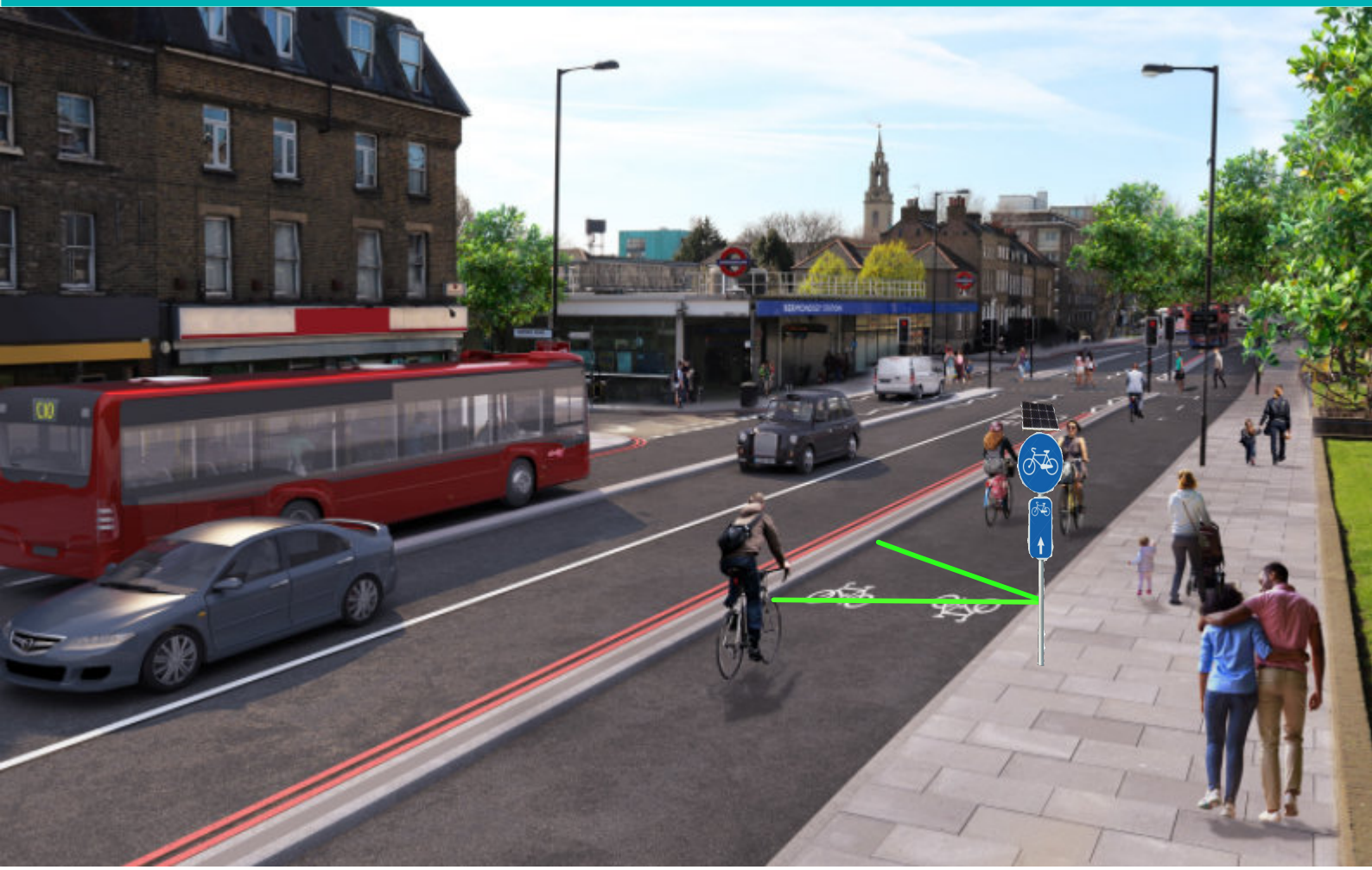
Smart Cycle Detection

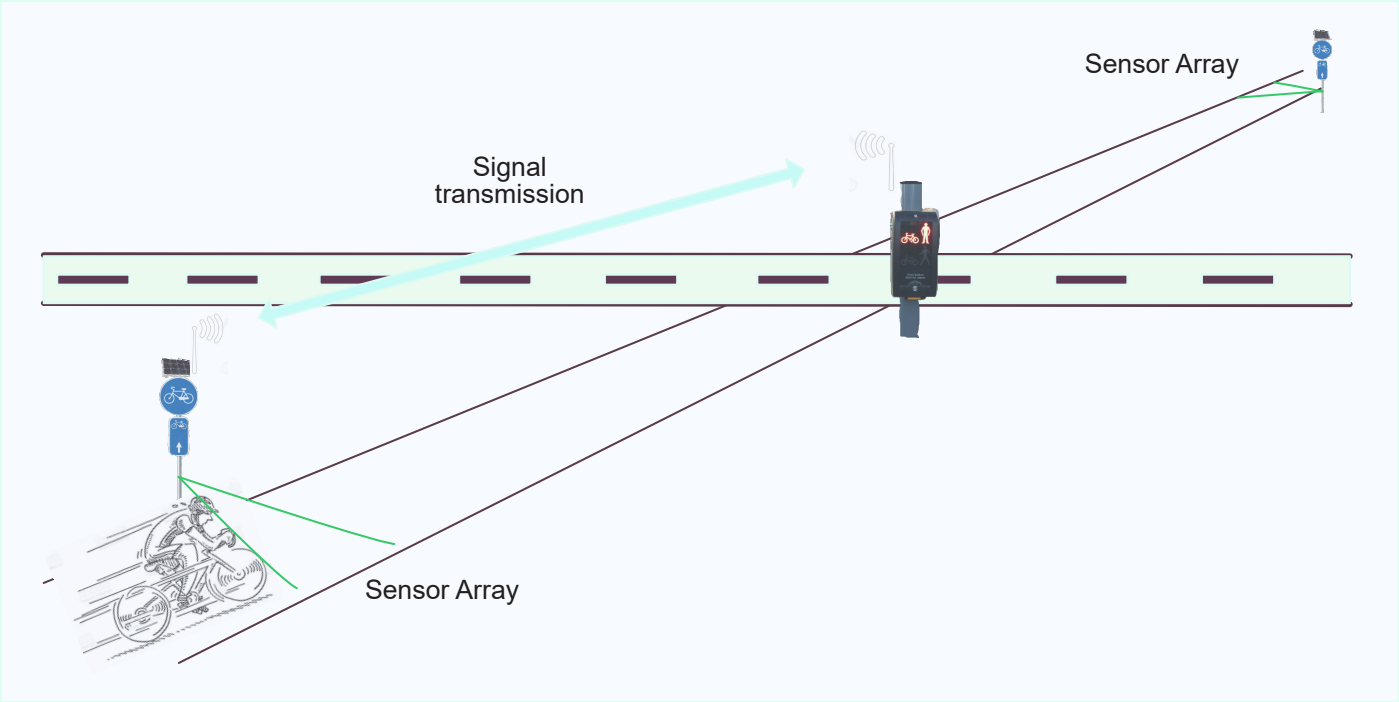


The Sm@rt Technology, Smart Cycle Detection system has been designed to provide easy installation and versatile functionality providing a number of features.

The system is mounted on a standard cycle lane pole which is inserted into to a NAL socket and uses a completely safe and effective Class1 Laser sensing array for detection. The system is self-powered via a solar panel control system mounted on top of the pole, and can detect cyclists using the cycle lane, the direction of their travel, and also distinguish between cyclists and pedestrians.

Optional Features:

- Provides a discrete audible warning to visually impaired people at the crossing that a cyclist is approaching. Only they hear the information via the SmartApp VI software on their smartphone.
- Automatic crossing demand initiated when a cyclist is approaching the crossing to initiate a change sequence.
- Cycle counting, with information uploaded to the cloud, that can produce reports with graphical and tabular results on a monthly, weekly, daily basis, showing cycle lane usage, hourly throughout each day.
- Pedestrian counting, with information uploaded to the cloud, that can produce reports with graphical and tabular results on a monthly, weekly, daily basis, showing pedestrian activity, hourly throughout each day.



How it works

The sensors and control equipment are fitted into a standard cycle lane pole, with a cycle roundel and solar powered control unit at the top.

The sensor array is mounted part way down the pole in a position that allows it to detect cyclists and pedestrians but not animals.

The Smart Cycle Detection pole fits into a standard NAL socket and does not require any additional power source to operate as it is self-powered with its solar panel and intelligent charging system.

Cyclists travelling in the direction of the pedestrian crossing are detected by the intelligent detection system and a signal sent to the Central Control Unit mounted by the signal head. The only connection required at the signal head is a power source of 24V or 48V AC or DC

When a cyclist is travelling away from the crossing, the intelligent detection system is aware of this and ignores the activation.

The system is able to distinguish between cyclists and pedestrians and if required, provide counting information relating to both cyclists and pedestrians, in addition to speed and direction of travel if required.

If the Visually Impaired notification feature is selected, an audible warning saying “Cyclist approaching” will be heard by the visually impaired pedestrian on the crossing via a bluetooth earpiece, who will then wait to hear the cyclist pass in front of them before making their way across.

If the Cycle Demand feature is selected, the system will put in a demand to the crossing to initiate the traffic light change sequence as the cyclist is approaching.

Smart Cycle Detection is a truly versatile and cost effective solution to a number of cycle lane issues. Should you have any other features that you feel the system would benefit from the inclusion of, then please feel free to contact us.



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