

PRESS RELEASE

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FOR IMMEDIATE RELEASE

Two award wins for innovative installation of intelligent road studs on A720

Sheriffhall Roundabout, Edinburgh

Clearview Intelligence working alongside BEAR Scotland, and current incumbents Amey, for Transport Scotland, are proud to receive recognition for the innovative intelligent road stud solution put in place on the A720 Sheriffhall Roundabout Edinburgh, winning two separate industry awards within a week of each other.

The solution won the CIHT John Smart Road Safety Award at the Chartered Institution of Highways & Transportation annual awards on Thursday 09 June at the Pavilion at the Tower of London. The judges commented “The panel was impressed by this solution to poor lane discipline on a large six-arm roundabout leading to high collision frequency. Benefits are strong with ‘after’ casualty rates better than half those previously recorded

and improvements in all conditions. There is good scope for application to other locations where similar problems occur.”

The 14th annual Scottish Transport Awards, held on Thursday 16 June also recognised the innovation of the solution awarding the team with their Excellence in Technology and Innovation Award.

Background on the A720 Sheriffhall Roundabout solution:

Sheriffhall, a six-arm roundabout, connects several important routes, including the A7 and the A720, and handles upwards of 42,000 vehicles a day.

The roundabout is traffic signal controlled and features spiral markings to guide drivers through the junction to their destination arm. Despite these measures, casualty statistics indicated that Sheriffhall had a high frequency of accidents with some 65 injuries recorded in the 10 years to 2013. Additionally, even minor collisions at this junction have the knock-on effect of causing significant disruption across the network.

BEAR Scotland approached Clearview Intelligence to help develop an active road stud design which would encourage drivers to stay in-lane throughout the complex roundabout junction.

Entry to the roundabout from the A720 is traffic light controlled, so the new scheme coordinates this signalisation with the installation of the intelligent hardwired road studs to increase driver awareness and improve lane discipline across the A720 routes over the roundabout.

When the traffic signal turns green, the road studs immediately illuminate and guide drivers onto the appropriate lanes of the roundabout. The studs are extinguished when the signal turns red and traffic from other arms may enter the roundabout.

The design of the intelligent road stud scheme, synchronised with the traffic signalisation, represented a UK-first when it was installed in 2014.

In 2015, the Transport Research Institute at Edinburgh Napier University conducted some independent research on the impacts of the intelligent road stud scheme at Sheriffhall.

The researchers concluded that the installation of the intelligent road studs scheme has resulted in the following outcomes:

- i. reduction in lane transgression activity across nearly all vehicle types and manoeuvres;
- ii. significant reduction in transgression rate (>50%) for medium-sized vehicles;
- iii. studs have a positive impact even during daylight hours;
- iv. lane transgression rate decreases as traffic flow increases;
- v. driver behaviour was found to be more predictable and consistent post-installation.

Photo:



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For further information please contact.



Andrew Rhodes

Marketing Manager

Clearview Intelligence Ltd

T 01869 362863

andrew.rhodes@clearview-intelligence.com

www.clearview-intelligence.com

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