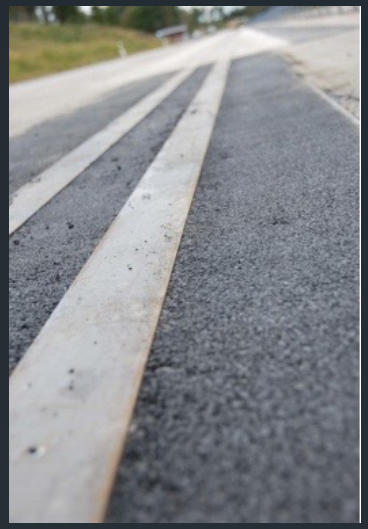
ELONROAD

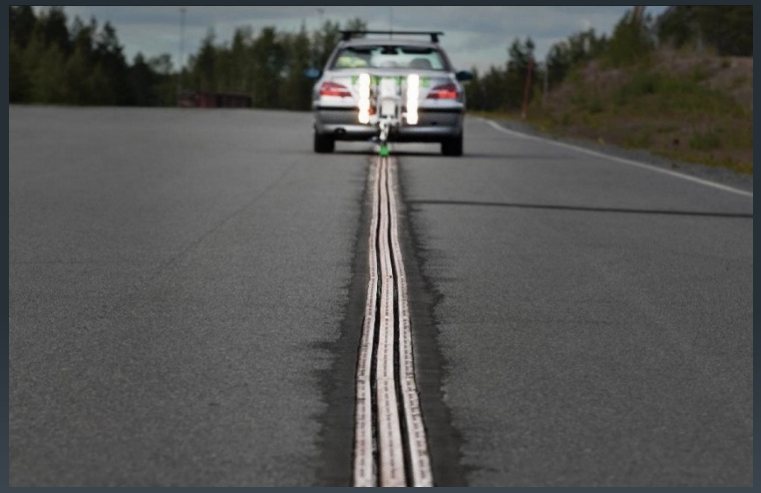
Electric road system

Electric Roads

Conductive tests in Sweden



Alstom / Volvo

