



Unplugged

evs | 27

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

# Inductive Charging for EVs

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enide



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# UNPLUGGED





i ♥ me

# Are cables ok?



## 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.

# 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

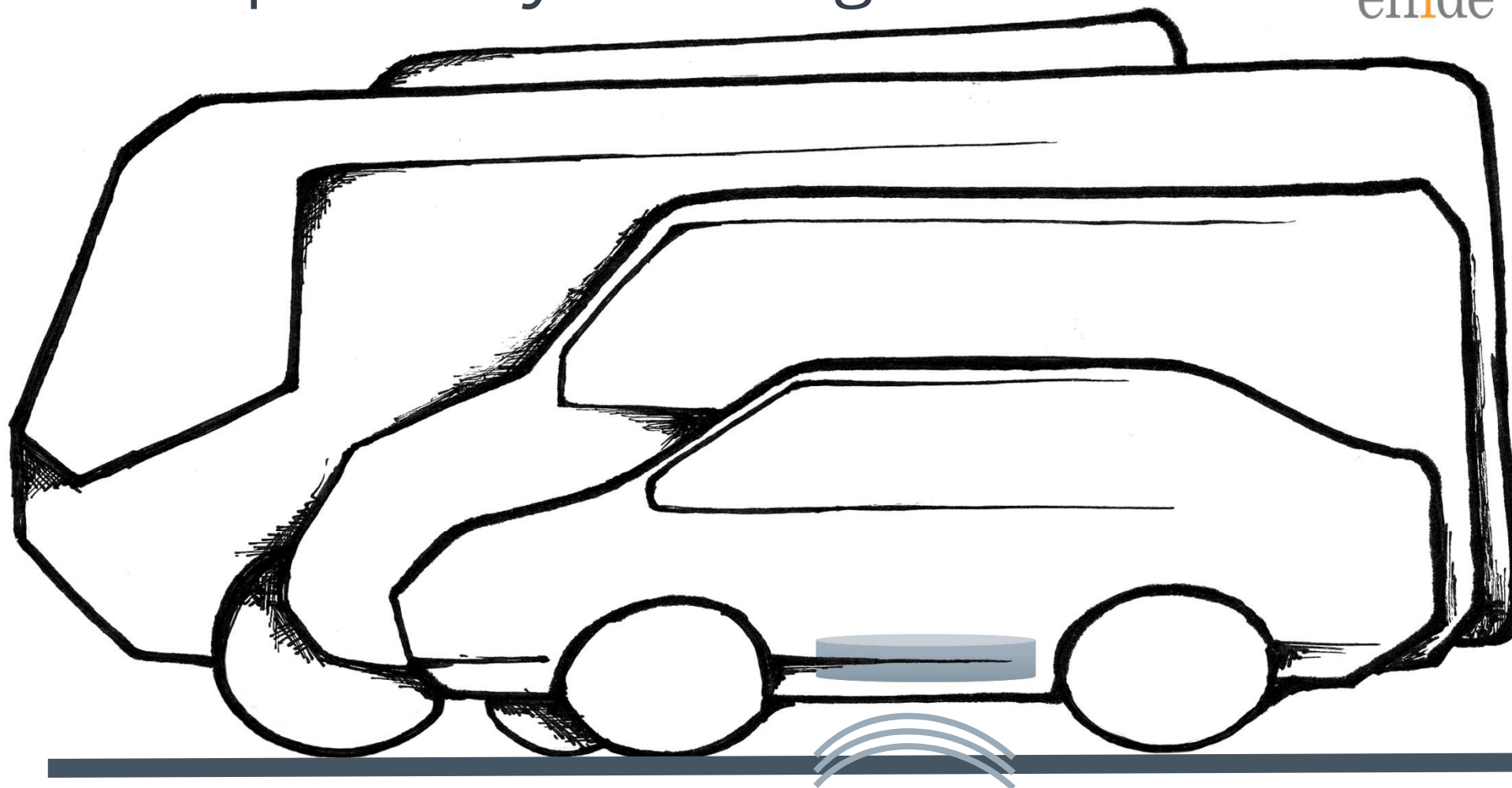
## Dynamic EN-ROUTE charging

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

# UNPLUGGED takes in account



# Interoperability challenge



Electric  
Grid

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# Thanks for your attention!

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963