

Digital Fleet Optimizer (DFO)

The right vehicle, in the right place, at the right time

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Mobility services are the future...

York to ban private car journeys from city centre within three years

City councillors unveil 'unashamedly ambitious' goal to cut carbon emissions

Source: *The Guardian*

Birmingham plans to 'limit' vehicles from city centre - 'Cars will not dominate streets'

DRIVERS could be blocked from using some of Birmingham's busiest roads under new plans to "limit" vehicles in the city centre.

Source: *Daily Express*

Paris seeks to ban through traffic in city centre by 2022

© 14 May

Source: *BBC*

CLEAN TRANSPORT
Helsinki Could Eliminate The Need For Private Car Ownership By 2025

Source: *CleanTechnica*

01-24-19 | WORLD CHANGING IDEAS

What happened when Oslo decided to make its downtown basically car-free?

It was a huge success: Parking spots are now bike lanes, transit is fast and easy, and the streets (and local businesses) are full of people.

Source: *Fast Company*

But there are improvements to be done.



Data from Sweden, UK and U.S indicates a round 50% of driven distance is without customer



MIT study suggests fleet size in NYC could be reduced with 30% and still meet demand



Local fleets say they struggle with old technology that is difficult to adjust, understand and integrate

Digital Fleet Optimizer – Efficient fleet management

A fleet management eco-system to receive, manage, and distribute bookings to vehicles, with focus on improving efficiency



