



Intelliframe[®] Lite

Enabling Event-Based Maintenance

Intelliframe[®] Lite is easy to deploy and can be attached to existing temporary road signs to create a digital twin that can be remotely monitored. Attached to existing road signs, Intelliframe[®] Lite provides remote visibility of all safety critical signs.



It alerts traffic management operatives if there is an issue such as fallen signs, which changes the maintenance focus from routine checks to event-based maintenance. Crews can be dispatched when corrective action is required.



Key benefits

- No need to invest in new signs as Intelliframe[®] Lite can retrofit to existing stock
- Full visibility of works at all times
- Remote monitoring enables event-based maintenance
- Event-based maintenance removes regular checks of works
- Fewer maintenance checks reduce CO₂ emissions
- Sign fall alerts allow targeted response
- Significant improvements in operational efficiencies

Carbon footprint

The focus on carbon footprint is intensifying and the need for industries and businesses to take action to reduce CO₂ emissions is growing. Digital technology will be a key driver of environmental change within the traffic management industry. Intelliframe[®] Lite has proven to reduce CO₂ emissions and can be the catalyst for moving the industry towards event-based maintenance. Using Intelliframe[®] Lite, maintenance crews are only deployed when the system, which remotely monitors the route, raises an alert that a sign has fallen or has been moved. This removes the need for two-hourly, routine checks which, on many occasions, do not record any incidents and are therefore unnecessary. By moving to event-based maintenance, Intelliframe[®] Lite takes vehicles off the road and ultimately lowers CO₂ emissions.



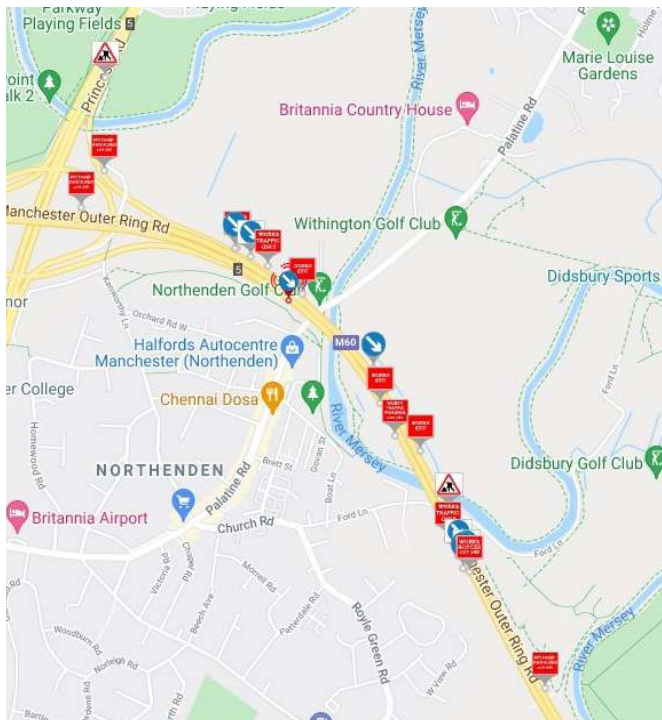
Intelliframe® Lite in action

Intelliframe® Lite has been deployed on a number of schemes across the UK, including the M11 and M60.

Case studies

M60 Palatine Road bridge repair scheme

Intelliframe® Lite has been deployed on the M60 Palatine Road bridge repair scheme which is in place for 12 months. In the first six months of these works, the use of Intelliframe® Lites has recorded a CO₂ reduction of 14,000kg and a fuel saving of 5,000 litres.



M11 Moor Hall diversion

Intelliframe® Lites were installed on the M11 Moor Hall diversion to create the first ever digital diversion route with remote visibility. The 10-day diversion was remotely monitored and routine maintenance was replaced by event-based maintenance driven by data and alerts from the

Intelliframe® Lites. The move to event-based maintenance removed 100 unnecessary journeys which traffic management operatives would have taken.

Removing the need for these journeys resulted in 2,770 fewer miles driven and a saving of 684.35Kg CO₂.

What our clients think

“The Intelliframe® Lite is a fantastic product which delivered numerous benefits on the M11 Moor Hall project, not least the environmental impact. The digital technology provided remote visibility of the diversion route and sent real-time alerts if signs had been moved or fallen. This enabled us to immediately deploy operatives to take specific corrective action and reinstate the signs. The Intelliframe® Lite not only removed the need for unnecessary “drive-by” checks, but the 24/7 monitoring ensured the integrity and safety of the diversion route at all times.”

Craig Wood, Chevron TM, East Region CWF Framework Manager

“I have to say it’s the best innovation I have come across since Construction Works Framework started.”

Paul O’Neil, National Highways Area 10 Construction Manager

Our product range

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