

ELECTR*ON*
CHARGING THE WAY FORWARD

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COMPANY PROFILE



ElectReon is a publicly traded Israeli company



Fully owned subsidiary in Sweden

Last round
~\$50M
(June/2020)

Market cap
~\$483M
(30/6/2020)



Leader in wireless dynamic charging for all electric vehicle types



Three ongoing projects in Israel, Sweden and Germany



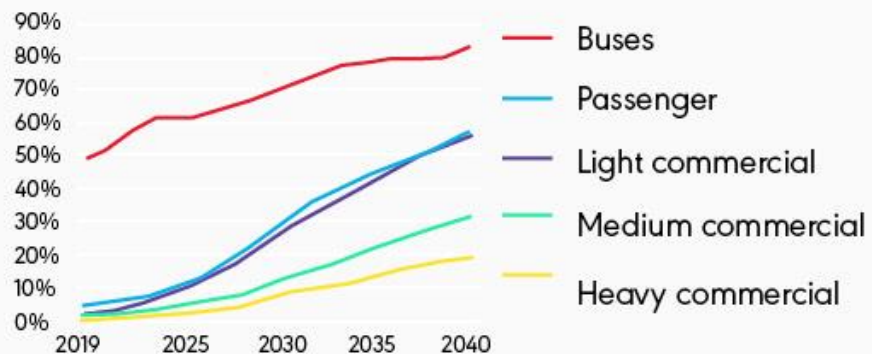
19 patents (registered & pending)

ELECTRO-MOBILITY FIGHTS POLLUTION

Global and urban pollution from transportation is on the rise, and the need for a scalable solution is urgent

- So far, 14 countries, representing over 50% of total vehicle market unit sales, have declared a ban on new internal combustion engine vehicle sales by dates ranging from 2020 to 2040
- A growing number of cities are implementing policies to promote clean public and private transportation
- Market penetration of EV is projected to increase significantly in coming years

EV share of annual vehicle sales by segment



Source: BloombergNEF. Note: Passenger car and bus figures are global. Commercial vehicle segment adoption figures cover the main markets of China, Europe and the U.S.

CHALLENGES

Public transportation, fleet operators and heavy duty trucks are required to shift towards electrification

Batteries are the main constraint:

- **High CAPEX –**
 - Large batteries are expensive
 - High charging infrastructure investment
 - Allocation of real-estate for charging infrastructure
- **High OPEX –**
 - Large batteries are heavy – up to 7 tons (on the account of cargo/passengers capacity)
 - Range limitation
 - Degredation
 - Decreased utilization – downtime during charging
- **At scale, has a high toll on electric grid connection**
- **Environmental impact - battery manufacturing and recycling processes are highly polluting**



SOLUTION - ELECTRIC ROAD SYSTEM

Charging vehicles while driving on the road

Maximized utilization - no need to stop for charging - provides simple and continuous operation

Continuous charging - prolonged battery life

Minimal battery size and weight:

