ELECTREON

CHARGING THE WAY FORWARD

May 2019

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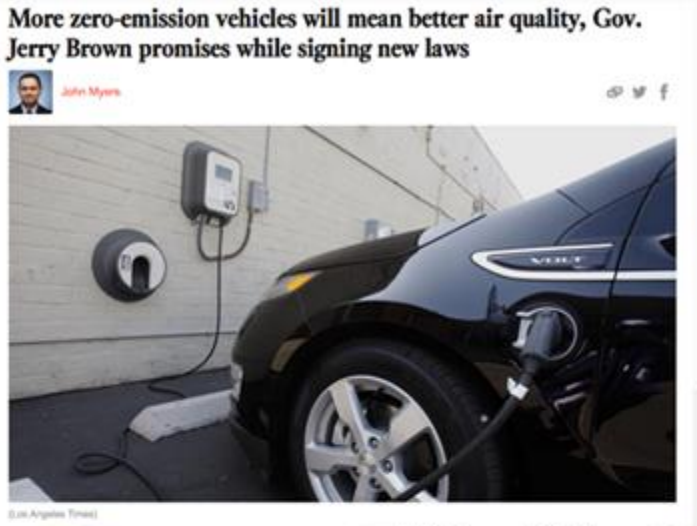
THE CURRENT EV TECHNOLOGY CAN NOT SUPPORT THE 2030 REVOLUTION

שטייניץ מכריז רשמית: מ–2030
תיאסר מכירת מכוניות בנזין וסולר,
ייצור החשמל בפחם ייפסק



LA Times, 2017

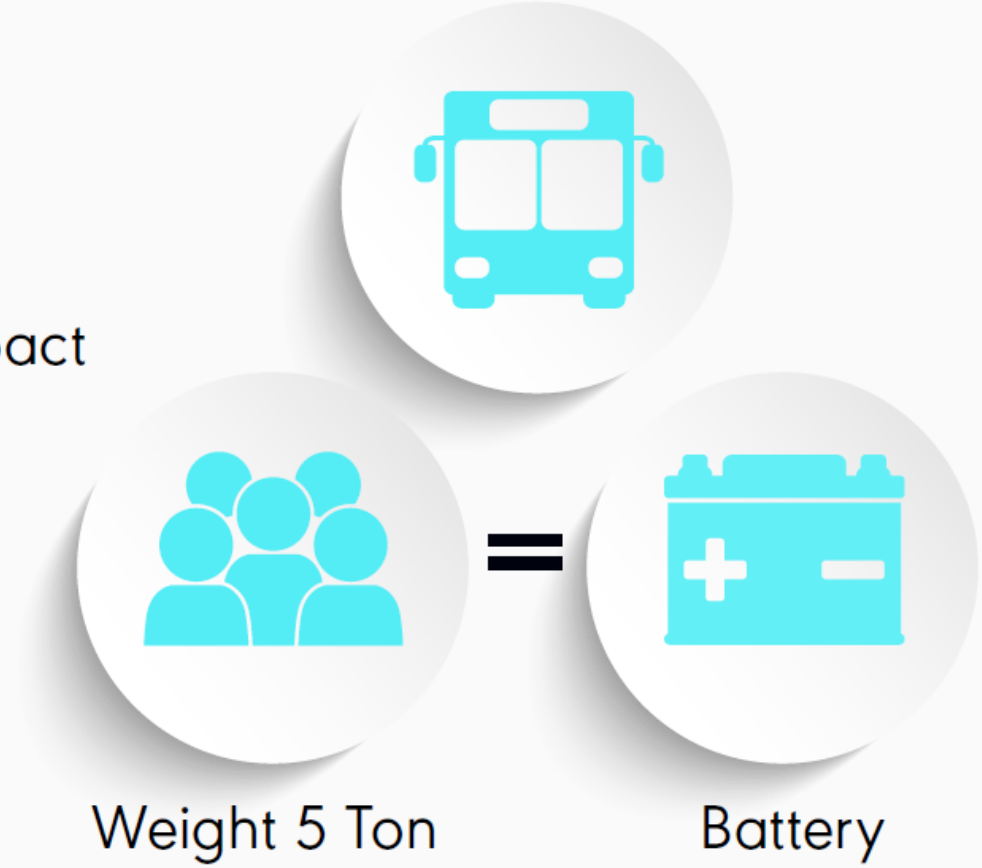
CURBED, 2017

ars TECHNICA, 2017

Green Car Reports, 2017

THE MAIN CONSTRAIN IS THE BATTERY

1. High cost, High weight, Range limitation.
   Limited life time, Recycling
2. Charging infrastructure–
   complicated, land consuming, visual impact
3. Long charging time
4. Heavy on electricity infrastructure



