

Thibault Castagne
Polis Conference - Shared Data for Shared Micro-mobility- 2nd of December 2020



Innovation in Transport for Sustainable Cities and Regions
Arnhem-Nijmegen City Region | 2-3 December 2020

Agenda



Learnings for operators and city authorities from implementing micro-mobility management systems in a range of European markets

1 - Introduction about Vianova

2 - Changing landscape & good practices

3 - Presentation of Use cases



VIANOVA

How to better integrate future mobility on the city streets



Challenged public order, safety & city transit



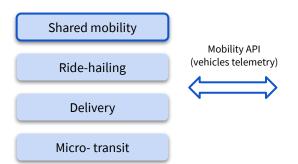


Cities need data and efficient tools to supervise a range of mobility systems on the city streets



1 - Vianova: a mobility platform for cities, built with cities

- Enabling efficient share of public space
- Promoting a safer & multi-modal transport system





Mobility Management web-dashboard

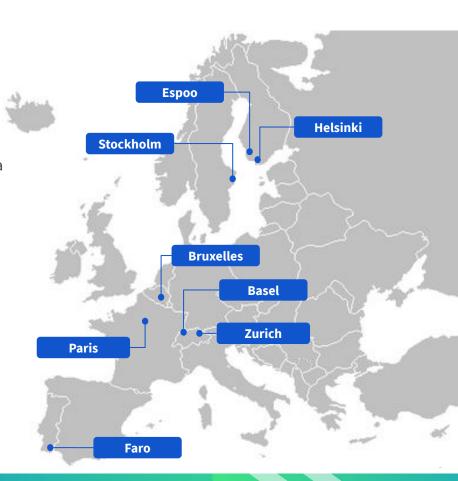


1 - Sharing experience and good practices from EU cities

- Co-led a **dozen of mobility data projects** with European cities
- Set-up mobility management system and advised cities on data analysis and new mobility policies
- Dedicated client support and project management capabilities

Client organisation of Vianova:





2- Changing landscape: much better 2020 than 2019, 2018



What we saw on the ground for the last 18 months:

- 1. More **maturity** from cities: **Data & Policies**
- 2. **Cities** are becoming the **main client**: PPP, tenders, permits, etc.
- 3. Operators engaging in (very) constructive ways with cities: Data & Policies
- 4. Cities are paying attention to each other! Good ideas are being shared
- 5. **Data quality is significantly improving**! Nearly universal use of international formats (MDS, GBFS)
- 6. Data privacy and understanding of GDPR is improving

2 - Guidelines for shared-mobility management

- 1. Develop their vision for shared (micro-) mobility as part of their **Sustainable Urban Mobility Plan**
- 2. Set a regulatory framework that fit into that strategic vision
 - a. Leave enough flexibility to adapt / add policies
 - b. Add **data requirements**: data quality, MDS data format
 - c. Include safety, sustainability and equity criteria
- 3. Set clearly the **purposes of data collection** and communicate it well to operators within data agreements
- 4. **Engage into a virtuous circle** micro-mobility management:
 - a. Build: policies
 - b. Measure: control & analysis
 - c. Learn: audit



3 - Presentation of use cases

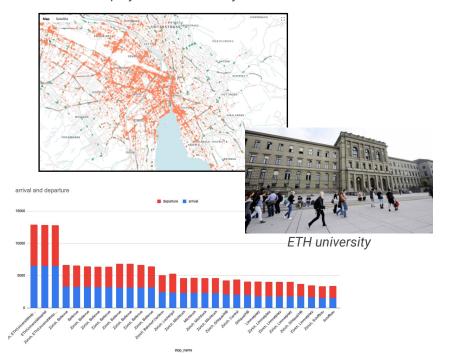
Zurich: selecting mobility hubs & improving VBZ service



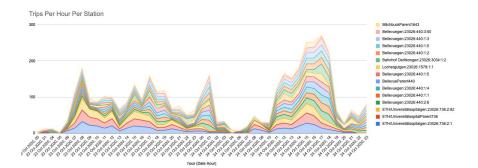


Enabling multi-modal journeys through mobility hubs, and improving public transport service

Prioritise deployments of mobility hubs



Improve quality of service & diminish wait time



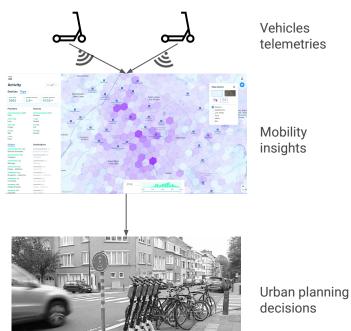


When are the most micro-mobility trips vs tram schedule

Bruxelles: Deployments of 20 mobility hubs

Using pick-up & drop-off insights from shared vehicles to map & dimension mobility hubs grid





