

Micromobility
Challenges and Opportunities
The Perspective of Polis Cities & Regions



Karen Vancluysen, Polis Secretary General

Peer-to-peer exchange

Policy

Research

Innovation

78 Cities & regions















Towards a transport transformation...?

























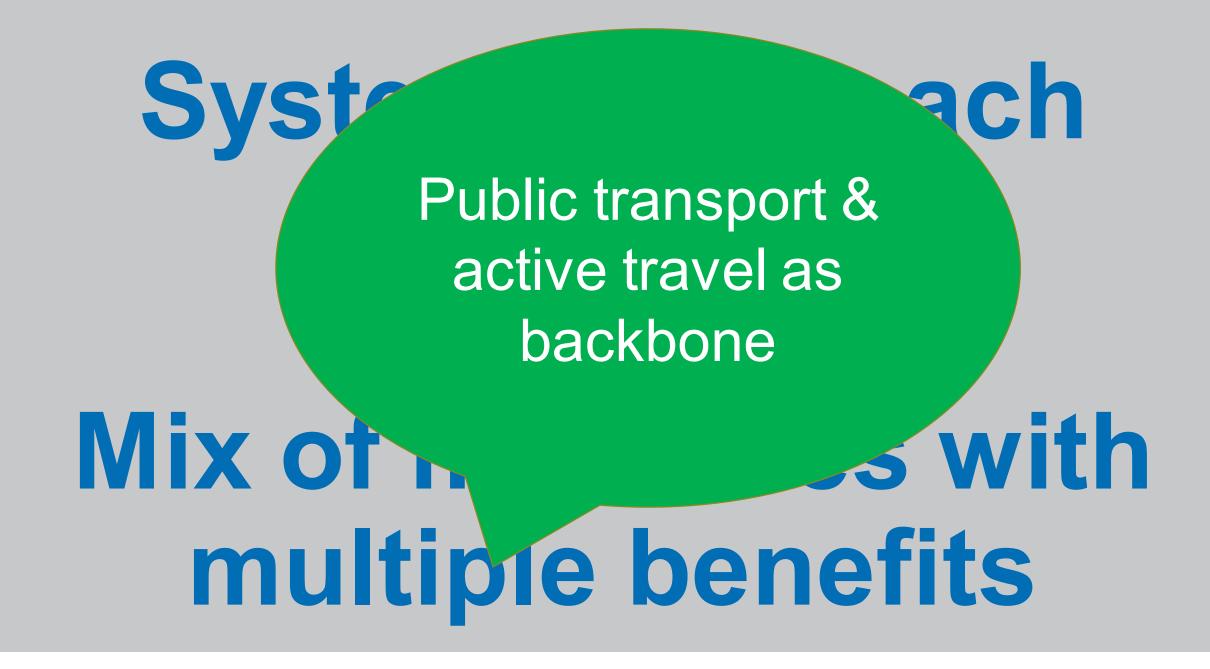














Changing role of the local authority

Multi-faceted

- Policy formulation
- Rules and regula
- Service deliver
- Traffic manage

Expanding role pl

- New mobility ser
- Open data

Changes in customer expec

Technological advances

What should be the role of the local authority in the transport system of tomorrow?





Regulate to innovate!

Anticipate

Build understanding of possible impacts

Identify where innovation can deliver positive outcomes and where there are risks

Talk & cooperate – ppp's, new business models

Define measures - policy, financial, regulatory - to maximise opportunities and minimise disbenefit

Carrots & sticks

Lead by example

Need for public sector oversight

Cities should be in the driver's seat!



Dialogue

- Dublin
- lle-de-France
- Leuven
- London
- Paris
- Manchester
- Emmen
- Madrid
- Lille
- Aarhus
- Czestochowa

- Rome
- Budapest
- Gelderland
- Norwegian Road Authority
- London Councils
- Lisbon
- Noord-Brabant
- Barcelona
- Arnhem Nijmegen
- Brussels

- International Transport Forum
- Open Transport Partnership & Shared Streets
- German Marshall Fund of the United States



















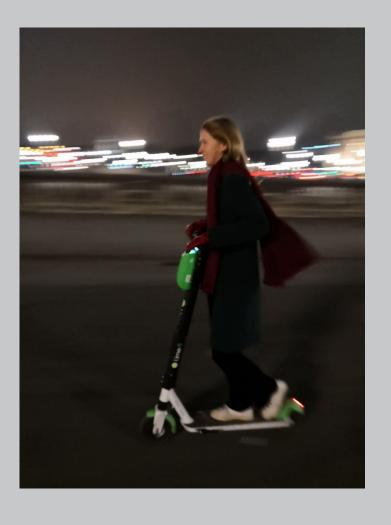




Micromobility

Linking into key policy areas & public authority interventions such as:

- Electromobility: extending range of cycling
- Urban space & parking management
- Active travel including safety & health
- Environment & congestion: Modal shift
- Data sharing and integration







