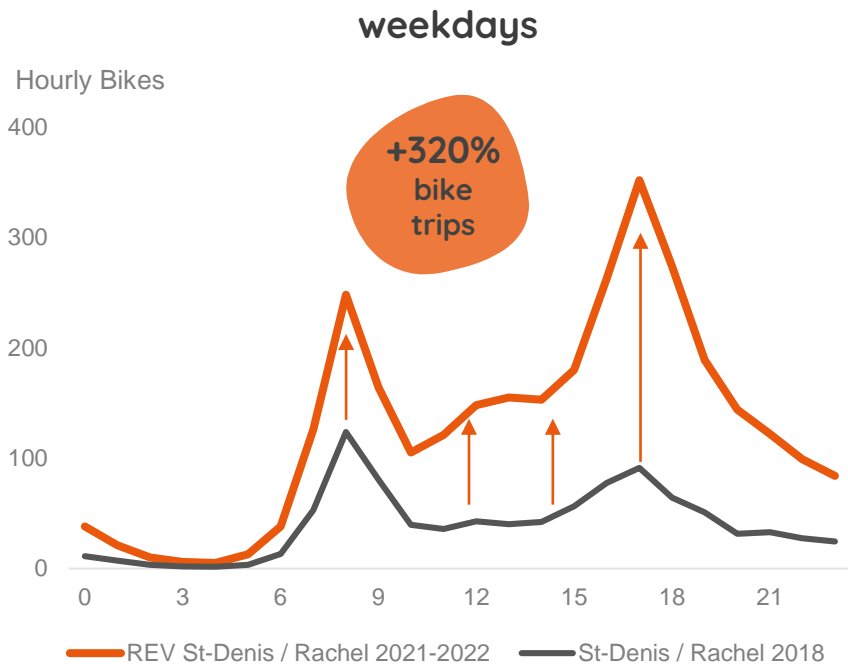
weekdays



weekends



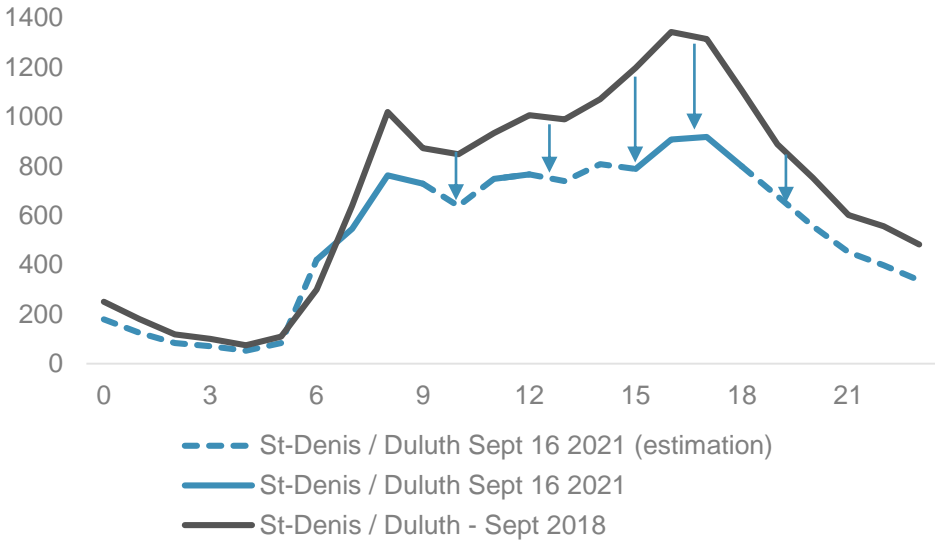
Cyclists: commuting and riding for leisure