- Lower CAPEX
- Increased energy efficiency and passenger/cargo capacity

EVs with minimal batteries are the most environmentally sustainable solution*

ELECTREON'S SOLUTION WIRELESS CHARGING WHILE DRIVING



Shared infrastructure

Customized charging power
based on each EV requirements



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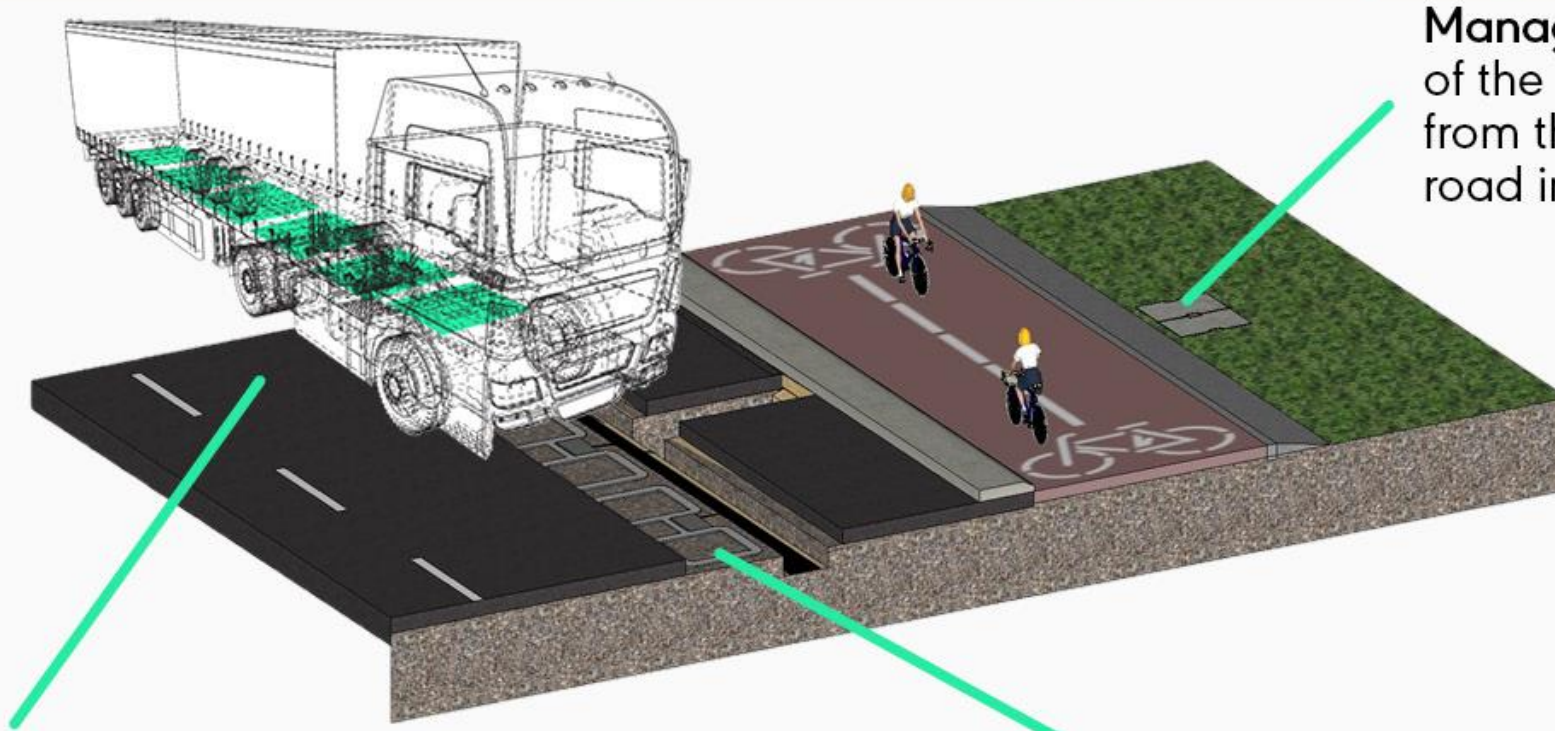
BEFORE

