



CIHT/Colas Technological Application Award

A1 Leeming to Barton ECI - improving large goods vehicles driver behaviour through roadworks

Carillion Morgan Sindall and Redspeed International working on behalf of Highways England with North Yorkshire Police

The A1 between Leeming and Barton is an all-purpose two lane dual carriageway carrying in the region of 50,000-54,000 vehicles a day, with approximately one-quarter being heavy goods vehicles. The route has historically had a poor accident record, with continuing safety, congestion and journey time reliability problems. Improvements have been on-going since March 2014 with online works to upgrade into a dual three lane motorway, enabled with major traffic management over 22km.

During this period, collaboration between contractors Carillion Morgan Sindall JV, North Yorkshire Police, Highways England, and supply chain partners Redspeed International has been exceptional. This working group has delivered a structured hierarchical five point change process, the objective being to create a cultural change in large goods vehicles (LGV) driver behaviour through roadworks. This initiative uses firstly warnings, learning and education, and then enforcement methods, which are proving to be a great success with an 85% reduction (28 April 2015) in lane 2 violations by LGV. This enforcement deterrent was only possible due to technological change in existing average speed cameras.

This method utilises the existing enforcement cameras with dual capability for enforcement of both speed and weight (restriction). The 85% reduction in lane 2 violations will improve safety through roadworks for both road users and workers.

The structured hierarchical five point change process:

1. Portable message signs warning of new

Judging Criteria

This award recognises excellence in the application of technology within the highways and transportation industry, where a marked positive benefit has been achieved.

The judges were looking for evidence of:

- Benefits to the industry and society
- Implementation (communications, training, reliability)
- Performance measures
- Enterprise and ingenuity
- Wider implementation potential
- Best value and cost-benefit



Judges' Comments

"By extending the use of the average speed cameras at minimal extra cost, the judges were impressed by how this innovative application of technology had greatly improved the enforcement of lane restrictions for LGVs. This was achieved by good teamwork and the close support of partners including the police and the haulage companies. The benefits have seen improved LGV driver behaviour, with a significant reduction in lane 2 violations, and increased safety for road users and the workforce. Implementation has been well managed, including the use of portable message signs and warning leaflets to increase awareness of increased enforcement. Whilst performance data has only been collected recently, it is clear that the system has the potential for much wider application."

- enforcement methods in roadworks
2. Warning leaflets to key truck stops and services
3. Collaboration with the Road Haulage Association
4. Letters to haulage organisations with option of actions/learning feedback
5. A non-endorsable (fine fixed penalty notice) and further North Yorkshire Police intervention