



Enhance driver behaviour & Public Acceptance of Connected &  
Autonomous vehicles



This project has received funding from the European Union's Horizon 2020  
research and innovation programme under grant agreement No. 815098



**Ian Fido**  
Head of Training



“ Together with my team at RED driver training we can call upon 50plus years of driver and instructor training experience  
We were very excited to be a part of this diverse and multinational research project “

## Test at the driving schools in the UK Red Driving School

### Tests conducted

Candidates were asked to participate in the following Home Study Simulator test runs

Scenario No.	Description & Duration	Participants	HSS Driving Simulator
1	30 mins Urban driving CAV Level 3/4	30 Learner/novice	
		30 Full licence holders	
2	30 mins Highway driving CAV Level 3/4	30 Learner/novice	
		30 Full licence holders	

How the tests were conducted  
 Phase 1 – Free Driving  
 Phase 2 – Autopilot Urban Scenario  
 Phase 3 – Autopilot Motorway Scenario

### HSS Driving Simulator



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## Area participants drawn from

We were able to draw participants from more than 5 local towns and cities in the East Midlands area



### Simulator room set up



Driving Schools WS 07092021

PAsCAL



## Training centre

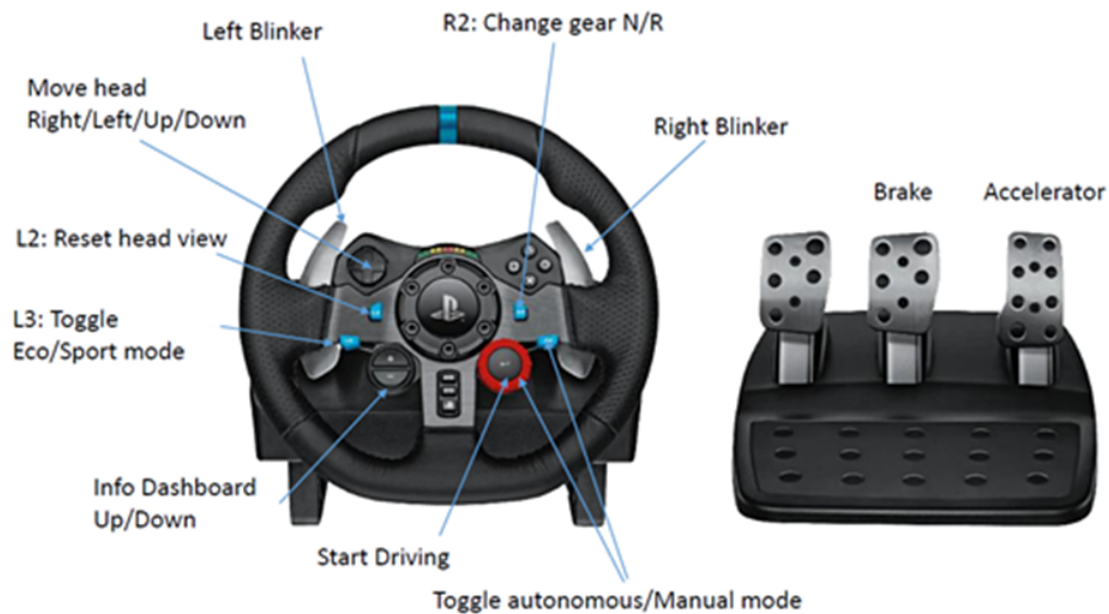
Dates were fixed and 2 classrooms given over exclusively to the project.

PAsCAL



# HSS controls

All candidates were provided with training in how to use the HSS



## Our Team

A team of 10 dedicated trainers took part in facilitating the trials



## Solutions

Results from the tests alongside trainer observations and questionnaires asked of the participants have contributed to D5.2 & D5.3

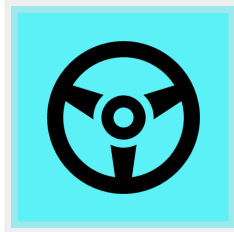


## Participants

Participants numbers split between 2 groups – trained and non-trained.

- May through to August 2021: Trials and testing with 15 trainers and 20 student driving instructors whilst simulator build continued.
- September and October 2021: 120 public test participants with 4 trainers on-site (4 Simulators set up).
- November 2021: Completion of any outstanding test phases.

UK total tests from grant agreement n.150 & Total tests performed n. 124



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**Non-trained group**



**Trained group**

# Challenges faced

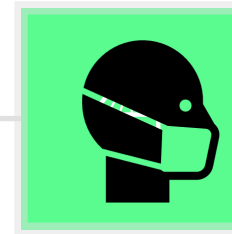
Challenges were faced and solutions found were possible to the following in completing the study.

Delays in the development of simulator: The simulator with Highway scenario has been completed at the end of July 2021

During the tests, elements of critical situations were requested in the scenarios, but it was not always possible to obtain them due to development difficulties. An example being the highway contraflow.

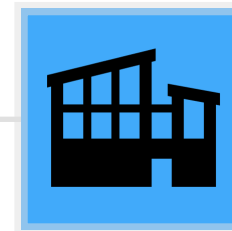
Problems connecting to the server during HSS tests. Due to the planning of the HSS tests in the UK taking place at weekends, no online support was available initially from LIST during these periods as not a seven-day operation. Connection issues were logged during 2 weekends out of the 4 planned for testing. This resulted in no connection to the LIST servers and 48 HSS participants not being able to participate in the study

## Covid-19 Pandemic

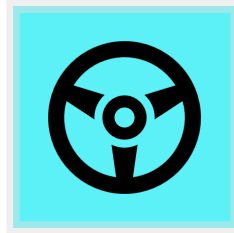


Due to the crisis that has spread across Europe, the cities and businesses originally intended for the test have been varied based on travel restrictions, indoor social gathering bans and other preventative measures adopted or confirmed by the government and local authorities. The program originally planned for 2020, i.e., before the pandemic, has also undergone a major rescheduling, having to recognise and deal with both travel and simulation times with experienced drivers / students taking longer than originally envisaged.

## Training centre location



Efforts were made to reschedule any missed tests where possible, LIST having been pre-notified of any out of hours testing, arranged support during these periods to facilitate 24 participants to revisit on new dates and subsequently participate over 2 additional weekends.



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## Trainer Workshop & Desktop Study

Joint workshop UK & Italy and also UK only study and workshop into related research.

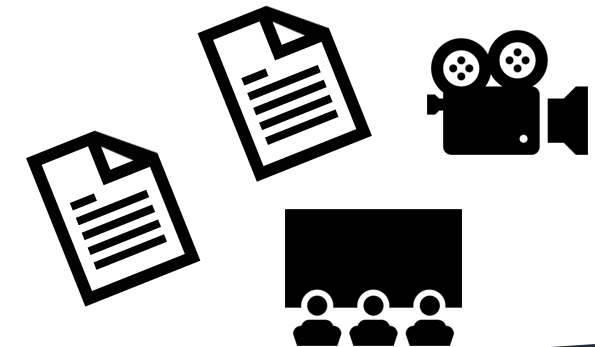
In addition, and simultaneously to the HSS tests conducted with all types of participants as described, workshops were organized with the partners involved (ACI, RDS and List) to analyse together the results from the different points of view and define a shared training program.

RDS conducted additional trainer workshop and desktop study with a group of ten UK based driving instructor trainers to discuss the challenges posed to driving instruction in a future where CAV's become more prevalent.

Further conclusions from this workshop were included within the deliverable D5.3.



### Trainer workshop session at Donington training and HSS centre 2021







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# Thank you for your time



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