AFTER

No visual impact

TECHNOLOGY

ELECTREON - WIRELESS DYNAMIC CHARGING



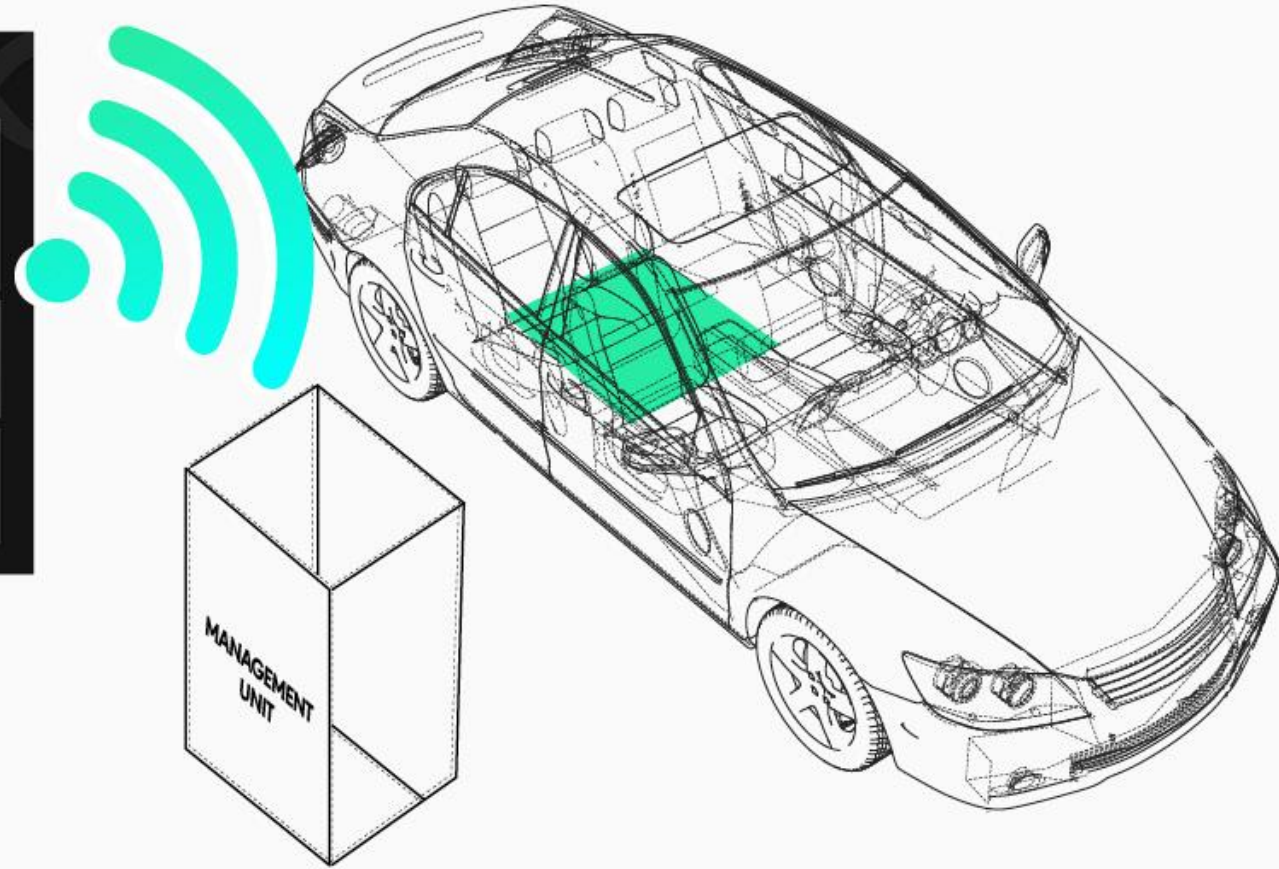
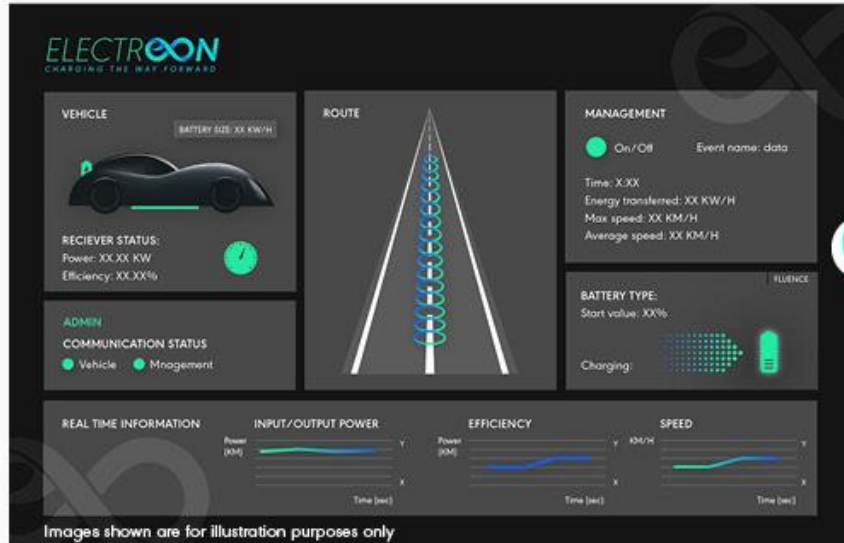
Management unit on the side of the road transfers the energy from the electric grid to the road infrastructure

