



Success Story: Catering Transit Time

Major UK Energy Construction Site

A Solution for Person Re-identification to Non-Invasively and Anonymously Count and Monitor the Transit Time of Employees on a Major UK, Energy Construction Site through the Food Service Zones.



BUSINESS CASE: CATERING TRANSIT TIME

The Partners

Client

G4S is one of the worlds leading security & facility management companies that specialises in providing solutions tailored to their client's needs. As a primary contractor on this project, G4S is largely responsible for providing the man guarding, perimeter security and access control for the entire Energy Construction site.



The site provide on-site catering and canteen facilities for site personnel. There are three staff catering locations (North, East & West) consisting of five serving areas. G4S approached Bi3 to design and supply a technology-based solution to track personnel transit time through the catering service areas.

BUSINESS CASE: CATERING TRANSIT TIME

The Results



Solution

Bi3 and G4S have deployed a solution comprised of standard CCTV cameras and GDPR-compliant person re-identification technology to track how long it takes for on-site personnel to pass through each canteen serving area.

CCTV cameras were placed at the entrances & exits of the serving areas. As people enter an area, the re-identification system will create a unique ID for each person. When a person exits the serving area the solution calculates how long it took for that person to travel through the area. The IDs for this person are then deleted, and the transit time is recorded. It is not possible for any transit time figure to be linked back to the person who generated it. Video from the CCTV cameras is not recorded.

The individual transit time records are then averaged over 15 minute intervals to provide an average transit time for each canteen, for all times that a canteen is in service.

Technology Deployed

 AI-Suite

Ultinous's industry-leading AI-based video analytics suite provides the re-identification functionality. Using the latest generation AI technology to quickly and anonymously reidentify persons transiting through the canteens. Bi3's HVOD: Data Engine is a reporting platform tailored to interrogating data generated by our best-of-breed Human, Vehicle and Object Detection Solutions. The Data Engine processes the data produced by Ultinous AI Suite to provide the management reports required by the catering team.

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The Benefits

Benefits to Client

G4S successfully implemented a solution that fulfils the end user's requirements without resorting to intrusive methods such as access control readers, or a manned presence in the canteen.

This has resulted in G4S being able to provide accurate, reliable and consistent data without impacting the flow of footfall traffic through the canteens.

Benefits to End User

The end user now has access to real-time, accurate data demonstrating the performance of each canteen in terms of the volume of personnel served, and speed of service.

This enables the end user to;

- More effectively plan shift breaks and control the canteen capacity.
- Review the impact of events on-site on the transit time through the canteens.
- Respond to changes in canteen throughput in real-time.

Quotes

"Bi3 excel at delivering innovative technology that adapts to unique requirements while meeting the challenge posed by unique environments. The re-identification solution deployed at the site exemplifies this approach. By providing non-intrusive and anonymous tracking of individuals, we've successfully delivered a transit time solution that offers crucial decision-making data to site management."

- Richard Eaves, Head of Business Intelligence



01772 330 777



INFO@BI3.CO.UK



WWW.BI3.CO.UK



"Experts in Human, Vehicle and Object Detection"

Business Insight 3 Ltd, Preston Technology Centre, Marsh Lane, Preston, PR1 8UQ

01772 330 777 Email: info@bi3.co.uk Website: www.bi3.co.uk

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