

HOW CAN HSE MANAGERS LEVERAGE ADVANCED VISUAL AI TECHNOLOGY TO REDUCE FORKLIFT INCIDENTS?

PROBLEM

Forklift incidents are a prevalent source of serious injuries in the workplace, requiring extended recovery time for injured employees and substantial costs for employers.

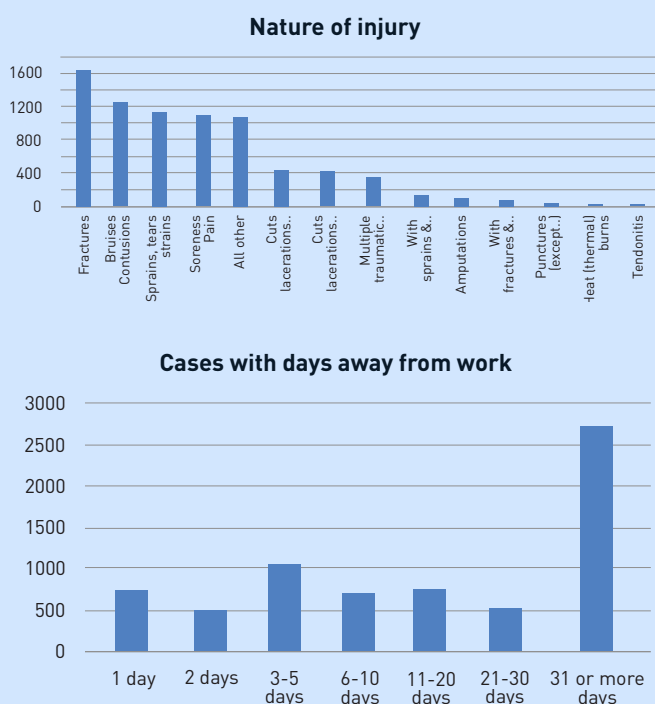
SOLUTION

Avathon Industrial AI platform automatically records near misses, unsafe acts, and other incidents using CCTV cameras found in most workplaces. Data flows to robust dashboards where supervisors can track trends and discover root causes.

OUTCOME

Industrial AI platform enables HSE managers to address procedures and behaviors causing risky situations, creating a system of improvement, reducing the burden on their employees, and simplifying HSE program improvements.

FORKLIFT INCIDENTS CAUSE SERIOUS INJURIES WITH EXTENDED TIME AWAY FROM WORK



SOURCE: Bureau of Labor Statistics, U.S. Department of Labor

FORKLIFT INCIDENTS ARE COSTLY, AND FAR TOO COMMON

Forklifts accounted for 7,290 accidents in 2020, resulting in a median of 17 lost days of work per incident, according to the U.S. Bureau of Labor Statistics.

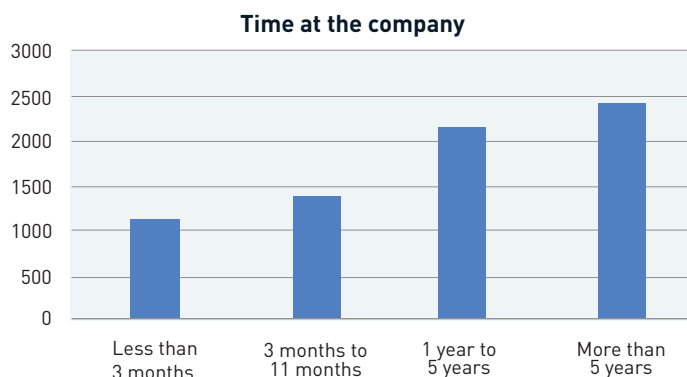
This is 42% more days missed to injury than the average incident, which is 12 days. Why? Largely because 39% of forklift incidents require more than 31 days away from work—over a month of recovery time.

Fractures were the leading injury, with median total costs of \$115,000. Many of the nonfatal injuries are to the lower body. However, fatalities typically involve multiple body parts as well as the head and trunk.

Studies reveal that the more tenured an employee is, the more at-risk they become. This creates a multifaceted problem for employers when their most experienced (and likely most valuable) forklift operators become unable to work for a month or more.

EXPERIENCE DOES NOT PROTECT WORKERS FROM FORKLIFT ACCIDENTS

Even with more experience and training, forklift operators with five years or more tenure at a company suffer twice as many injuries compared to brand new operators—which could be due to increased responsibilities or a willingness to take on riskier tasks.