Receivers are installed on the floor of every vehicle to transmit the energy directly to the engine and the battery. Driver habits are not affected

Infrastructure of copper coils covered by rubber

TECHNOLOGY

ELECTREON - WIRELESS DYNAMIC CHARGING



Real-time management system provides fleet orchestration and smart data on all vehicles: metering, monitoring, location, state of charge and energy management

ELECTREON'S SOLUTION CHARGING AS A SERVICE



Significant savings on batteries- decrease of up to 90% in battery size*



No need to finance, build and operate complicated charging infrastructure



Eliminates range anxiety and dependency on battery performances



Optimized fleet size



Fleet management services

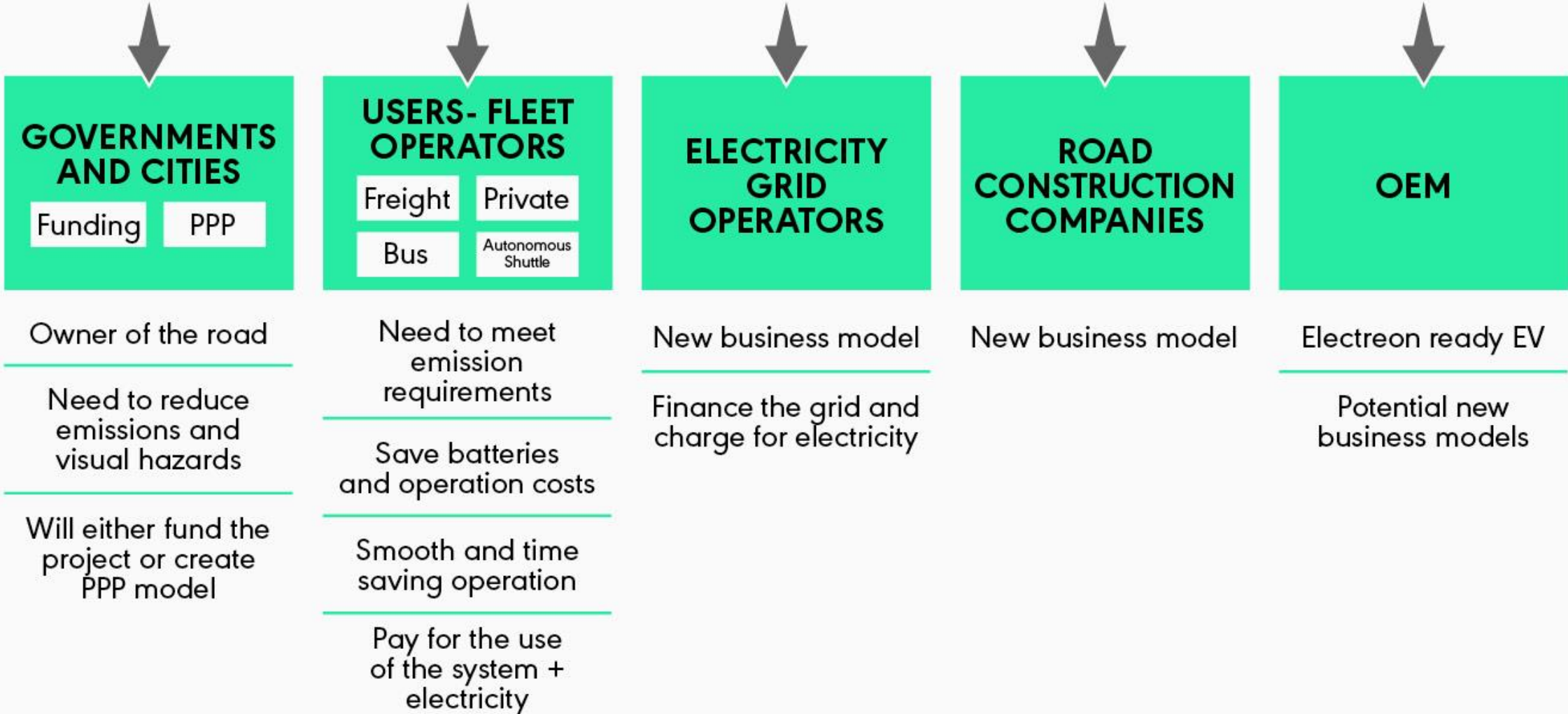
ElectReon offers a cost effective solution - Charging as a Service per use only