Electromobility





The public authority as urban space manager



Active travel

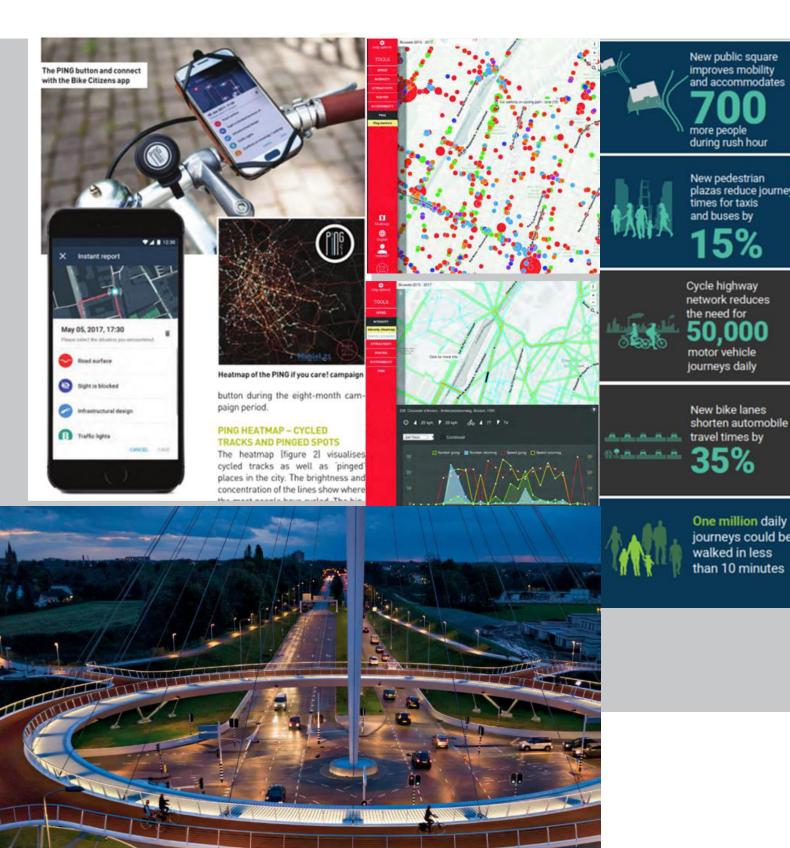
Multiple gains

- cleanest modes
- fighting sedentary lifestyles
- tackling obesity
- quality of life

Collect evidence

Prioritise: Make space

- street design
- dedicated infrastructure





fewer inner-city

journeys made by

motorised modes

could be cycled in

School Streets

6.47 million



Active travel

Extending the range: e-bikes, supercycle highways Aarhus: high-quality commuter cycling routes with increase of number of cyclists using the route of 20 to 30 % in two years e-scooters...? though not health benefits of cycling and walking... where do they fit? safety concerns parking



The impact of free-floating bikes on active travel

ADEME study in Paris (2018)

1/5 is a student

60% < 35 year-old

2/3 are men

68% are executives

40% never used the bicycle before

63% are now (sometimes/often) walking more to find an available bike

55 % had never used Vélib' before



E-scooter safety

Scooter company recently published scooter safe concluder SCOOL bicycle similar risks

Improve vehicles Adapt infrastructure

cooter Safety

Examining risks, reviewing responsibilities, and prioritizing prevention

April 2019



Bikes

(2017 study in high-income countries)

59 emergency department visits per 1 million miles cycled

Bird

(based on injuries reported directly to Bird by riders)

reported an injury rate of 38 injuries per 1 million miles for scooters



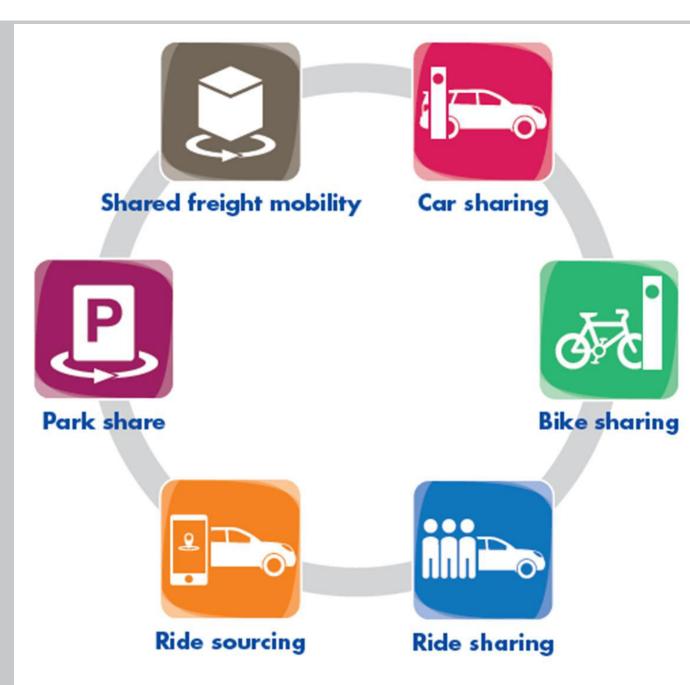
Environment & Congestion: Modal shift?

