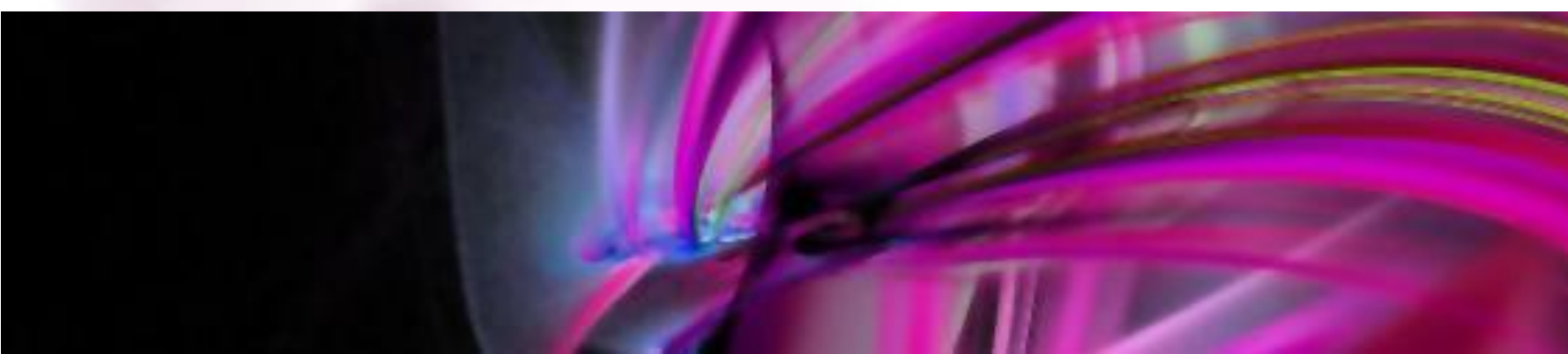


# **UK's Ultra Low Carbon Demonstrator Programme**

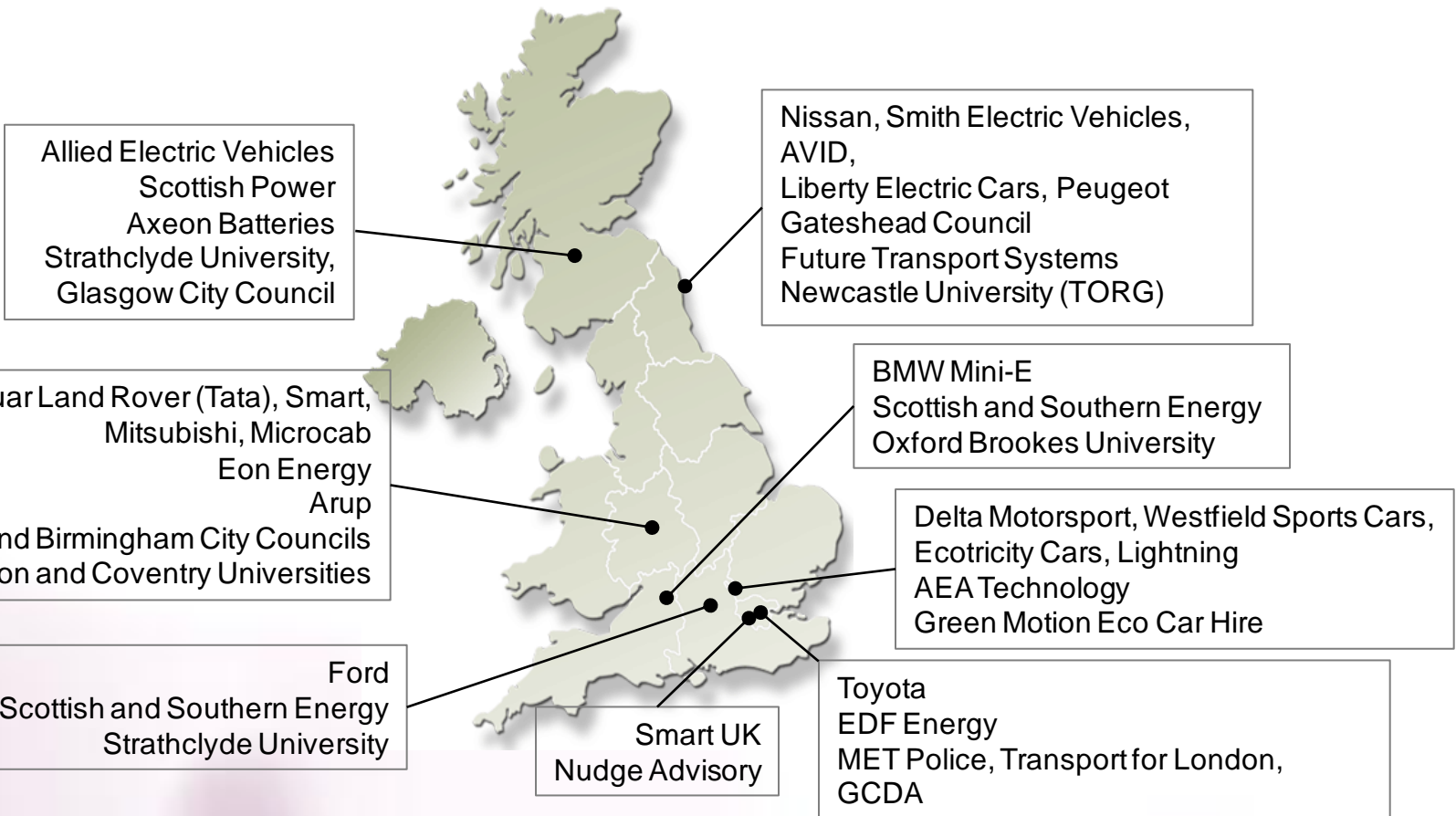
## **What have we learnt so far?**

**Andrew Everett**  
**Head of Transport**



