

# DOWNSIZING

CARS INTO 4-WHEEL EBIKES  
REVOLUTIONIZING LAST-MILE MOBILITY



O P E R A E N

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The most efficient and sustainable transport of cargo in inner cities  
Made for changing seasons and topography  
Made by automotive experts – for high reliability

# Downsizing EVs to high tech E-bikes



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McKinsey  
& Company

Minimobility: The next big thing  
in urban mobility?

Two-wheeled micromobility options, especially e-kickscooters and electric cargo bikes, have become very popular in cities. Three- and four-wheeled minimobility may be the next big thing.



Forbes

This Electric Bicycle Could Solve  
The Urban Transport Problem



- ✓ 90% less CO2 vs EVs
- ✓ No driving license
- ✓ Free parking
- ✓ App-based features
- ✓ Regenerating brakes
- ✓ Easy swap of cargo boxes
- ✓ Car-like seating
- ✓ Foldable rear seat
- ✓ Chainless – pedal by wire
- ✓ Swappable batteries
- ✓ Tracking
- ✓ Keyless lock
- ✓ Solar panel (upcoming)



# HIGH-TECH CAR-LIKE FUNCTIONALITIES, ELIMINATING THE NEED TO DRIVE A CAR

## Car like features

- ✓ Car like seat
- ✓ Floor, doors and roof
- ✓ Window and wiper
- ✓ Bumper
- ✓ Side mirrors
- ✓ Turning lights
- ✓ Pedal generator
- ✓ Chainless – pedal by wire
- ✓ 2 hub motors 220NM
- ✓ Swappable batteries
- ✓ Tracking
- ✓ Rear camera (extra)
- ✓ Keyless lock (extra)
- ✓ Up to 1.5M3 cargo capacity
- ✓ Few minutes to swap cargo box, or make pickup-model



## Technical Data

- ✓ Width: 89cm
- ✓ Height: 165cm
- ✓ Length: 259cm
- ✓ Net weight: 120-150kg
- ✓ Gross weight: 400kg
- ✓ Cargo capacity: 0.9-1.5m3
- ✓ Passengers: 2
- ✓ Motors: 2\*125W, 220NM
- ✓ Batteries: 1-2, 48V, 1440WH
- ✓ Range per charge: 60-110km
- ✓ Drive train: chainless, pedal assist
- ✓ Wheels: 20'

**4 times less the price, same usage, both B2B and B2C**  
**Fits anyone from school kids, all the way to elderly and disabled**



# Modular EV-platform for the world's lightest EVs

## Scalable flat chassis & software – with IKEA-like logistic



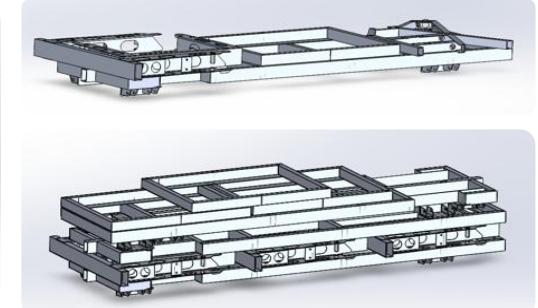
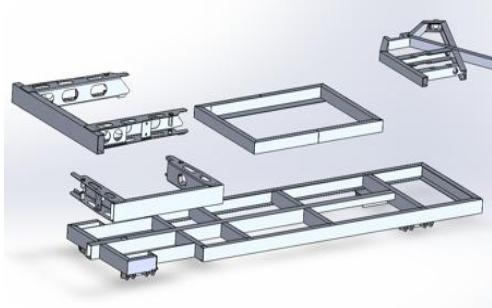
### Multi models on same chassis:

