

# Emerging mobility solutions and their impact on practices

Corporate Partnership Board of the ITF - October 1st 2019 - OECD

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## Understanding emerging mobility services





- **+ WHO USES THEM?**
- + **HOW?**
- **+** HOW DO THEY IMPACT TRADITIONAL MODES?
- + HOW DO THEY FIT WITHIN THE ECOSYSTEM OF ALTERNATIVE TRANSPORT OFFERS ?

The case of France: user surveys conducted by 6t between 2015 and 2019



## Dockless bikes (2018 user survey, Paris)



#### **Use patterns**

- + Occasional uses: 63% 1-3 times in total, 31% 1-3 times per week, 6% almost everyday
- Mostly leisure: only 17% of home-work trips (38% of regular bike trips)
- + Intermodal practices: 27% of intermodal trips (9% of regular bike trips)
- + 5,25 km per trip on average
- + 4,8 trips per month/user

#### **Users profiles**

- + Young users (59% below 35; 38% of the Parisian population), mostly men (68%) working as executives and in higher intellectual professions (68%)
- + Not former bikeshare users : 52% had never used Vélib', 2/3 had never used a bike

#### **Impacts**

- + Change in **public transport** use: 45%. 9% decrease in frequency, 34% marginal impact.
- Walking: 32% changed. 6% decrease, 22% marginal impact
- + Vélib': 28% changed. 17% decrease, 9% marginal impact.
- + No impact on car equipment
- Without the service, 42%
   would have used public
   transport, 25% walked, 1%
   only would not have been able
   to travel.

An occasional practice with a non-inclusive user base, but a service that allows for experimentation



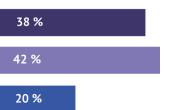
## Dockless scooters (2019 user survey, Paris)



#### **Use patterns**

- Mostly used for leisurly trips (strolls or going out),
- + 23% of trips are intermodal
- + On average, **4,7 kms per trip.** 59% of trips between 1 and 4 kms). 11% of trips above 10 kms (long strolls)
- + **4,10 trips** per month per user

Regular users (at least 1/week)
Occasional users (1-3/month)
Single users (only once)





**26** % each on a different scooter



**10 %** on the same scooter



## Dockless scooters (2019 user survey, Paris, Lyon, Marseille)



#### **Users profiles**



- + **58% local users**, 9% foreign tourists, 33% French tourists
- + Young (36 on average), men (66%), executives and higher intellectual professions (53%)

#### **Impacts**

- + Without shared e-scooters, 44% of local users would have walked, 33% would have used public transport.
- + Only 3% would not have been able to travel.
- + 12% say that shared e-scooters changed their use of the private car; only 4% would have used a car without an e-scooter.
- + Shared e-scooters would represent a modal share of 0,8% to 1,9% in Paris, after only 1 year in service.

Shared e-scooters: a bit of fun makes public transport more acceptable? A new demand for cycling infrastructure?



## Motorscooters (2019 user survey, Cityscoot, Paris)



#### **Use patterns**

- + 22% of trips are home-work trips (highest among the services considered)
- + Without Cityscoot, 48% would have used public transport. Only 0,5% would not have been able to take that trip.
- On average, 5,4 km per trip.
- + 6,5 trips per month per user: intensive use. 51% of users use Cityscoot at least once a week.
- + 20% intermodal trips (63% linked with public transport)

#### **Users profiles**

- + 9 users out of 10 are men
- + Young users: only 24% are above 45 (45% of Parisians)
- + 55% in higher professional and intellectual professions (29% in Paris)

#### **Impacts**

- + 4% of users let go of a private motorscooters
- + 13 private motorscooters
  (mostly combustion engines)
  are replaced by 10 emotorscooters.
- + Other modes impacted: public transport (53%), ridehailing (36%) and walking (21%)
- + 14% say that they changed their use of the private car since they started using the service; only 3% would have used a private car without Cityscoot.

A specific client-based displaying an intensive use that remains stable overtime. A fast and pleasant alternative to public transport.



## Carsharing (User survey, France, 2016)



#### **Use patterns**

- + 2,15 rentals per month per user
- Mostly used for shopping (29%), visiting friends or relatives (24%) leisure activities (23%)
- One-way carsharing is used more + during the week and for workrelated trips
- 1,87 passengers per trip: 1,88 for round-trip, 1,66 for one-way.
   (1,4 on average for private cars in France)
- + Average distance: 38 kms for one-way (median: 19), 83 km for round-trip (median: 35).

#### **Users profiles**

- Moving away from the « early adopter » profile: older than other services (45 years old on average), 54% men, 63% executives
- 70% live in the central city of their metropolis → complementarity with other modes

#### **Impacts**

- + Without carsharing, 1 in 3 users would not have been able to travel (22% one-way, 32% round-trip)
- + 31% of households were carfree before-> 77% after starting to use carsharing
- + 48% of abandoned cars due to carsharing
- + Public transport use increases (+0,2 times/month/person)

Carsharing helps users go car-free and only works when other alternatives transport modes are available



## Ridehailing (Uber user survey, 2015 & 2018)



#### **Use patterns**

- + On average 2,9 trips per user per month.
- + On average, **8 kms** per trip (11km for taxis). 50% below 6 kilometers.
- + 1,8 passengers per car per trip (1,7 for taxis)
- Uber users use public transit, bikesharing and carsharing more than average

#### **Users profiles**

- Young (37 on average), but getting older (29 in 2015). 55% executives (66% in 2015)
- Only emerging service displaying an overrepresentation of women:
   62% (48% in 2015)
- + From 38% (2015) to **61% of** users living in the suburbs
- + 66% of Uber users have a public transport subscription, while it is the case of only 38% of Ilede-France residents.

#### **Impacts**

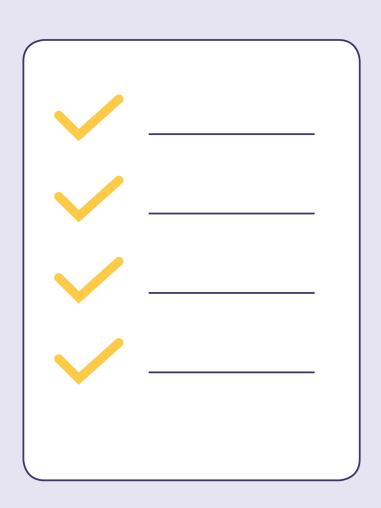
- Impact on car equipment :
   -3,6 to -4,9 cars for 100
   households because of Uber
- + 40% are making new trips thanks to Uber (53% among users without a driver's license)

A diversifying user-base, a service that complements public transport and accompanies demotorisation



## All in all





- ✓ Shared e-scooters are a fun new option, and are used in an intermodal way. They are an addition, users do not rely on them.
- ✓ Shared e-motorscooters are an alternative to public transport for relatively well-off male users; users rely on them intensively.
- ✓ **Dockless bikes** allow users to experiment cycling and make intermodality easier.
- ✓ Carsharing and ridehailing contribute to demotorisation within an efficient public transport offer.

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