

**Understanding the e-scooter context** 

#### Once upon a time ... June 2018

Shared e-scooters were supposed to replace trips made by car... according to operators



Surveys and studies have been made in Paris since...



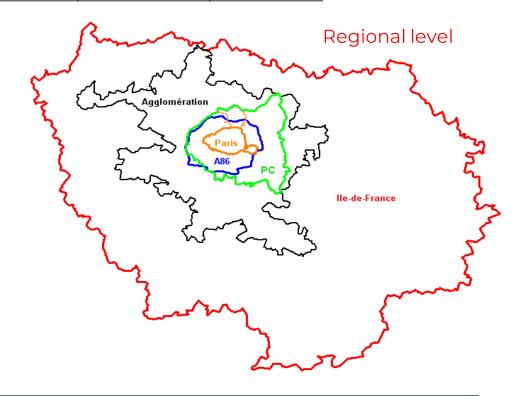
## **City context - Key figures**

	IDF	Métropole du	City of	City of	City of	City of	City of
	Region	<b>Grand Paris</b>	Paris	Rome	Barcelona	London	Berlin
Area in km²	12 000	814	105	1 285	101	1572	892
Population	12 m	7 m	2.2 m	2.8 m	1,6	8,9 m	3,7 m
Density per km <sup>2</sup>	1 000	8 600	20 000	2 213	16 000	5667	4203
Jobs	6.3 m	4.2 m	1.8 m				

#### **Jurisdiction**

The organizing authority for transport and mobility is the Region

- The city of Paris has responsibility for :
  - traffic and parking regulations
  - roadway and public space maintenance



## **Mobility patterns in Paris**

- High-quality and dense public transport system
- More than 1000 km bikes lanes in 2020
- Carsharing offers (station based for round trip and FF basis)

#### Only

- 33,6 % of Parisian households own a car\*
- 11% of economically active Parisians commute by car\*

#### An ideal environment for shared micro-mobility

Vélib' and Vélib' Métropole: docked-bike public service since 2007

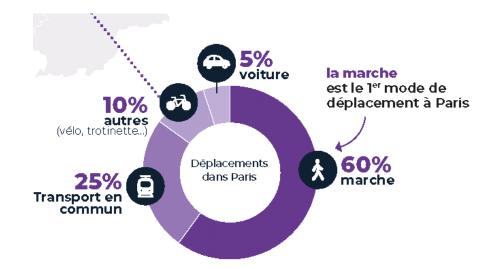
20 000 bikes (40% e-bikes)

>1000 stations in Paris every 300 meters

10 trips/bike/day during high season

Shared Micro-mobility: private supplies

+35 000 dockless vehicles/devices (mopeds, e-scooters, bikes)







## Lack of legal national framework until 2019

A progressive regulation starting from charters of good conduct to tenders

2018 2023 2019

1st e-scooter

April May July

October

December

Fee regulation of Good

Charter Conduct Implementation of Operational permits

No prescriptions but data sharing becomes mandatory

National decree defining "powered personal mobility devices" in the Highway

code

**National legal** framework: French **Mobility Orientation** Law (LOM in French)

Allows cities to instore some requirements specifications when delivering operational permits

A tender was launched to cap fleets



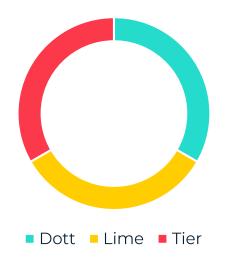






## From September 2020: 15 000 shared e-scooters – 5000 per operator

#### 15 000 shared e-scooters



2 years permit (but extended for 6 and 5 months)

Main criteria selection

- safety for users (30%)
- environmental responsibility (40%)
- ability to manage and maintain their scooter fleet (30%)

Annual fees voted in 2019: average fee **61€ per e-scooter**Yearly revenue for the City: **907 000 €** (300 000 € per operator)