# Technology Strategy Board

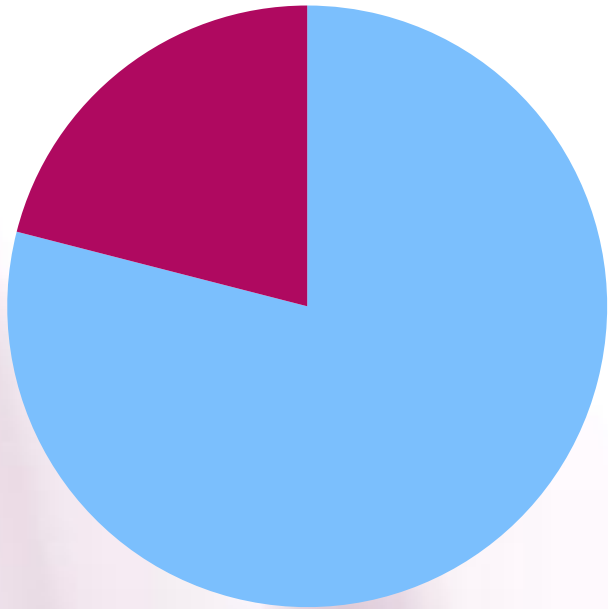
## Driving Innovation



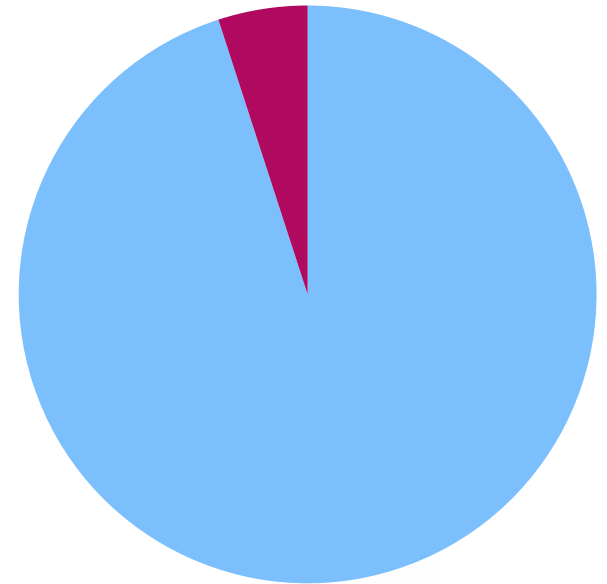
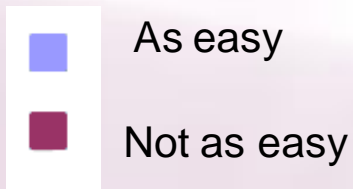
## What has happened so far...

