



CYCLOP[®] SOFTWARE

Make Your Workplace Smarter



The Global Cost of Unsafe Work Environments

Every year, over 2.78 million people lose their lives due to occupational accidents or work-related illnesses. That's equivalent to more than 225,000 deaths per month. In addition, 374 million non-fatal injuries occur annually, leading to an estimated 4 billion workdays lost worldwide.

These incidents have a profound economic and operational impact, costing the global economy approximately US \$3.9 trillion annually representing nearly 4% of global GDP.

High-risk industries such as construction, oil & gas, and manufacturing continue to report the highest number of incidents, with preventable violations like missing PPE and unsafe behaviors remaining leading causes.

Current Challenge vs. AI Driven Protection



Current Challenge

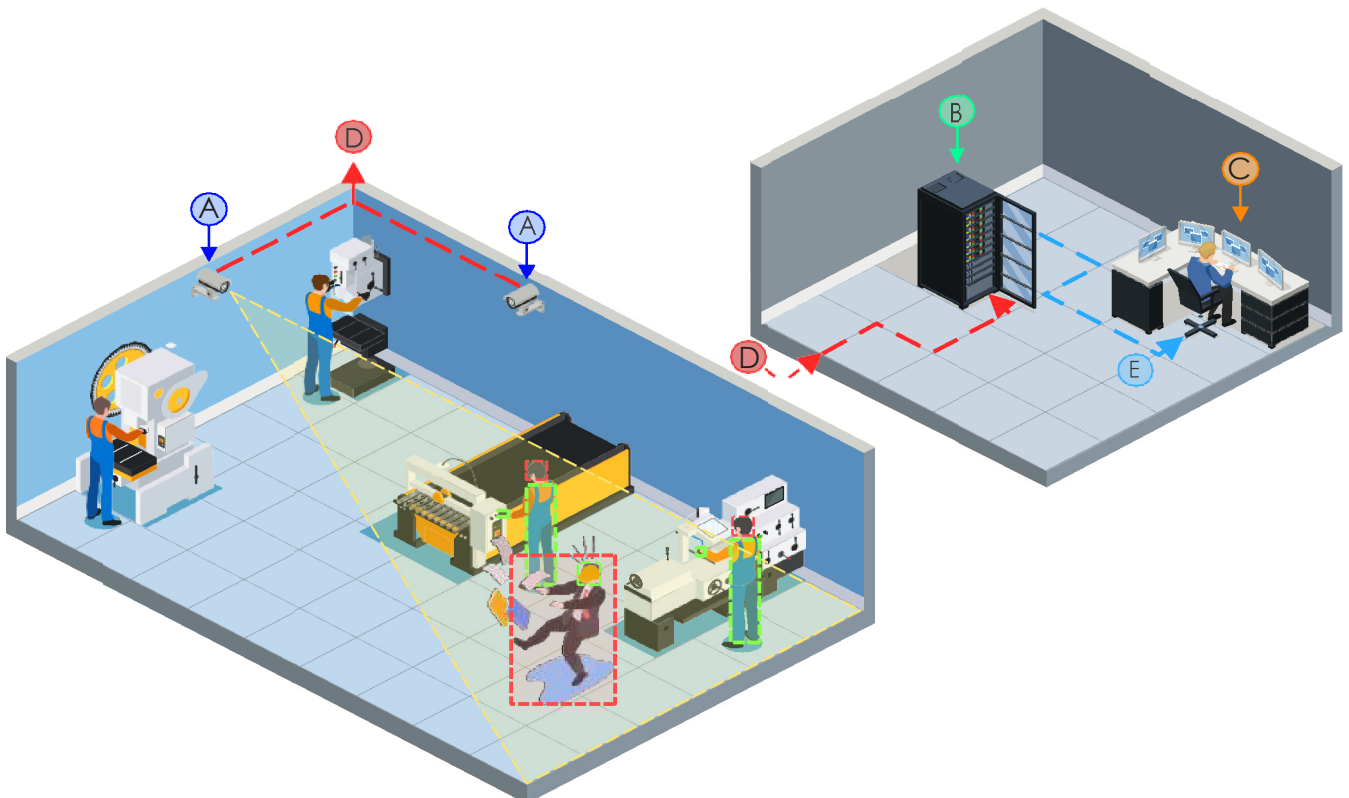
- ✗ 2.78 million deaths annually.
- ✗ 374 million non-fatal injuries each year.
- ✗ US \$3.9 trillion global safety cost (~4% of GDP).
- ✗ Delayed emergency response.
- ✗ High insurance premiums & liability exposure.



