



Unplugged

nuibing886a

Inductive Charging for EVs

Stefano Persi

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enide



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AVERE

TNO innovation
for life



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evs|27
The 27th INTERNATIONAL
ELECTRIC VEHICLE
SYMPOSIUM & EXHIBITION
BARCELONA
17th-20th November 2013

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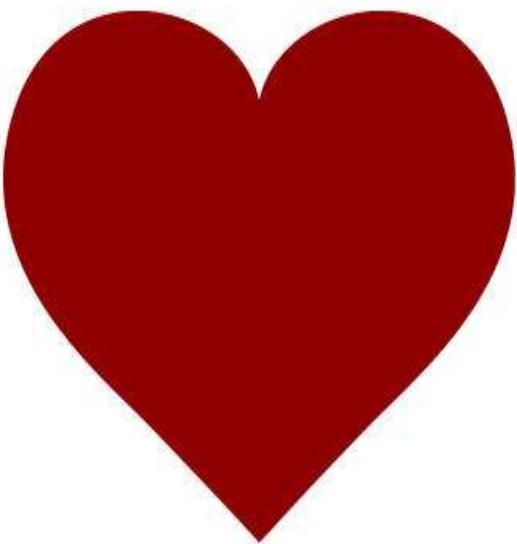


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SEVENTH FRAMEWORK
PROGRAMME



i  me

Are cables ok?

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Some issues...



- Weather (rain, snow, cold, heat)
- Dirty cable
- Forget to unplug it
- Handling high power cable
- Urban impact
- Vandalism
- ...

Charging while driving or at traffic light



UNPLUGGED Scenarios (1/2)



STATIONARY charging

- › The vehicle is not moving for a medium/long period of time (>5 minutes)
- › The driver does not intend to use the vehicle soon
- › Scenarios: Parking at home / the office / the supermarket etc.



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UNPLUGGED Scenarios (2/2)

Static EN-ROUTE charging

- › The vehicle is not moving for a short period of time (<5 minutes)
- › The driver is likely still on the vehicle, on the way to his/her target location or intends to use the vehicle again very soon
- › Scenarios: Traffic light, Bus stop, Taxi stand, Delivery truck

Dynamic EN-ROUTE charging

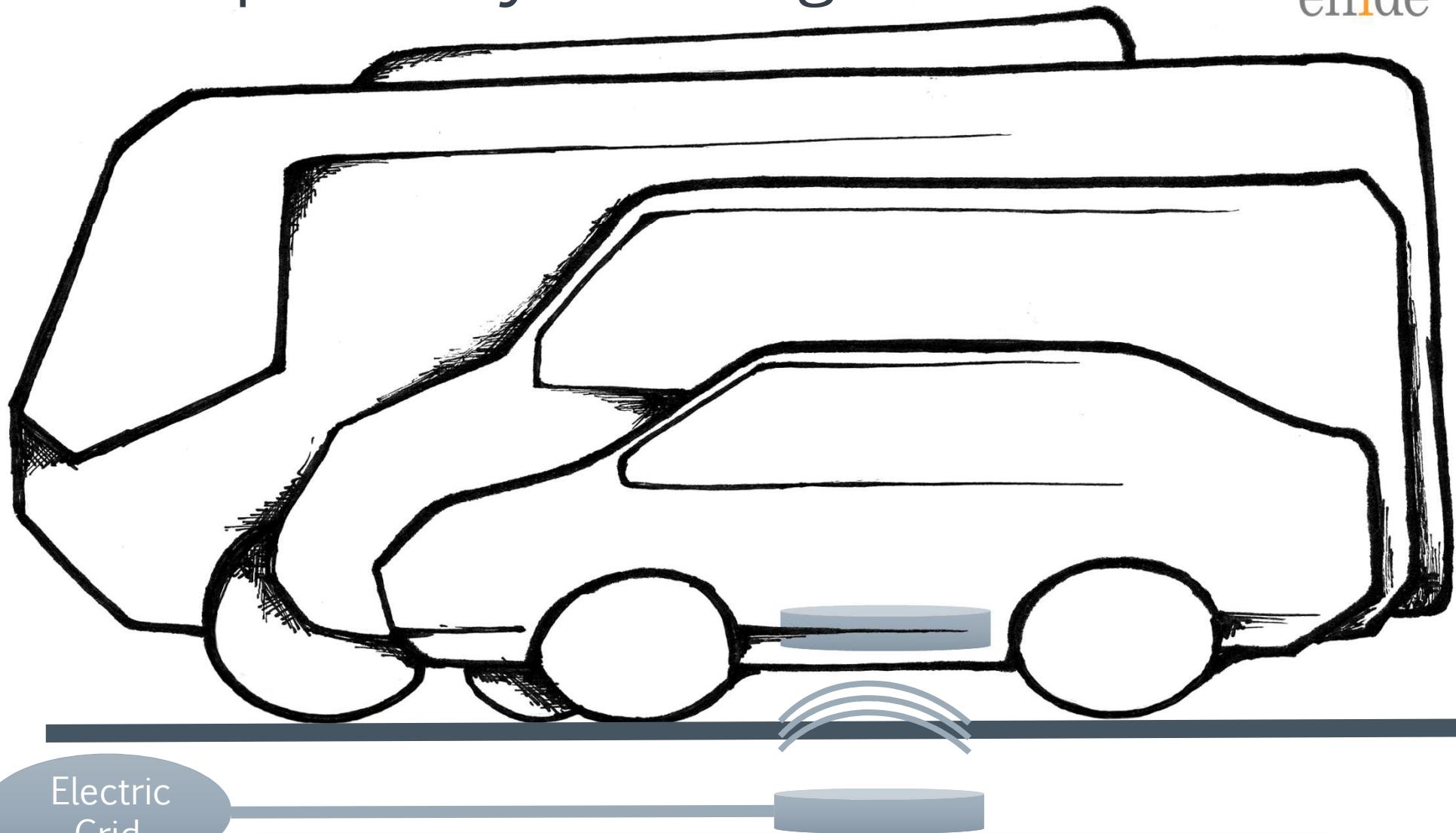
- › The vehicle is moving
- › The driver is on the way to his/her target location
- › Scenarios: Highway, Strategically chosen roads

UNPLUGGED takes in account

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Interoperability challenge



Electric
Grid

EVS 27
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Thanks for your attention!

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