+ Monitoring of usage







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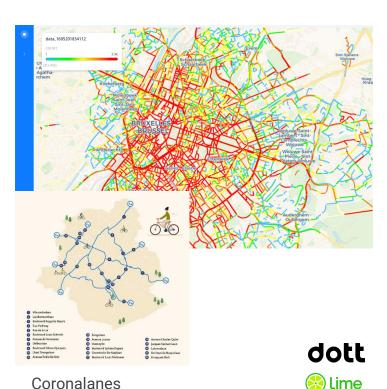
Gare Bruxelles Central

Gare Bruxelles Midi

Bruxelles: planning and usage of cycling lanes



Accelerating micro-mobility post covid and ensuring safety of riders



Coronalane: Rue de la Loi (May)



20 trips/ day in Feb

900 trips/ day in July



Stockholm: cluttered sidewalks & parking density

Easily spot streets with cluttered sidewalks and create specific parking infrastructure & policies



Normalised density of parked devices per street section



Birger Jarlsgatan

Spotting streets with high parking density Link to citizens complaints

- → Parking infrastructure (repurpose parking bay)
- \rightarrow No-parking policies on these streets

Digitally expressed policies to operators

Reducing ambiguity and communication complexity

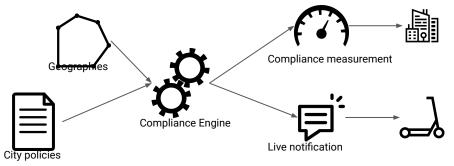




Bruxelles: No-parking zones & violation notifications

Improve parking compliance of operators & shorten communication span

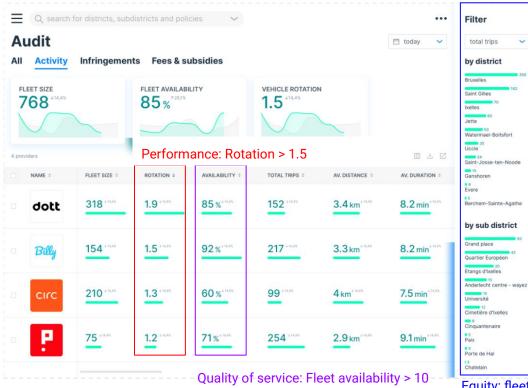






rule_ld	rule_type	vehicle_id	rule_name	policy_name	longitude	latitude	city	provider_name	via_ld
c348a5fc-803c-4761	No Parking	MnhUZMoleQ6x0jlxl	Parc Josephat	Parc Josephat	4.384381	50.866018	Brussels	Dott	7852
08e211d9-0275-409	No Parking	4zubsAA134Psw757	Zone UNESCO	Zone UNESCO	4.354152	50.846898	Brussels	Dott	13203
48b16670-02ac-46b	No Parking	ZanxrkiWiDc23Pk4tm	Gare Centrale	Gare Centrale	4.356603	50.84522	Brussels	Dott	52025
c348a5fc-803c-4761	No Parking	F3AulrYjgO53VVgoo	Parc Josephat	Parc Josephat	4.381214	50.864283	Brussels	Dott	54024
c348a5fc-803c-4761	No Parking	0BIF8dDS2GalMqH8	Parc Josaphat	Parc Josephat	4.38955	50.859532	Brussels	Dott	62073
a727eff3-a964-48f6-	No Parking	XKR9gF9TpBvA5xN	Gare du Midi	Gare du Midi	4.335125	50.836614	Brussels	Dott	62426
c348a5fc-803c-4761	No Parking	d7467321-f4e8-5fb7	Parc Josephat	Parc Josephat	4.384201	50.865784	Brussels	Poppy	82083
c348a5fc-803c-4761	No Parking	b7105421-e953-5ee	Parc Josephat	Parc Josephat	4.383862	50.865872	Brussels	Poppy	81444
08e211d9-0275-409	No Parking	ACKYKS	Zone UNESCO	Zone UNESCO	4.35194	50.84834	Brussels	Lime	74e01a88-be8a-473

Fixing caps (or not) & requiring high quality of service



Audit Equity:

- Fleet distribution in cities
- → Policy: distribution requirements

Audit Performance:

- Vehicle rotation
- → Policy: reduce/increase caps

Audit Quality of service:

- Fleet availability
- → Policy: reduce/increase caps



Equity: fleet distribution by district

Key takeaways



- Enable data sharing with operators, privileging the MDS format for regulation & planning
- Comply with GDPR: purposes, data minimisation & retention, systems security
- Engage with a range of operators that could serve your city mobility objectives
- Use a micro-mobility management system, like Vianova.io, to control, regulate, plan and monitor
 - Cost-efficient: development costs shared between 10-15 cities
 - Experienced: GDPR compliance, data quality & policy management
 - Transparent: Open-API
- Engage into a virtuous circle of Build-Measure-Learn
 - Collaborative relationship with operators

Thank you for listening & glad to answer any question





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