With Cyclop AI Video Analytics

- ✓ Early AI alerts can reduce fatal risks by enabling real-time intervention.
- ✓ Cyclop provides real-time documented incident reports.
- ✓ AI solutions deliver up to 50% reduction in incident-related costs.
- ✓ Over 90% accuracy in PPE compliance monitoring through AI-powered video analytics.
- ✓ AI provides 24/7 scalable surveillance, and 40% reduction in insurance premiums when using intelligent video surveillance.

Real-Time Hazard Detection and Instant Alerts





Cyclop® Smart AI Surveillance for Safer Workplaces

Cyclop is an AI-powered video analytics system designed to prevent incidents before they happen. It transforms ordinary CCTV networks into intelligent safety monitoring systems capable of detecting risks, unsafe behavior, and rule violations in real time.

How It Works

- ✓ Live Camera Integration Captures RTSP camera streams and sends them securely to a local compute server.
- ✓ Neural Network Detection Uses advanced AI models to identify people, PPE, activities, equipment, and risky behaviors.
- ✓ Rule-Based Analysis Checks compliance against safety rules (e.g., helmet + vest required).
- ✓ Real-Time Alerts & Logging Sends alerts instantly and logs violations with time, camera ID, and snapshots.

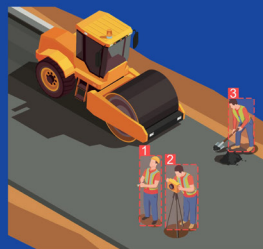
What CYCLOP® Detects

Function	Purpose
PPE Detection	Ensures helmets, vests, and gloves are worn correctly
Perimeter Intrusion	Flags entry into restricted or dangerous zones
People Counting	Counts personnel presence over time
Smoking Detection	Identifies hand-to-mouth gestures
Productivity Monitoring	Analyzes movement and posture to assess activity