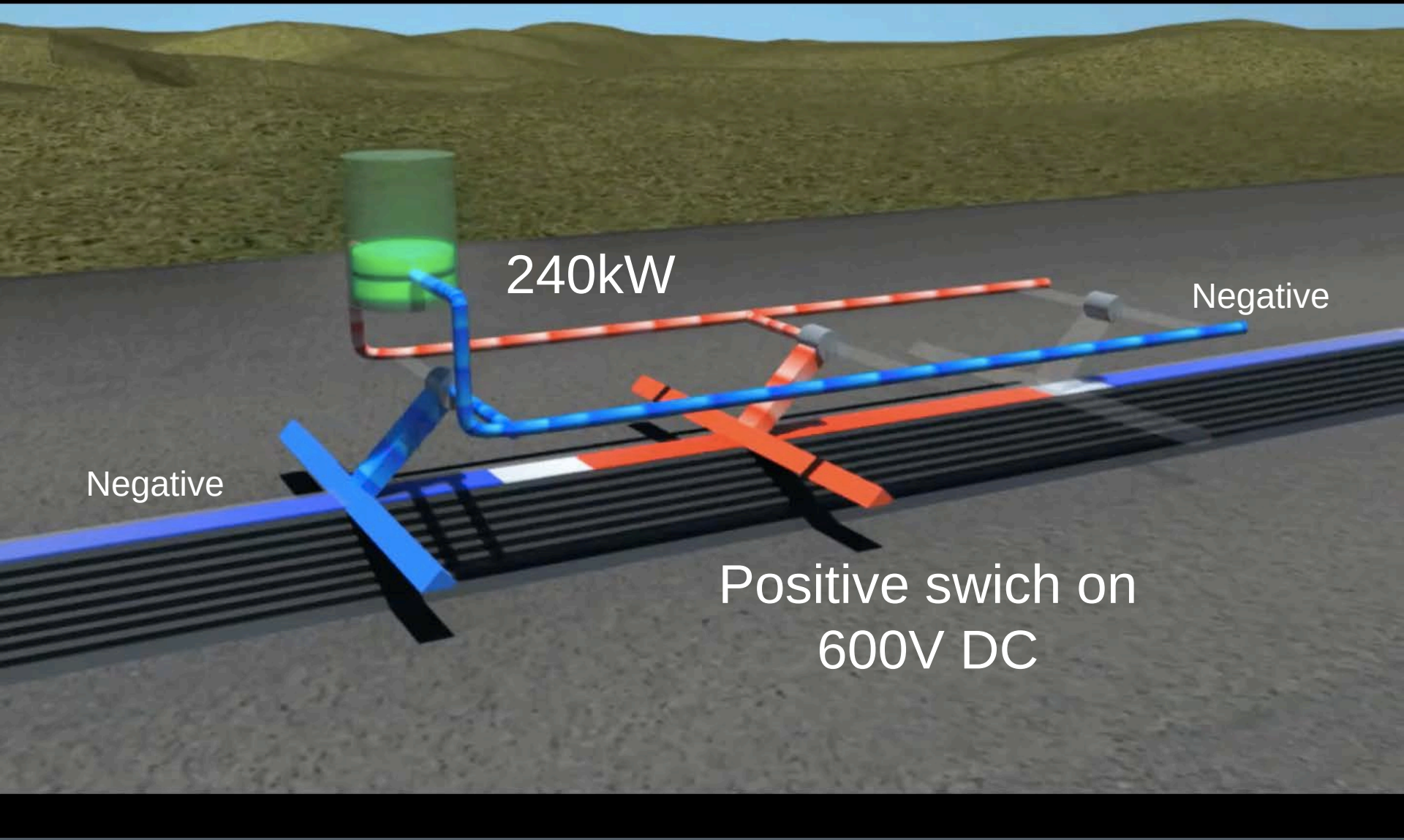


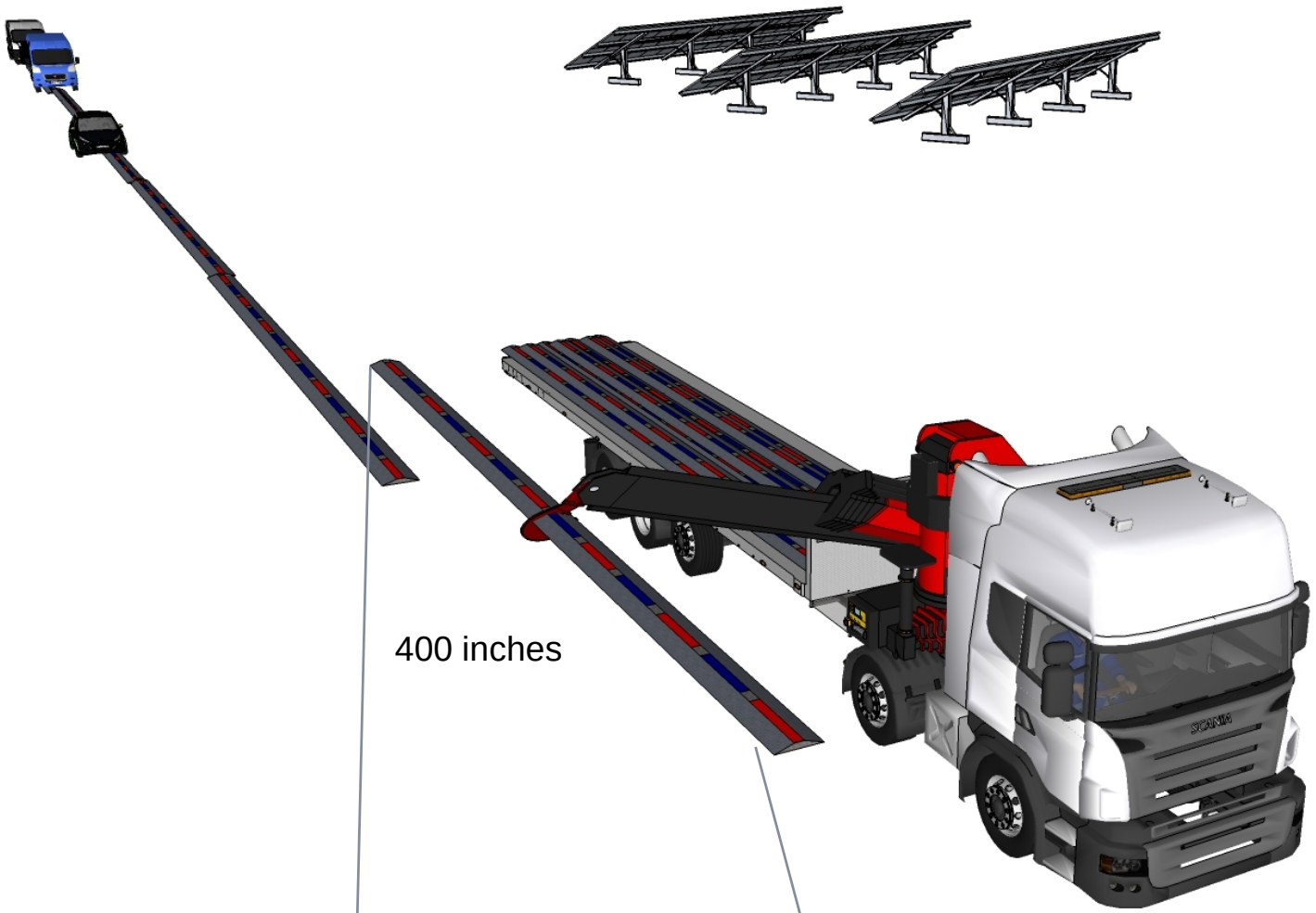
Elways / Arlanda

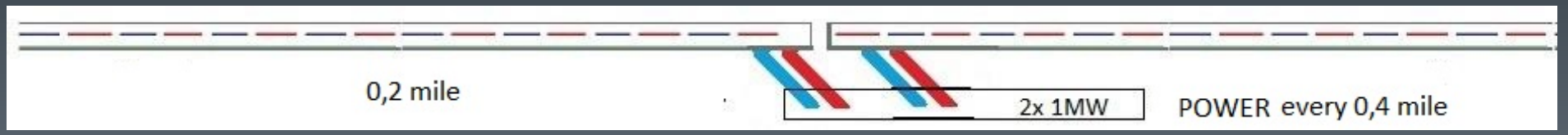
Siemens / Gävle

