



Emerging mobility solutions and their impact on practices

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

Marion Lagadic
Project Manager at 6t



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)

38 %

Occasional users (1-3/month)

42 %

Single users (only once)

20 %

38% of collective trips



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 e-motorscooters**.
- + **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 work-related 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 Ile-de-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.



References

6t-bureau de recherche, 2015. *Usages, usagers et impacts des services de transport avec chauffeur, enquête auprès des usagers de l'application Uber*, 221 pages. <https://6-t.co/etude-inedite-sur-limpact-duber-sur-la-mobilite-des-utilisateurs/>

6t-bureau de recherche, 2015. *Portrait du taxi en France, Données sur l'usage et les usagers des taxis en France à partir du panel des usagers 6t*, 12 pages. <https://6-t.co/portrait-du-taxi-en-france-panel-6t/>

6t-bureau de recherche, 2016. *Enquête Nationale Autopartage – Mise à jour 2016 – Analyse des enquêtes*. 77 pages. <https://6-t.co/enquete-nationale-autopartage-edition-2016/>

6t-bureau de recherche, IAU, LVMT, Orfeuill, 2018. *L'impact du service Uber sur l'utilisation de la voiture en Île-de-France*, 109 pages. <https://6-t.co/impact-uber-idf/>

6t-bureau de recherche, ADEME, 2018. *Étude sur les impacts des services de vélos en free-floating sur les mobilités actives*. 86 pages. <https://www.ademe.fr/etude-impacts-services-velos-free-floating-mobilites-actives>

6t-bureau de recherche, 2019. *Usages et usagers des trottinettes électriques en free-floating en France*, 158 p. <https://6-t.co/trottinettes-freefloating/>

6t-bureau de recherche, 2019. *Enquête auprès des utilisateurs de Cityscoot à Paris*. 117 p. <https://6-t.co/enquete-cityscoot/>



6t-bureau de recherche

58 rue Corvisart

75013 Paris

Tel : +33 1 53 09 26 36

Mail : info@6-t.co