Complement not compete with traditional mass transit

- Fill service gaps
- Specific target groups, specific areas, last mile

Modal shift

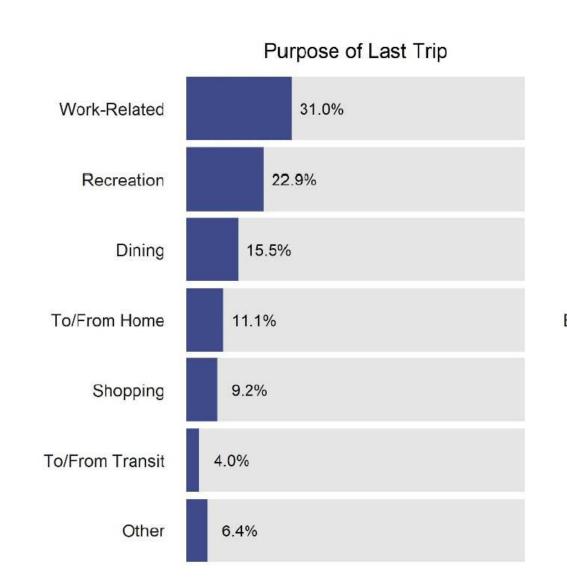
- Undesired modal shift?
- Need for evidence on actual impact of new mobility services on modal shift

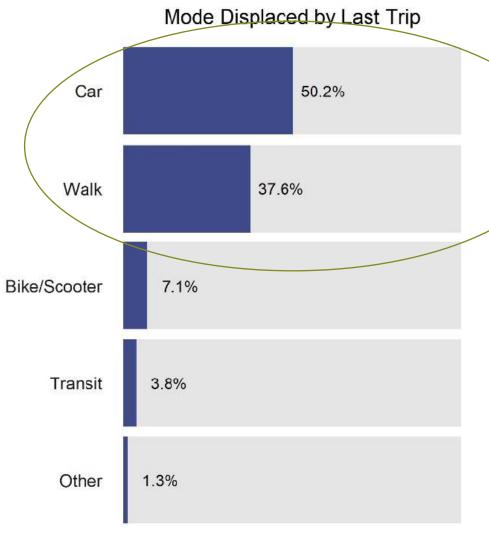




Modal shift

Figure 3 Travel Habits and Travel Behavior: Purpose of last trip and mode displacement





City of Santa Monica

Shared Mobility Device Pilot Program

User Survey Results

Conducted 01-25-2019 to 02-15-2019



Modal shift

Lisbon, Portugal (EU)

Lime has worked hand in hand with officials in Lisbon to craft a solution that fits the city's unique transit needs, and it's paying off. In just two months, 53,000 riders in the Portuguese capital have traveled on Lime electric scooters.

Perhaps most striking is the number of riders here who report using Lime to commute to or from work and school. At 57%, Lisbon is the highest-rated city in this category.



53,000

_

OF LIME RIDERS IN LISBON REPORTED TRAVELING TO/FROM SHOPPING OR ERRANDS DURING THEIR MOST RECENT TRIP 27%

OF LIME RIDERS IN LISSON
REPORTED TRAVELING TO/FROM
DINING OR ENTERTAINMENT
DURING THEIR MOST RECENT TRIP

21 % of Lime riders in Lisbon reported replacing a trip by car during their most recent trip

57%

OF LIME RIDERS IN LISBON REPORTED COMMUTING TO/FRO WORK OR SCHOOL DURING THEI MOST RECENT TRIP 21%

OF LIME RIDERS IN LISBON REPORTED REPLACING A TRIP BY AUTOMOBILE (PERSONAL CAR, CARSHARE OR TAXI/ RIDESHARE) DURING THEIR MOST RECENT TRIP



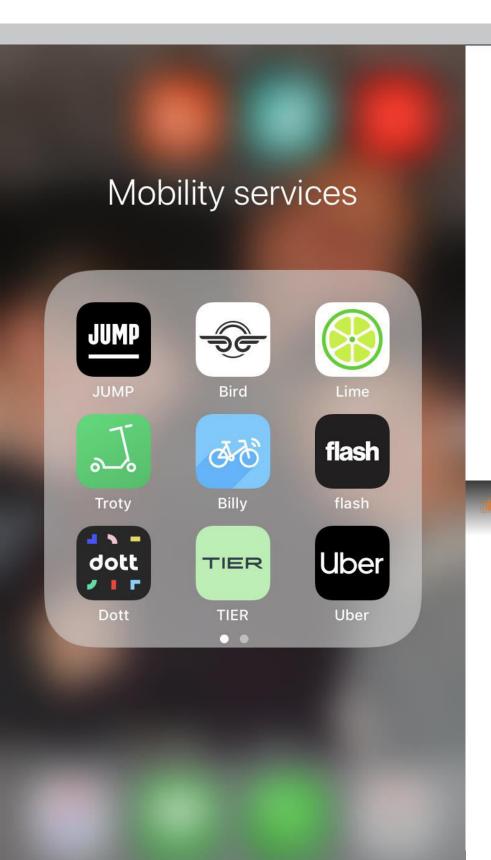
Modal shift

Survey by 6T among Lime users in Paris, Lyon and Marseille:

- 66% are men (cyclists: 60% men)
- 42% are tourists or visitors
- 53% higher positions, 19 % students
- 7% of users rent one every day, 1/3 once a week
- 39 % of trips during the weekend
- How would trips have been made otherwise?
 - 47% on foot, 29% by PT, 9% by bike; 8% by car.



Evidence-based decision making

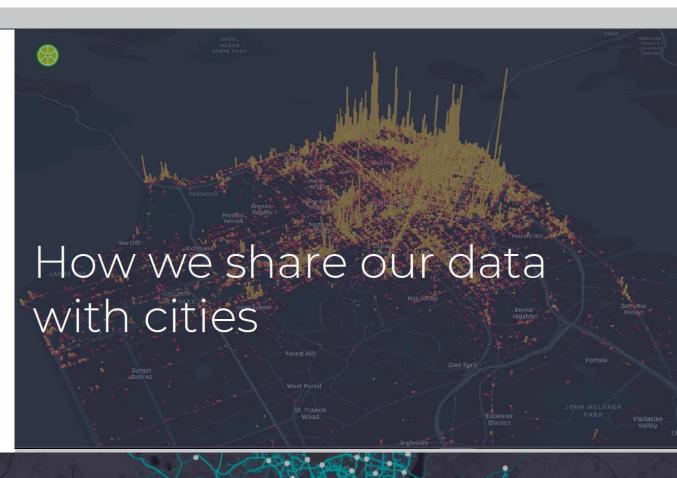


Insights to inform and educate overall operations. API Endpoints - vehicle status and trip data. Aggregated and categorized complaints and reports. Welcome to Your Bird Dashboard, Vienna **DATASHARING FORT THE GREATER GOOD** Monthly data reports according to city needs • top 10 most used streets without cycling lane

• % of trips starting/ending at PT stations

accident spots

• etc...



London

Public transit stop

Need for data sharing

- with the public authority
- towards an integrated offer & MaaS?

