Einride | Erikssons Åkeri

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Customer Review

“Thanks to Einride, we can transition into a sustainable and cost-competitive future”

Simon Broadbent
Head of Global Supply Chain at Oatly

Founded
2016

Offices
Stockholm
Göteborg
Silicon Valley

Raised
$ 41m

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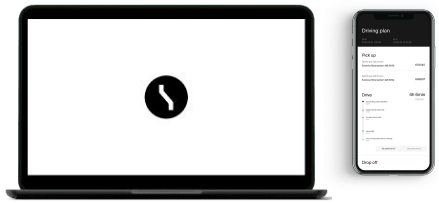
Selected customers

Selected partners

Investors

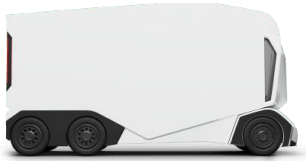
Key enablers for sustainable transport

01 Digitalize



02 Electrify

03 Automate



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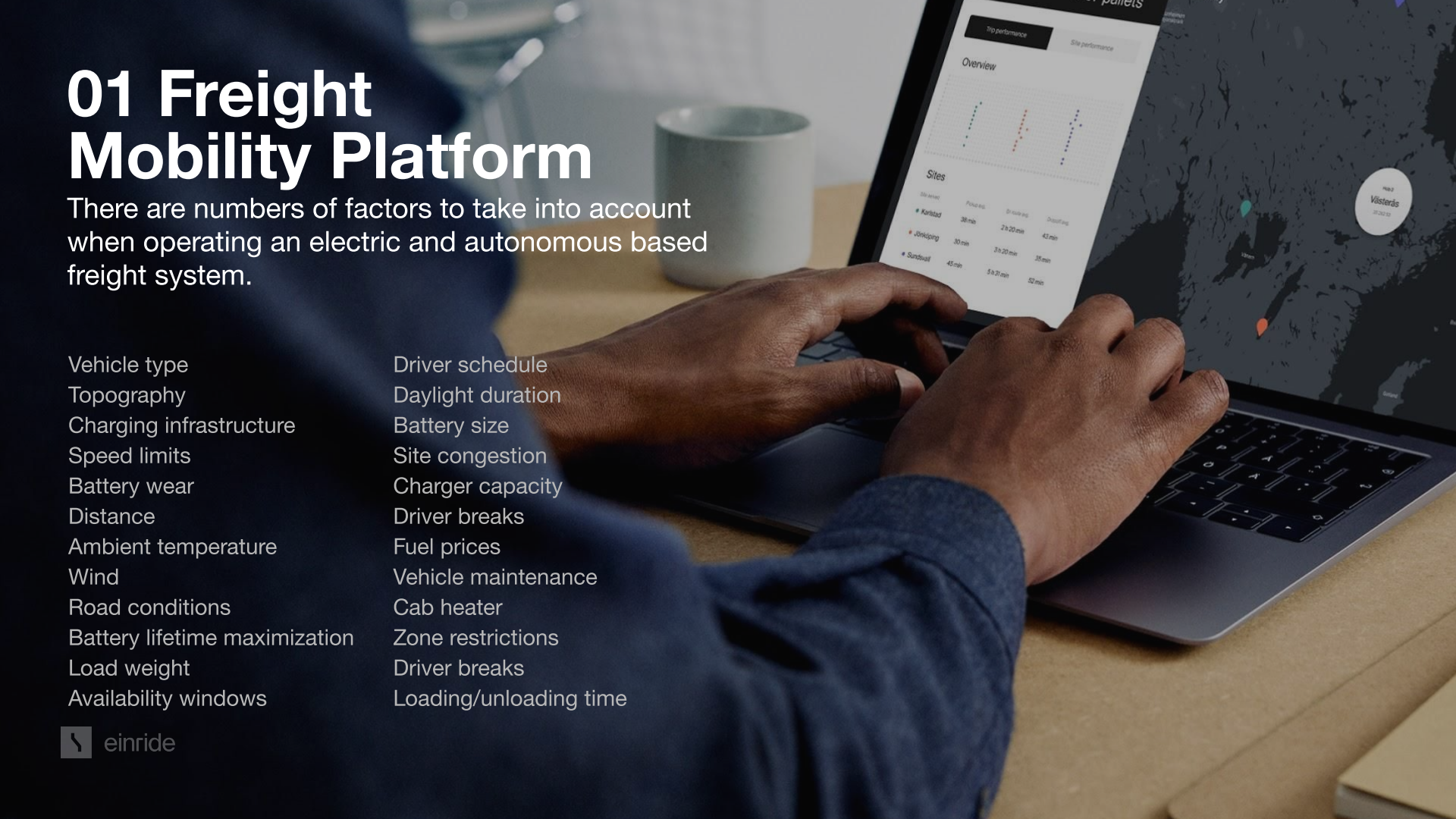

01 Freight Mobility Platform

There are numbers of factors to take into account when operating an electric and autonomous based freight system.