Cargo and passenger models  
10 minutes to switch model



### Highly scalable

IKEA-like logistic  
Easy:  
Local micro assembly  
Customization



Family bike and corporates - €5bn market



Cargo bike sharing with battery renting hubs



Courier, DHL London



Specialized tech bike  
Scanning cities

Uber / Bike cab – starting up in UK



The unique CityQ vehicle platform  
Tapping into a range of market segments

Europe  
America  
Asia  
Africa

Easy personalized – CityQ camping



Park & campus services



Catering & events



Food & Post deliveries

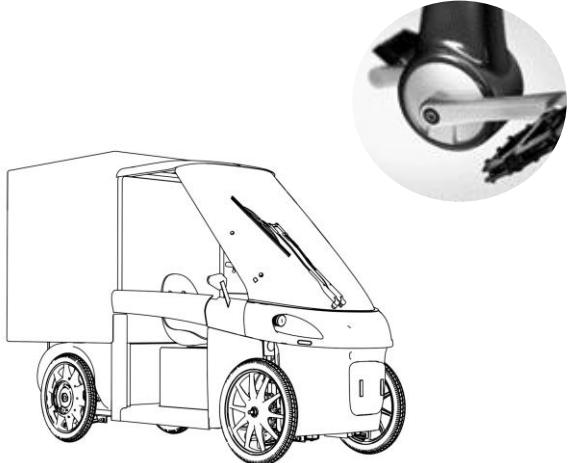
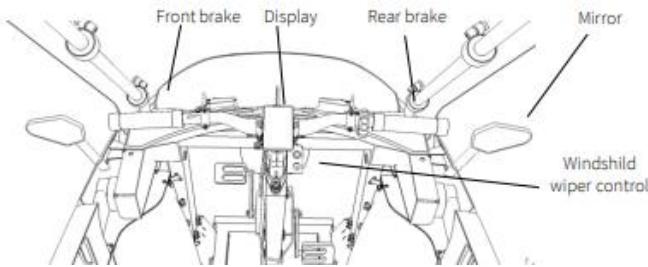


Pilots for future cities



# Smart bikes IoT with multiple opportunities

## Tracking bikes, chainless drive train



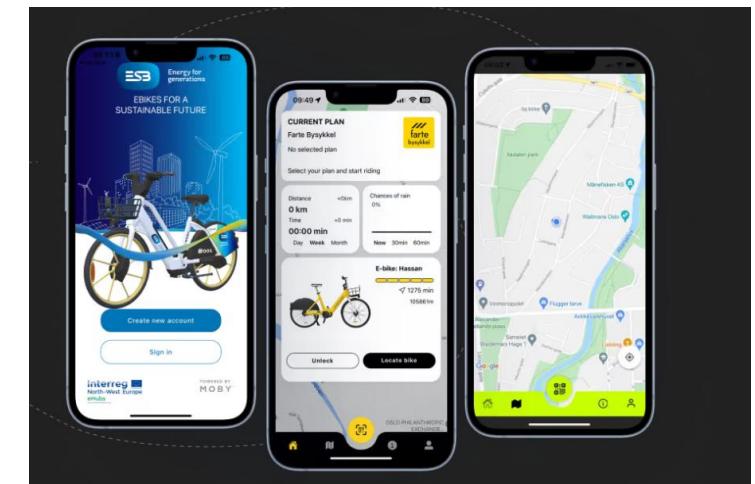
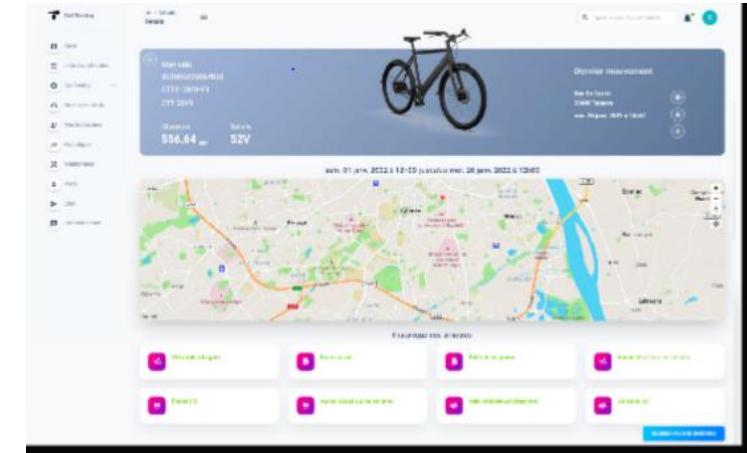
## Lock/unlock



