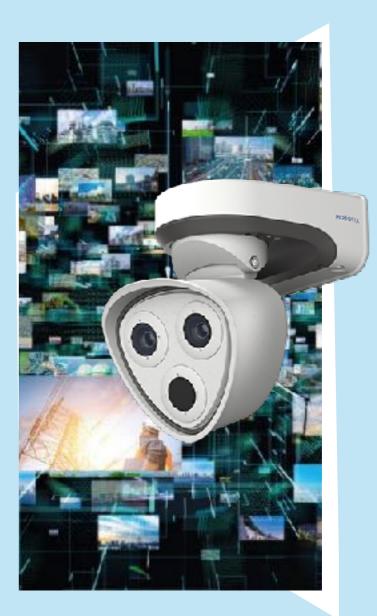


VIDEO SOLUTIONS SERVICES

IMPROVING WORKPLACE SAFETY USING VIDEO SURVEILLANCE AND ARTIFICIAL INTELLIGENCE

Dorel MOCANU

VSS Department Manager



Giving Shape to Ideas



MOBOTIX

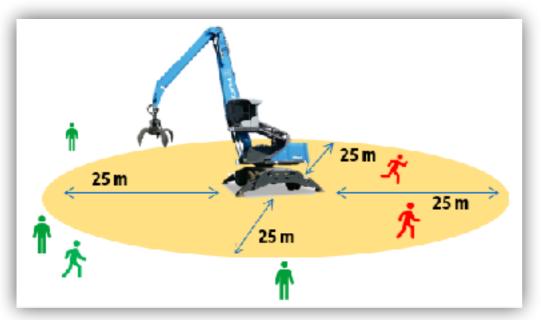
Diamond Partner 2023

KONICA MINOLTA VIDEO SOLUTIONS SERVICES

Thermal Standard Advanced VMS Hardware Video Video Imaging Platforms Analytics Analytics Solutions MOBOTIXHUB MOBOTIXCLOUD Luxriot °

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AI SOLUTIONS FOR HEALTH & SAFETY SCENARIOS



Monitoring safety distances



Monitoring the use of protective equipment

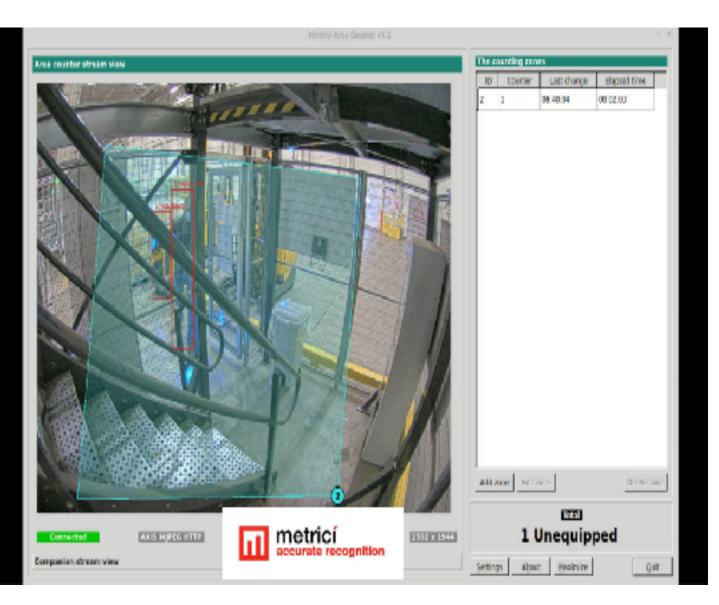


Thermal imaging



PPE USAGE MONITORING

- Automatic detection of people not wearing personal protection equipment (masks, glasses, helmets, safety vests, gloves and others) to timely react and solve the issue.
- The application analyses subjects in front of a security camera and report a violation if personal protection equipment are not worn
- Fully customizable solution to match customer needs





SMART MIRROR SOLUTION



- Smart mirror installed at the entrance of industrial facilities in order to perform PPE check
- The solution allows faster checking of the PPE at the entrance of the facilities, a reduction of
 resources dedicated to the checking of the PPE at the entrance and increase awareness
 about the safety measures to the employee



SMART MIRROR SOLUTION



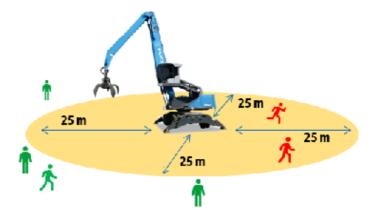


• The solution is integrated with control access equipment



SAFETY FIRST WITH MACHINE PERIMETER MONITORING

- Artificial intelligence enables perimetral detection of humans in restricted areas where special machine handling grabbers are involved in different actions with potential life threating consequence.
- The solution helps mitigate work accidents and potential harm situation in proximity of heavy utility machines offering high accuracy of human detection for up to 25 meters radius around machine grabber





