



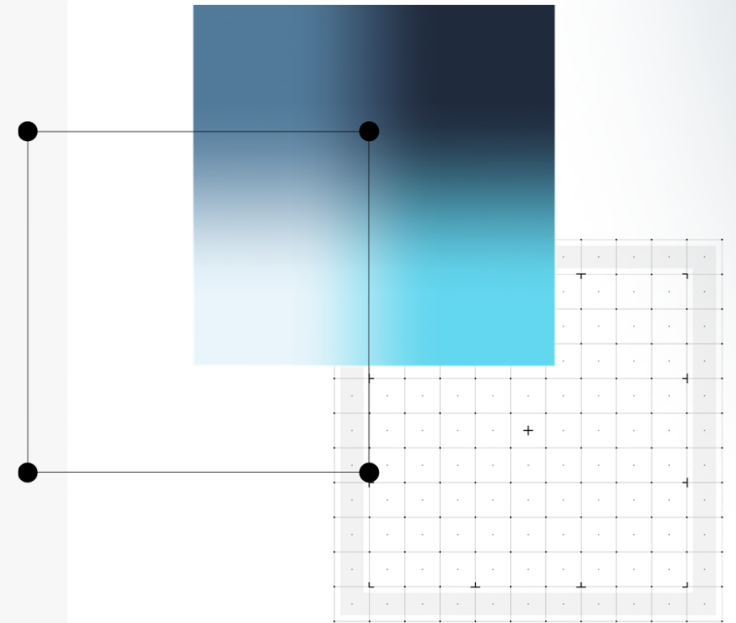
Weatherford Vision Analytics

Weatherford Autonomous Surveillance Platform— turning cameras into intelligent safety and operational eyes across upstream and midstream sites.



Lee Nott

Area Sales Manager



PROVEN OUTCOMES & THE PRIZE | What the same backbone returns onshore and offshore

■ Proven on land. Scales offshore.

3,371 hrs

Potential NPT Saved

Across 5 operational rigs,
Oman / KSA / Mexico

\$5M+

Total Operational Savings

NPT avoidance, incident prevention,
reduced intervention

22+

Stuck Incidents Prevented

Proactive AI intervention
before pipe becomes stuck

3,000+

**Observations &
Interventions**

Line-of-fire, PPE, zone violations
captured and acted on

Onshore, proven — Weatherford ISP, Middle East

AI cameras across 5 rigs since Dec 2023 cut line-of-fire incidents and shifted crew behavior, not just alert counts. On land the same backbone protects low-cost equipment and recovers deferred barrels. NPT down 10–15% · HSE incidents down 20%+ · \$5M+ documented savings.

Onshore, the same backbone — Industry proof

Smart sensors deployment flagged high vibration anomalies weeks before failure. A \$30–40K pump replacement was avoided. Proactive work order raised and maintenance completed before any production loss. Annual subscription cost is a fraction of a single equipment failure — the downtime and deferred production cost is orders of magnitude higher.

THE PROBLEM

The problem with current video monitoring

Legacy CCTV records everything and prevents nothing.

PASSIVE

Records, Never Acts

Legacy monitoring is passive, manual and reactive, with high false-positive rates — and the footage is only ever reviewed after something has already gone wrong.

COSTLY

A \$350B Blind Spot

Safety incidents, security breaches and operational inefficiencies cost enterprises hundreds of billions a year — most of it invisible until after the fact.

WASTED

Data That Sits Idle

Petabytes of video pile up and go unused — no live alerts, no automation, no intelligence pulled from what the cameras already see.

UNPROVEN

First-Gen AI Didn't Scale

Early AI video analytics failed to scale across sites and conditions, pushing operators to look for an architecture that actually holds up in the field.

Multi-modal, edge-first, agentic AI.

Safety AI

Comprehensive workplace safety monitoring — PPE, red-zone, line-of-fire and person-down — the moment it happens.

Security AI

Site and perimeter security — intrusion, access control, loitering and unauthorized vehicles — on the cameras already in place.

Visual Agentic AI

Live agents reason over live video and event data, surface hidden risk and take action — not just raise an alert.

