

The future of 「HFRCS」



Using AI to review and categorise incursion data, so you can take meaningful steps to improve your site safety, quickly and efficiently.

Find out more [here](#)



Proven Results on the Banwell Projects

Since implementing the IMS system, the Banwell project has delivered measurable reductions in high-risk people plant interactions:



50%+
reduction in unsafe
people-plant interactions



77%
reduction in isolation-related
risk through training



37%
fewer unsafe operator
approaches on-site

IMS System run by



SPILLARD
vehicle safety systems



plantforce

AI collaboration project shortlisted for excellence award

Spillard Safety Systems and Plantforce have been shortlisted for a Supply Chain Collaboration Excellence award after successfully deploying an AI safety solution on the Banwell Bridge project. With the collaboration cutting red zone incursions by 51.8%, it's hoped the team will take home the gong at Construction News Awards ceremony on 9th July.

Listed alongside big industry players like Kier and National Highways, this recognition from Construction News marks the outstanding performance of our supply chain partners as we worked towards a common goal - reducing the number of dangerous red zone incursions on the Banwell Bypass development site.

The collaboration saw us integrate Spillard's AI-driven Integrated Managed Services (IMS) technology into fleet operations. By working closely with the technology partner and clients Octavius Regional Civil Engineering and Galliford Try, the team were able to cut incidents by 51.8%, significantly lowering risk exposure.



Cutting safety risks

One of the biggest risks on the Banwell Bypass site were red zone incursions, where on-the-ground colleagues (and occasionally the public) get within a dangerous range of heavy equipment. To fix this, our supply chain team started a test-and-learn process to find an AI-driven solution.

Spillard installed and tested their Integrated Managed Services (IMS) technology in plant on the Banwell site. IMS combines Spillard's human form recognition camera technology with an intelligent AI interface and dedicated account management.

To get vital context and make genuine on-site impact, this information has to be shared and actioned collectively. To avoid siloes, the IMS model was co-developed with colleagues at every level on the Banwell site, from the Chairman to the Banksman.

Driven by key leaders at Plantforce, Spillard and Octavius, best practices were developed between teams, such as a regular feedback loop where concerns and information could be shared.

This enabled the team to implement proven solutions. Machine familiarisation training reduced isolation incursions by 77%. A change in the site layout cut 5m incursions by 25%, and the implementation of red zone and digital thumbs up training cut incorrect operator approaches by 37%. This cut the number of hours where workers were at risk (during 10-second incursions) by 48%.



Where it makes a difference

Human form recognition safety cameras enhance protection around excavators, dumpers, telehandlers, and other mobile plant where blind spots and changing site layouts increase risk. By detecting pedestrians in danger zones and triggering early warnings or automated responses, the system helps reduce collisions during loading, unloading, and material movement. This proactive approach improves plant safety, reduces near misses, and reinforces safe working practices.





Find out more **here**



Recognising real industry impact

The collaboration and best practices developed on this project allowed the team to make tangible progress towards their goal of reducing red zone incursions. It also helped fix an industry-wide problem of processing vast volumes of incursion data into tangible results.

Now at the judging stage of the process, the impact of this project will be assessed through face-to-face interviews. The winner will then be chosen by an independent panel of industry figures before the awards ceremony at the JW Marriott Grosvenor House.

George Shields, Works Manager for Octavius Infrastructure, said, "This collaboration saw two different supply chains brought together to meet a shared objective: improving workers' safety. We've been so impressed by both the technology and the impact it's made on our sites and teams. It's only been possible thanks to the professionalism between all partners."



Our Other Safety Systems

Height Restrictions

We provide XWatch and Prolec excavator height restriction systems to help prevent collisions with overhead obstacles, including power lines, bridges, and ceilings in confined spaces.

Slew Restrictions

We offer XWatch and Prolec systems, providing solutions that limit the machine's rotational movement to prevent collisions with nearby hazards, structures, or workers within a defined area.

3D Avoidance Zone Systems

We offer Leica and XWatch 3D avoidance zone systems, which utilise real-time geofencing and sensor-based monitoring to establish exclusion zones, to avoid operating in hazardous areas.

Our Safety Experts

Matt Milkins

Head of Digital

matt.milkins@plantforce.com
07470 567 111

Chris Bruce

Sales Director

chris.bruce@plantforce.com
07900 910 524

Trusted Safety Partners



HQ - Weston Depot

Winterstoke Road
Weston Super Mare
Bristol BS23 3YW
01934 640 840

Bristol Depot

Plantforce Compact
South Liberty Lane, Bristol BS3 2UQ
01934 640 840

Cornwall Depot

Moordown, St Ives
Liskeard PL14 3NA
01579 383 185

Devon Depot

Chancel Lane, Pinhoe
Exeter EX4 8JT
01392 344 880

East of England Depot

Babraham Road, Fulbourn
Cambridge CB21 5HR
01934 640 840

London Depot

Civic Way
Ruislip HA4 0YS
01934 640 840

Midlands North Depot

Diamond Way
Stone ST15 0SD
07000 606 606

Midlands South Depot

Snitterfield Road, Bearley
Stratford-upon-Avon
Warwickshire CV37 0EX
0121 371 0900

North West Depot

Park Lane Ind Estate, Wigan Road
Ashton-in-Makerfield WN4 0BZ
0121 371 0900

Scotland Depot

Lauchope Road, Newhouse Ind Estate
Motherwell ML1 5RX
07000 606 606

Somerset Depot

Unit 3, Dunball Industrial Estate
Bridgwater, Somerset TA6 4TP
01278 558 760

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