

GreenMobility - LiRA

December 9, 2020

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GreenMobility
YOUR CITY. YOUR CAR



Innovation Fund Denmark





Introduction

Hardware and data collection

Data types and usage

GreenMobility expansion



Rasmus Østergaard
Product Manager
GreenMobility



2016

Year of establishment



6

Active cities
(December 2020)



111.200

Total number of users
(December 2020)



920

EVs in operation
(December 2020)



2.069

Tonnes CO₂ saved¹
(Total to date)

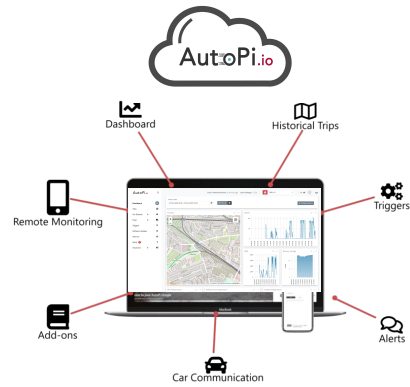


17.500.000

KM distance driven
(Total to date)



1) Relative to having driven an equivalent amount of km in a typical combustion-engine vehicle (118.5 g CO₂/km based on European Commission, 2019, Average CO₂ emissions from new cars sold)



Cloud platform
AutoPi Cloud



Data warehouse
DTU Compute server



Cars
18 Renault Zoe ZE40



Telematics Unit
18 AutoPi telematics unit



DATA COLLECTION

Routes

- Motorways (4)
- Copenhagen roads (5)

Sampling criteria

- Consistent driving pattern

Total coverage

- 8.612 km (Total to date)

ROAD MEASUREMENT DATA

Purpose

- Efficient and timely maintenance
- Safe and durable roads
- Reduced noise
- Low energy consumption and pollution

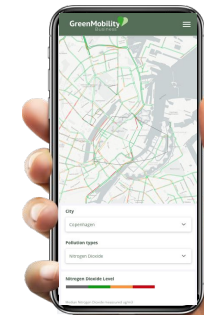
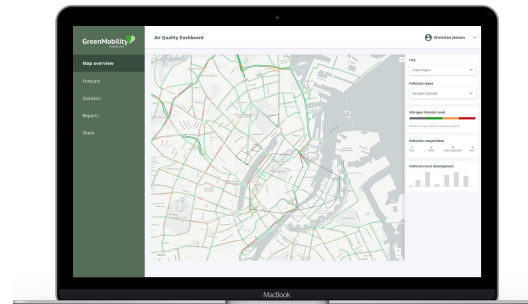
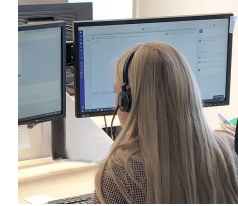
Limitations

- Ressources
- Frequency
- Weather conditions



DATA POSSIBILITIES

- Road conditions
- Pollution (CO₂, NoX, VOC, PM concentrations)
- Noise
- Traffic
- Driving behaviour
- Reduce insurance
- Damage detection



EUROPEAN CAR SHARING PERSPECTIVE

68%

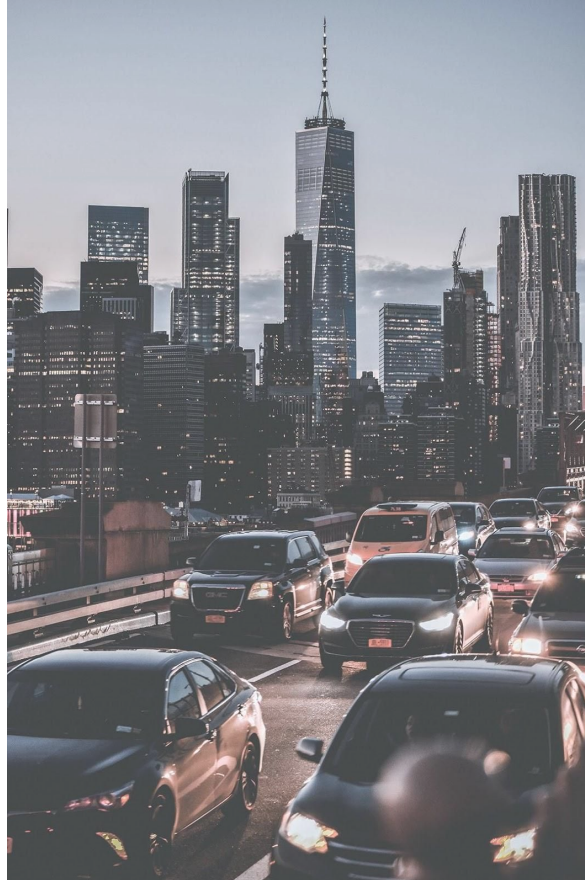
68% of the world's population is expected to live in cities by 2050 – up from 55% in 2018¹

26%

Out of 162 cities with more than ¼ million inhabitants only 26% have a car sharing solution

0.01%

Free float cars is still only 0.01% of EU passenger cars



**600
1.000**

Europe currently has 600 cars for every 1.000 inhabitants²

3-5%

The average personal car is utilised only 3-5% of the day³

1) UN, 2018, 68% of the World Population Projected to live in Urban Areas by 2050, Says UN, 2) European Automobile Manufacturers Association, 2019, Vehicles per Capita; 3) Fortune (Morris, D.Z.), 2016, Today's Cars are Parked 95% of the Time and RAC Foundation (Bates & Leibling), 2012, Spaced Out Perspectives on parking policy

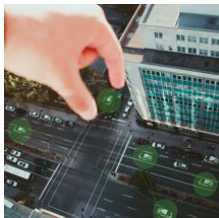
A sustainable and leading mobility provider in
Europe with a 2025 aspiration of:

35 cities

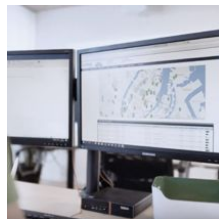
10.000+ EV's

20.000+ tonnes CO2 saved

40.000+ private cars reduced



Real time data



Data utilisation