Asset Intelligence

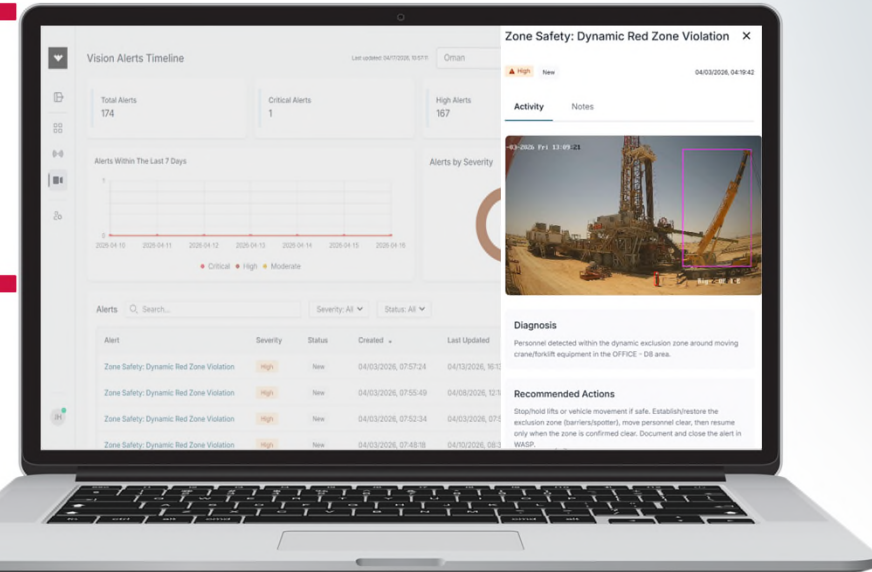
Asset tracking and digital-twin records — every asset with its event history, inspections and KPIs in one place.

Operational Intelligence AI

Live insight into how the site actually runs — movement, congestion, dwell and throughput — turned into operational decisions.

Wireless Sensor Integration

LoRaWAN sensors and actuators extend the platform beyond vision — gas, temperature and leaks, fused with the camera feeds.



One platform, many intelligence engines

VALUE PROPOSITION

One solution. Three things it changes.

Continuous visual intelligence — built on your existing camera infrastructure.

FOR HSE

Safety Visibility

Know when safety conditions change — across every zone, every shift.

FOR OPERATIONS

Operational Understanding

Understand how work is done versus how it should be done. Use that gap to improve procedures and strengthen rig state awareness.

FOR DIGITAL

A Learning Foundation

A vision AI layer on existing infrastructure. Structured data feeds your digital safety platforms and future GenAI programs. In practice: **one avoided equipment failure covers the annual system cost — the downtime and deferred production cost is orders of magnitude higher.**

