

Coventry and Birmingham Low Emission Demonstrators (CABLED)

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Agenda

- Why do we need practical trials?
- Background
- Project aims
- Methodology and timeline
- Consortium members
- How are Advantage West Midlands and Coventry University involved?



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Why do we need practical trials?

- Lack of fossil fuels:
Using electricity or hydrogen as the power source means this can lead to CO2 savings of around 40%
- User's actions need to be tested in a real world environment to answer questions like:

how many public charging points are required?

where should we locate charge points?

how low will drivers allow their charge to go? (range anxiety)

where and when will people recharge?

Background

- Technology Strategy Board Ultra Low Carbon Vehicle Demonstrator competition
 - Aiming to speed up the availability of low carbon vehicles to the public
- National initiative; 8 trials over next 18 months
- Coventry & Birmingham consortium – CABLED
- Funded by TSB, Advantage West Midlands, the consortium members and participants
- £15million investment in the project



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Project aims

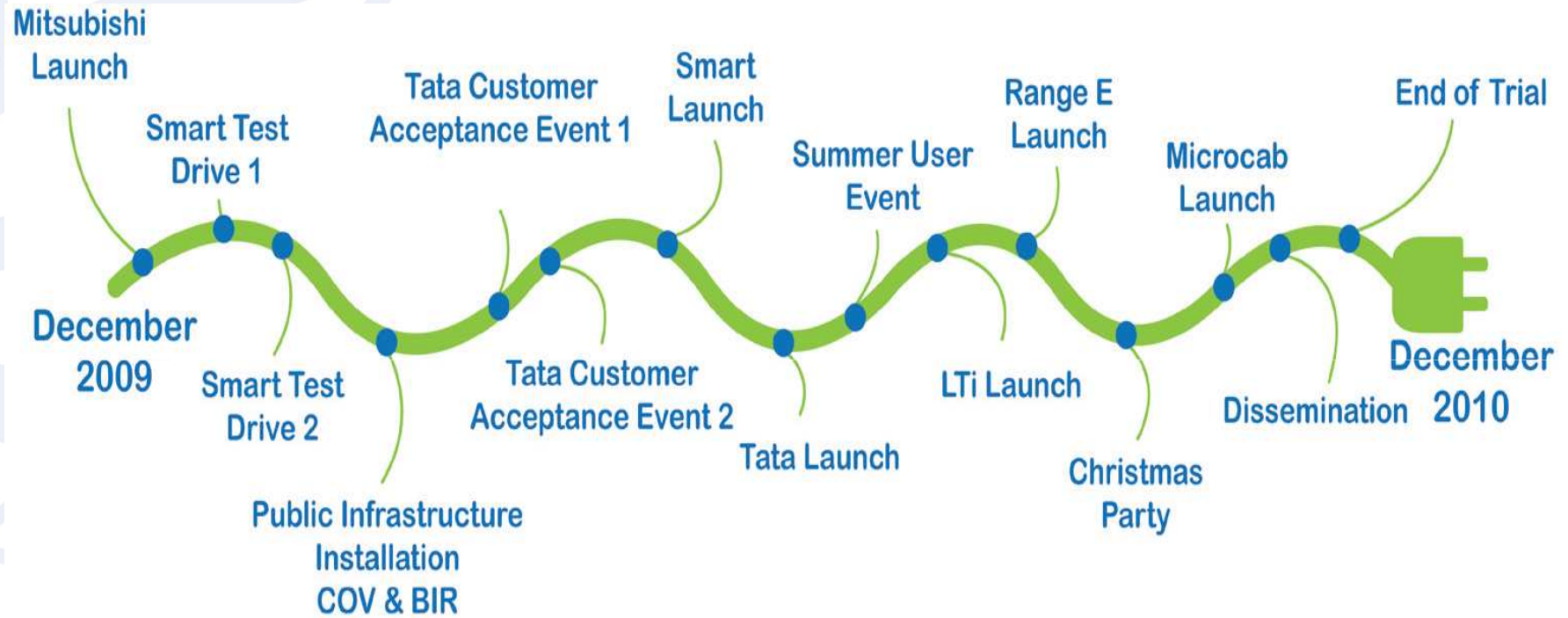
- To improve the co-ordination of key players in the development of vehicles, infrastructure and the interface
- To strengthen opportunities for future Research & Development in this area
- To allow improved predictions of the cost of mass uptake, the environmental impact and the economic benefits
- Better inform national and regional policy



