

Equipment Special: Using AI To Drive Plant Safety

Countryside has introduced anti-collision technology from Safety Shield to prevent accidents on its housebuilding sites.

Housebuilder Countryside recently mandated AI-driven anti-collision technology from tech firm Safety Shield for construction machines on its sites.



Michelle Dearsley is Countryside's group health and safety director. "We all know that construction is a high-risk environment, so it's important to constantly look at how we can improve safety on site, particularly for mobile plant," she explains.

One of Countryside's plant hire partners, Arden, has introduced the Safety Shield technology on its JCB telehandlers.

The AI solution uses software and 360 video cameras fitted around the machine to identify the human form, differentiating it from other objects around the site.

Read the report here: <https://constructionmanagement.co.uk/equipment-special-using-ai-to-drive-plant-safety/>

Scotland's largest Sustainable School Build

Robertson – one of the largest family-owned construction, infrastructure and support services businesses in the UK – has delivered the new £16.7m Merkinch Primary School in Inverness.

It is the first school in the Highlands, and largest school in Scotland, to be built using a cross-laminated timber frame (CLT), which is more sustainable than traditional construction methods.



Procured through Scape Scotland for The Highland Council, the project is being delivered in two phases. In phase one, the new-build school has been created adjacent to the existing primary school and includes 14 new classrooms, ancillary teaching area, three-room nursery, nurture rooms, a four-court games hall and an external multi-use games area.

Find out more on their website - <https://constructionmanagement.co.uk/me-and-my-project-merkinch-primary-school-and-family-centre/>

PPE At Work Regulations Have Changed

This week the Personal Protective Equipment at Work (Amendment) Regulations 2022 (PPER 2022) came into force. They amend the 1992 Regulations (PPER 1992).

Under PPER 2022, the types of duties and responsibilities on employers and employees under PPER 1992 will extend to limb (b) workers, as defined in PPER 2022.



If PPE is required, employers must ensure their workers have sufficient information, instruction and training on the use of PP. Our revised PPE guidance explains how you can comply with the Regulations. It includes:

- Details of the types of PPE available
- The hazards that may require PPE to be used
- Advice on the selection, use and maintenance of PPE

Source - <https://www.hse.gov.uk/ppe/ppe-regulations-2022.htm>

Vehicle Safety In Construction Still Cause For Concern

The latest report by HSE (Health & Safety Executive) shows that construction tops the most dangerous occupations in the UK for fatal injuries. One of the main causes of fatal incidents for workers is being struck by a moving vehicle. In fact, when compared to the causes of non-fatal injuries, incidents involving a moving vehicle resulted in at least one death on all reported occasions in 2020/2021.



Since the introduction of the latest set of Construction Design and Management Regulations (CDM) in 2015, those found guilty of breaching health and safety rules have faced even heftier fines. In 2021, BAM Nuttall Limited was ordered to pay more than £700,000 after an employee was run over and killed by a dumper vehicle at one of its sites.

The construction company was found guilty of breaching section 15 (2) of the CDM Regulations, which specify that a contractor must plan, manage, and monitor construction work.

Read more here - <https://www.bdcmagazine.com/2022/05/vehicle-safety-in-construction-still-cause-for-concern/>

Panelised MMC 'Reduces Hazard Exposure By 20%'

Panelised modern methods of construction (MMC) for new homes can reduce health and safety hazard exposure by 20% on construction sites. That's according to a new study by Stewart Milne Group, lead partner in the Advanced Industrialised Methods for the Construction of Homes Innovation Project (AIMCH).

The study asked which was safest: Masonry or open panel timber frame built with a forklift, or more advanced panelised MMC using a crane. The study, supported by Limberger Associates AIMCH project managers, examined working practices and techniques in two areas: floors and windows. Stewart Milne chose those areas because increasing the Pre-Manufactured Value (PMV) is likely to become commonplace.



The study developed a methodology for assessing risk, aligned with Health and Safety Executive (HSE) hazard classifications, and developed consequential risk profiles for each. These covered hazards such as: falls from height; slips and trips; moving and handling loads; and lifting operations. They were used to compare the effect of on-site working practise differences between GEN1 site assembly and GEN 3 prefabricated construction methods.

Read more here - [https://constructionmanagement.co.uk/panelised-mmc-reduces-hazard-exposure-by-20/#:~:text=Panelised%20modern%20methods%20of%20construction,Homes%20Innovation%20Project%20\(AIMCH\).](https://constructionmanagement.co.uk/panelised-mmc-reduces-hazard-exposure-by-20/#:~:text=Panelised%20modern%20methods%20of%20construction,Homes%20Innovation%20Project%20(AIMCH).)



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