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THE SOLUTION - ELECTRIC ROAD SYSTEM (ERS)

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SO,
WHY WIRELESS?
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WIRELESS ERS IS THE BEST CHOICE

1. Charge all types of EV (all sizes)
2. No negative environmental and visual impact
3. No moving parts at the vehicle side
4. Safe

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ELECTREON- A GLOBAL LEADER IN DYNAMIC WIRELESS CHARGING

- Cost effective
- Robust - minimum maintenance
- Easy and fast deployment
- Efficiency - ~87% during drive
- Real time communication with the vehicle
- Accurate billing
- Smart transportation management

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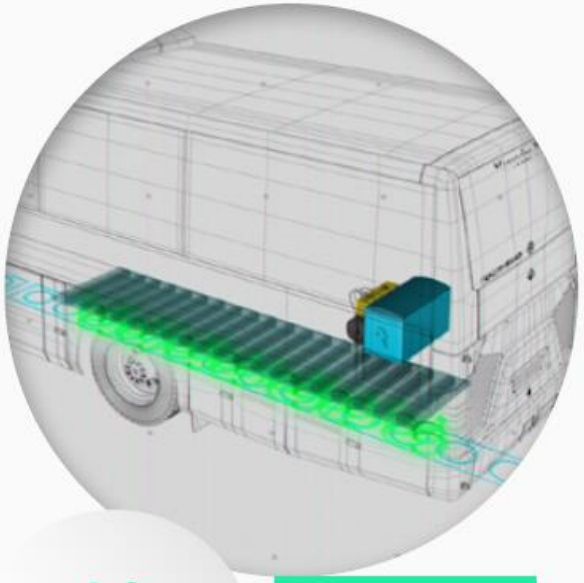
THE TECHNOLOGY

INFRASTRUCTURE

Under the traffic lane

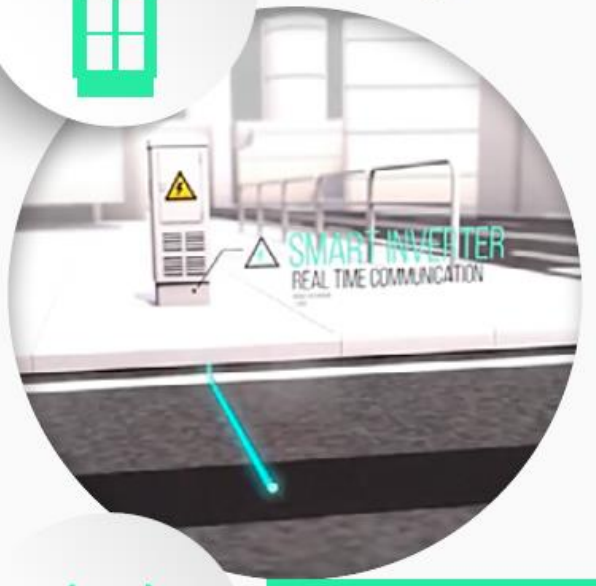


RECEIVER

At the bottom of the vehicle

POWER UNIT

Transfer energy from grid to Inf'



MANAGEMENT UNIT

Real time communication

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DEPLOYING THE INFRASTRUCTURE

1

2

3

4

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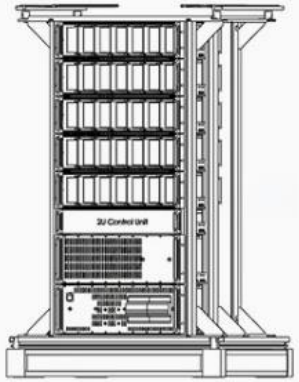
FEATURES

INVERTER

Features:

Modular system

- 400v 3-phases
- 180 KW

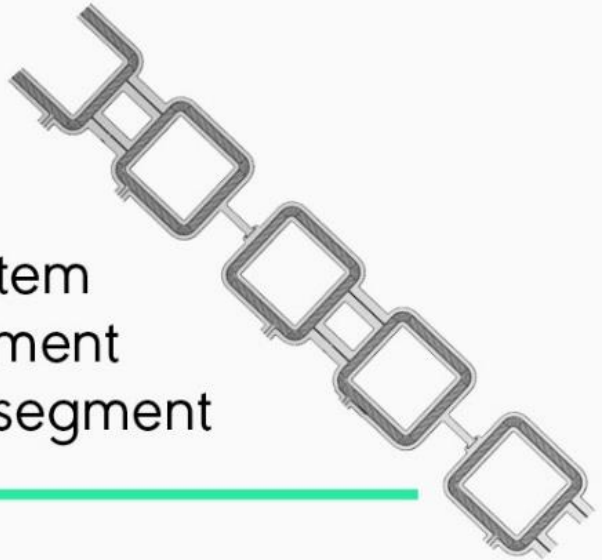


STRIPE

Features:

Modular system

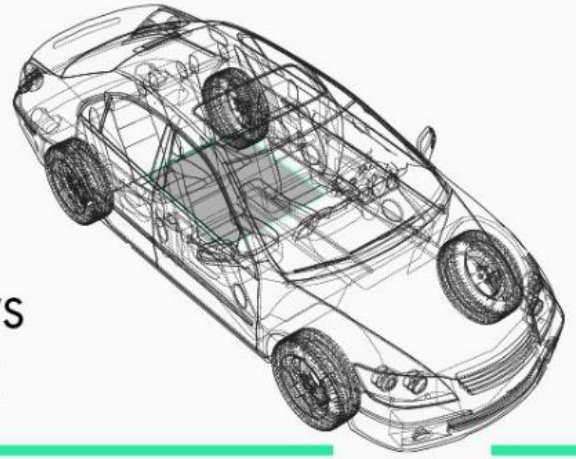
- Passive element
- 25KW per segment



RECEIVER

Features:

- 95x60 cm
- 25KW
- Stabilizing Sys
- Weight 27 kg



SYSTEM

Features:

- Efficiency: 87%
- Meets EMC/EMF standards

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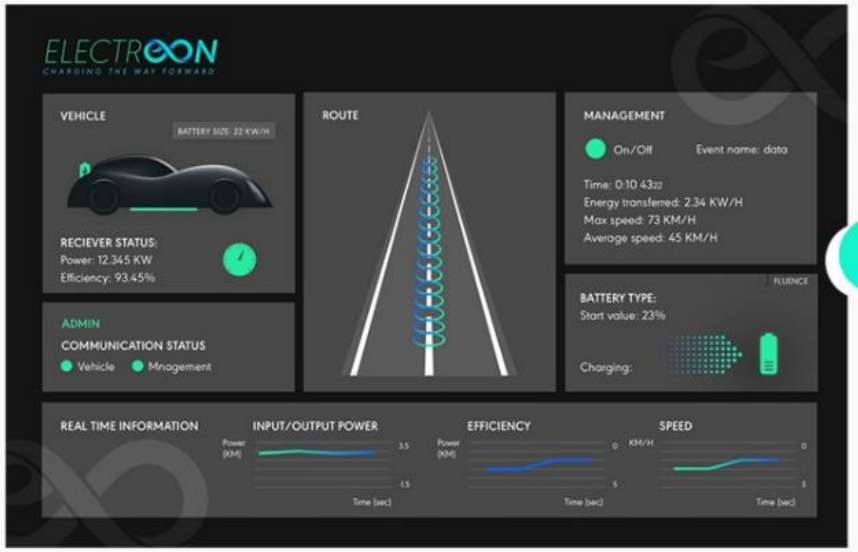
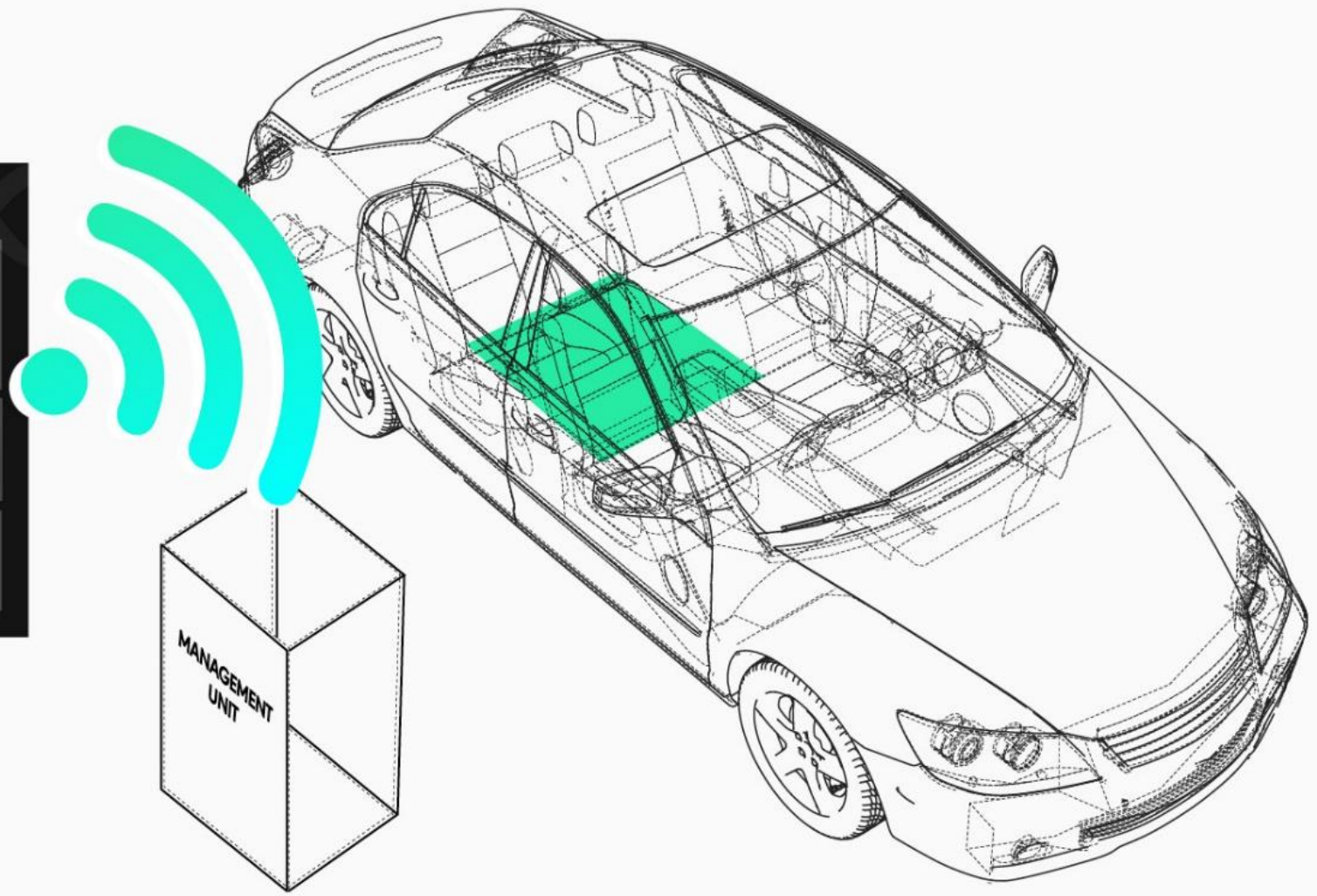
REAL TIME MANAGEMENT SYSTEM





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COMPANY ID:

1. Date established- 2013
2. Public company in the Tel Aviv Stock Exchange

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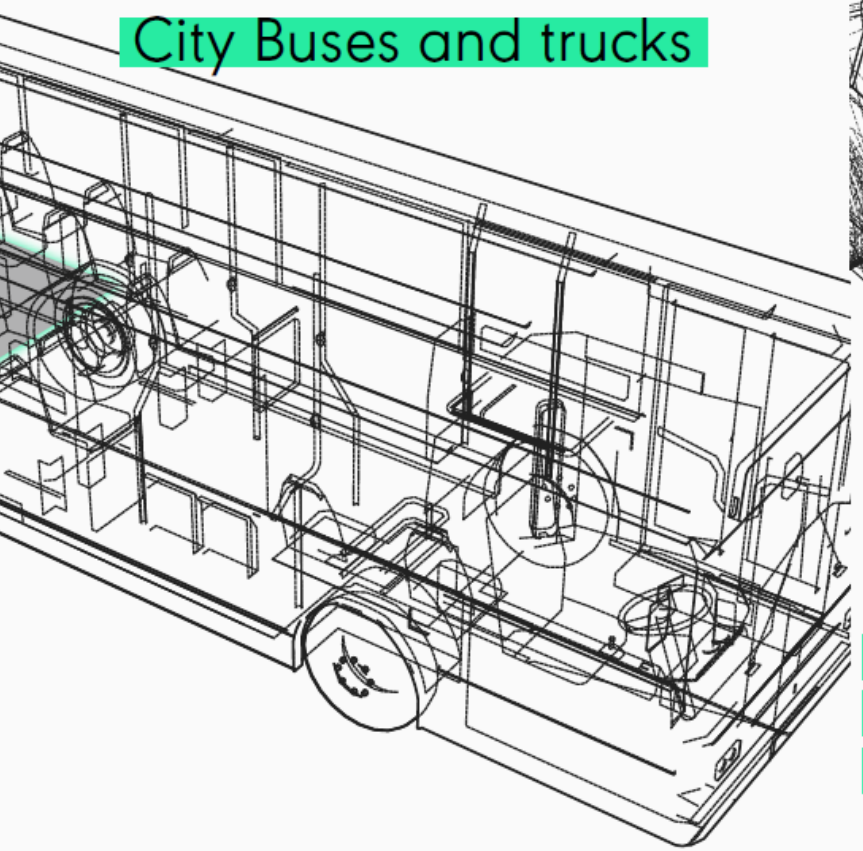
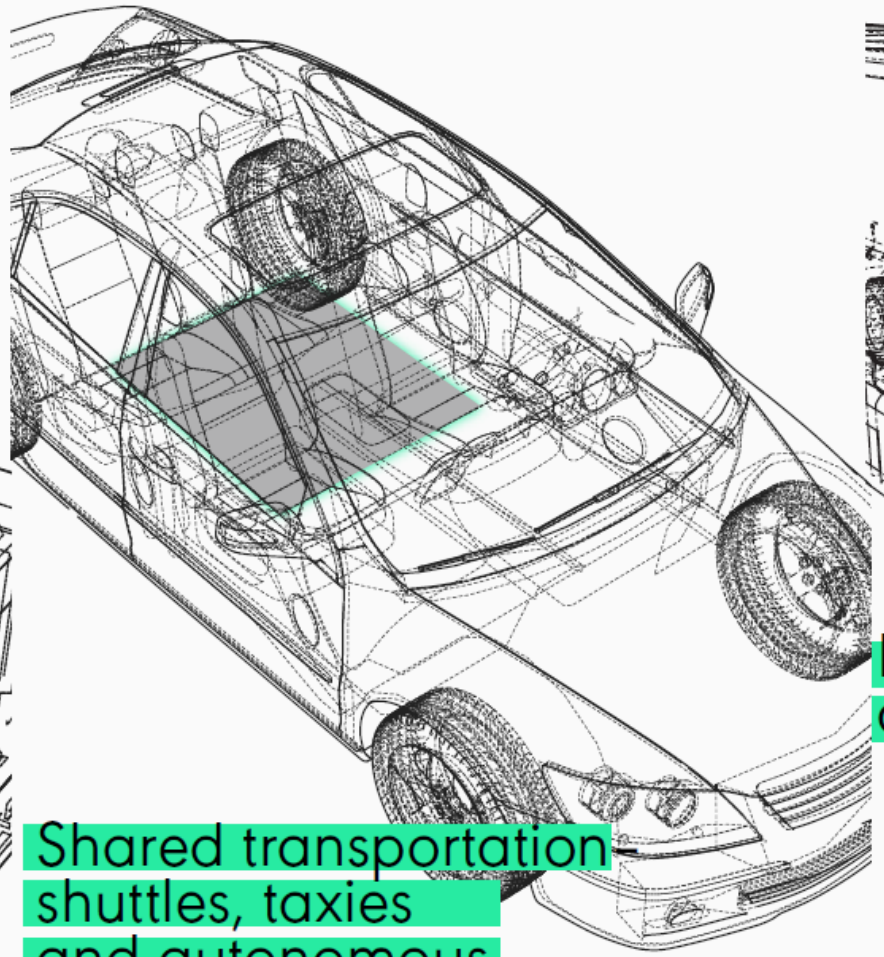
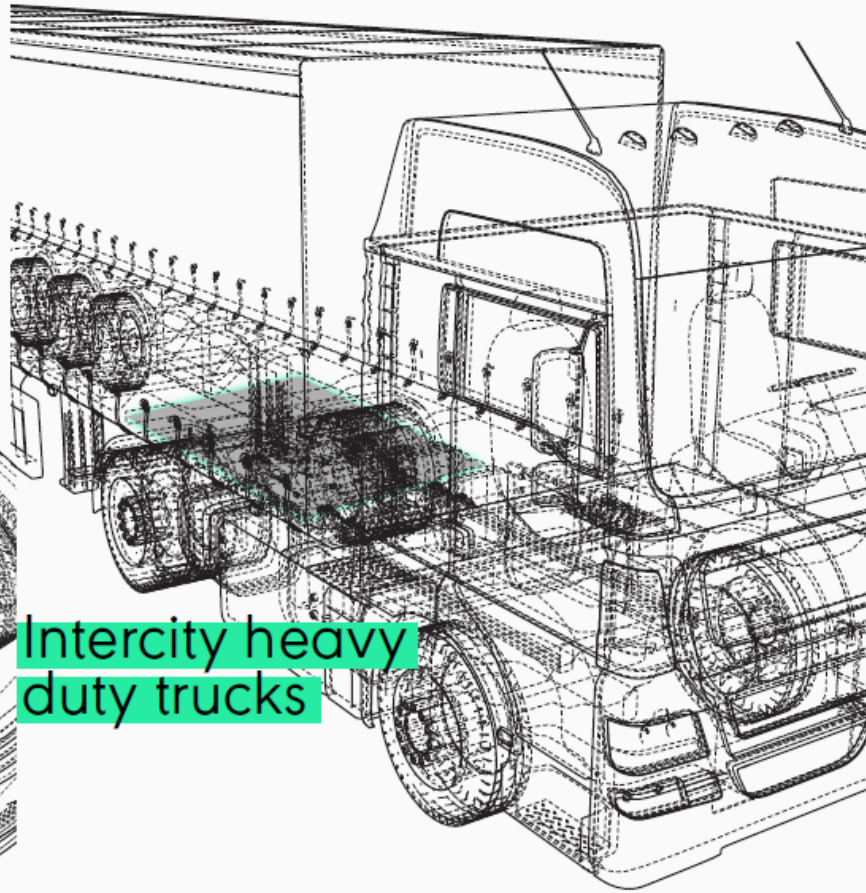
MARKET SEGMENTS