Drivers: less commuting, more shopping

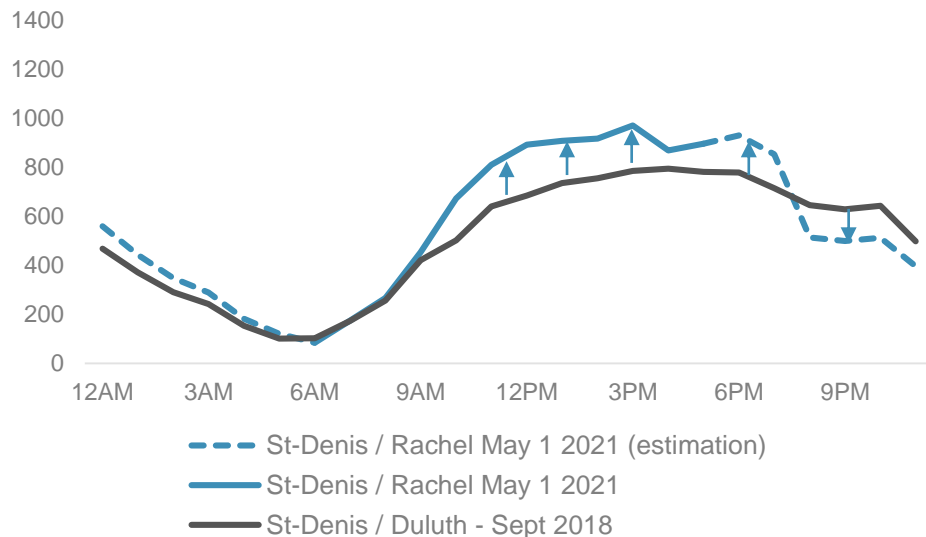
weekdays

Hourly vehicles

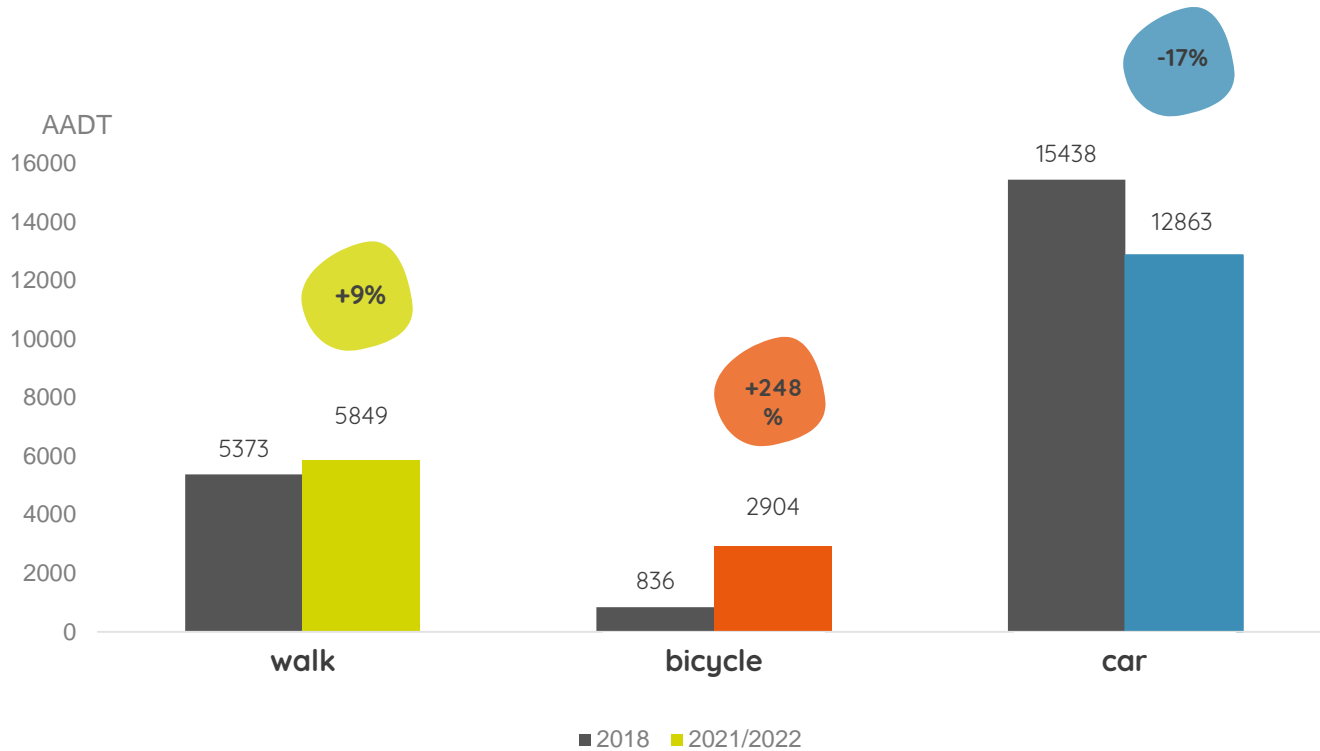


weekends

Hourly vehicles

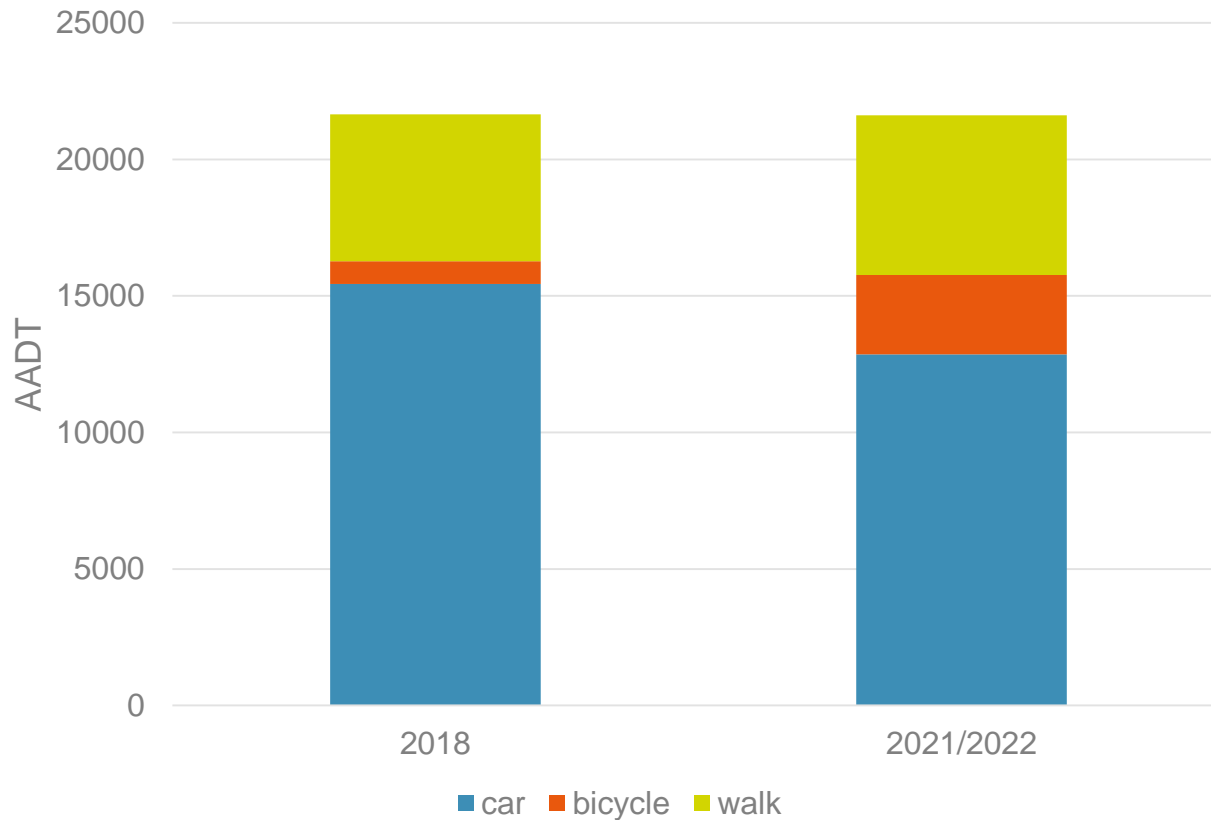


Shifting transportation habits



Summary

Keeping the throughput



— Key figures

from 4% to 13%

bicycle mode share (20-25% in the summer)

+10%