Speed: 20km per hour as per a mutual agreement





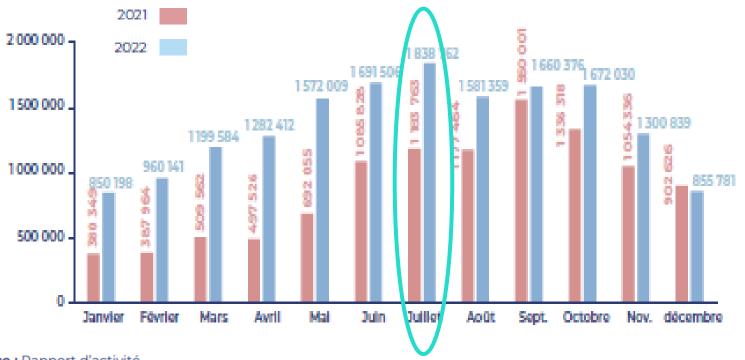
Parking: only allowed on the parking spots on a contract basis

Operators should use 1/3 of each spot



## Paris: the place to be for shared e-scooters

- The number of trips increased by 52,5% from 2021 to 2022
- 16 500 000 trips in 2022 according to operators
- 60 000 trips per day in July 2022: almost 4 trips per e-scooter per day



Source : Rapport d'activité des opérateurs (Dott, Lime et Tier) transmis à la Ville de Paris

In 2022 trips are longer:

Average distance : 2,62 km Average duration : 14,3'



Male, young people and executives are highly represented among users

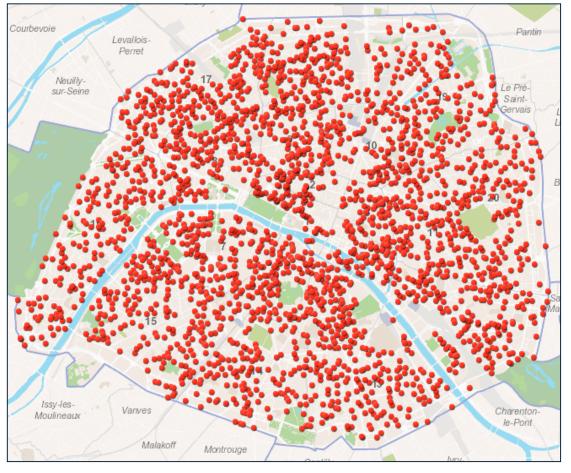
- 29% of students would use escooters and only 12% would use Vélib' (12%).
- According to previous surveys there
   is a democratisation for this modes

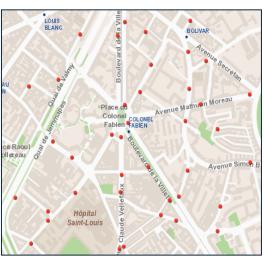


# Paris invested 1,9 millions € to create 2500 parking spots for 15 000 🛴



Data was used to define parking location every 150-200 meters. E-scooters were no longer allowed to be parked on the sidewalk. Parking in the specific spots became mandatory according to the permit.







No parking spots in central and pedestrian areas





## Still, non-compliance with parking obligations









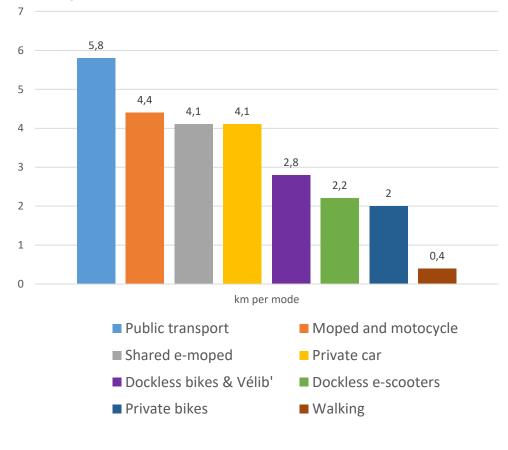


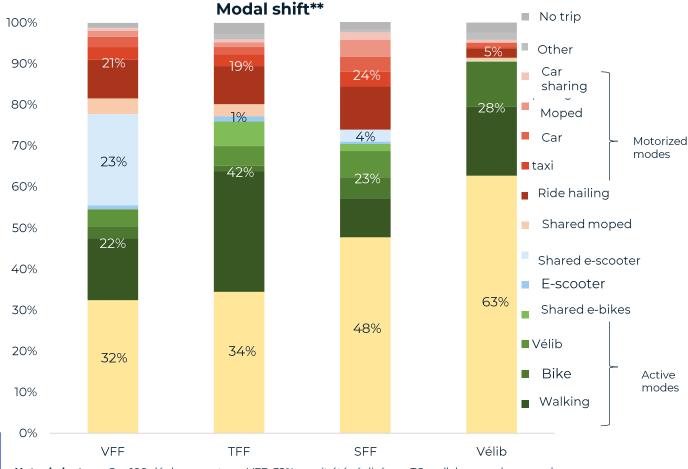


Which micromobility (MM) should be enhanced in a dense city like Paris? enhanced in a dense city like Paris?