Life-threatening scenario where a person might be out of the operator's sight



SOLUTION DIAGRAM

Equipment mounted inside operator's cabin

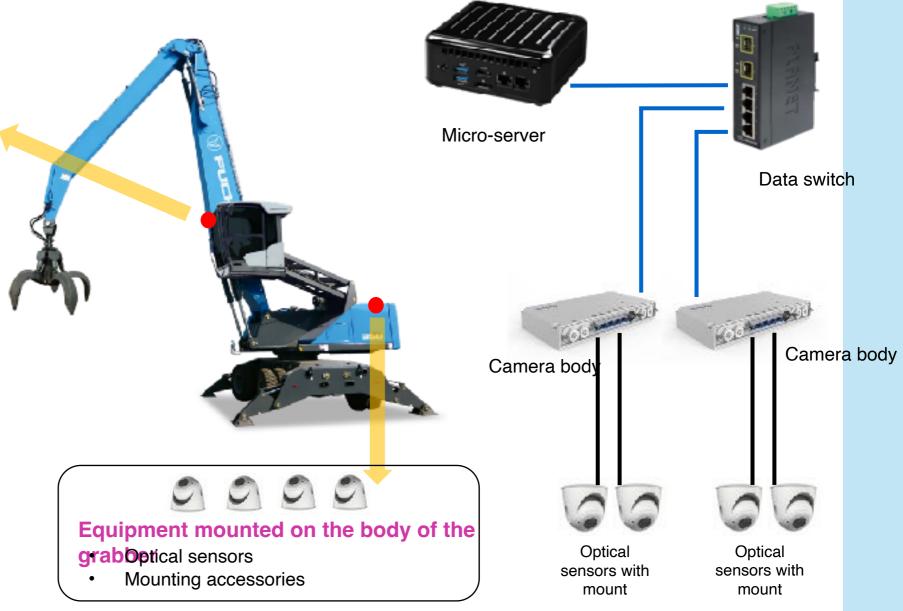


Processing box

- Camera body
- Mini-server
- Data switch
- Power supply

Signaling box with LED and buzzer









 Optical sensor with metal enclosure for protection



OPTICAL SENSORS

 Optical sensor with metal enclosure for protection







 Optical sensors with metal enclosure for protection





 Camera body mounted in a protected area



PROCESSING UNIT





Custom box designed to operate in challenging conditions



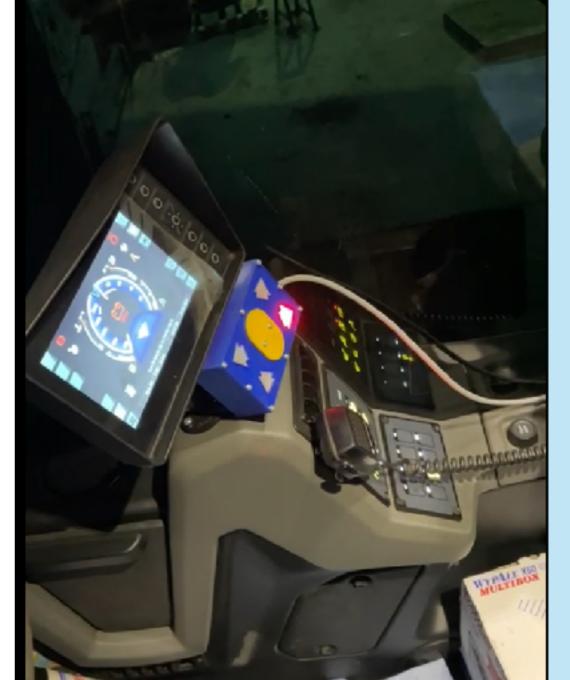






 Signaling box with LED lights and buzzer





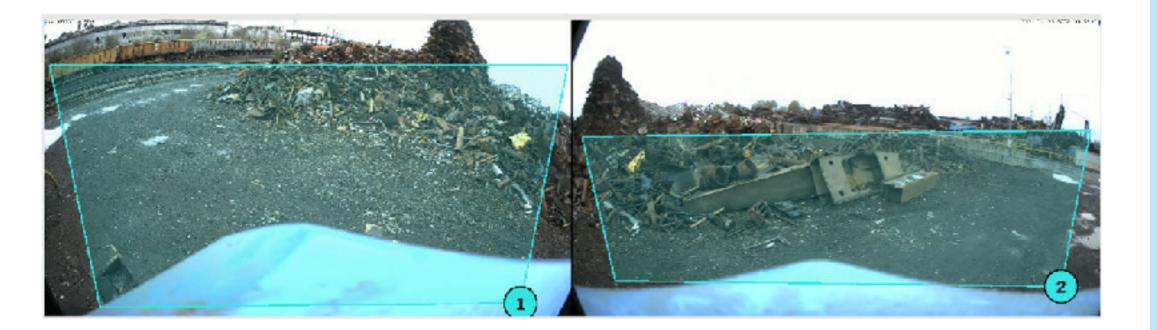


