



# eMobility Hub

#micromobility

Krešimir Dvorski | Dash.City + Biro Croatia & Slovenia | Ljubljana |  
23/03/2023

# City Mobility Challenges

authorities struggling to provide sustainable eco-friendly solutions to satisfy various needs of their citizens



**Growing CO2 emissions and pollution**

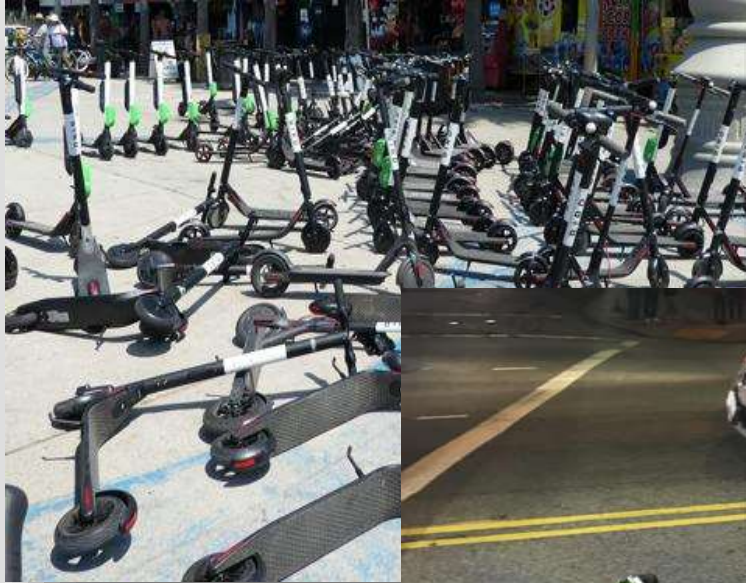
**Lack of last mile mobility options**



**Need for new sustainable solutions**



# Free-floating NonSolutions



Littered Public Space



Chaotic Operations

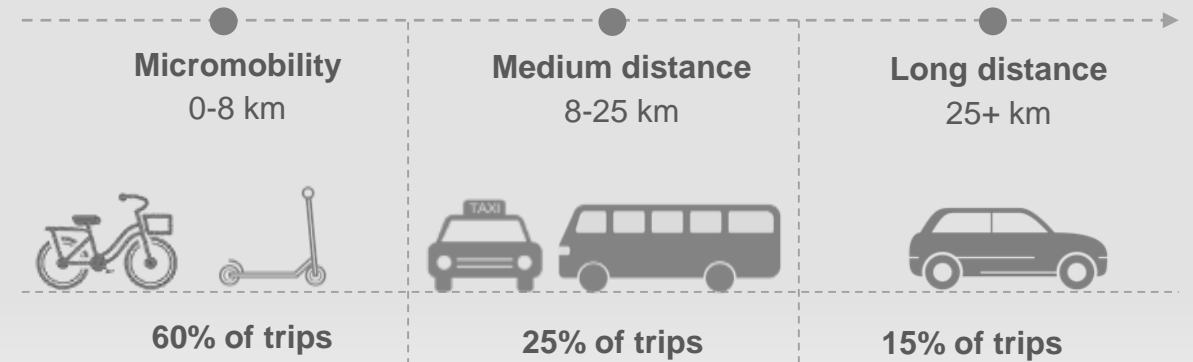


Poor relationship with cities



# SUSTAINABLE Micromobility

Completing the transportation mix



Station based or hybrid bike, e-bike and e-scooter sharing  
systems  
as a well proven last mile solution across Europe



# Best Practice Example #1

#eScootersharing



The World's first docked eScooter sharing platform



150

LOWER  
CHARGING  
COSTS

X

3X

LESS  
MANPOWER  
REQUIRED

0

SCOOTERS  
LITTERING  
SIDEWALKS



Performance

100

STATION

±  
600

DOCKS

±  
500

SCOOTER

±

100,000-  
USERS



# Meet the USERS



# Dash - Docked Scooter Micromobility

## Electric scooters at docking stations

Always charged, available and keeping the streets clean 24/7



## Mobile App

App registration, credit card payment, rental and return of the scooters at the docks or dedicated geofenced virtual stations

## Customer Support

Available 24/7 via App, email or phone



## Local Service Staff

Always on standby to help and repair





# Best Practice Example #2

#bikeep



bike  
-punkt  
DISPLATIN PARKING  
DA WOLFF / TROTHWITE  
1. Das Reparatur-Kit enthält 11 Werkzeuge, die Ihnen helfen, Ihre Probleme zu beheben. Es enthält auch eine Anleitung, die Ihnen zeigt, wie Sie die Werkzeuge verwenden können.  
2. Die Werkzeuge sind in einem Koffer mit einem QR-Code und einer Anleitung für die Reparatur von Fahrrädern.  
3. Die Werkzeuge sind in einem Koffer mit einem QR-Code und einer Anleitung für die Reparatur von Fahrrädern.







