Digital Fleet Optimizer (DFO)

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

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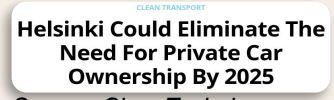
Mobility services are the future...

Source: The Guardian

Source: Daily Express

Source: Fast Company

Source: BBC



Source: CleanTechnica

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

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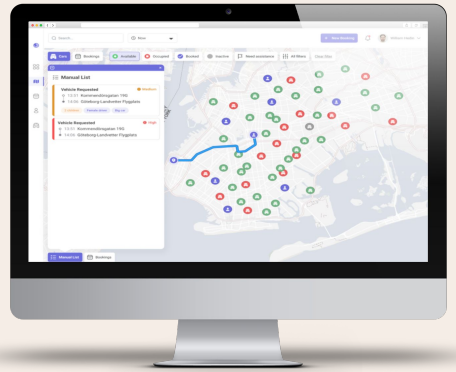
Digital Fleet Optimizer – Efficient fleet management

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

- Cost
- Emissions
- Waiting time



Partners

SW development

Geolocation platform

Test fleet

Industry insights & observation

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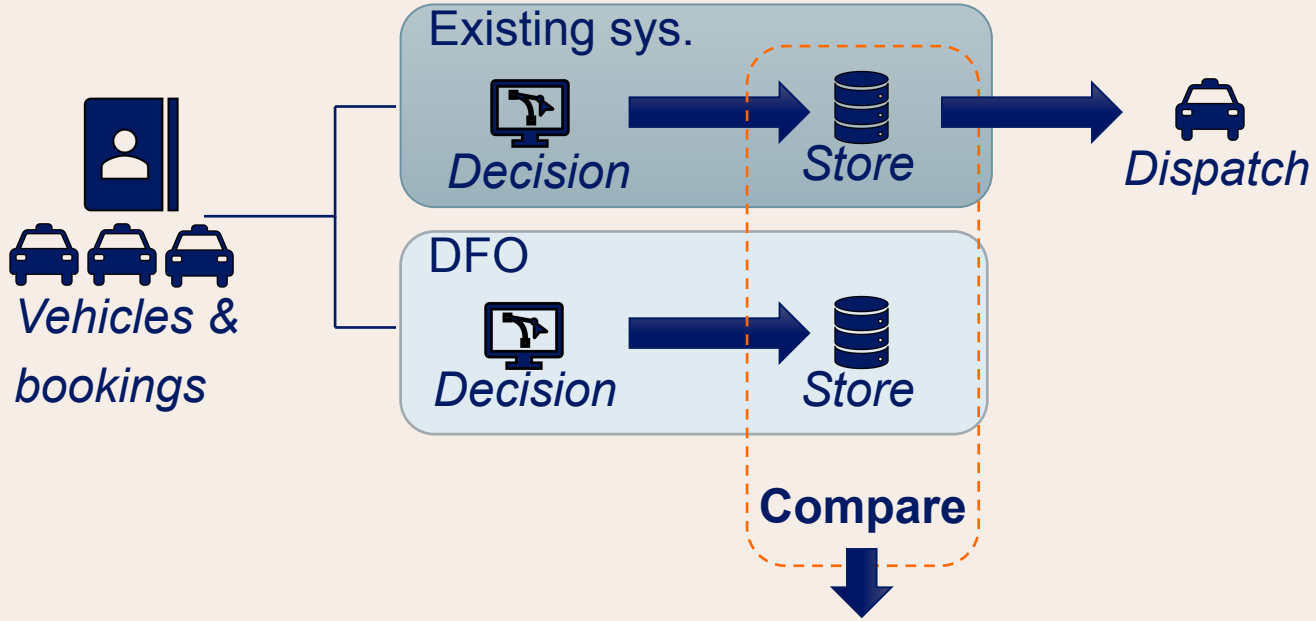
Evaluating the system through a pilot

