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GATEway





# GATEway

Exploring public understanding and acceptance of driverless technologies in a challenging urban environment

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#DriverAhead



In association with



# GATEway (Greenwich Automated Transport Environment)

- £8m project funded by industry and Innovate UK
- Understand and overcome technical, legal and societal challenges of using CAVs in urban spaces



# A team of experts

Led by **TRL** THE FUTURE OF TRANSPORT



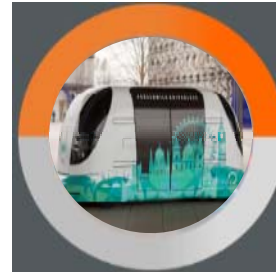
Supported by **Innovate UK**



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## Project summary



**Trial 1:  
Micro-transit**



**Trial 2:  
Automated  
valet parking**



**Trial 3:  
Last mile  
delivery**

- Legal and technical requirements to enable AVs to be used in the UK
- CAV perception/acceptance to pedestrians passengers and other road users

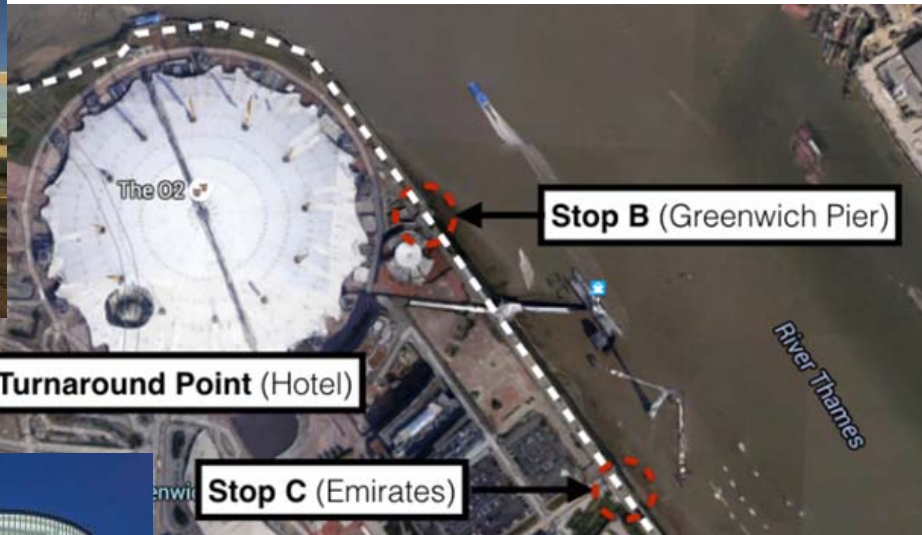


# Trial 1 – fully automated pods

- Demonstrate automated pods as a 'first/last mile' transport solution
- Provide links between:
  - Transport hubs
  - Businesses
  - Leisure facilities
  - Residences
- 'Smart Cities' concept



# Trial 1 – Greenwich pod route





## Simulator trial – research question

- Do human drivers adapt their behaviour when AVs are recognisable in the traffic?





## Simulator trial – approach



- 60 participants
- Briefed on AVs
- 10 drives:
  - T-junctions (4)
  - Overtaking (6)
- Varied AV proportion and visibility



# Simulator trial – findings



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## Simulator trial – findings

- Junctions:
  - Participants pulled into smaller gaps when there were more AVs in the traffic
  - No significant difference in gap size acceptance for pulling out in front of AVs versus HDVs
- Overtaking:
  - Participants typically chose to wait until all approaching vehicles had passed

- People do not 'bully' AVs – yet!



Male, 35

In hindsight, if I was in a rush and I had to pull out in front of somebody, I'd rather have done it in front of an automated one rather than a human one...I imagine it would have taken avoiding action better than a human can.

At the give way junction, which I found more frustrating, I was actively looking for self-driving vehicles as I felt I could pull out in a smaller gap than normal in front of them.



Female, 29



Female, 54

I felt that I would prefer to pull out in front of a self-driven car for the safety advantage that I assume it would react more quickly than a human-driven if necessary...I feel I would be more inclined to take risks.

# Thank you

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