- **340** vehicles
- **198,639** individual journeys
- **1,155,389** miles covered
- **33,729** charging events
- **220** MWh of electricity use recorded

# How easy is it to use an EV compared to a 'conventional' car?



Pre Experience

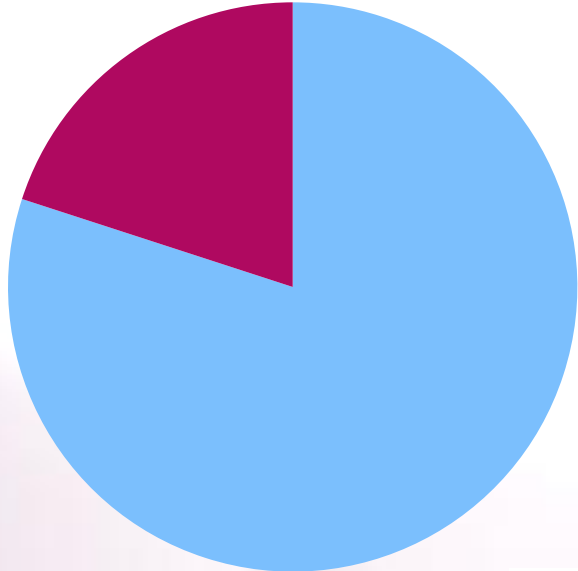


3 Months Experience

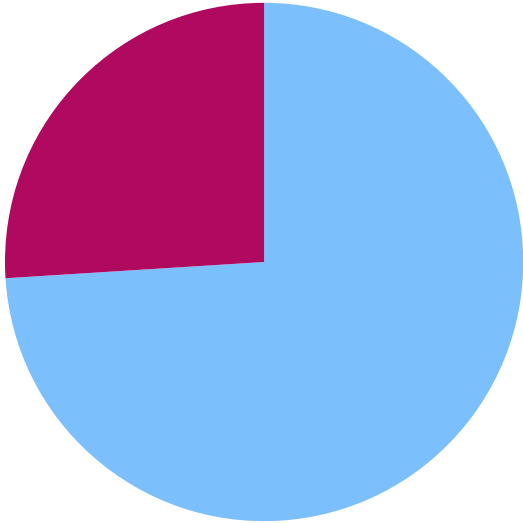
# Technology Strategy Board

Driving Innovation

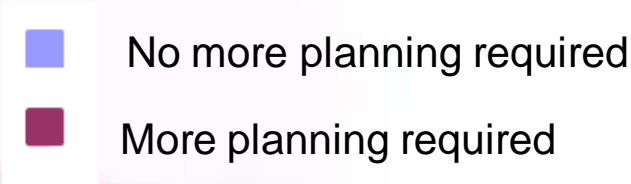
## Do you need to plan your journeys more?



