

BEST PRACTICE

LOCATION:	Mobile Plant	ARTICLE YEAR	2022
ACTIVITY:	Pedestrian and transport safety on-site	COMPANY:	FM Conway
SUB ACTIVITY:	No Sub Activity Available	COMPANY LOCATION:	Erith, Croydon, Heathrow
BEST PRACTICE No:	BP2138	COMPANY TEL:	0000
COUNTRY OF ORIGIN:			

TITLE

Incorporating human recognition & risk reporting into Safer by Design

ARTICLE

FINALIST

There has been considerable work done across the industry in an attempt to reduce the risk of large plant coming into contact with other vehicles and pedestrians. There is however a consistent challenge with the people on the ground and those operating large plant especially on the public network, both can be unpredictable in their actions and perception of the risk.

Being able to predict people's movements or capturing the human factors when operating vehicles would be of significant benefit in further reducing the risk of fatal or life changing harm by reversing vehicles on site.

FM Conway Aggregates and Asphalt and the plant team looked to see if it was possible to use current advances in optical artificial intelligence to find a solution that would take them to the next level in protecting people on the ground.

The active personnel detection system monitors the rear area of the wheel loader and automatically warns the operator of dangers by means of a visual symbol on the display and an acoustic signal. Another aid for avoiding collisions is the brake assistant. With the aid of the latest camera technology, the system distinguishes between people and objects applying the brakes automatically to a stop when people are detected but bringing to a crawl speed when an object is detected. This is achieved using smart cameras and without the people on-site needing to be equipped with transponders or sensors. This makes the Liebherr system one of the safest currently on the market.

Watch the video to find out more about how FM Conway applied the system.

ARTICLE IMAGES