Bikesharing

Public sector
Procurement

Private sector Regulation

Dumb bike schemes



Dumb docked schemes



Smart docked schemes



Smart dockless schemes

Linked to stations, no intelligence

Recognising bikes & users, collecting data

Freefloating, dockless, smartphone apps, no infrastructure



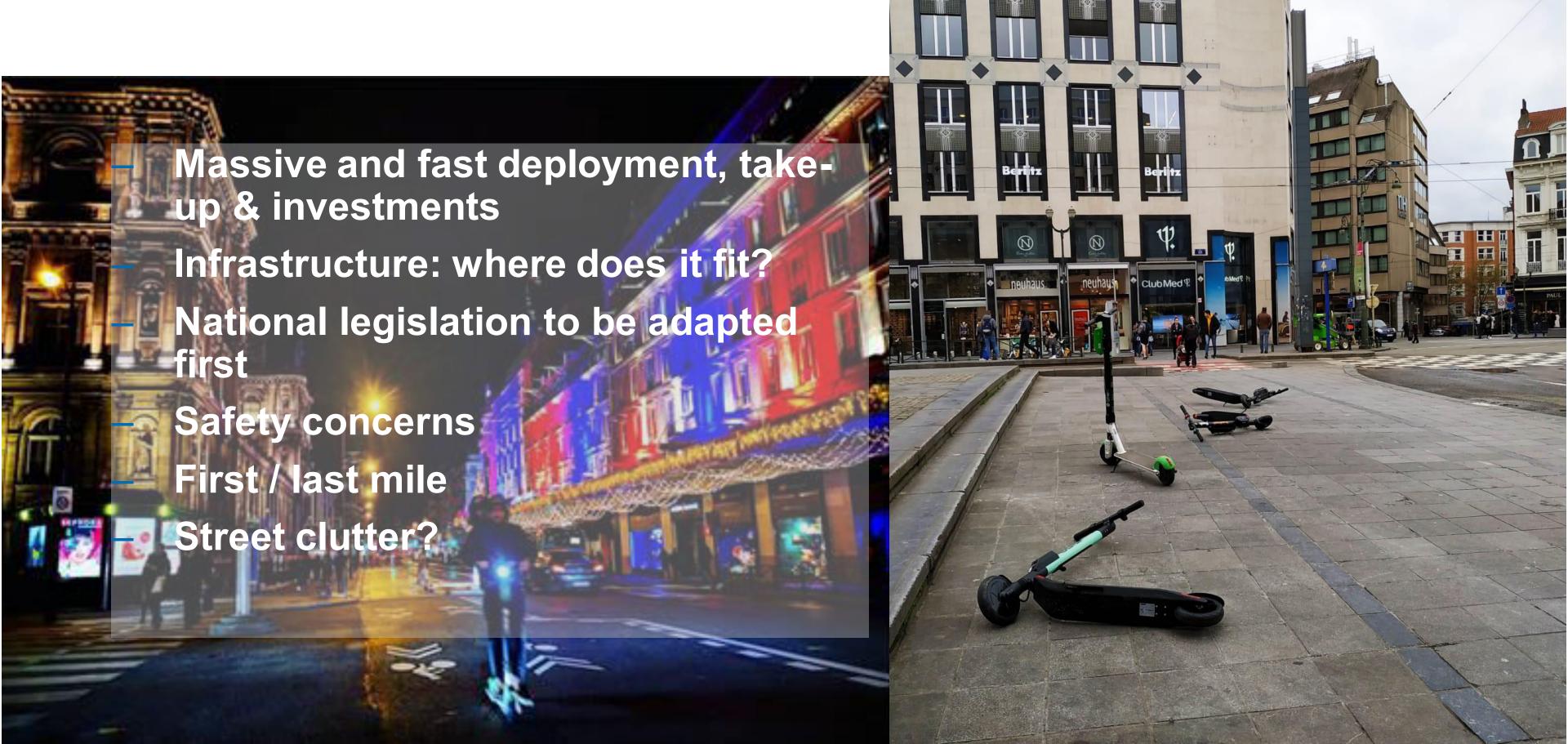
Courtesy: bitride http://www.bitride.eu

Courtesy: BikeMI Comune di Milano





e-Scooters



Street clutter!





Picture: Lime

Governance & Regulation

First wave of dockless bikesharing

- Disruptive: lack of dialogue & cooperation with the city
 - Overnight and massive deployment
 - No prior agreement
 - No integration with local city strategy and potential competition with traditional schemes
 - Overcrowding urban space and bike parking, blocking the way of pedestrians
- Not adapted to the European market:
 - Low-quality bikes
 - Bad communication with customers



negative externalities requiring regulation



Regulation

... aiming to maximise potential and minimise negative externalities

Different models / steps, or combinations of them:

- Hands-off approach
- Providing regulatory ground-rules
- Requiring operational permits/licences
- Contracts for concessions
- Pilots / demonstrations
- Banning / not allowing operations

Service providers are not against regulation, on the contrary!

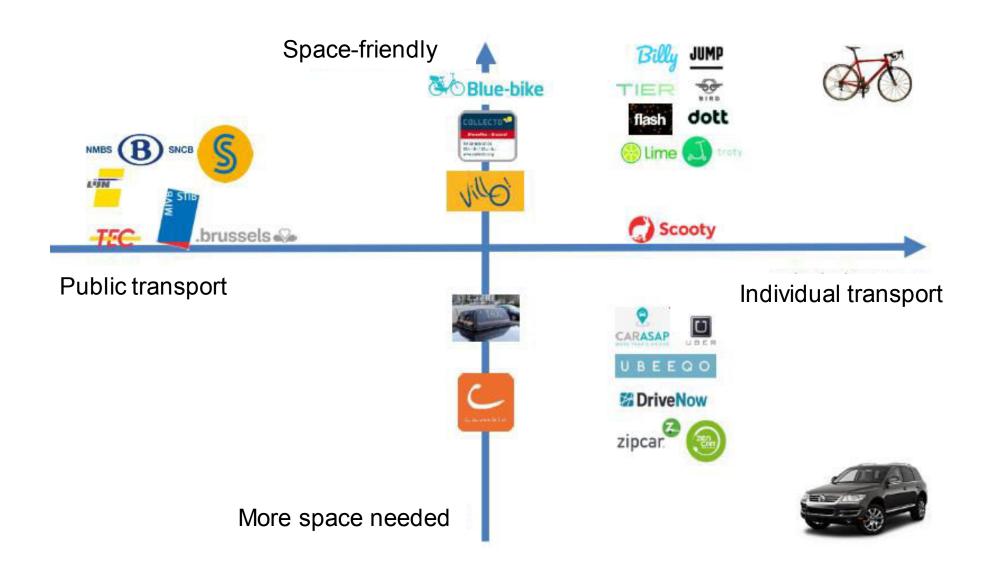


CIVITAS Prosperity:

Examples

Toulouse Bologna London code of practice Tender through competitive Deployment strategy & Paris code of conduct charter for free-floating bike dialogue UK accreditation scheme for and scooter shares Incentives structure operators Protect public interest:quality Dublin byelaws for dockless Service obligations of service; management of bikeshare Mutual data sharing public space Madrid sustainable mobility ordinance Fixing desired volume of Revenues known and Flemish/Dutch framework for shared beyond certain vehicles in circulation, fee to free-floating bikeshare threshold be paid to use public space One operator selected of 3 Compliance with rules as bidders prerequisite for deployment Positive results





BIKE POLICY IN BRUSSELS

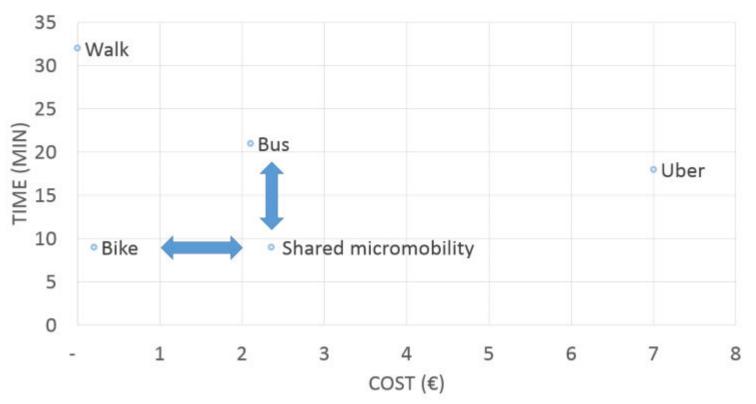
2005: make the bike visible

2015: dedicated infrastructure 80km separated bike lanes 2020 Secured bike parkings Bike racks at & in metro stations Implementation zone 30

2020: integrate cycling services

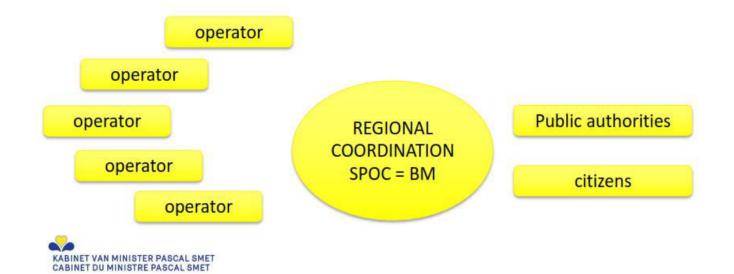


3 kilometer in Brussels



CITIES AND REGIONS FOR TRANSPORT INNOVATION

- Regulatory framework for micromobility since 1 February: "Welcoming City"
 - Licensing system
- Responsibility lies with the operator
 - Co-responsibility with the user
- Brussels region
 - Awareness raising
 - Monitoring



A WELCOMING CITY

STEP 1
LEGAL BASIS CAR SHARING

STEP 2
MODERN TAXIPLAN

STEP 3
LEGAL BASIS CYCLOPARTAGE

STEP 4
PREPARING MaaS-ERA





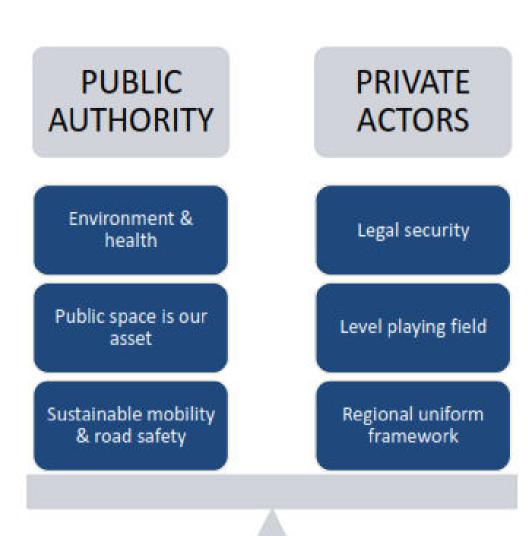
LICENSING SYSTEM:

BALANCED FRAMEWORK

LIMITATION IS POSSIBLE, BUT NOT ACTIVATED YET

e.g. quality, number of bikes

e.g. NPZ, concentration zones



CYCLOPARTAGE REGULATION MISE EN APPLICATION

Respect Code de la Route

No Parking Zones: defined with local authorities







L'échevine de la Mobilité Catherine Morenville (Ecolo) est bien consciente du problème. "Je peux comprendre le ras-le-boi de la population qui voit cea nouveaux modes de transport débarquer du jour au lendemain de manière anarchique dans la commune. Le souciclest que ces nouveaux modes de transport doivent être régulés par la Région, de qui a en partie élé fait par fordomance régionale mais les communes ne repoivent aucun moyen financier supplémentaire pour encadrer les sociétés de freefosting", explique Catherine Morenville.