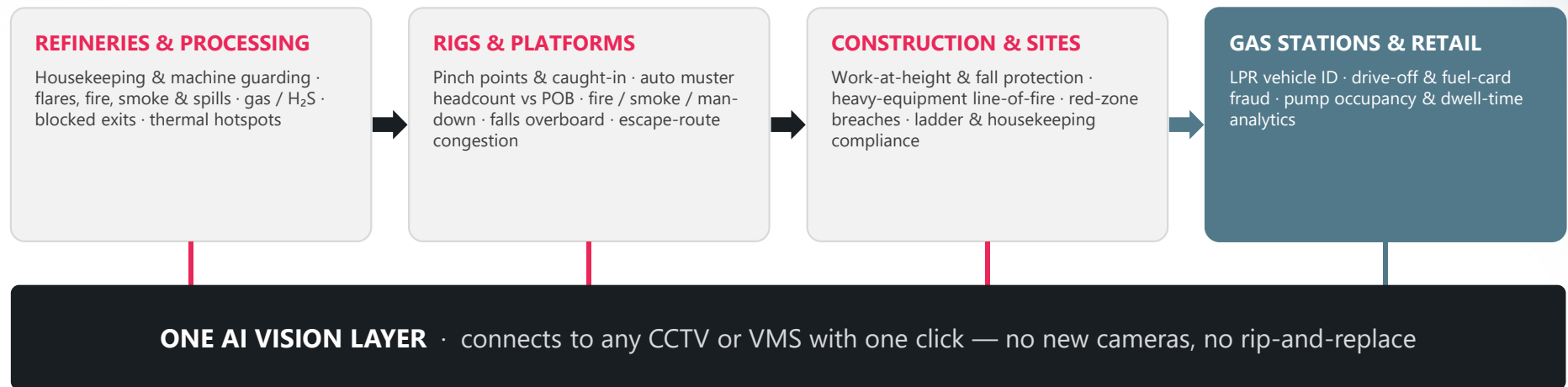
FOR IT/OT

Edge-First Architecture

Analytics and alerts run locally - data residency is maintained, latency, and continuous monitoring is never dependent on cloud connectivity. Designed to integrate within existing IT/OT governed infrastructure without requiring system replacements. The outcome: **Continuous alerts and detections is under 2 seconds – fully operational even when remote connectivity is lost.**

One Platform. Every Environment.

The same Vision Analytics platform runs across every site you operate. Each environment carries its own risks — one AI layer detects them all, on the cameras you already have.

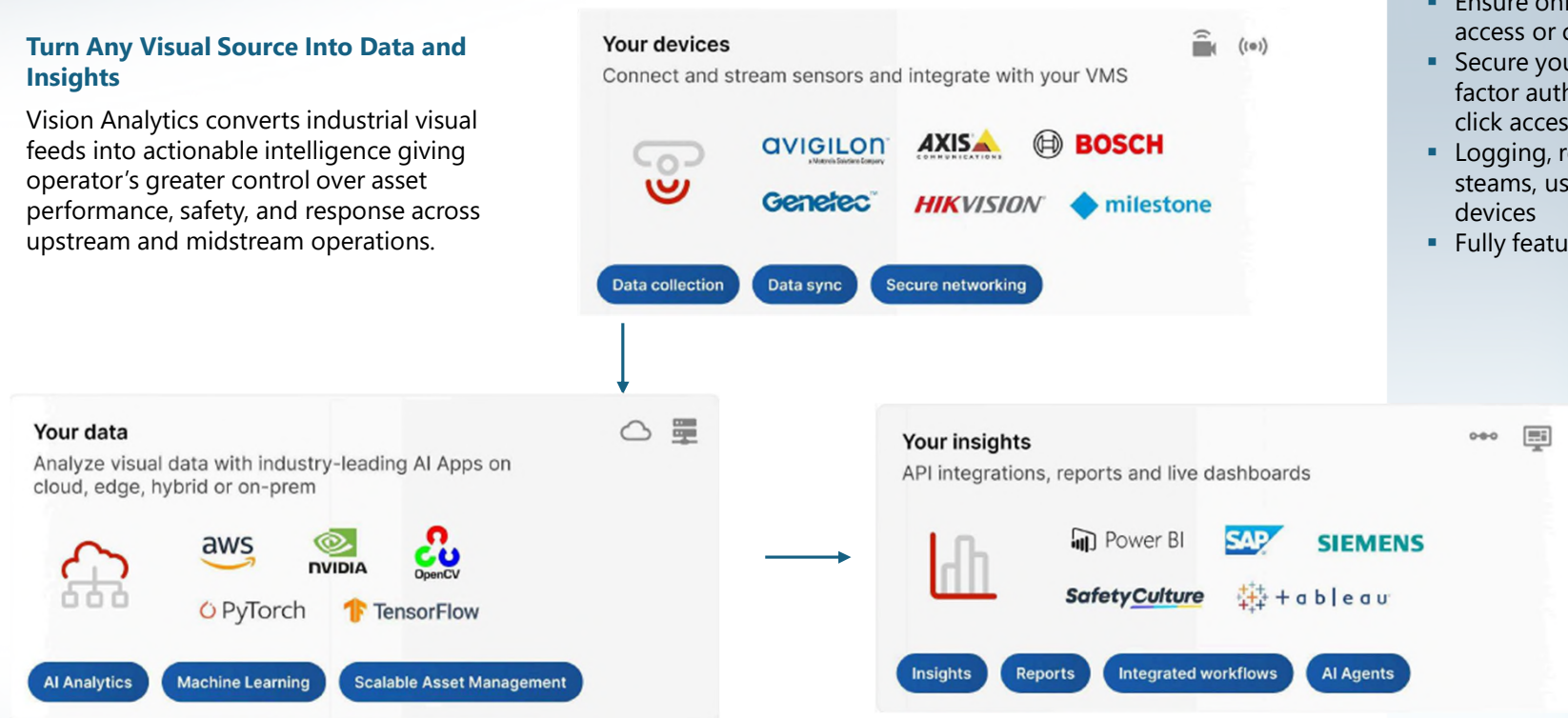


Already proven in O&G: our edge-first AI runs in production at ADNOC across multiple onshore and offshore divisions — the same engine behind Weatherford Vision Analytics.