ОМОТИ  
Драгана Купрешанин

Галерија "Београдски центар за савремену уметност"  
15. 07. - 30. 08. 2023.





# Best Practice Example #3

#BiroSlovenia #BiroCroatia #BiroSerbia  
#BiroAustria

**RIDE**  
~~Read~~  
**the  
future**



I'm easy

Small things change your life  
and your future too.

**BIRÒ**

## Birò

A tiny two-seater  
with huge possibilities.

- 100% electric,  
zero emissions
- Range up  
to 100 km
- Easy to recharge from  
public charging stations  
or 220 V home socket
- Only 1.74 m  
long
- Driveable from 14 years old with an AM  
driving license (Category L6e) or 16 years  
with a B1 license (Category L7e)





# Built for visionaries.

Not all superheroes wear a cloak: some have four wheels and are the world's **smallest 100% electric vehicle.**



Faster movement,  
positive impact  
on the Planet.

## Features

- 48 V in-wheel electric motors
- Regenerative braking
- 220 V charger and multistandard cable
- Full LED headlights
- Hill holder
- 4 disc brakes and alloy wheels
- Steering wheel with integrated controls
- 3-point seat belts





## Why Birò?

- 01 Park easily.
- 02 You are always protected.
- 03 Recharge just about anywhere.
- 04 Earn time.
- 05 Saving is easy.

Length

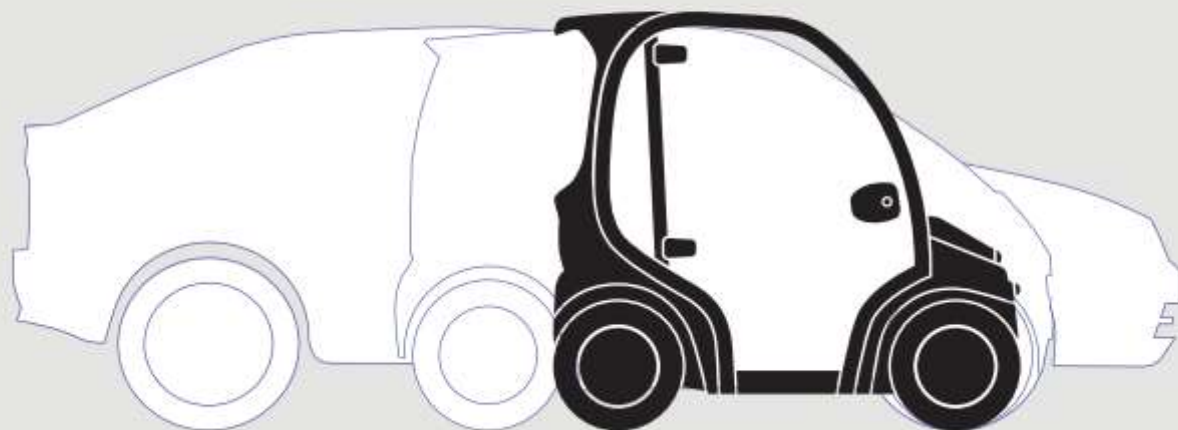
1.740 – 1.835 mm

Width

1.030 mm

Height

1.565 mm



Less cost and  
less consumption.



**Maintenance  
cost**  
compared to the car

**-75%**



**Consumption  
of kWh/100km**  
compared to the car

**-59%**

# Recharge just about anywhere.

The battery can be recharged by a any **standard 220 V socket**, or from **charging stations in the city**. With the innovative Re-Move system extract the battery mounted on wheels as a trolleys and recharges easily even **at home, in the office or wherever it is most convenient for you.**



**Easily switch between  
Socket Scame, Mennekes  
o 220 V thanks to the cable  
Integrated multi standard.**

Choose the suitable  
version to your travels.



**L6e with Maxi  
lithium battery**

Max speed 45 km/h  
Up to 100 km range  
Full charge in about 5 hours  
1 kW absorption



**L6e with removable  
Re-Move lithium battery**

Max speed 45 km/h  
Up to 55 km range  
Full charge in about 3 hours  
1 kW absorption



**L7e with Bolt motor  
and maxi lithium battery**

Max speed 55 km/h  
Up to 90 km range  
Full charge in about 5 hours  
1 kW absorption

