



#### 53% of the population currently lives in urban areas

## 64% of all travel made is within urban environment

## All pollutants will cause approximately 8 million global fatalities by 2020

#### "Almost one quarter of carbon emissions is caused by the transport sector"





## **The Alternative**











# **Electric mobility** Protescar



#### A family traveling in Europe, taking their energy with them



#### **Isn't it ridiculous?**



#### And... What about this story??





#### 1.2 ton car @ 300 kg battery







# 14 ton bus@ 6 ton battery\$ 540 total cost@ \$ 253 battery cost



#### Wireless Energy

MAGNIFYING TRANSMITTER





## Technology





## Technology

Coils schematic

Ration of air gap and coil diameter against coil quality Q







## Technology

Compliance with the legal value limits in the vehicle and in the environment.





## The Challenges

- **Cost:** Cheaper than the existing solutions
- Range: A limited range should not be an issue
- Infrastructure: easy to install, low signature
- **Safety:** removing the energy source



#### **Our Solution**

#### Powering a vehicle on the road

- Receiver: is placed at the bottom of the vehicle
- Accumulator array (stripe): installed under the asphalt
- converter communication system





#### **Our Solution...**





#### **Our Solution...**







## **The Alternative**

	Hybrid	Electric Bus (Battery)	SuperCap Charged along the road	Battery charged during ride	Trolley	ELECTROPIC Energy
Bus costs	Very high	Very high	High	Medium	Medium	Low
Infrastructure costs	Low	Medium	High	High	High	Low
Flexibility with other vehicles	۷	٧	Low	Medium	Low	V
Maintenance	Medium	Medium	Medium	Medium	High	Low

# The enabler of large scale adoption of pure electric buses