Pre Experience



3 Months Experience



# Technology Strategy Board

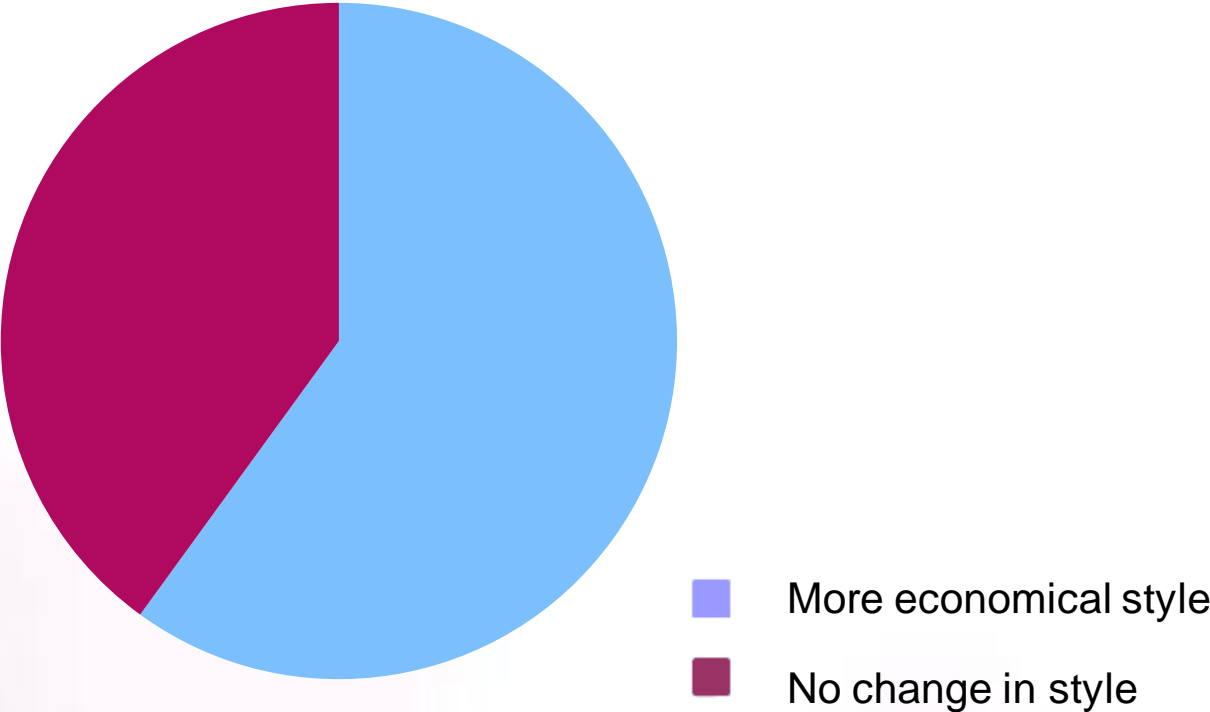
Driving Innovation

## ..planning...

'you really do need to think about where you're going and plan things in advance that you know you've got enough charge in the car to be able to use it'

'the main difference is having to think more'

# Does driving an EV influence your driving style?



3 Months Experience

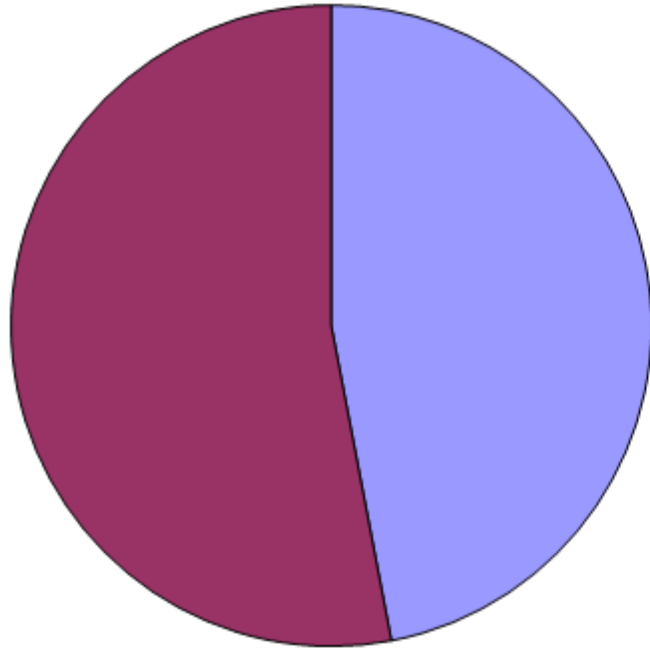
## ...driving behaviour...

'I would say with an electric car, this is a joint venture, it's a partnership. You drive me well and I'll give you more miles.'