City Buses and trucks





Shared transportation shuttles, taxies and autonomous



Intercity heavy duty trucks

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POTENTIAL MARKET

The annual global expenditure on motor fuel that can potentially be replaced by electrification is estimated to be about $1,100 billion

POTENTIAL REVENUES STREAMS

- Initial setup – Equipment and services
- Operation and maintenance
- Electricity sales and infrastructure usage fees
- Smart City data

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GO TO MARKET – HEAVY DUTY VEHICLES

1

Q3 2019: START A $3M CITY PILOT IN TEL AVIV

with the Tel Aviv municipality and transportation and energy ministries – 1KM charging an E-shuttle on the way to become the first wireless ERS city in the world

2

Q3 2019: START A $12M PILOT IN SWEDEN

1.6KM charging a heavy E-Truck and E-shuttle, financed by the Swedish Road Administration on the way to implement the Swedish ERS roadmap

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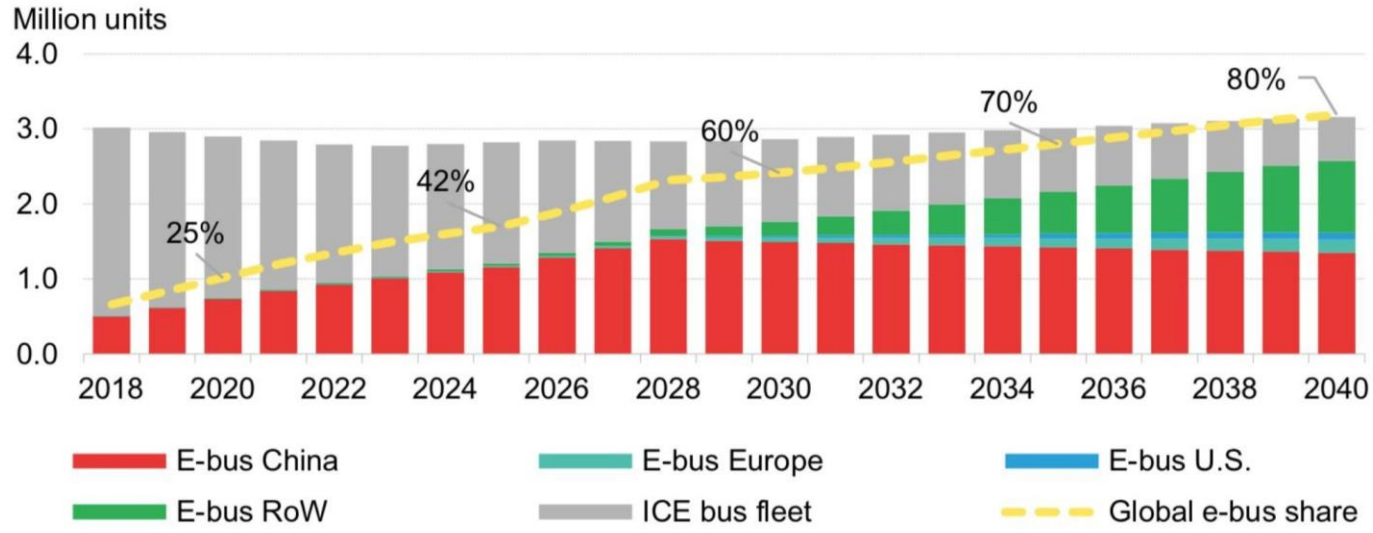
PUBLIC TRANSPORTATION IN URBAN ENVIRONMENT

1 **First demo in Tel Aviv**
1 km E- road charging an electric bus

2 **Vision**
turn Tel Aviv to the first wireless E-road city

Figure 7: Global municipal bus fleet forecast



Bloomberg New Energy Finance

E-TRUCK PILOT IN SWEDEN

- Sweden has created a road map for demonstrating and implementing ERS mainly for trucks
- Electreon was invited to submit a proposal for a pilot on a E-highway with 20-40 Ton E-trucks, total budget - 300 million SEK to be matched by external funds.
- Future goal of approx. 2,000 km ERS for trucks, generating funding requirement of at least 30-40 billion SEK
- Choosing a specific route and building a consortium for the pilot is in process

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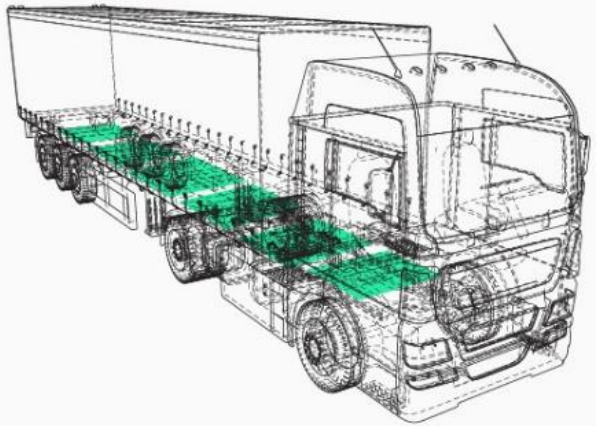
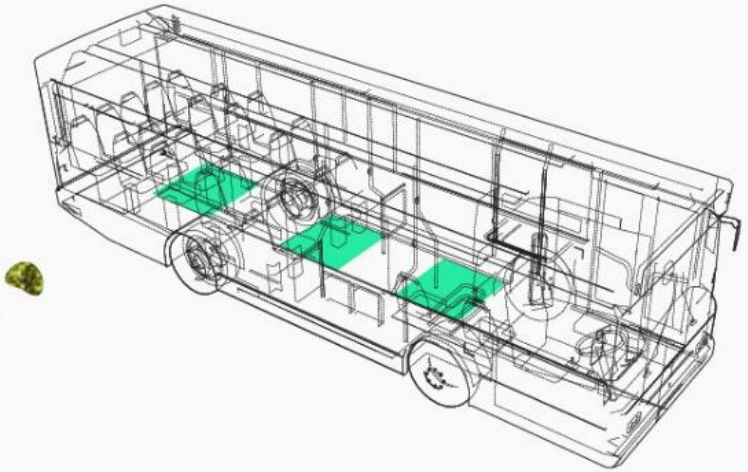
SMARTROAD GOTLAND