Locking:  
Pin-code  
App  
Tag



## Fleet management and future rental



# CityQs range of models

B2B models optimized for efficiency in inner city. High flexibility. Recommended models 1000-1320ltr

1000ltr



6 Euro-boxes (30x40) per floor  
1 Euro box (40x60) at low compartment

1320ltr



8 Euro-boxes (30x40) per floor  
Euro-Pallet size (1200 x 800)

1620ltr

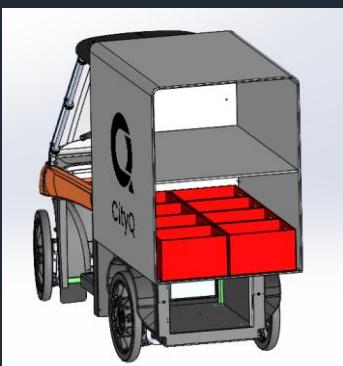


Box 1500ltr. Box width 100cm  
(the other models are 89cm)

Pickup & passenger



Flat bed pickup with ability to customize  
Extra storage under platform



120ltr in low compartment,  
Included in the total capacity

## All models:

- Detachable cargo boxes with slam locks.
- Extra lower compartments
- Optimized to fit Euro Boxes and euro pallet
- +100km range and Swappable batteries
- Registered as an ebike according to EPAC, EN15194



89cm  
(100cm: 1650ltr)  
240-270cm

# Making small vehicles – that makes a big impact

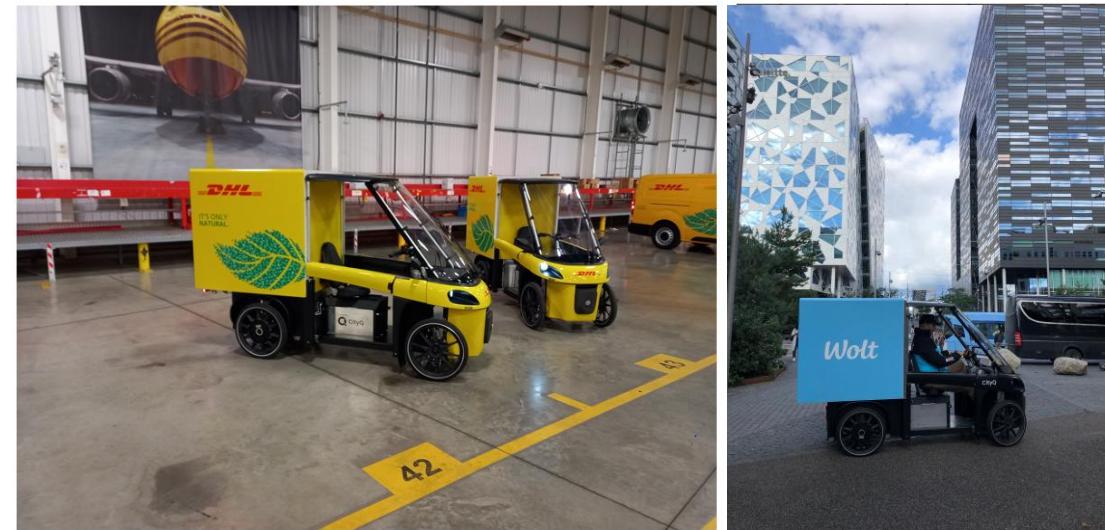
Cities impose parking and traffic restrictions to force the change from cars to cargo bikes and more sustainable transportation.

CityQ has developed the smallest and lightest vehicle for last mile transport of both cargo and people.

A range of 4-wheel cargo bikes with car like comfort, safety, efficiency, reliability and capacity, while still regulated as an ebike, with pedals.

With weight and size of a bike, CityQ enables 90% less CO2 emission, 75% less congestion and 100% less need for car charging.

Can be customized and assembled locally. Available across Europe and in the US. <https://www.youtube.com/watch?v=5Zm9BHtVf8Y>



BABLE INNOVATION MARKET WATCH



eit Urban Mobility



Cycling with car like seating and comfort

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# The Future of Urban Mobility



E-bike with car-feeling and EV-IT

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