Inductive Charging for EVs
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UNPLUGGED
I love 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
Thanks for your attention!

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