The world's first wireless ERS for cars, buses, and trucks on public roads

TRAFIKVERKET





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RI. SE

GOTLAND RING

EITECH

Matters Group

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FUTURE TRANSPORT IN A CITY

1. Electric Public transportation
2. Autonomous buses of different sizes
3. Open to the public 24/7
4. Maximum frequency
5. Minimum monthly cost

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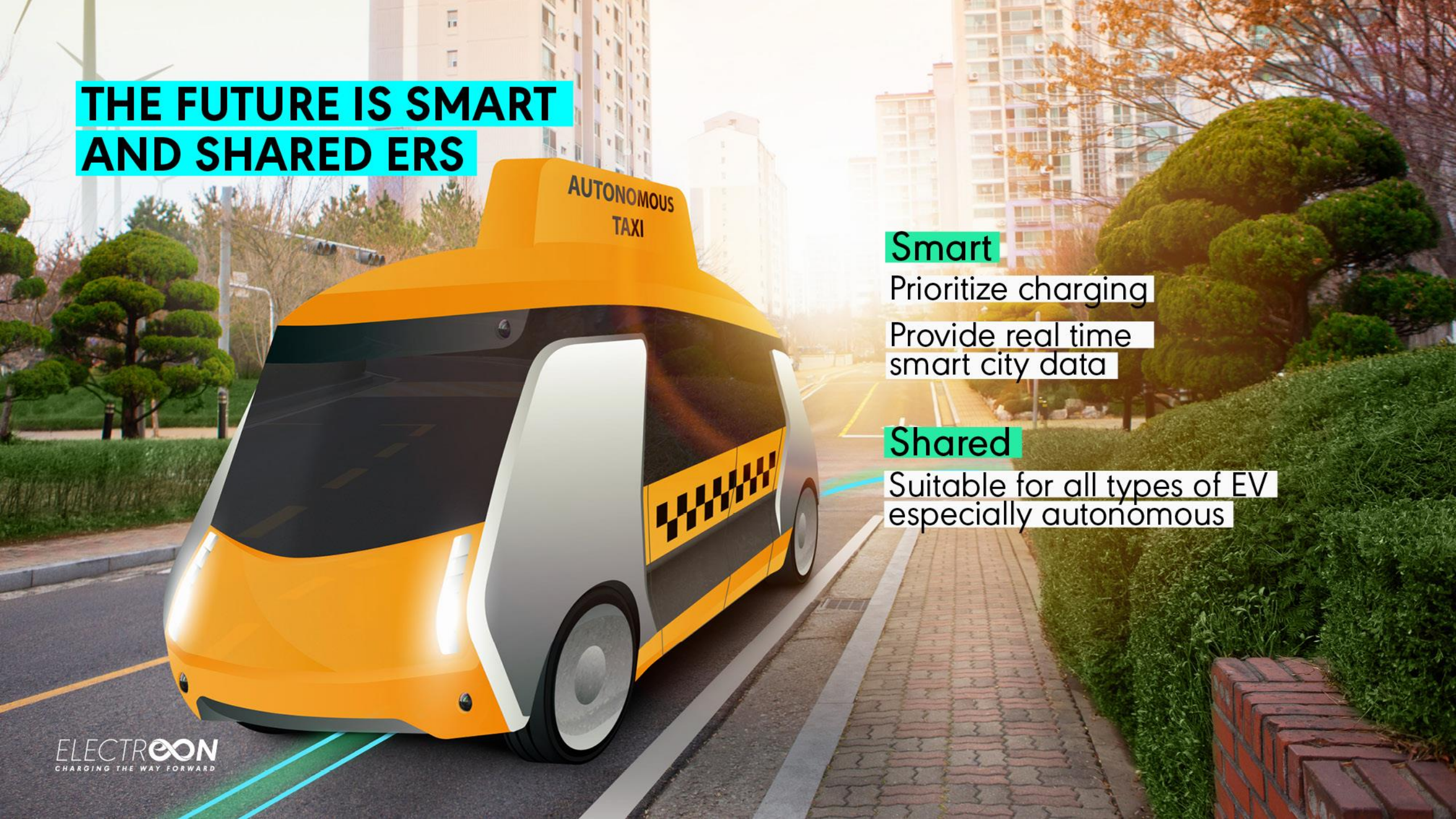
THE FUTURE IS SMART AND SHARED ERS



Smart

Prioritize charging

Provide real time smart city data

Shared

Suitable for all types of EV especially autonomous

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WIRELESS ERS
THE WAY TO 100% ELECTRIC
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