

CASE STUDY

Skanska | Intelliframe – 2nd March 2023

Introduction

Ensuring temporary traffic management including signage is maintained in a safe condition is critical both for the safety of our work force and for members of the travelling public. Working with our supply chain we wanted to explore opportunities to reduce risk through using technology.



Overview

Intelliframe offers a mobile solution comprising of a small box that can be fitted to any A frame sign in seconds. Once installed it connects with a backend system to report the frames position and location, battery life and any movement. It provides automated reports and alerts enabling 2 hour maintenance checks to be undertaken remotely. This not only ensures continuous TM compliance but also reduces risks to TM crews who are no longer required to drive around the scheme carrying out visual checks.



Challenges

Skanska have not used this product with HRS and HW Martins before on a major project scheme so there was some careful planning required including:

- Training and understanding of the product for our TM team
- Identification of parts of the scheme where we could achieve maximum benefit from using this technology



“Using Intelliframe has been invaluable here; the most important feature being how we have reduced the need for people to be out on the live traffic network monitoring signs and making sure everyone gets home safe and well every day – Chris Good Project Director”



Action Taken

HW Martins, who have used this system before, fitted the units to our signage and the Skanska TM Team managed the system.

It was important for us to be able to quantify and measure the improvements that using Intelliframe achieved and the first task was identifying where we could use it successfully. We chose a stretch of the A45 Westbound for the initial pilot. Measurable savings were based on the following criteria:

24 hour period of TM crew provision costs £1355.

Distance the TM crew covers in a 24 hour period including travel from HW Martin's facility to the start of the A45 circuit is 104 miles.

The A45 circuit is 6 miles and would need to be covered every 2 hours using traditional methods.



Results

Quantifiable benefits include:

Overall costs saved using Intelliframe were £309,093 – a significant saving.

Overall carbon savings – 64.48 tonnes



Contact:
Name
0043572974936



Email:
someone@example.com

home
safe
and well

Overall risk exposure hours saved (removing the need for operatives to be on the network) to date are 768 hours 3 crews of 2 persons each covering weekdays and weekend day and night shifts.

In addition Intelliframe provides an intelligence led approach to TTM maintenance. Skanska achieved a quicker response time for re-instatement of non-confirmative signs resulting in reduced risk for road users and improvements in the the overall customer experience.