Experience and training may not be the best way to examine forklift incidents. A more important question to answer is what contributed to the accident. Many alternative factors lead to accidents, including:

- Safety procedures
- Busy work sites
- Wavering attention spans
- Fatigue

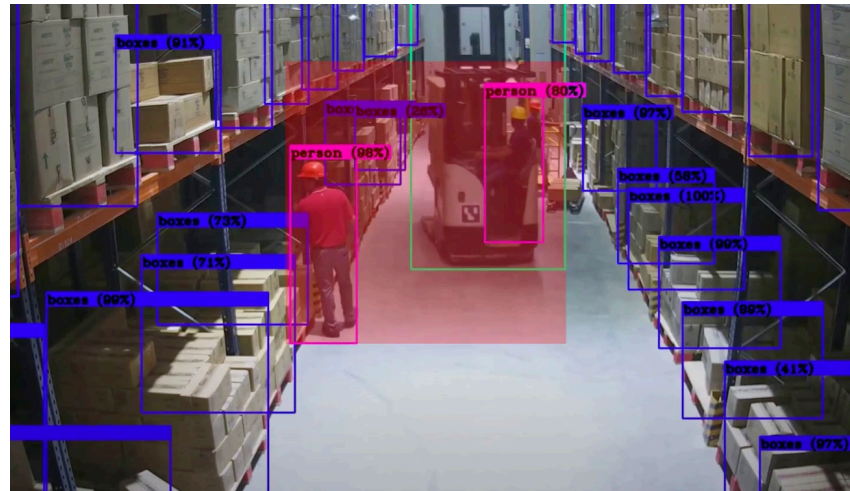
The only factor in an HSE manager's control is safety procedure. The wise course of action is to target prevention techniques. Still, supervision, risk assessments, and process auditing are strenuous and time-consuming.

IN AN AVATHON SURVEY OF HSE MANAGERS, 70% RESPONDED THAT THEIR BIGGEST CHALLENGES ARE TRAINING, CONTROLS, AND PROCEDURE COMPLIANCE.

CREATE A SYSTEM OF IMPROVEMENT THAT STARTS WITH INDUSTRIAL AI PLATFORM

Avathon Industrial AI platform minimizes time-to-value for operationalizing enterprise computer vision technology. Using camera hardware you already own, you can observe and address previously undetected warning signs before they spiral into urgent and costly problems.

- Deploy Industrial AI platform to automate your reporting.
- Track and uncover unsafe acts and near misses.
- Analyze trends and patterns of incidents.
- Update training and controls to target patterns.
- Measure and quantify the changes.



REDUCE YOUR EMPLOYEES' SAFETY BURDEN AND SIMPLIFY YOUR HSE IMPROVEMENT PROCESS

Industrial AI platform monitors how people and vehicles move next to each other in space, alerting managers to unsafe actions in real-time and gathering data via heatmaps and situational awareness data to help HSE supervisors optimize towards a zero-incident workplace.



Automate recording near misses and unsafe acts.



Get real-time alerts to prevent accidents and reduce alert fatigue.



Specify unsafe actions that should shut down a process, creating engineering controls.



Integrate with other systems for high-level process visualization.



Keep accurate records: organized by time, facility, and type of incident for easier search.



Establish a reporting system that displays patterns and trends.

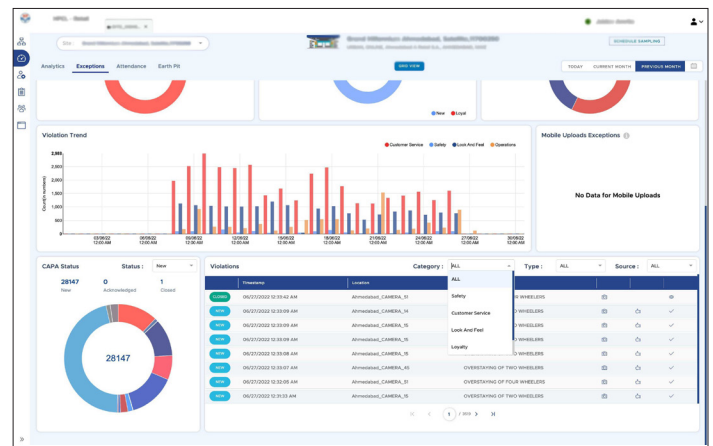


Create targeted training and controls based on accurate data.



Quantify changes in your HSE program by looking at the reduction in incidents.

Industrial AI platform tracks incidents from multiple streams into a single dashboard. Filter for incidents by type, facility, and time of day with contextualizing snapshot images—reducing investigation time and aiding root-cause analysis. Report-building features quantify the incident reduction efficacy of new controls and procedures.



Industrial AI platform supports 125+ use cases to help you target forklift safety, including object detection & tracking (vehicle speed), scene understanding (turnaround time), facial recognition (authorized personnel), and activity, event & threat detection (collision risk).

With its proven ability to recognize, analyze, and react to forklift safety concerns, Industrial AI platform unlocks unprecedented value from your camera feeds to enable HSE process improvements.

ABOUT AVATHON

Avathon, a leader in Industrial AI, extends the life of critical infrastructure while advancing the journey toward full autonomy. Avathon's Industrial AI platform empowers commercial and government customers with scalable, secure, and value-driven solutions that enhance efficiency and resilience across heavy industry.

To learn more about how Avathon's AI solutions can unlock the power in your data, visit www.avathon.com.