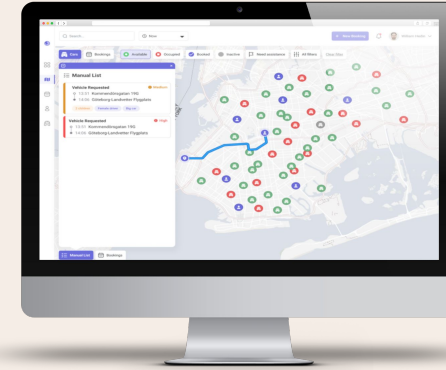
Cost



Emissions



Waiting time



Partners

CEVT

SW
development



Geolocation
platform



Test fleet

**TAXI
STOCKHOLM
150000**



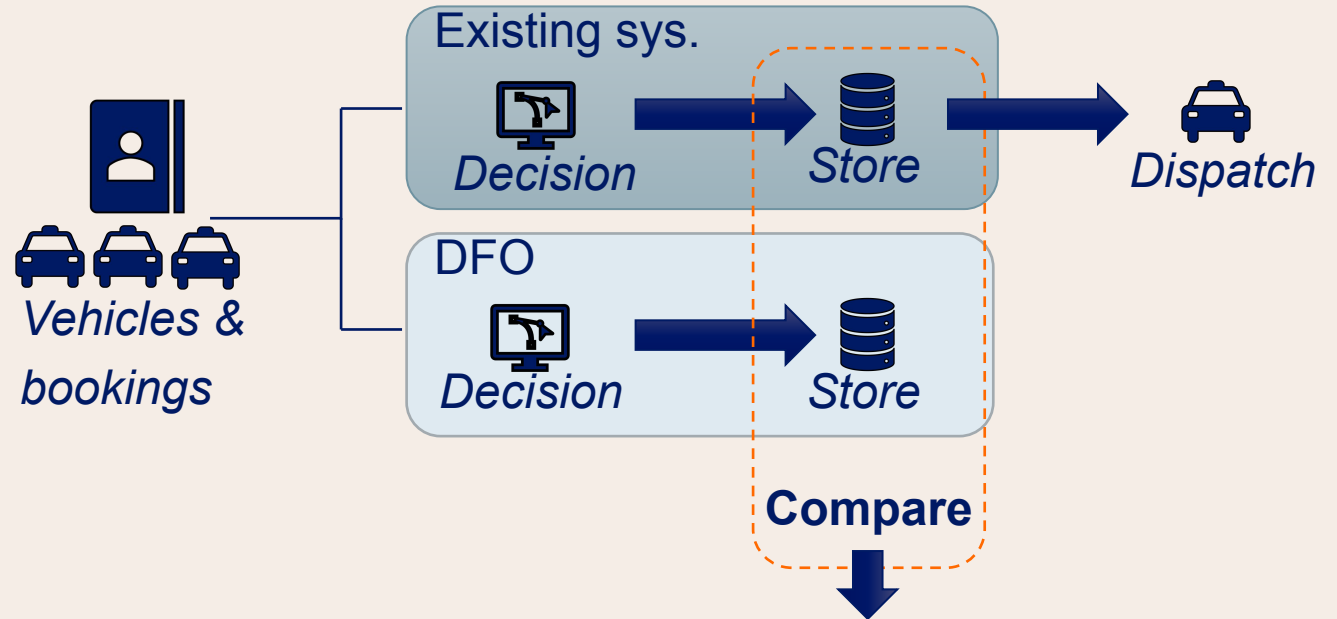
BUSINESS REGION
GÖTEBORG

Industry insights &
observation

DRIVE:SWEDEN

Evaluating the system through a pilot

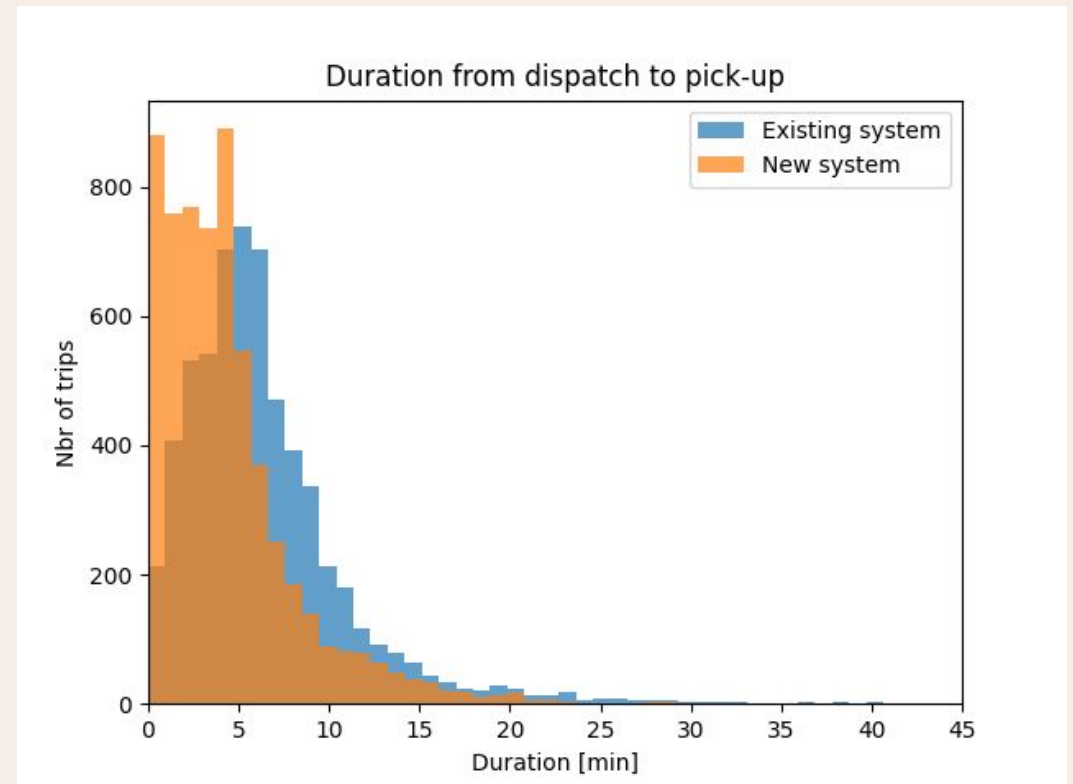
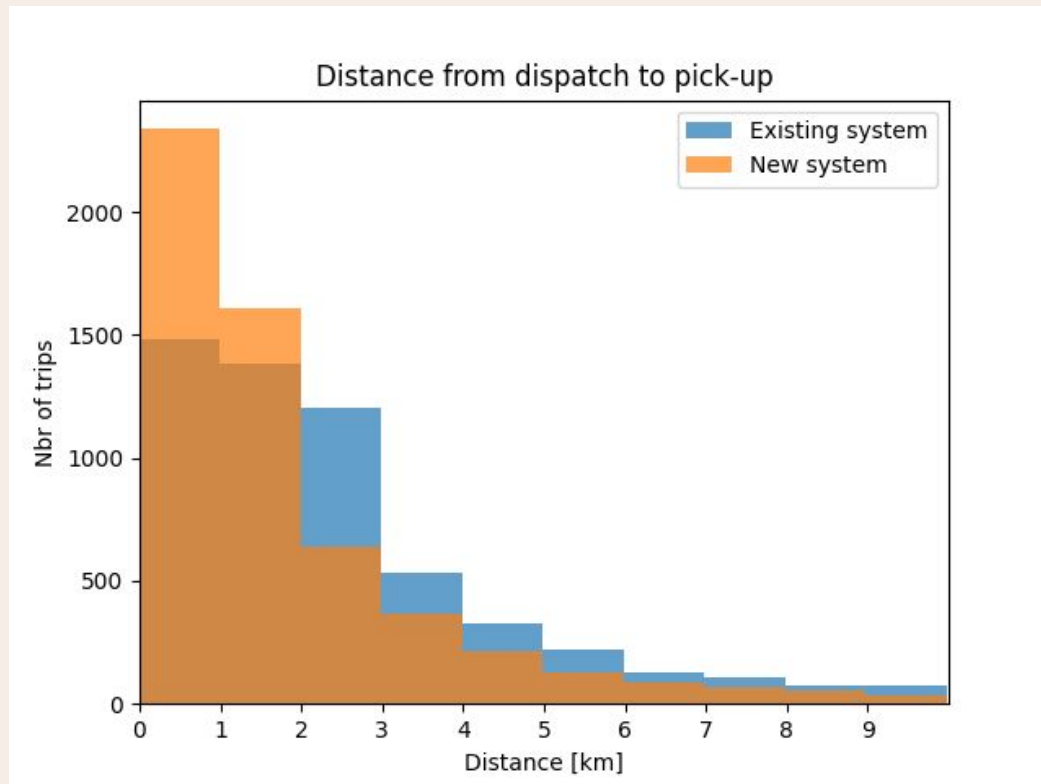
1. Allow both systems to see bookings and vehicles
2. For each booking, store decision
3. Compare decisions by estimating resulting distances and driving times