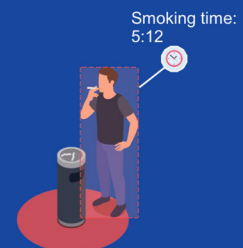
Smart Monitoring Features



PPE Detection



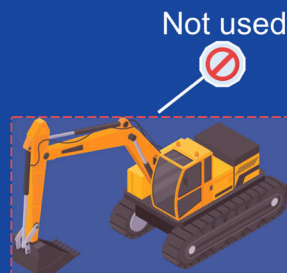
People Counting



Smoking Control



Perimeter Analysis



**Analyzing The Efficiency
of the Technology Application**



**Analyzing Employee
Productivity**

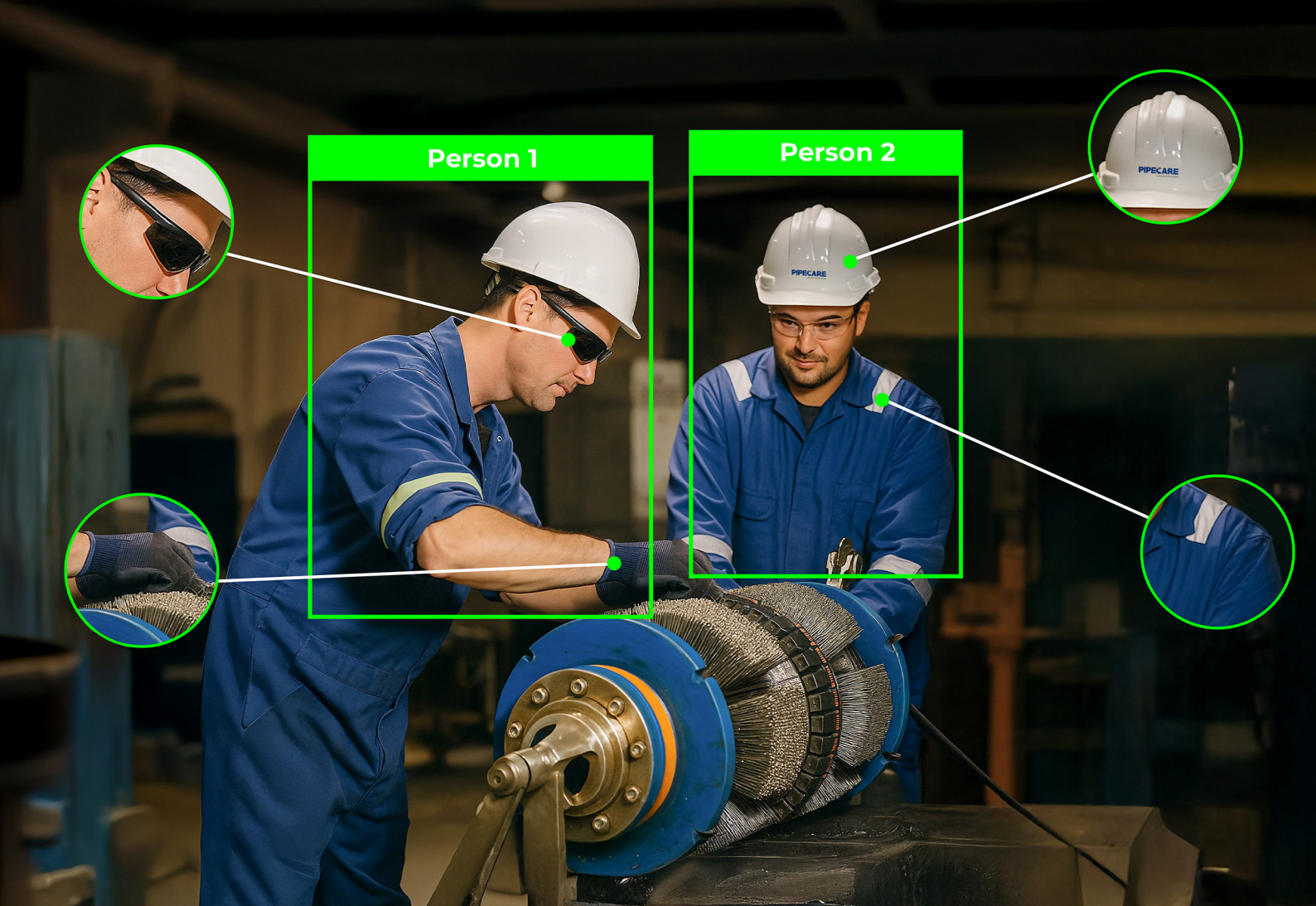


Real-World Applications Where CYCLOP® Makes a Difference

Cyclop is designed to seamlessly adapt to environments where both safety and operational efficiency are of paramount importance.

Thanks to its highly flexible and modular architecture, it can be tailored to meet the unique demands of various industries, including manufacturing, logistics, energy, and defense. Whether deployed in high-risk zones, complex industrial facilities, or dynamic field operations, Cyclop ensures reliable performance and robust integration with existing systems.

This versatility makes it a powerful solution for organizations that prioritize mission-critical outcomes across diverse operational settings.



Industries Served

Industry	Use Case
Construction	PPE compliance, worker counting, fall detection
Oil & Gas	Intrusion detection, fire/smoke alerts, hazard zone access
Manufacturing	Equipment misuse, crowding, PPE violations
Mining	Vehicle proximity, worker behavior analysis
Warehousing/Logistics	Zone control, entry/exit alerts, unsafe forklift use

CYCLOP®

 Email

info@pipecaregroup.com
www.pipecaregroup.com

PIPECARE CYCLOP® SOFTWARE

We care about your pipelines.

Copyright © PIPECARE GROUP