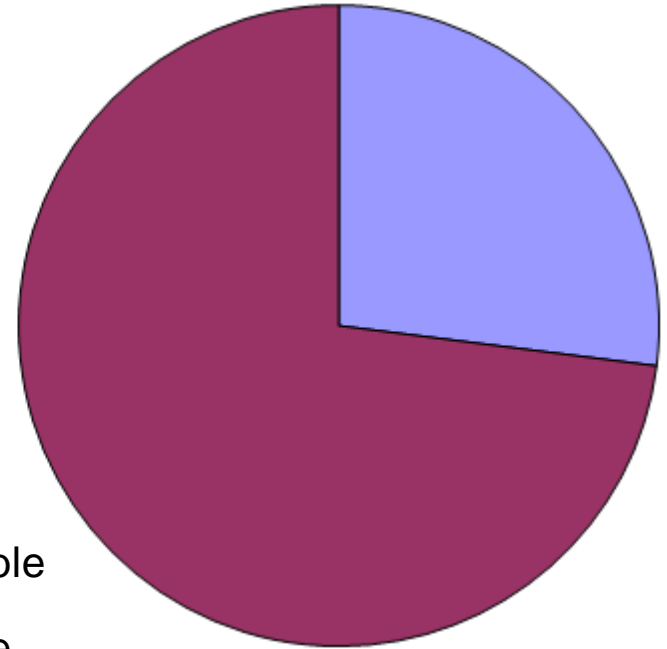
'if you drive carefully you'll probably do a lot more miles, if you drive badly you do a lot less'



# Speed of charging suit the daily routine?



Pre Experience

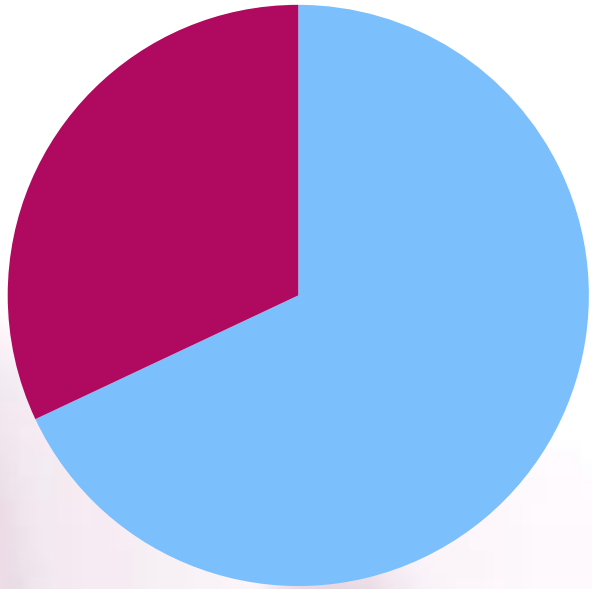


3 Months Experience

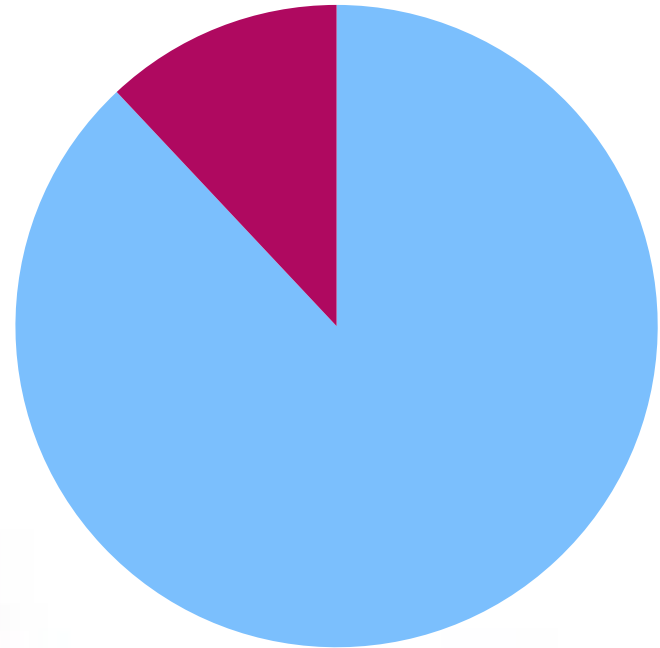
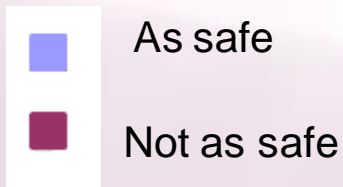
# Technology Strategy Board