Methodology

- 12-month trials of >100 vehicles in Coventry and Birmingham from six manufacturers
- Exposure to multiple drivers and drive cycles
- Users will be provided with charging capability both at their home and their place of work
- An addition, 35-40 public charging points will be made available in the two cities

Timeline



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Consortium – Industry partners

- Arup – Project management
- E.ON – Charging points and electrical infrastructure
- RDM Automotive – Data loggers
- Mitsubishi – Vehicle provider (25 EVs)
- Microcab Industries / CU – Vehicle provider (8 HFCVs)
- smart – Vehicle provider (40 EVs)
- Tata Motors – Vehicle provider (25 EVs)
- Jaguar Land Rover – Vehicle provider (5 EV / Hybrid)
- LTi – Vehicle provider (5 EV Taxi)



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Consortium – Industry partners



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Consortium - Academia

- Aston University – Data analysis
- University of Birmingham – Hydrogen refuelling
- Coventry University
 - Coordination of User Profiles and Selection
 - User evaluations throughout the life of the programme, covering all aspects of vehicle and infrastructure use
 - Evaluation of the CABLED project trial itself
 - Provider of the Microcab HFCVs
 - Hydrogen fuel station to be location at Coventry University Technology Park



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Consortium – Government Agencies

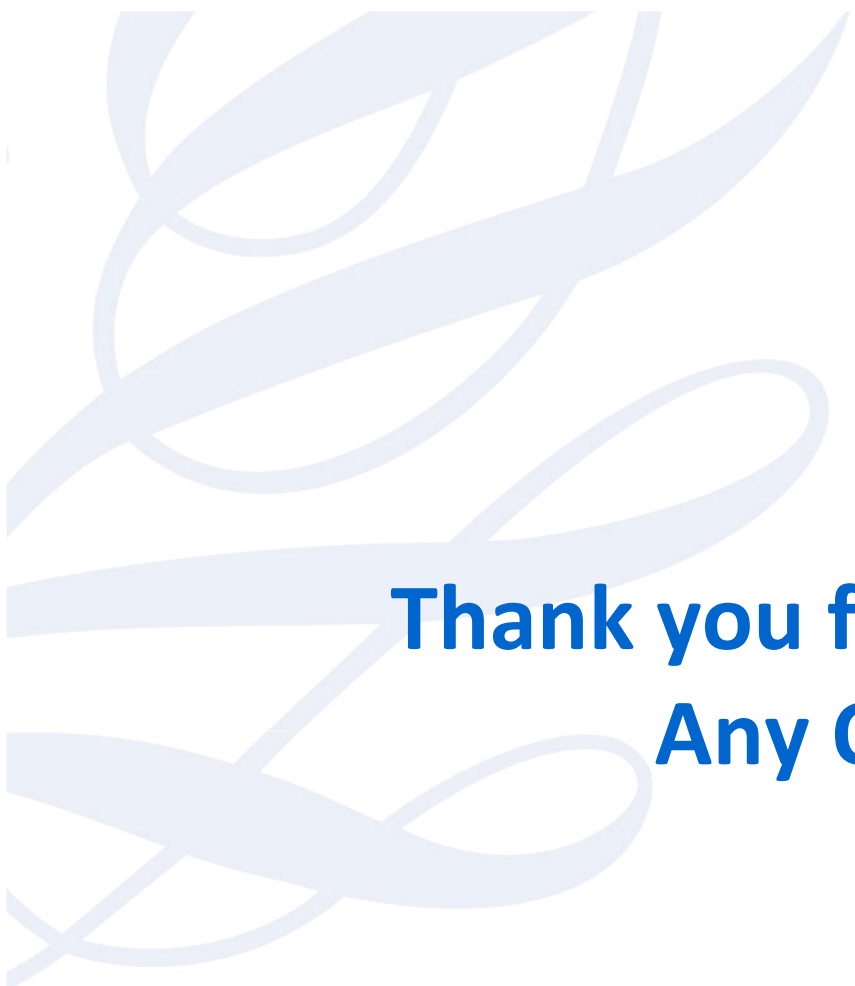
- Coventry City Council
 - Infrastructure
- Birmingham City Council
 - Infrastructure
- Advantage West Midlands
 - Midlands Low Carbon Economic Zone for Advanced Automotive Engineering
 - Coordination with Regional Technology Strategy
 - Liaison with other regional / national initiatives



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Summary

- Real-world user-trials with the general public, manufacturers, academia and government working together
- Exposing some of the actual issues of ownership and operation of ultra-low emission vehicles
- Empirical data to influence future research and policy
- West Midlands region, working with two of its major cities, contributing to the national agenda



Thank you for your attention
Any Questions?



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