>6000 trips from Taxi Göteborg's daily business

Booking	DFO dist.	DFO time	Exist dist.	Exist. time.
1	1.1km	2min	2.2km	3min
2	1.8km	3min	2.7km	5min
...

Results



On average save

- More than 1km of driving
- More than 2min of waiting

-30%

Conclusion & continuation

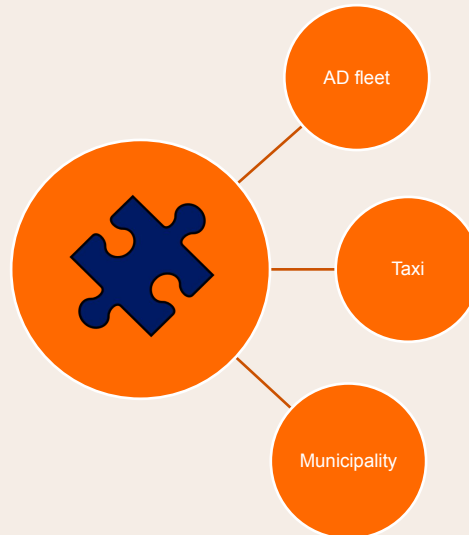
- \$ -20 SEK per trip
- 🌍 ~0.5 tons of CO2 saved per vehicle and year
- 👤 -2min of waiting per trip, but also improved worst case scenarios

Not all aspects covered in pilot, e.g. higher automation, predictive AI model



Less manual labor and human mistakes, faster decisions, improved fleet distribution

To finance continuation, customers are needed



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