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