*On demande qu'au niveau régional, il y ait une taxe qui soit prélevée sur les opérateurs privés afin qu'ils contribuent au développement de l'infrastructure dans



Licence conditions:

considering goals of public interest

Operating conditions, minimum:

- Parking in accordance with traffic regulations
- Prohibited zones (e.g. Grand Place)
- Vehicles meet technical conditions
- Concentration zones (e.g. stations)

Penalties in case of problems or non-compliance

Options now and later

? Number of vehicles * technical conditions* reporting to administration * open data * insurance * advertisement * charging infrastructure * green power * coverage * minimum price * language * number of operators?

Daily enforcement

- ➤ Dialogue & monitoring
- **≻**Complaints
 - ≥24h tolerance
 - ➤ Monitoring by administration
 - ➤ Interventions (retribution)

SERIOUS PROBLEMS

- 1. Warning
- 2. Fine
- 3. Suspension of licence
- 4. Withdrawal of licence



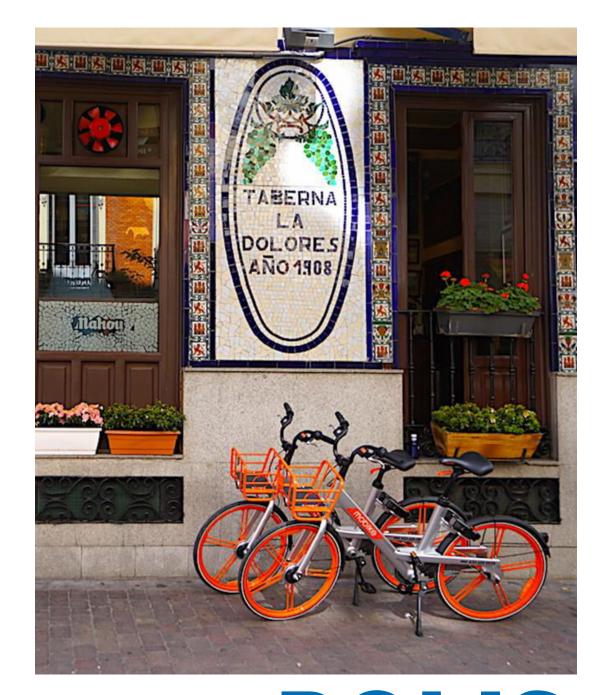
Madrid

New sustainable mobility bylaw – Oct 2018

- New definition for "new personal mobility vehicles"
- Regulation of new mobility services through authorization/concessions/licences
 - Prerequisites: riders & 3rd parties insurance, geolocation, geofencing-enabled apps

Accompanying measures:

- 30 km/h speed limit on 85% of the streets
- Pedestrian priority in 20 km/h streets
- New cycling rules (turning right on red lights, move against traffic in certain streets...)



Picture: EMT Madrid



Madrid

E-scooter rules:

- Prohibited on sidewalks, bus lanes, streets with more than 1 lane in each direction, main ring roads
- Allowed on cycle lanes, streets with 30km/h speed limit
- Parking: areas reserved to motorcycles and bicycles, if not available then general parking area of the road and, in the last case, on the sidewalks
- Minimum age: 15 (under 16 helmet mandatory)
- Minimum equipment: bell, brakes, lights and reflective elements

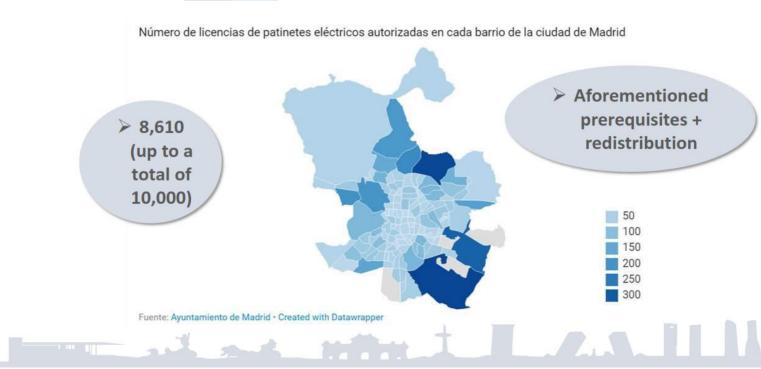


DISTRITO	NRO. SOLICITANTES	PATINETES SOLICITADOS	CAPACIDAD MÁXIMA	PATINETES CONCEDIDOS
CENTRO	20	6.951	360	310
ARGANZUELA	19	4.971	260	212
RETIRO	20	3.718	190	166
SALAMANCA	21	5.190	265	210
CHAMARTÍN	22	7.290	380	348
TETUÁN	22	6.538	365	278
CHAMBERÍ	21	4.677	215	160
FUENCARRAL- EL PARDO	20	10.107	925	823
MONCLOA- ARAVACA	20	9.799	800	726
LATINA	16	4.256	570	465

Las 18 empresas que han recibido la autorización son: Acciona, Eskay, Voi, Taxify, Scoot, Koko, Ufo, Ridecong Flash, Mobike, Ari, Tier, Alma, Lime, Motit4u, Wind, Jump Uber, SJV Consulting. Por el contrario, se les ha denegado el permiso por no cumplir los requisitos a Bird, Donkey, Movo, Cabcar, Cabify, Taxir y Mygo.