ARTIFICIAL INTELLIGENCE APPLICATION DETECTION AREAS





ARTIFICIAL INTELLIGENCE APPLICATION CUSTOM DETECTION AREAS



Giving Shape to Ideas





ARTIFICIAL INTELLIGENCE APPLICATION SAMPLE DETECTIONS



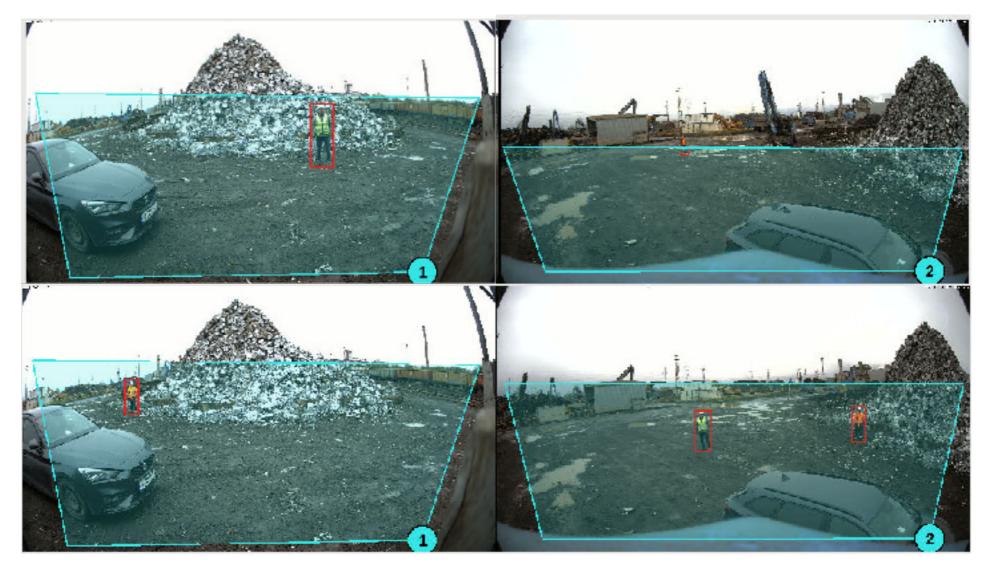


ARTIFICIAL INTELLIGENCE APPLICATION SAMPLE DETECTIONS





ARTIFICIAL INTELLIGENCE APPLICATION SAMPLE DETECTIONS







ARTIFICIAL INTELLIGENCE APPLICATION SAMPLE DETECTION







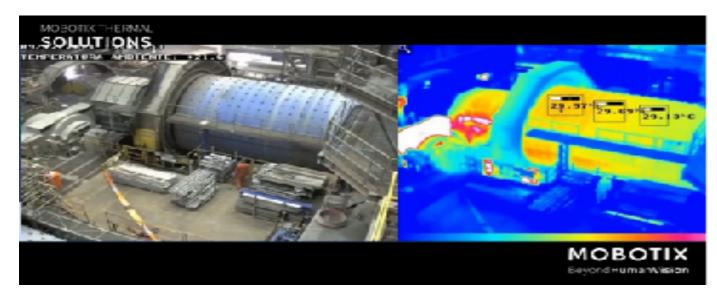
ARTIFICIAL INTELLIGENCE APPLICATION DEMO VIDEO





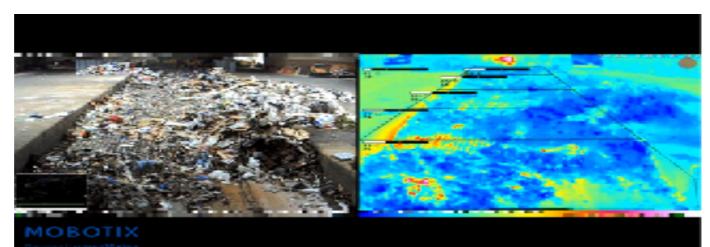


THERMAL IMAGING SOLUTIONS





Predictive Maintenance



Early Fire Detection

Giving Shape to Ideas



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