Automated Vehicles

Overview

This is a questionnaire regarding automated vehicles, also known as driverless vehicles.

Introduction

This is a questionnaire about driverless vehicles. There are five widely accepted levels of driverless vehicles which can be found in the further information link below.

Project Synergy is an Innovate UK funded project which has been working to develop level 5 type vehicles with connectivity. In this questionnaire we would like to understand how you feel about self-driving vehicles and how you may expect to benefit from them in the future.

Further information

Project Synergy is trialling self-driving cars in a platoon formation from Stockport railway station directly to the Arrivals terminal at Manchester Airport. They are also trialling, a platoon of three pods to take passengers to and from a car park in the airport to the passenger terminals. COVID -19 has impacted on the speed the project has developed and the type of trials that will be undertaken at the airport and on the roads to the airport. However, it is expected that trials will take place in 2021. Trials of vehicles would be undertaken with strict safety protocols in place and drivers would be able to take over when necessary. No public passengers would be involved.

There are five widely accepted levels of driverless vehicles which are:

Level One - Assists the driver with some parts of driving such as braking pressure during an emergency stop.

Level Two - Can take over some parts of driving. Automatic emergency braking and lane-keep assist both fit this description.

Level Three - Can drive itself, but only in certain environments, such as on motorways, and for very limited periods. The driver must take back control when requested and so must be ready to do that.

Level Four - Drives itself for sustained periods without needing input from the driver. However, it can only do this in certain areas.

Level Five - Lastly, there's complete A-to-B self drive with no input from the driver.

Connectivity - Vehicles can be self-driving or connected, or self-driving and connected. Connected vehicles use a number of communication tools to relay information to the driver, to other vehicles (known as vehicle-to-vehicles communication), to roadside infrastructue (known as vehicle-to-infrastructure communication), and to the cloud. This information could include anything from size, shape, construction material, speed limit zone, traffic, informing a vehicle of is surroundings to aid in steering, speed, and decision making. In theory, connected vehicles allow drivers and self-driving vehicles to have a 360-degree view of the road landscape.

About you

1 Where do you live? (Please provide the first half of your postcode)
Postcode
2 Which gender do you identify with?
Please select only one item
Male Female Non-binary Prefer not to say
Cinale Cremary Crief nerte say
2 What is your ago group?
3 What is your age group?
Please select only one item
Under 25 25 - 34 35 - 44 45 - 54 55 - 64 Over 65
Prefer not to say
4 What is your ethnic group? (Please select one option only) Ethnicity Please select only one item
Asian/Asian British Indian Pakistani Bangladeshi Chinese
Kashmiri Any other Asian background Black/Black British
African Caribbean Any other Black/African/Caribbean background
White and Black Caribbean White and Black African White and Asian
Any other mixed/multiple ethnic groups
English/Welsh/Scottish/Northern Irish/British Irish
Gypsy or Irish Traveller Eastern European
Any other White background Arab Any other background
Prefer not to say

About how you travel

5 Which of the following types of transport did you use most regularly pre-COVID19?				
	1	2	3	
Bus Please select only one item	0	0	\bigcirc	
Car Club Please select only one item	\bigcirc	\bigcirc	\bigcirc	
Car Share Please select only one item	\bigcirc	0	\circ	
Cycle Please select only one item	\bigcirc	\bigcirc	0	
Own Car/Van Please select only one item	\bigcirc	\bigcirc	0	
Taxi/Private Hire Vehicle Please select only one item	0	0	\bigcirc	
Train/Tram Please select only one item	\bigcirc	0	0	
Walk Please select only one item	\bigcirc	0	0	
Other (please state)				
6 What do you consider when planning a journey? (please select all that apply)				
Please select all that apply				
Ability to move luggage Assistance available Cleanliness Cost				
Environmental impact Physical exercise Privacy Safety Time it will take				

Your knowledge about self-driving vehicles

everyday use. How much, if anything, would you say you know about these types of vehicles?
Please select only one item
Haven't heard about them before now Hardly anything but I've heard of them A little A fair amount A lot I don't know

7 Fully driverless or self-driving vehicles are not yet available for

Although fully driverless of self-driving vehicles are not yet available for everyday use, some car available today have self-driving features. Which of these, if any, have you heard and have you used any of them yourself?

	Feature I have used myself	Feature I have heard of	Feature I have not heard of
Lane assist where the car detects if the driver unintentionally leaves their lane and adjusts the steering accordingly Please select only one item			
Automated parking where the car parks itself without driver involvement Please select only one item			
Automatic emergency braking that detects if impact is imminent and applies brakes automatically Please select only one item			
Adaptive cruise control where the car automatically adjusts the speed based on the traffic ahead Please select only one item			

	Feature I have used myself	Feature I have heard of	Feature I have not heard of	
In-car Wi-Fi	\bigcirc	\bigcirc	\bigcirc	
connection Please select only one item				
Remote control				
drive or remote				
control parking				
where driving is				
controlled	\bigcirc	\bigcirc	\bigcirc	
remotely using a				
mobile device				
outside the car Please select only one item				
Traffic jam				
assistant for use				
in slow-moving				
traffic. The vehicle				
automatically	\bigcirc	\bigcirc	\bigcirc	
drives within its				
lane, keeping safe				
distance from the				
vehicle in front. Please select only one item				
Impact of self-driving vehicles				
	o you think that se ive impact on soc	elf-driving cars will iety?	have a	
Please select only one item				
Very positive	Fairly positive	Neither positive nor n	egative	
Fairly negative	Very negative	Don't know		

positive or nega	tive impact for yo	u and your family?	
Please select only one item			
Very positive Fairly negative	Fairly positive O	Neither positive nor ne Don't know	gative
11 What affect do y following issues	<u>-</u>	iving vehicles to ha	ave on the
	Improve	No change	Make worse
Congestion Please select only one item	\circ	\bigcirc	\bigcirc
Amount of physical activity people do Please select only one item	\bigcirc		0
Mobility of older people Please select only one item	0	0	0
Mobility of people with disabilities Please select only one item	0	0	0
Mobility of younger people Please select only one item	0		0
Parking Please select only one item	\bigcirc	0	\bigcirc
Passenger safety Please select only one item	\bigcirc	0	\bigcirc
Price of travelling Please select only one item	\bigcirc	0	\bigcirc
Road safety Please select only one	\bigcirc	\circ	\bigcirc

10 To what extent do you think that self-driving cars will have a

12 How attractive do you find the following ways to use these vehicles?

	Not at all	Not very	Neither	A little	A lot
Liftshare on demand Please select only one item	0	0	0	0	0
Own vehicles Please select only one item	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0
Private hire - individual trip Please select only one item	0	0	0	0	0
Private hire - set hire period for example a weekend Please select only one item		0	0	0	0
Public transport (e.g. bus) - unstaffed Please select only one item	0	0	0	0	\circ
Public transport (e.g. bus) - staffed Please select only one item	\circ	\circ	0	0	0

Place of Local Authority's in regards to self-driving vehicles

vehicles? (please select all that apply

Licensing of shared vehicles

Provision of infrastructure to support use of self-driving vehicles such as pick up bays

Support of use of self-driving options in public transport

Identification of areas where self-driving vehicles are not allowed

Identify locations for parking self-driving vehicles

Please state any other actions you expect to be taken that aren't listed above:

13 What actions would you expect to be taken to minimise any

negative impacts and maximise positive impacts from self-driving