# A vehicle designed for your work.

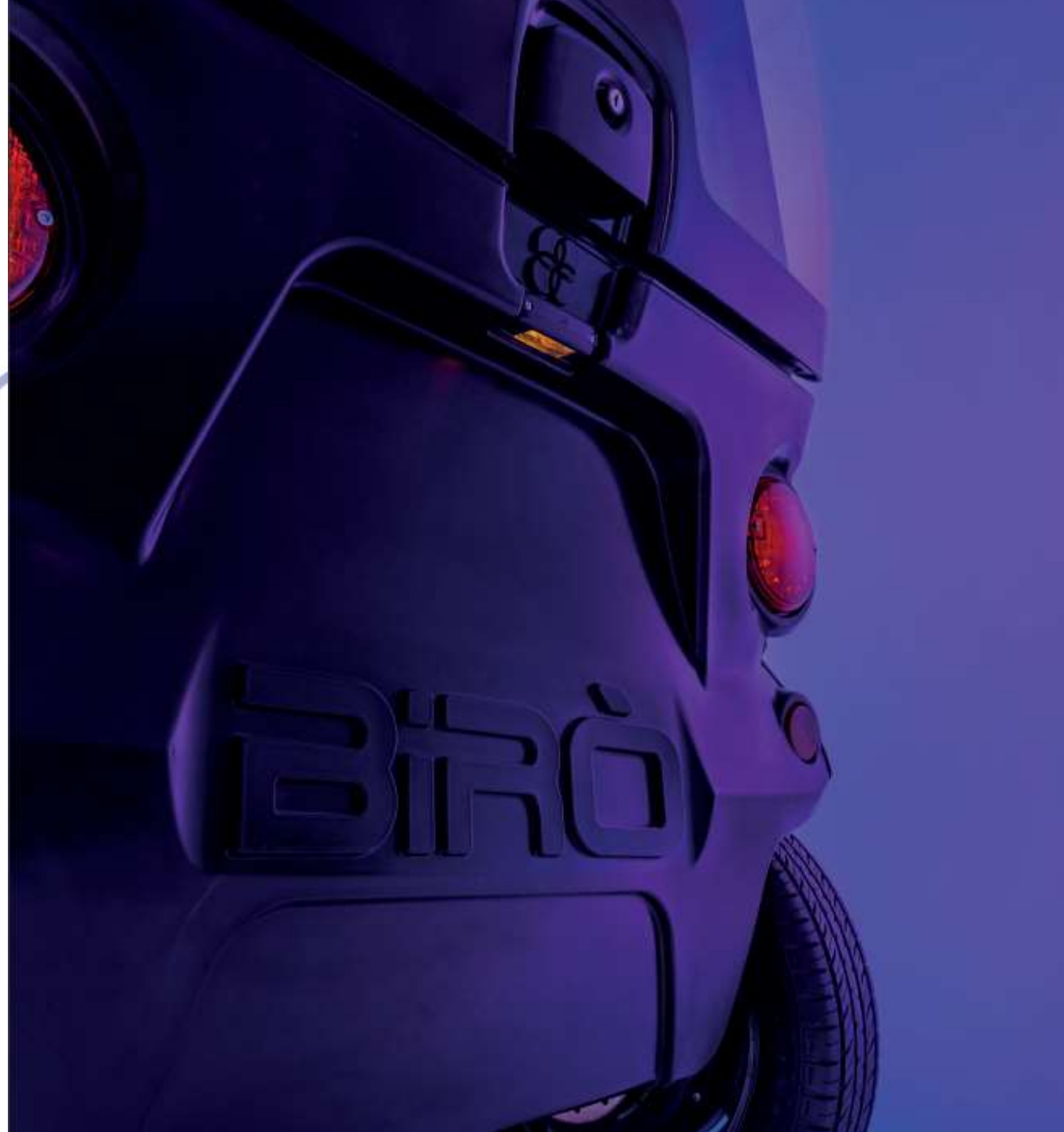
## 01 Choose if you buy or rent it.

Short-term rental,  
medium and long term  
Financing  
Leasing

## 02 Share with whoever you want.

Private Sharing  
Community Sharing  
Free Floating

## 03 Get your business noticed



# Working Together



## Investment to support the city

- ✓ Electric scooters
- ✓ Biro e-vehicles
- ✓ Bikeep stations for bikes and scooters
- ✓ Implementation
- ✓ Operations
- ✓ Customer service
- ✓ Data sharing
- ✓ Promotion of sustainable mobility



## The City needs to provide

- ✓ A little space for the stations to get more space for everyone

**1 car parking =  
3 e-scooter stations  
or  
3 Bikeep stations  
or  
4 Biro e-vehicles**





 [www.dash.city](http://www.dash.city) [www.birocroatia.com](http://www.birocroatia.com)

 [kresimir@dash.city](mailto:kresimir@dash.city) [kresimir@birocroatia.com](mailto:kresimir@birocroatia.com)