TARGET USE CASES

- **Cities**
 - Base user – buses
 - Additional users – fleets of delivery trucks, shuttles, taxis, municipality service
- **Highways/Ports/Industrial zones**
 - Base users – long haul/drayage trucks
 - Additional users- intercity buses and passenger EV
- **Only a combined solution of dynamic electric roads in cities and inter-city roads can provide 100% electrification**
- **Dynamic electric roads are optimal for continuous driving of autonomous vehicles***



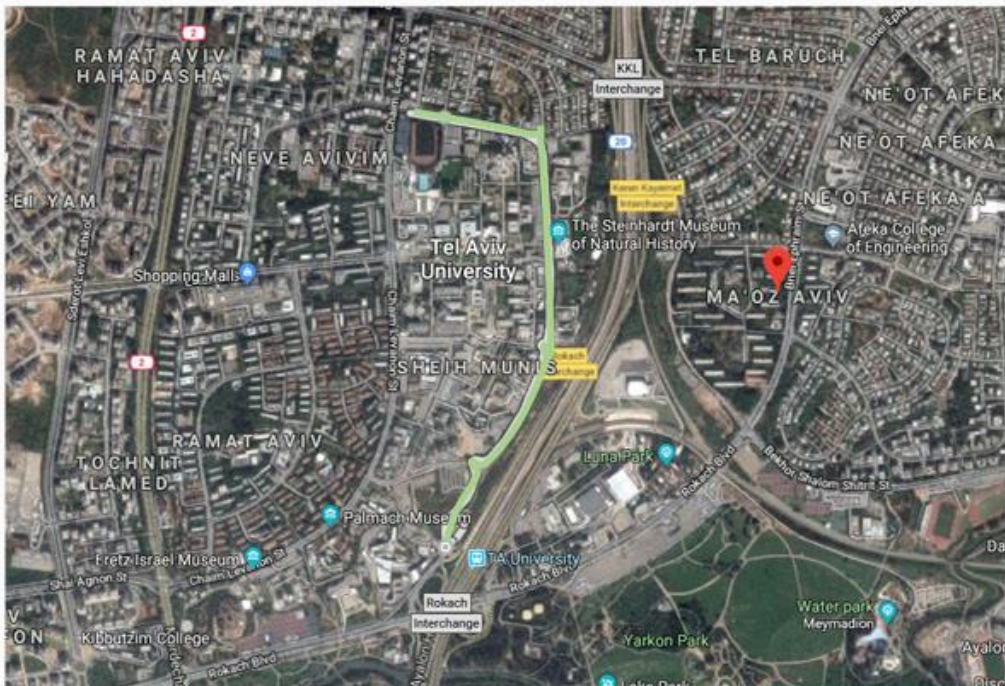
STRATEGIC PARTNERS



ONGOING PROJECTS

TEL AVIV PILOT

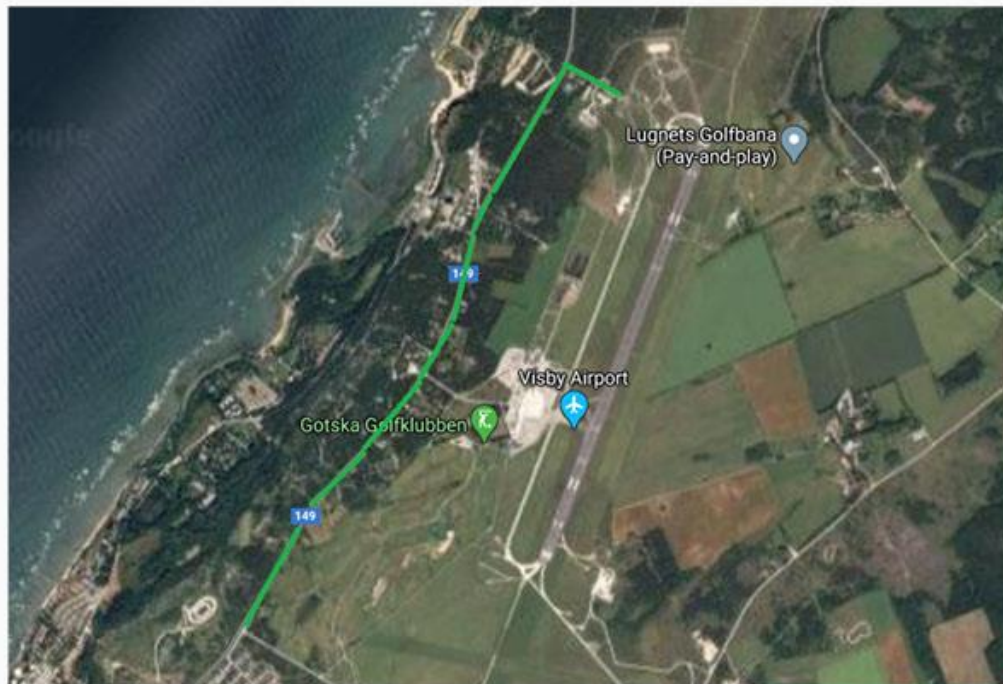
- Urban e-bus shuttle, charged by a wireless electric road system
- 600m long electric road, part of a 2km route between train station and Tel Aviv University in Israel
- A static charging station, to be used by the bus in between rounds
- Majority of the project is financed by the Israel Innovation Authority
- Project scope: \$2.9M



ONGOING PROJECTS

SMARTROAD GOTLAND

- The world's first wireless electric inter-city road system charging of an e-bus and an e-truck
- 1.6 km long electric road, part of a 4.1 km route between the airport and town center of Visby on Gotland island, Sweden
- Majority of the project is financed by the Swedish government to reduce CO2 emissions from heavy transportation
- Project scope: \$12M



ONGOING PROJECTS

ENBW PILOT

- E-bus shuttle, charged by the first wireless electric road system (ERS) in Germany