#### How to boost active & more sustainable MM modes where public space is rare?

#### Average trip distances per mode (km)\*





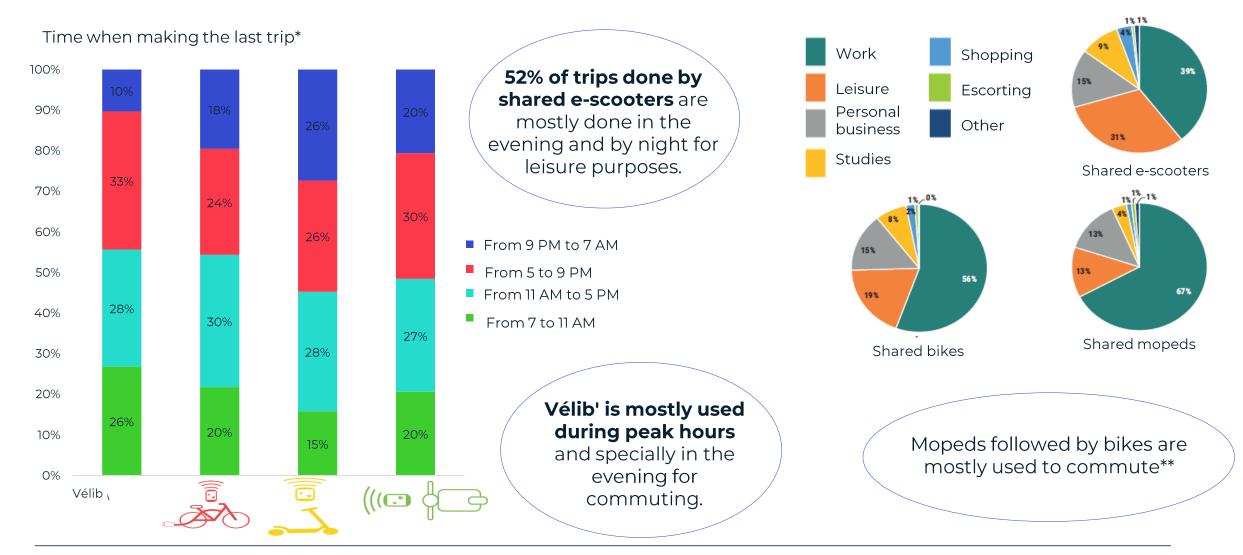
Uses and users are different when comparing shared e-scooters with owned e-scooters





## Which shared MM should be increased to improve daily commute?

Shared e-scooters are mostly used in the evening & by night

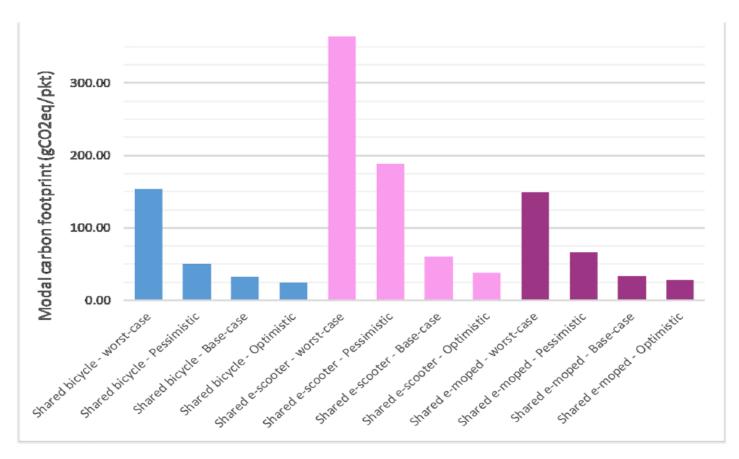




#### Which shared MM should be enhanced to reduce environmental impact?

In Paris, shared bikes have a better environmental impact followed by mopeds

Carbon footprint of the shared micromobility modes depending on lifespan scenario\*



How do batteries affect the environment?

What are the associated costs?

Fig. 4. Carbon footprint of the shared micromobility modes depending on the lifespan scenario.





# Merci

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