- Vehicle type
- Topography
- Charging infrastructure
- Speed limits
- Battery wear
- Distance
- Ambient temperature
- Wind
- Road conditions
- Battery lifetime maximization
- Load weight
- Availability windows
- Driver schedule
- Daylight duration
- Battery size
- Site congestion
- Charger capacity
- Driver breaks
- Fuel prices
- Vehicle maintenance
- Cab heater
- Zone restrictions
- Driver breaks
- Loading/unloading time

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02 Electric Mobility System

- Connected electric trucks planned, executed and tracked through Einride’s platform
- Einride’s Electric Truck telematics unit secure that the right data is collected from the vehicle
- Gradual implementation based on business and environmental impact
- Operated by carrier partners

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03 Autonomous Vehicle Platform

- Uniquely designed and developed for SAE level 4 self-driving
- Basic safety architecture allowing for safe operations with no safety driver
- Proprietary remote operations technology to enable scaling of operators per vehicles (1:10)

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Oatly Landskrona

Electrification Case

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Transformation Analysis

- Find most suitable lanes to electrify
  - Distances
  - Goods
  - Infrastructure
- Evaluate setup for fleet operations
  - Vehicle to Driver ratio
  - Charger setup
  - Operating Partner

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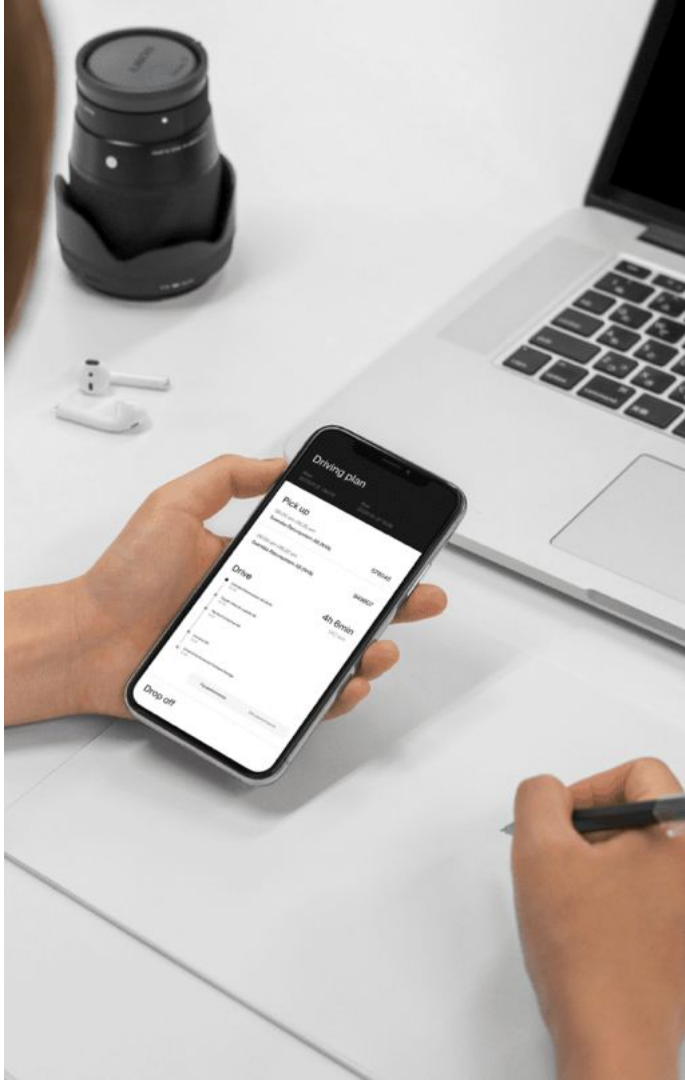
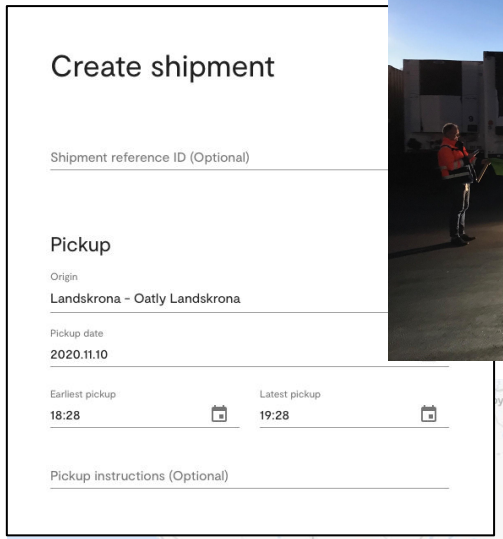
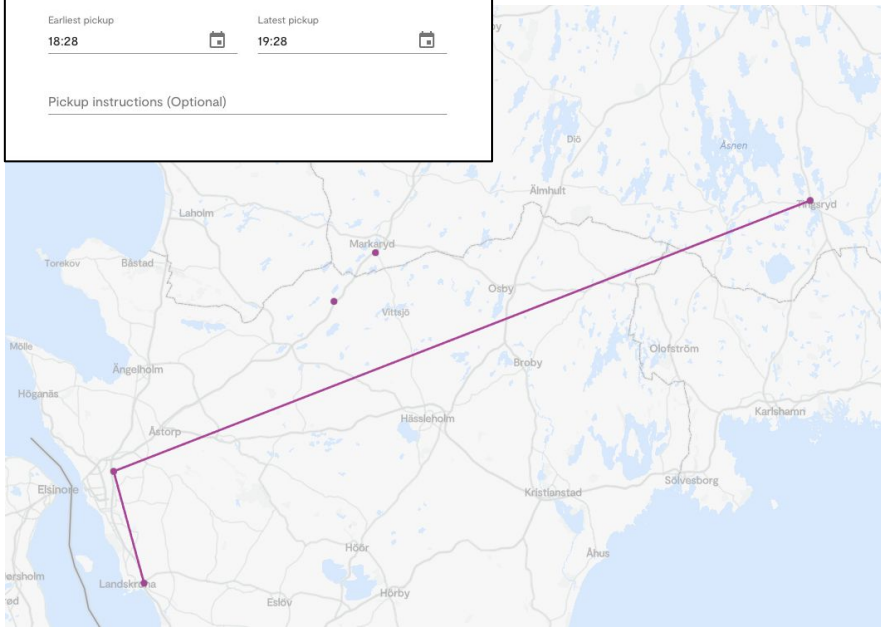