MADRID Number of

Number of e-scooter licences by neighbourhood



Paris

Code of Conduct signed by all dockless bikeshare providers:

- Revised annually
- Parking and bicycle circulation in accordance with traffic laws
- Requirements on quality of bicycles and rental conditions
- Operators' commitments to maintenance
- Participate in regular meetings to adapt to local needs
- Inform city about intentions regarding deployment of fleet
- Provide free data on deployment and use of service, to analyse flows and optimise the cycling network and parking spaces
- City commits to 10,000 bicycle parking spaces during the current political mandate, increasing number to more than 40,000 by 2020





Paris

- e-scooter operators invited to sign until end of May 2019
- Over 20.000 e-scooters in the streets of Paris up to 35.000 - 40.000
- Fee for companies, increasing according to number of scooters deployed (50 to 65 euros per scooter)
- e-scooters banned from sidewalks, fine / confiscation
- City will create specific areas for parking e-scooters through self-explanatory painted markings – approx. 2500 places during 2019; eventually make parking mandatory in these areas.



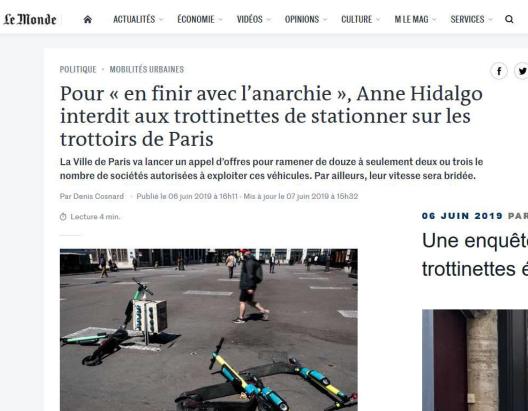


Paris

Latest development to address related challenges:

- Launch call for tender in a few months to limit to 2-3 authorised escooter operators instead of the current 12
- 12 000 to 15 000 e-scooters should be enough to meet needs and avoid too many problems
- Call for tender to include social and environmental requirements





cation.com... AFP

JOEL SAGET /

06 JUIN 2019 PAR OLIVIER RAZEMON

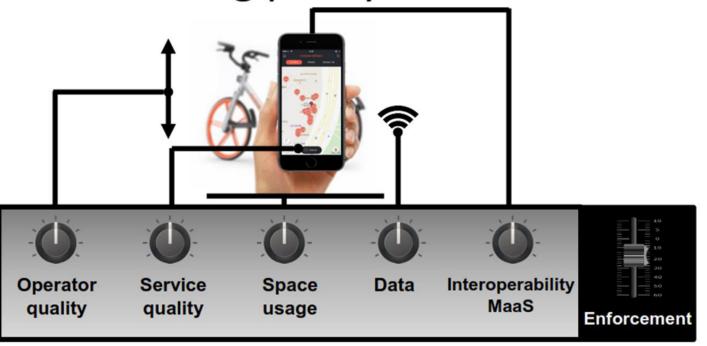
Une enquête inédite sur les utilisateurs des trottinettes électriques

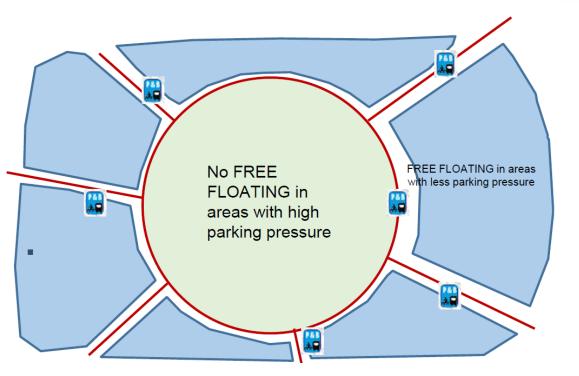


Emerging trends

- Permits/licences, not procurement
- Performance-based fleet caps
- Competition increasing quality?
- Caps on n° of operators
- Ensure orderly public space
 - Geofencing
 - Towards hybrid systems microhubs
 - Designated parking zones/space
 - No parking zones
- Equitable access
 - Inclusion, communities of concern, subsidies
- Open data

Bikesharing policy – buttons!







Onwards & Upwards

Mobility service operators engaging in more dialogue and cooperation

Still relatively new a

Trial & error in regumodels - sandboxir

orms and business

cooperation

Ranging from cars to the come? Or modes to disa to consolidation... consolidation...

If regulated well and integrated mobility policy and goals, new mobility services can complement additional transport offer (off-peak, remote, target groups) or provide a first/last-mile solution.



Thank you!



Want to join Polis? ©

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