The idea

Movie


240kW
Negative
Negative
Positive swich on
600V DC

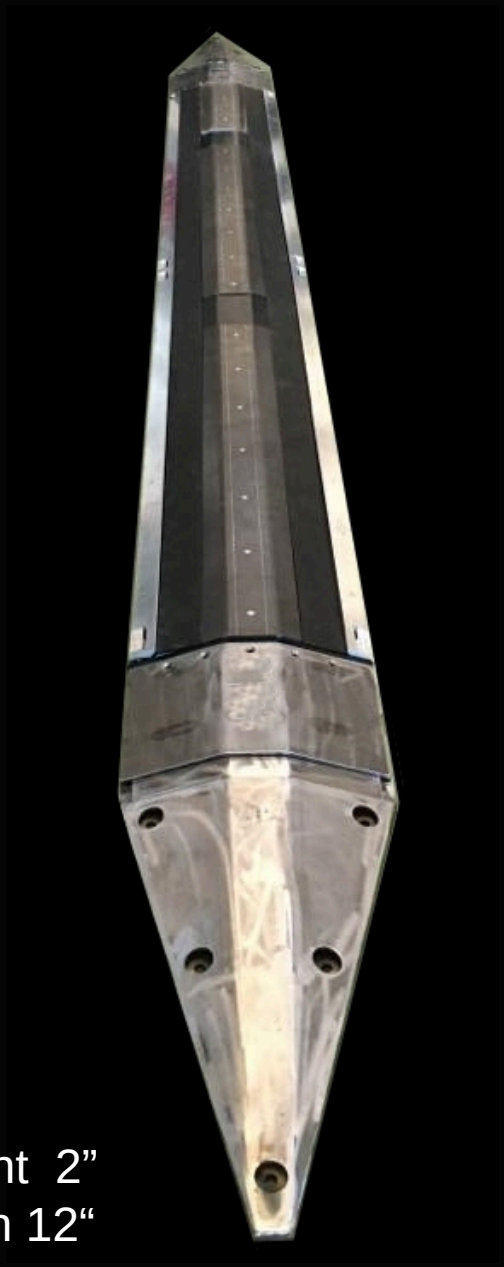

400 inches


0,2 mile
2x 1MW
POWER every 0,4 mile

Built in:

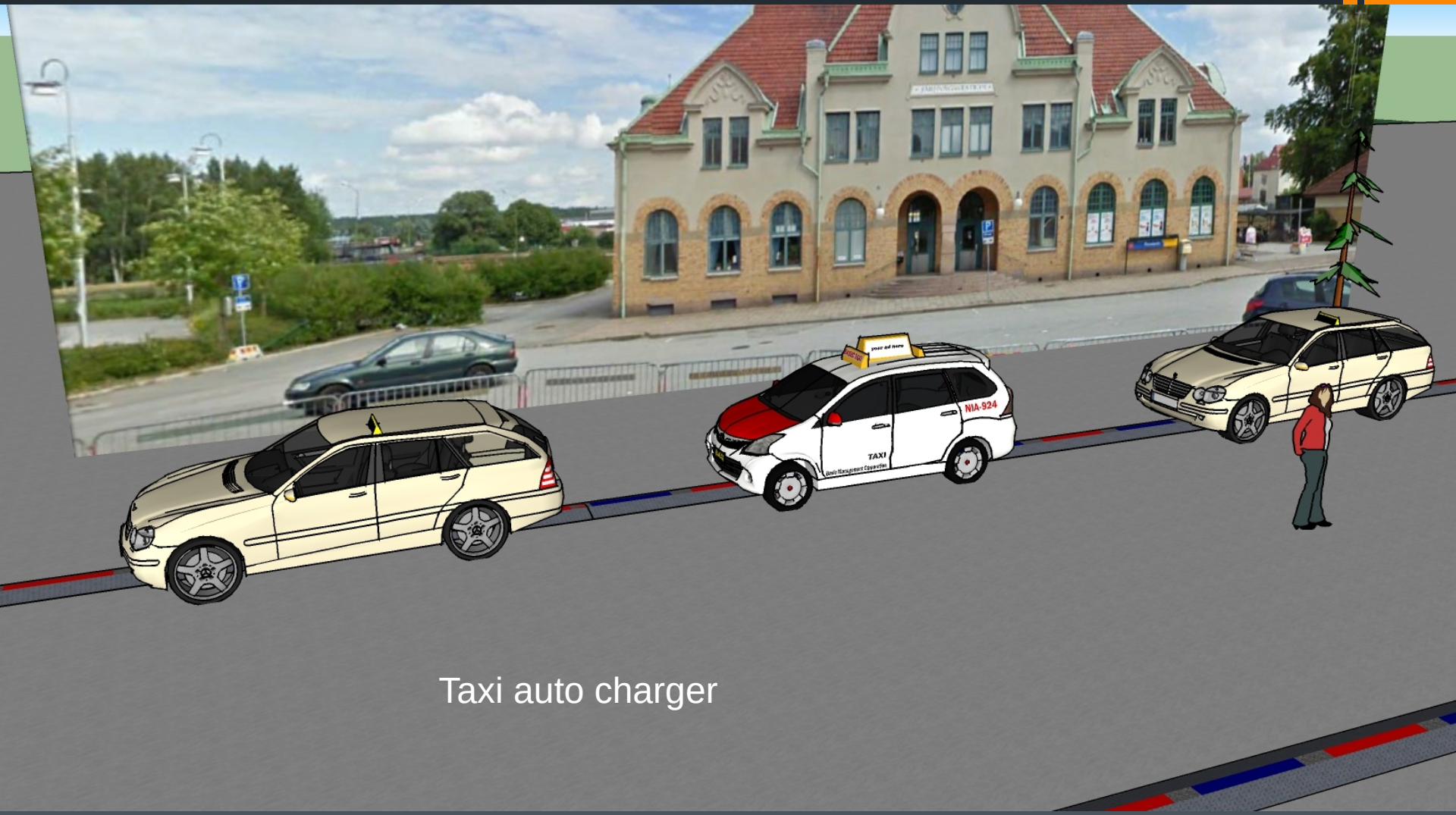
- Controls
- Safety system
- Communication

