

# Intellicone Smart Taper

## Real-time warnings of taper strikes and incursions

The Intellicone Smart Taper, winner of the CIHT 2018 Innovation award, was developed by our sister company Highway Resource Solutions (HRS). It is a traffic management planning tool and a work-zone safety system which improves road space management as well as road user and road worker safety.

### Key benefits

- > Improved customer and road user safety
- > Reduced risk to road worker safety
- > Improved operational efficiency
- > Real-time data and information
- > Automatic road space management
- > Improved control room operations

Intellicone Smart Taper puts an additional layer of remote protection around traditional, physical traffic management systems which keeps both road users and road workers safe.



### Road safety

While routine manual inspections provide a level of safety and reassurance, the risk remains that cone strikes could remain undetected for a significant period of time.

The Intellicone Smart Taper uses digital technology to provide instant notification of taper strikes and work-zone incursions allowing traffic management teams to respond quickly and effectively and reinstate traffic management measures without delay.



### Communication

The Intellicone Smart Taper automates communications with the relevant groups to minimise errors and ensure everyone involved in or impacted by the project is fully aware of what is happening.

The Intellicone Smart Taper also provides a communication channel to road users to ensure that they are provided with up to date information.



## Automation

The Intellicone Smart Taper has the ability to transform traffic management processes, from road space management to maintenance regimes. This automated system will integrate seamlessly with existing equipment and traffic management installations to provide real-time data to improve on site efficiency.

It facilitates real-time mapping of first sign, taper and end sign to produce accurate information around on and off times, working window and length of closure. Using this data, planners can improve road space management and control room operations.



## Satisfied clients

The Intellicone Smart Taper is used in England and Wales by our sister company, Chevron Traffic Management, to support their clients with essential traffic management plans. It is flexible, responsive and designed to adapt to any situation where tapers or road closures are necessary.

"We received an alert that a taper had been severely damaged with over 30 cones hit enabling an instant response. This was imperative as a strike of such severity could have caused accidents and endangered the workforce."

### TM Supervisor, West Midlands

"We received an alert that there had been a taper strike at 08.10 and the TM mobilised immediately. Given that our next check wasn't due until 08.45, there was a potential time delay of over 35 minutes before we took action. This is 35 minutes of risk which we were able to minimise."

### Costain TSCO, Smart Motorways

"We received an alert that a taper had been severely damaged with over 30 cones hits, just 10 minutes after the last check. The TM crew were able to instantly respond to the strike alert and were on the scene in minutes, reducing road user exposure time to the debris on the carriageway and making it safe for the workforce."

### Kier Highways

## HRS product range

- > Customer Communication Terminal
- > Intellicone Smart Taper
- > Intelliframe
- > Dynamic Speed Sign
- > Works Egress System
- > Intellicone Incursion Prevention & Warning System (IIPAWS)