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



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

>6000 trips from Taxi Göteborg's daily business

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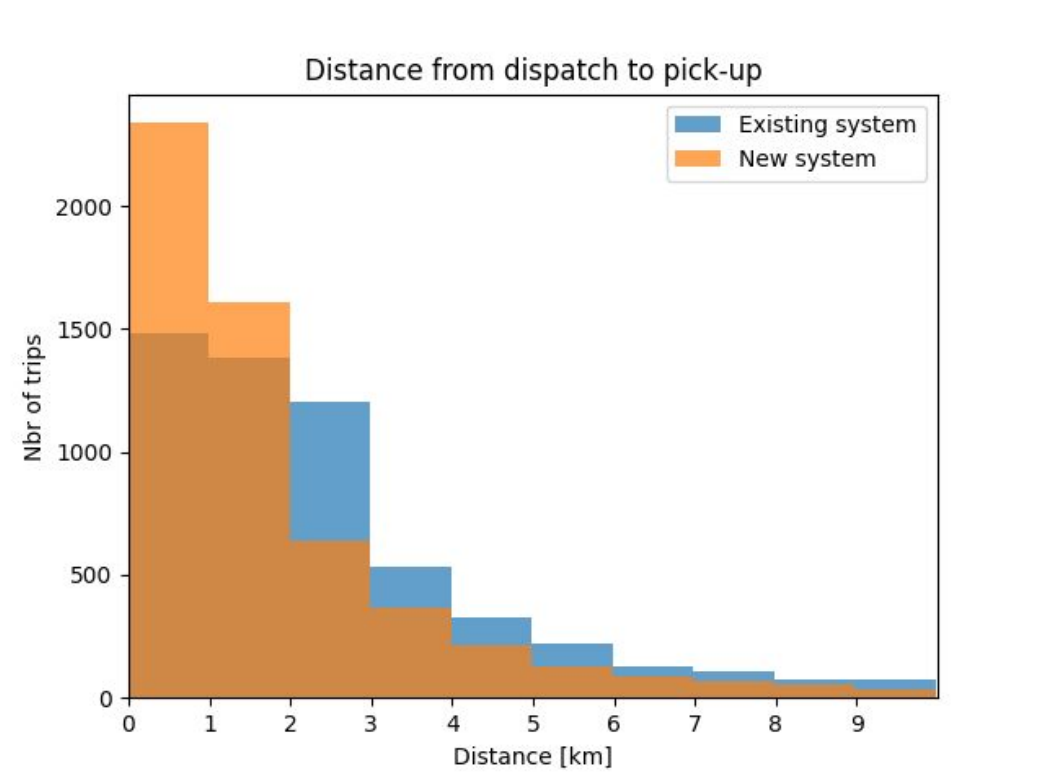
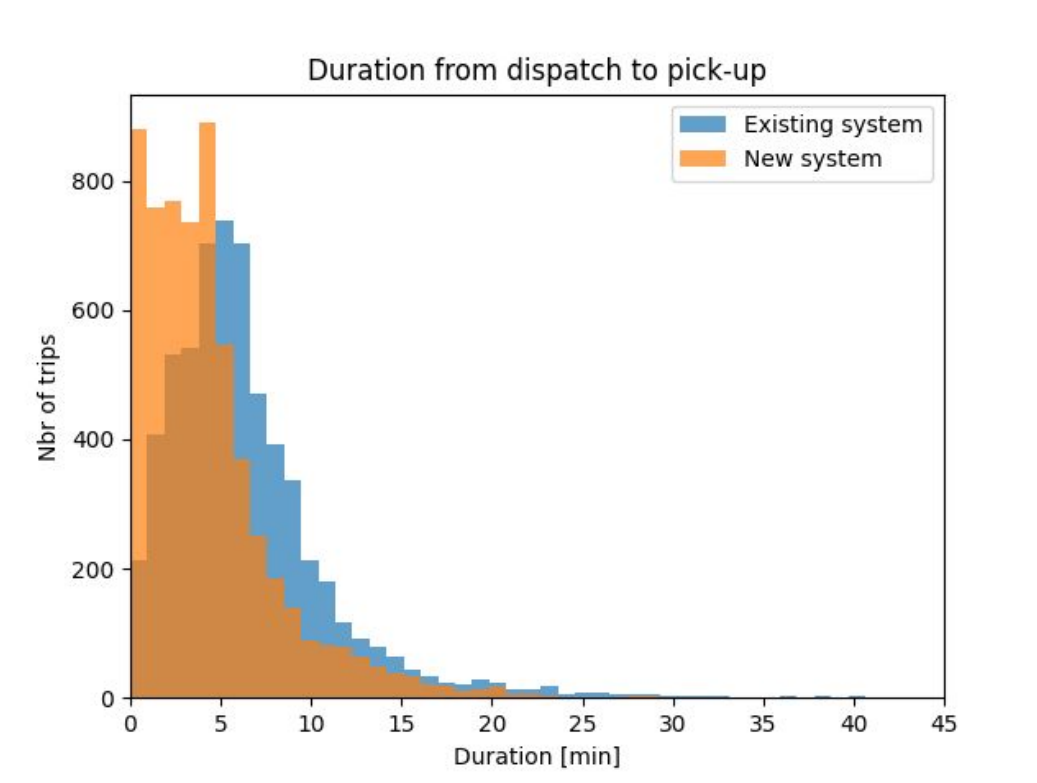
Results





On average save

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

-30%

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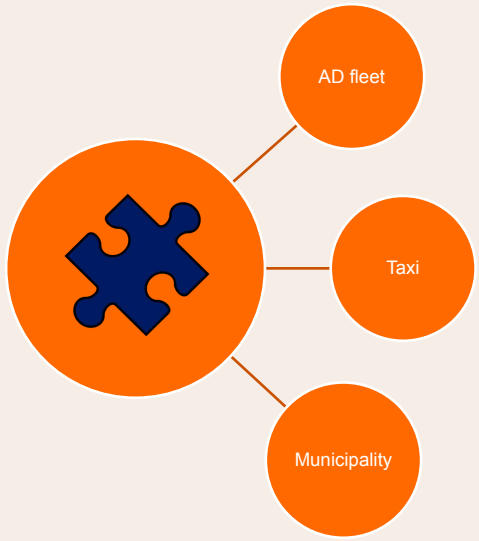
Conclusion & continuation

- -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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