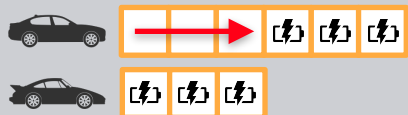


Coordination of Electric Vehicle Aggregator Participation in the Day-Ahead Market

Alvaro Perez-Diaz, University of Southampton

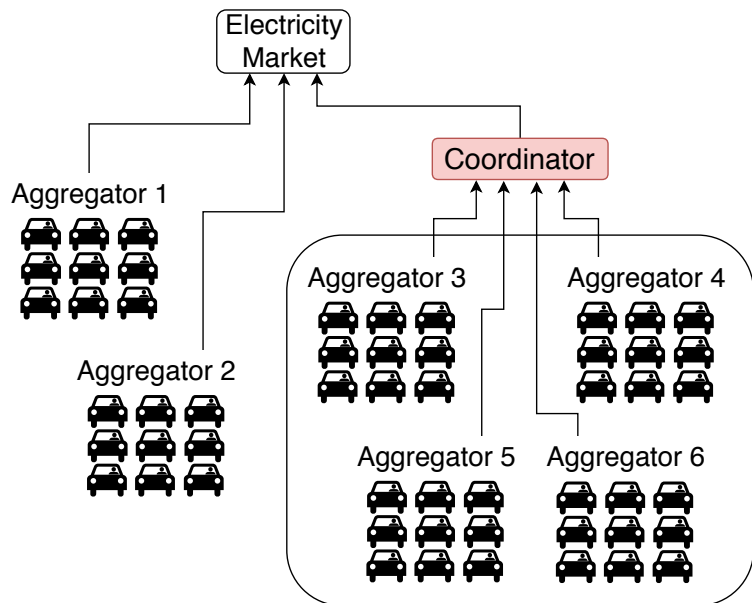
The problem

- Electric vehicles
- Aggregator



- Multiple aggregators
- Inefficient bidding

*Can joint bidding reduce energy costs and grid impact?
How to handle coordination?*



During my PhD

- Centralised coordinator
 - Mechanism design approach [1]
 - Coop game theory approach [2]
- Decentralised [3]

Simulations show that significant savings arise from coordination