walking mode share

-17%

car mode share, despite travel lanes being halved

=

as much throughput as before!

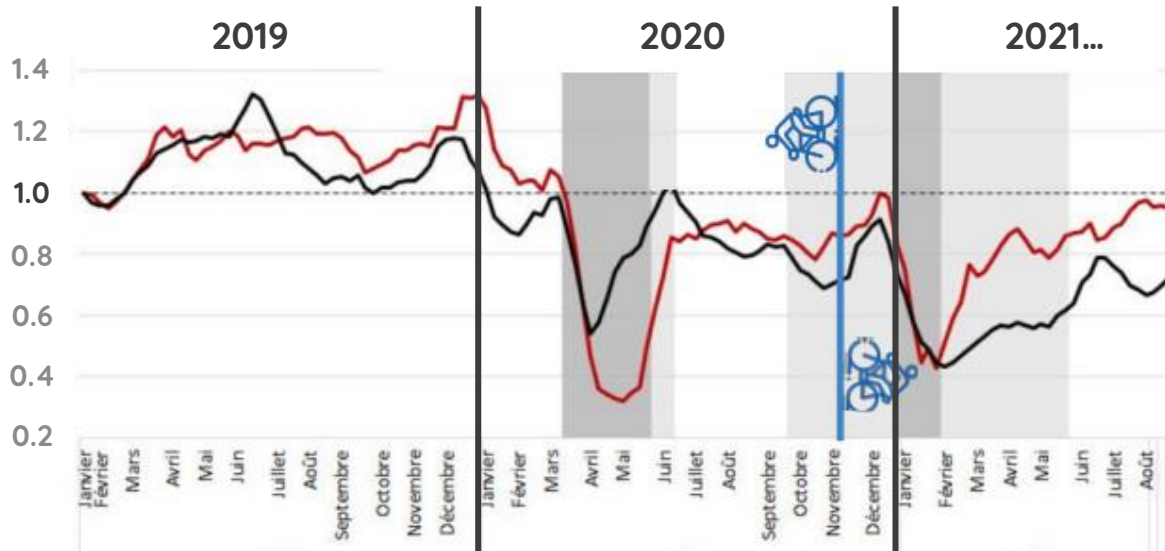
+320% / +470%

cyclists on weekdays / weekends

37

new stores in 2021

Economic resiliency



95%
vs.
70%

- St-Denis Street
- St-Laurent Street
-  Opening of the REV



Thank you.

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