



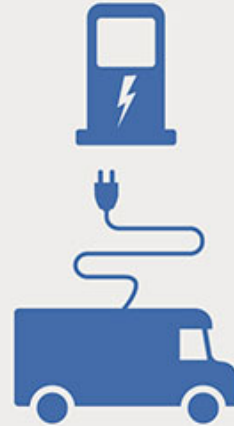
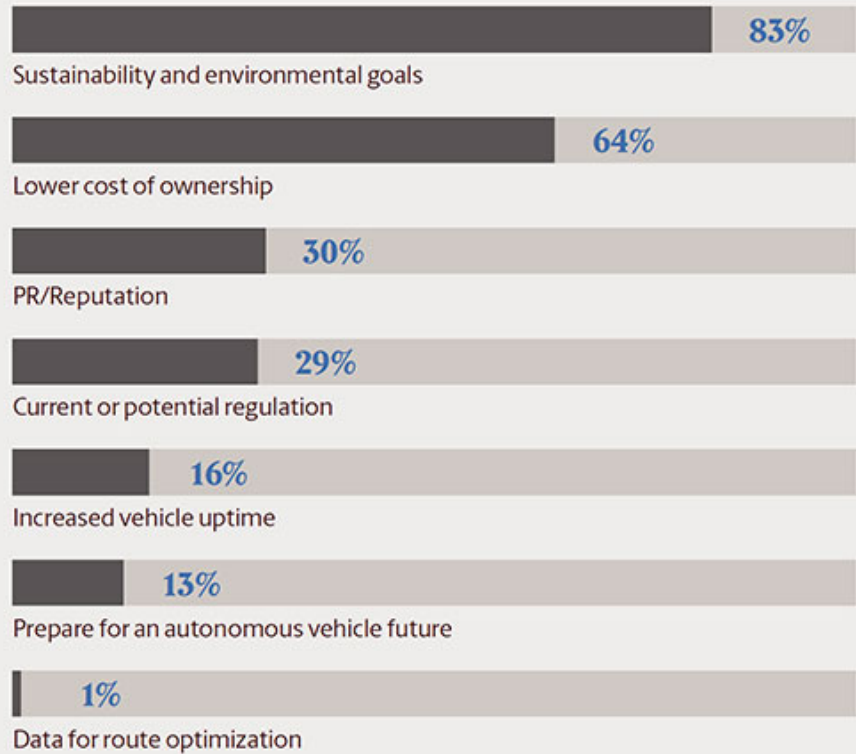
# **An Electrified Transportation Sector in a Highly Connected World**

**CERV 2020: Session 10 | 2.11.20**  
**Duncan Woodbury**

# A Revolutionary Opportunity



## MOTIVATORS FOR FLEET ELECTRIFICATION



Revolutionize:

- ☐ Logistics
- ☐ Power Market
- ☐ Renewable Power
- ☐ Automotive & Heavy Vehicles



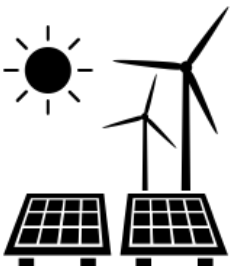
# Components of the Problem



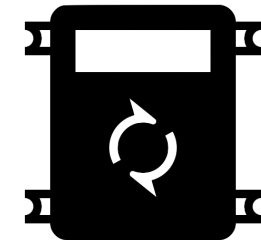
Cars!



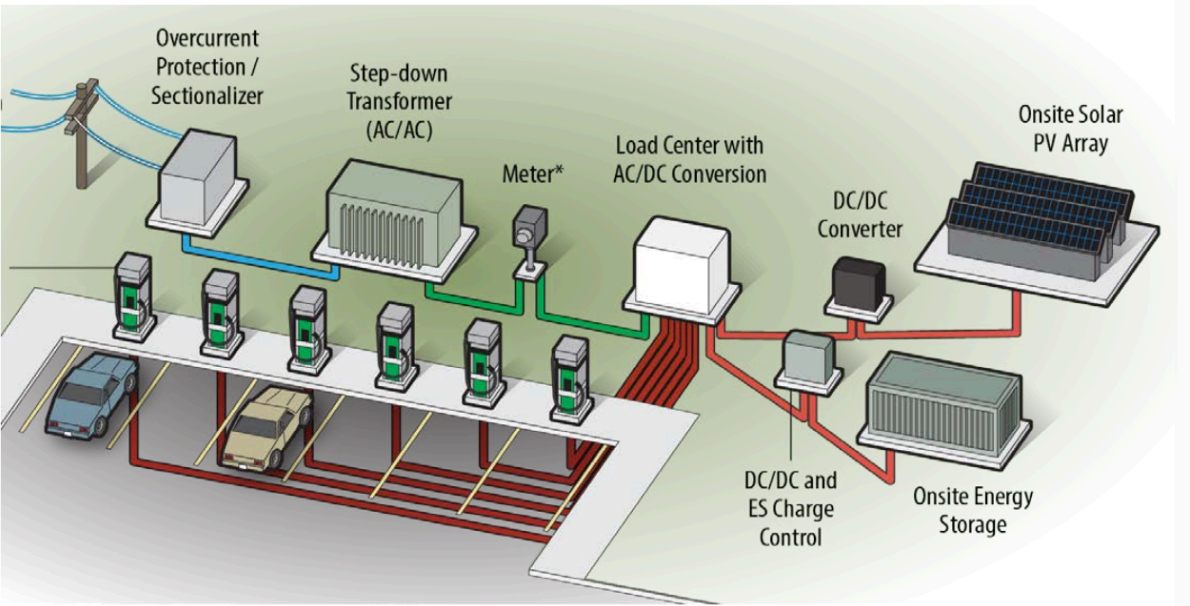
Trucks!



