

Highways England will trial acoustic detection systems in the Hindhead Tunnel

## The other trials you mention in your strategy are related to connected corridors and platooning. How will they work?

Put simply, roads with technology to enable connectivity will allow vehicles to connect to the internet, and communicate with other vehicles and infrastructure, providing valuable information for the driver, including on road, traffic and weather conditions.

Platooning is when two or more vehicles are connected and in the trials we are planning, this will be limited to up to five vehicles. While operating in this mode, the separation distance between each vehicle is reduced to between six and ten metres, allowing the drivers in the trailing vehicles to hand some or all control to the driver of the lead vehicle.

## What else is in the strategy?

Our strategy is very project-orientated and we are looking at a number of different innovative trials that could benefit drivers in the coming years. These include the installation of new electronic signs displaying real-time petrol and diesel prices, trialling radar detection systems on motorways and acoustic detection systems in the Hindhead Tunnel, testing sensors that could provide accurate information about the conditions of our roads and structures, installing a network of charging points, and exploring how we can place greater emphasis on innovation with our supplier chain and within our procurements.

## What are the benefits and safety implications of using this type of technology?

Platooning leads to improved aerodynamics which increases fuel efficiency and reduces emissions for the vehicles. This could also free more road space, and potentially improve traffic flow. Further to this, the initial tests around the world have proven the safety of these systems.

We expect connected corridors to enable improvements in safety, mobility and environmental performance, as well as present opportunities for economic growth. The corridor trials will seek to demonstrate how connected vehicles could benefit road users and society. This includes examining the potential to improve safety by alerting drivers to roadworks, oncoming emergency vehicles and braking of vehicles ahead.

## M25 smart motorway with all lane running