Oatly Project Setup

- 4 Electric Trucks on two separate transportation lanes with 3 drivers per shift.
- The routes are:
  - Landskrona -> Helsingborg
  - Tingsryd -> Helsingborg
- Operations taking place daily since Oct 1st
- Monitored by the Freight Mobility Platform
- Operated by Erikssons Åkeri
- Calculated savings of over 400 tonnes of CO2 per year





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Project Learnings

- New ways of working for drivers
  - Initial range anxiety
  - Charging procedure
  - Schedule to uphold

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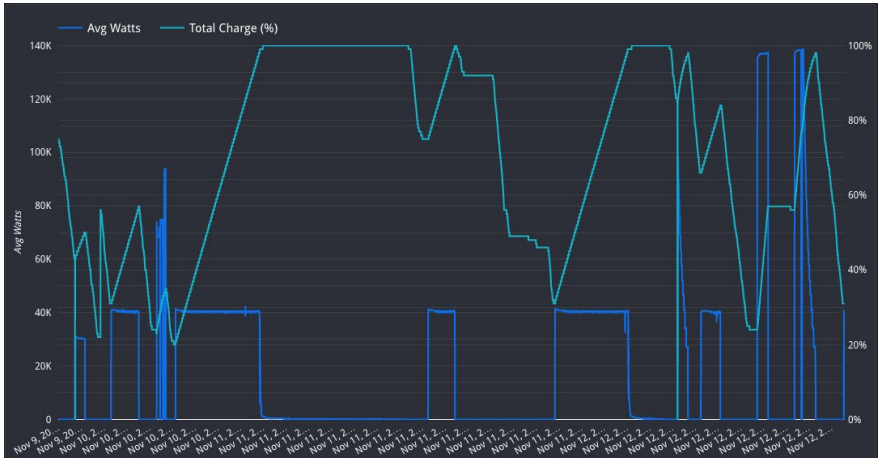
Project Learnings

- System needs to be continuously monitored
  - Charger performance crucial
- Overall optimization efforts needed
  - Bottlenecks are found easier
  - Challenge surrounding processes



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Initial impact

Over 70,000 kms driven electrically

More than 67,000 kgs of CO_2 saved

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Key Takeaways

- Charging Infrastructure
- Vehicle Utilization
- This is possible today!

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Tack för oss!

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