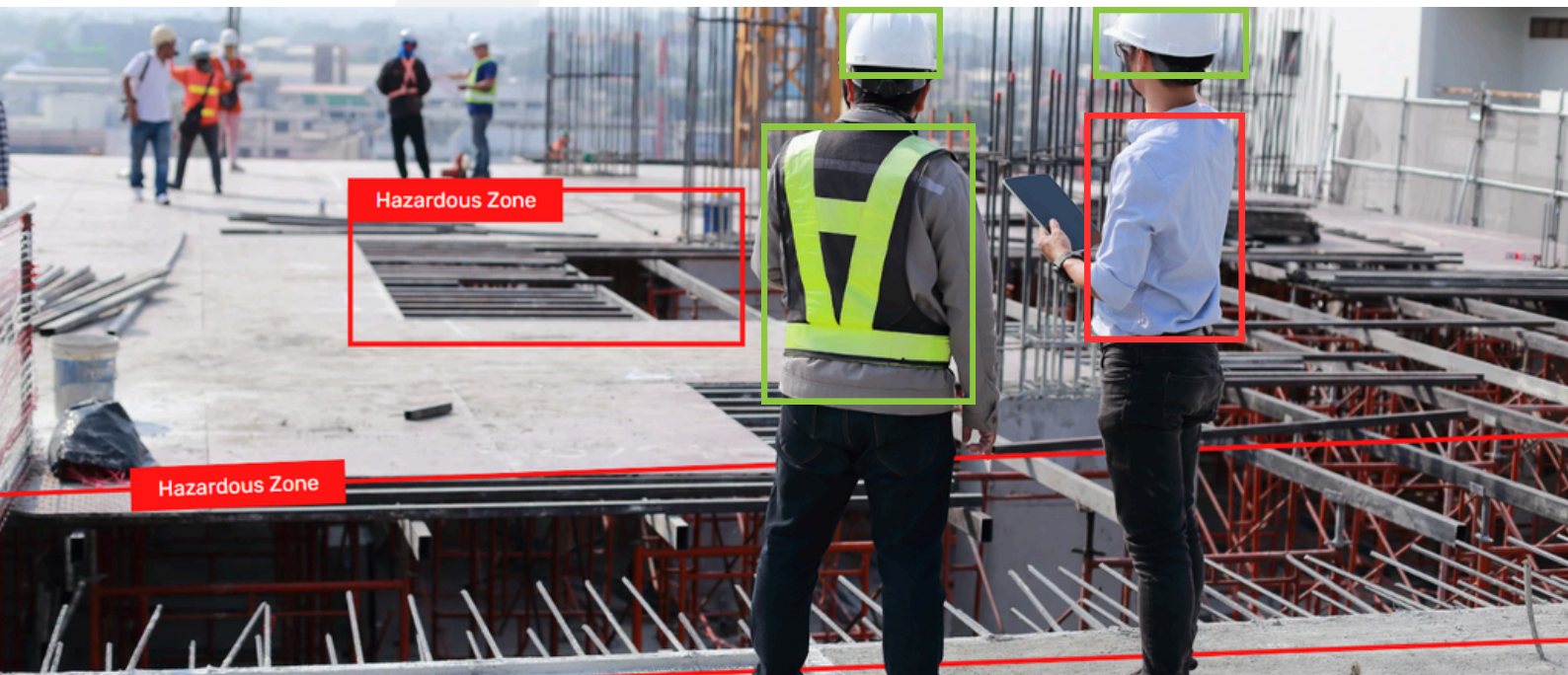# Success Story:
A Leading UK Civil Engineering Company

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.

Business Insight³
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BI Business Intelligence Solutions

BUSINESS CASE: PPE DETECTION

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.

Experts in Human, Vehicle and Object Detection

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FOR FURTHER INFORMATION

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"Experts in Human, Vehicle and Object Detection"