Driving Innovation

## Do you feel the car is as safe as a 'conventional' car?



Pre Experience

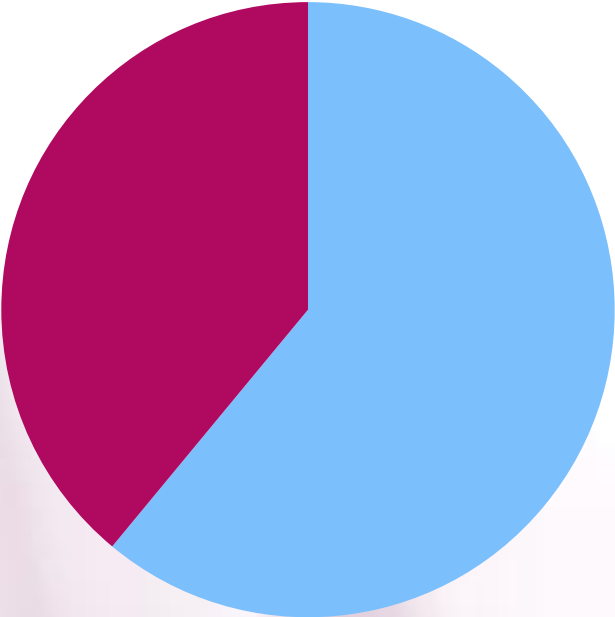


3 Months Experience

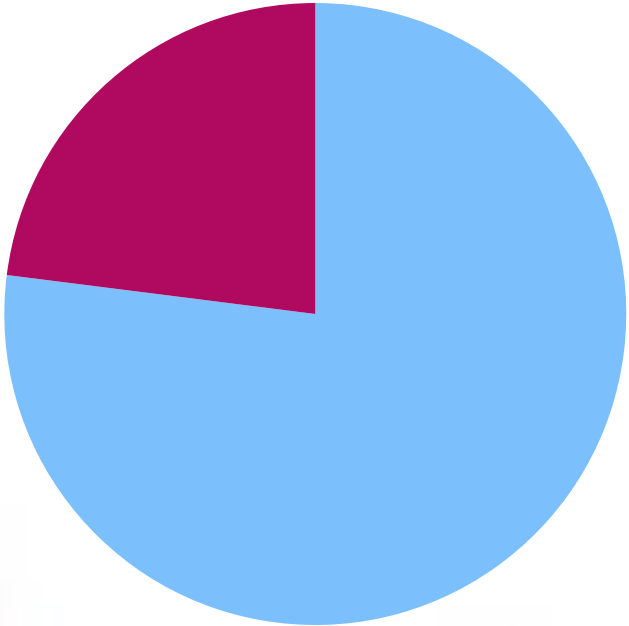
# Technology Strategy Board

Driving Innovation

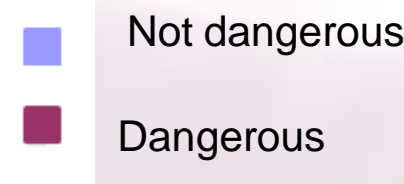
## Do you think the low noise is a danger to others?