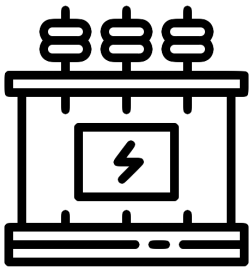
Generation Capacity!



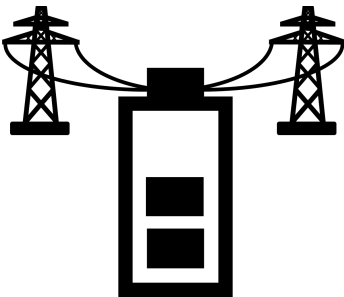
Inverters!



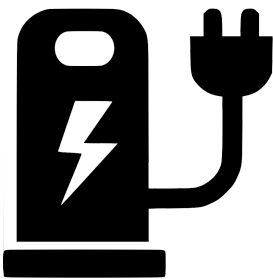
Source: Kindly stolen from INL



Transformers!



Storage!

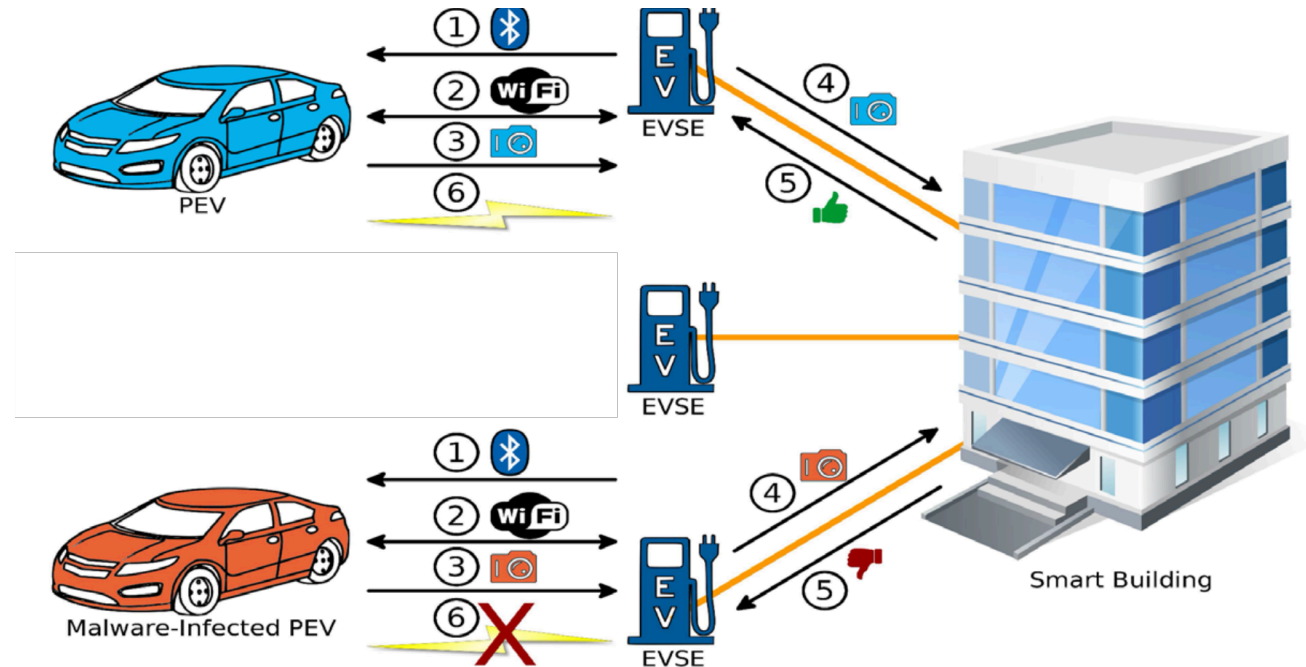
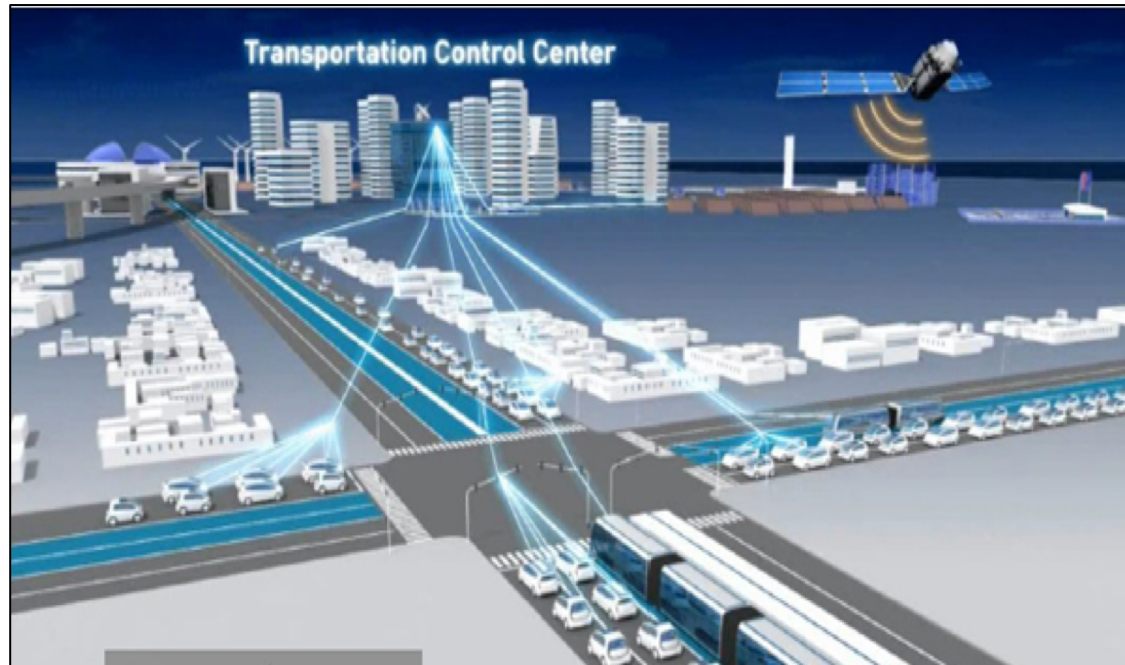


CPT!



WPT!

# Interactions with a Highly Connected World



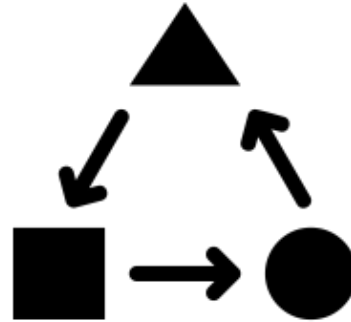
Source: Kindly stolen from INL

# Bridging the Gap

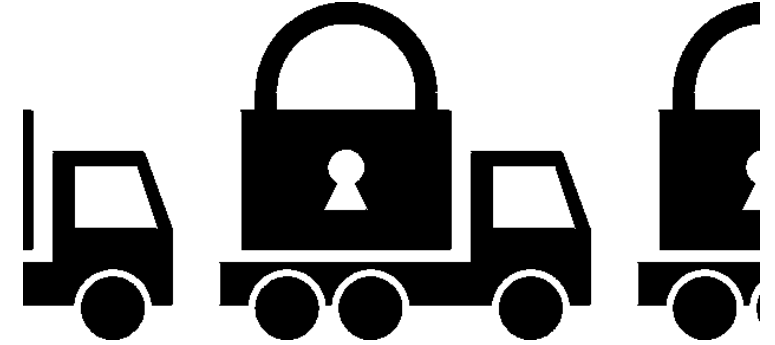


**Create industry standards and best practices:**

- ☐ Security requirements
- ☐ Security controls
- ☐ Security tests & metrics



**Standardize communications and set of charging rates**



**Transition & implement secure reference architectures**



**Prioritize Cybersecurity:**  
It will catch up to you,  
Beyond a doubt



# Take Responsibility, Take Action



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