- The wireless ERS will power a bus line that will connect the new EnBW training centre in Karlsruhe's Rhine harbour to the local public transport system
- The bus will be operated by the Karlsruhe Transport Company - VBK, the municipal transport company of the city of Karlsruhe



TECHNOLOGY READINESS INFRASTRUCTURE



10/2019

Training session for
EU partners in Israel

11/2019

First deployment
on a public road in Sweden



TECHNOLOGY READINESS RECEIVERS



NEAR TERM OPPORTUNITIES

Israel



BRT and fast lane
for public transport

Sweden



TRAFIKVERKET

30 KM ERS
Commercial pilot
for long haul
implementation
on about 3,000KM

Germany



Wir möchten unsere Branche durch
digitale Innovationen bereichern.
Das sind Themen, die uns bewegen.



City buses,
Long haul trucks
and shuttles
implementation
on about 4,000KM

Italy



Italy is planning
to deploy ERS on
the A35 toll road

California



GLOBAL COMMERCIAL VEHICLE
DRIVE TO ZERO



A PROGRAM
OF CALSTART

Acceleration
plan for LA
and beyond
includes \$95B
for infrastructure

ELECTREON EXPECTED REVENUE STREAMS

- Sales of equipment/licenses
- Project integration and setup
- Operation and maintenance fees
- Infrastructure fees/ROI in cases where ElectReon partakes in a PPP project consortium
- Providing smart data to government/city/grid/EV operator
- Expanding services to other types of EVs, such as delivery trucks, shuttles, private

THANK YOU!

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