



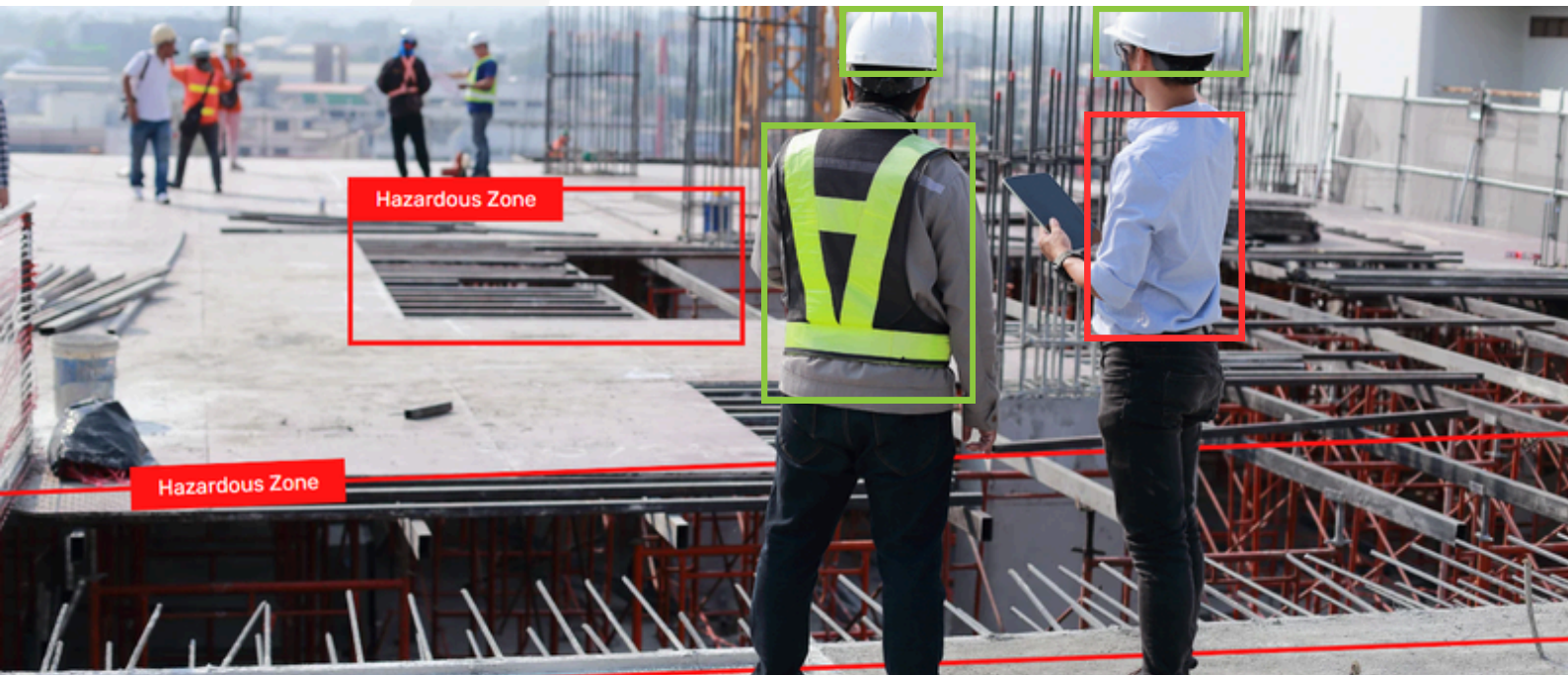
Business Intelligence  
Solutions

## Success Story: A Leading UK Civil Engineering Company

# PPE Detection

### Requirements, Benefits & Deliverables

- Deliver Bi3 Health and Safety Detection analytics to several UK sites.
- Provide Alerts and Ongoing Data to On and Off Site Management Teams.
- Strengthen Data Collection and the Enforcement of Health and Safety Policies in Hazardous Areas.
- Integrate with the Existing CCTV Infrastructure.
- Camera Agnostic: Integrate with various camera types across several locations.



## The Solution Story

A leading UK Civil Engineering Contractor specialising in highways & infrastructure work sought a solution to support **health and safety compliance** across its sites. They reached out to their security installer, looking for a reliable system to monitor PPE adherence and enhance workplace safety.

Recognising the need for an advanced detection solution, the installer engaged Bi3, **Experts in Human, Vehicle, and Object Detection**, to design a solution.

Bi3 implemented its **PPE Detection** solution across **19 sites**, with 8 fully deployed to date.

The AI-driven system ensured compliance with hard hat and high-vis vest detection, reducing risk and improving regulatory adherence by generating alerts on non-compliance.

Each site was equipped with **six detection channels**, providing real-time monitoring and automated compliance tracking.

## Scalable PPE Detection Deployment Across the UK

To maximise efficiency and reduce costs, the solution was designed to be **completely camera-agnostic**, allowing seamless integration with the client's existing CCTV infrastructure. This eliminated the need for costly hardware upgrades and enabled a fast, scalable deployment across multiple locations.

## Add on Health & Safety Analytics

In addition to PPE detection, several sites incorporated **slips and falls detection** and **hazardous area monitoring** as supplementary safety measures.

The system delivered automated email and video clip alerts, ensuring quick incident response and enhancing overall site safety.





**Business Insight**<sup>3</sup>  
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FOR FURTHER INFORMATION



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