- Sensors
- Individual data / vehicle
- Billing system

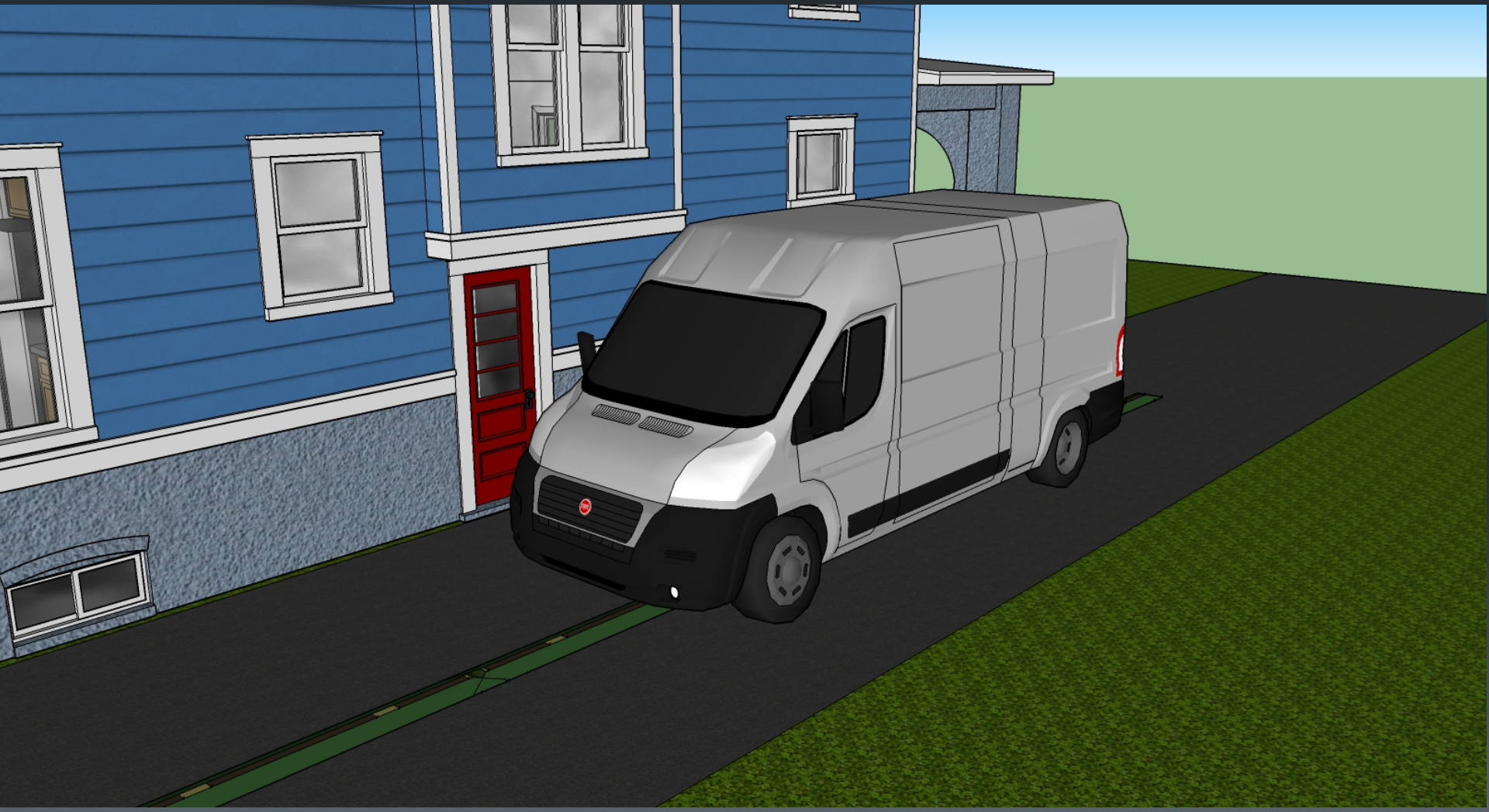


Height 2”
Width 12“

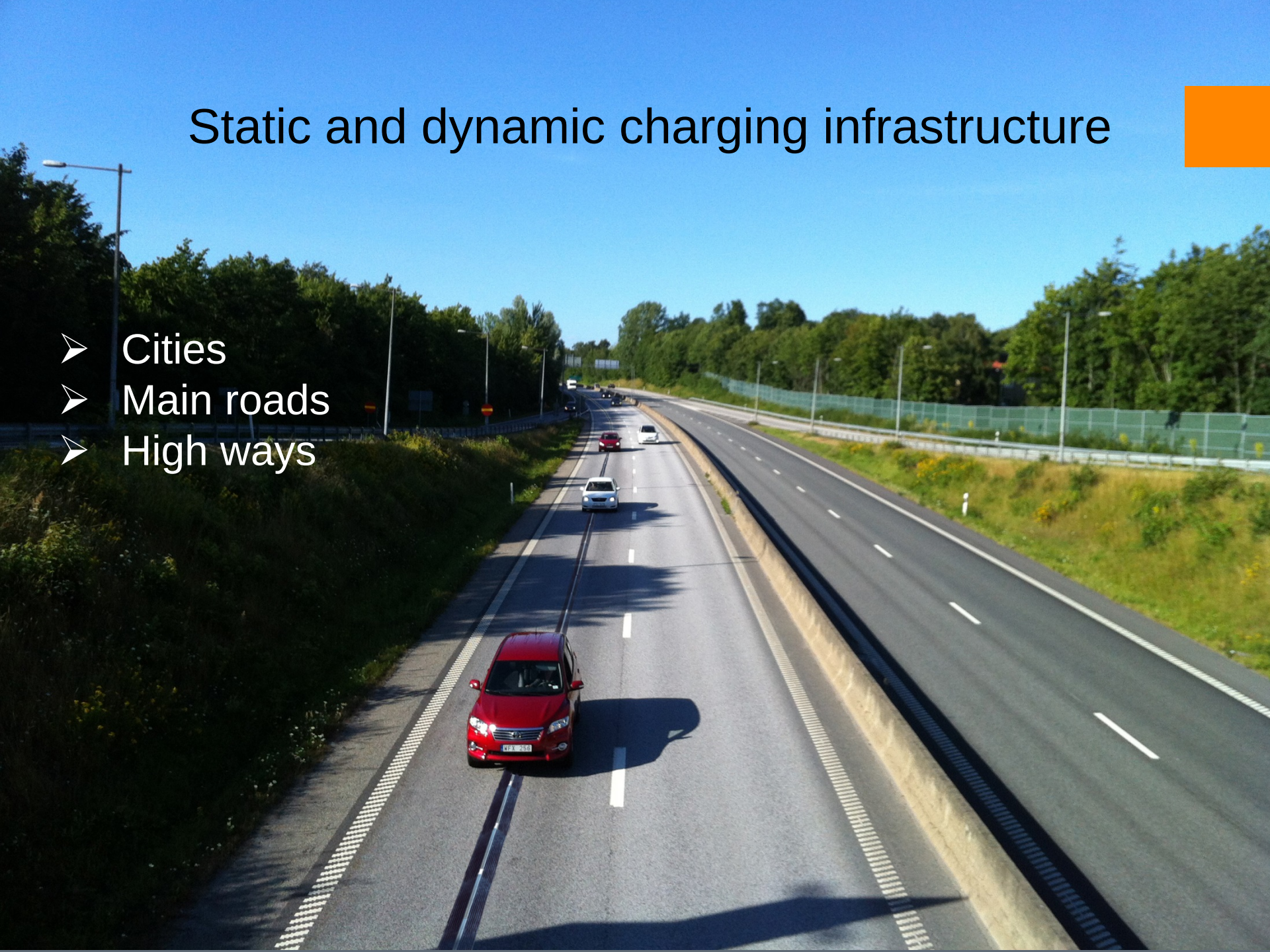
Bus stop charger



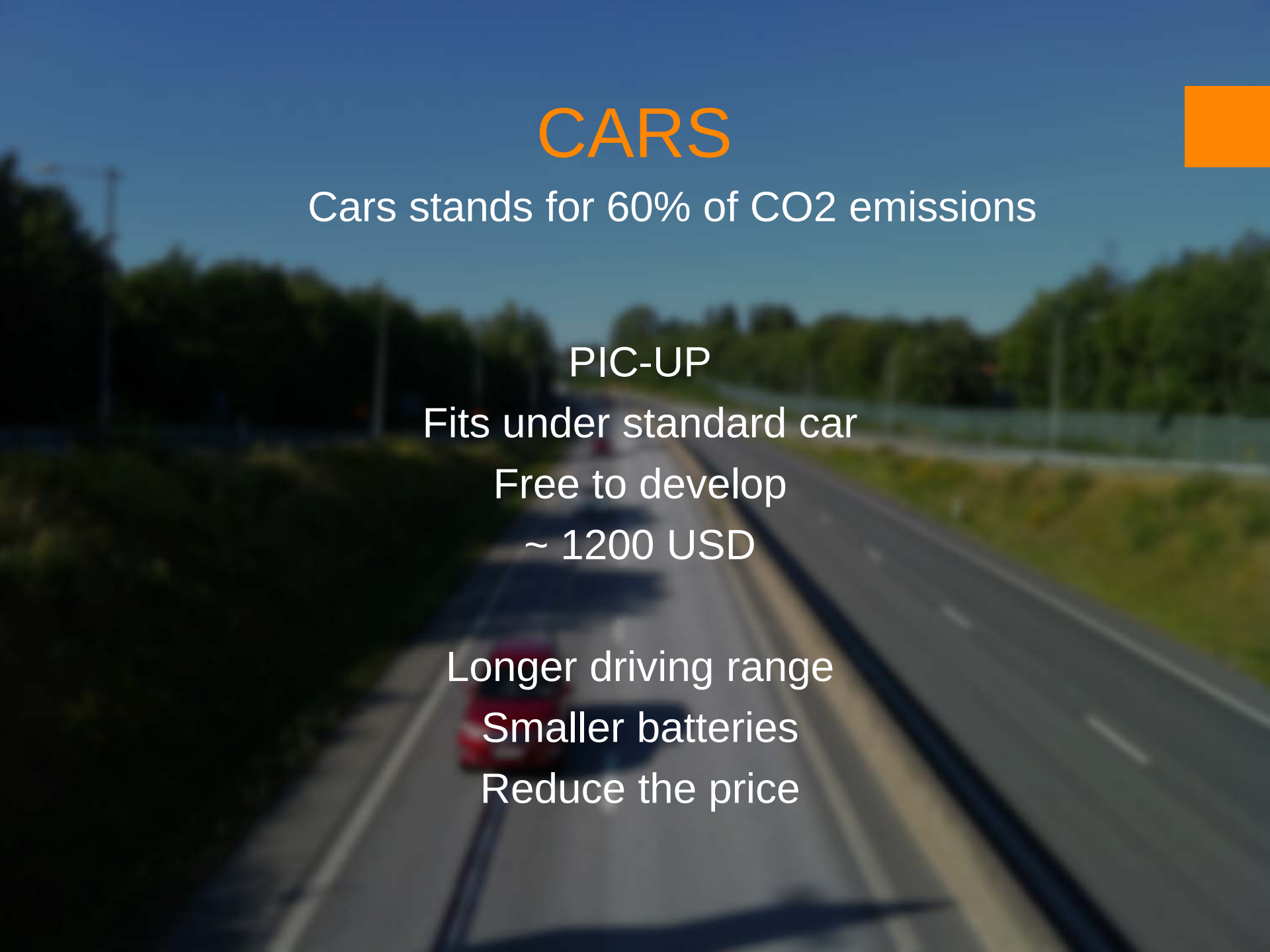
Taxi auto charger



Static and dynamic charging infrastructure



- Cities
- Main roads
- High ways



CARS

Cars stands for 60% of CO_2 emissions

PIC-UP

Fits under standard car

Free to develop

~ 1200 USD

Longer driving range

Smaller batteries

Reduce the price

ECONOMY

City of Lund buses

10 year of fuel cost

=

Infrastructure + Eletricity+ Battery

ECONOMY

Elonroad 1,2 million USD/mile
(0.6 million EUR/km)

Sweden 9000 miles electric road

Electric road infrastructure for Sweden
~ 21 billion dollar

Fuel – electricity saving
~ 60 billion USD / 10 YEAR

4,5 million cars with 1/3 battery cost
~ 30 billion dollars saving

STATUS

- ✓Swedish Energy Department 1,5 million dollars
- ✓Energy Company Kraftringen and Volvo AB
- ✓Lund University develop a 200m demonstration road 2017
- ✓Test site Green City Mariestad 2019

Global impact

- Shift to electric transports
- Reduction of greenhouse gases
- New industry

Thank You!

Dan Zethraeus

ELONROAD