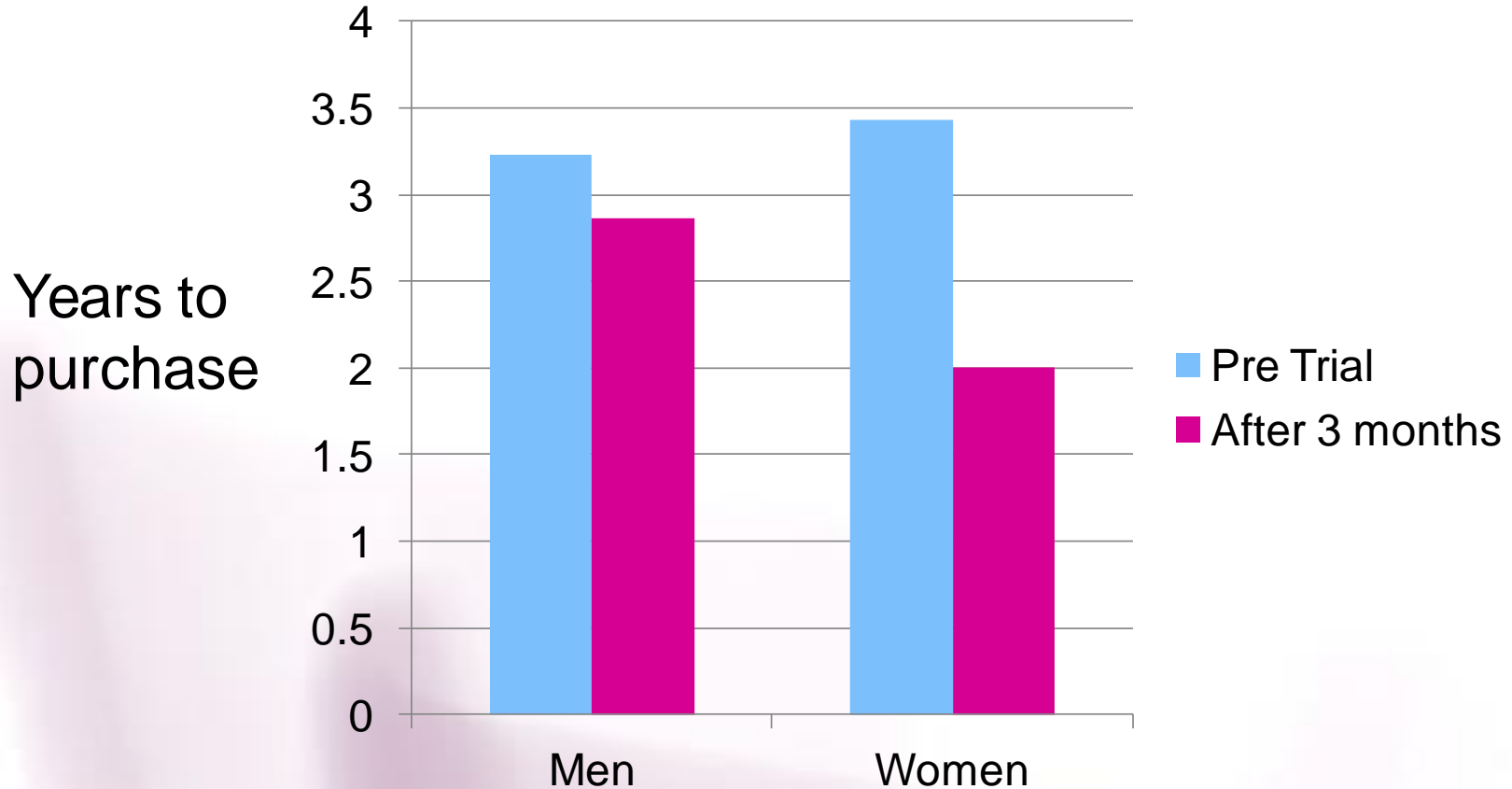
Pre Experience



3 Months Experience



## How long before you buy an EV?



## Conclusions...

- 340 vehicles have travelled over 1 million miles in the trial
- The typical usage of the trial vehicles aligns to the national data
- Users learn and adapt to the vehicles and charging routines quickly
- Charging becomes less frequent as drivers learn about the car's range
- The low noise is seen by most not to pose a danger to others
- There are very few who felt less safe using an EV

<http://www.innovateuk.org/ourstrategy/innovationplatforms/lowcarbonvehicles.aspx>

## Low Carbon Truck Demonstrator...



- Publically accessible gas refuelling infrastructure
- Enable the trial of alternative fuel, electric and hybrid commercial vehicles
- Help low-carbon vehicle producers
- Generate a body of data

Opens  
April 24th

<https://connect.innovateuk.org/web/low-carbon-truck-%20demonstrator-trial>