Turn Visual Data Into Operational Control

Turn Any Visual Source Into Data and Insights

Vision Analytics converts industrial visual feeds into actionable intelligence giving operator's greater control over asset performance, safety, and response across upstream and midstream operations.



Enterprise Administrative Functions

- Teams and tasks
- Roles and permissions
- Ensure only the authorized staff can access or change information
- Secure your systems through multi-factor authentication and enable one-click access through single sign-on
- Logging, reporting, and auditing of streams, users, usage, and connected devices
- Fully featured API

What It Sees



Safety and Security Compliance

From on-shore to off-shore, a single end-to-end platform to manage your workers safety and workplace security.

USE CASES

Where it creates value.

Safety & Compliance

Continuous, automated detection of zone violations, LSR, PPE adherence, and personnel in high-risk areas. Exception-based alerting means supervisors act on what matters.

Loss of Containment & Spills

Continuous visual monitoring of wells and process areas detects signs of loss as they occur — faster response, lower environmental and operational risk.

Workflow Monitoring & Procedural Recognition

Visual AI tracks activity patterns against expected procedure sequences. Identifies deviations from standard — across shifts and repeated cycles.

Rig State Visibility

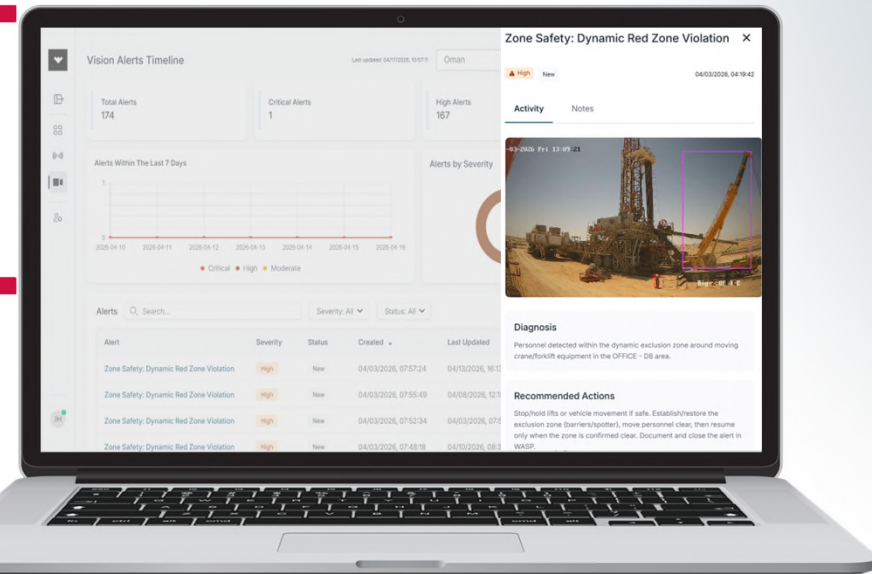
A structured, continuous picture of what is happening across the rig — what phase, where personnel are — integrated with existing drilling and well data.

Learning from Normal Work

The system builds a baseline of how work happens. Deviations become visible. Patterns that repeat become structured inputs for operational improvement.

Situational Awareness

Live, annotated feeds with zone-level intelligence give supervisors and control-room teams a coherent operational picture — not raw footage, but structured context.



Vision Analytics — live deployment

Safety & Life-Saving Rules

Map every detection to the Life-Saving Rule it proves — audit-ready, at the edge.

- PPE compliance — hard hats, glasses, gloves, coveralls
- Line-of-fire & suspended load — caught with real 3D depth, not flat boxes
- Red-zone, proximity & person-down in restricted areas
- Events mapped to IOGP-aligned LSR KPIs — audit-ready evidence

~40ms detection-to-action at the edge — alarms fire on-site even if the link drops; safe behavior is logged too, so supervisors coach with evidence.

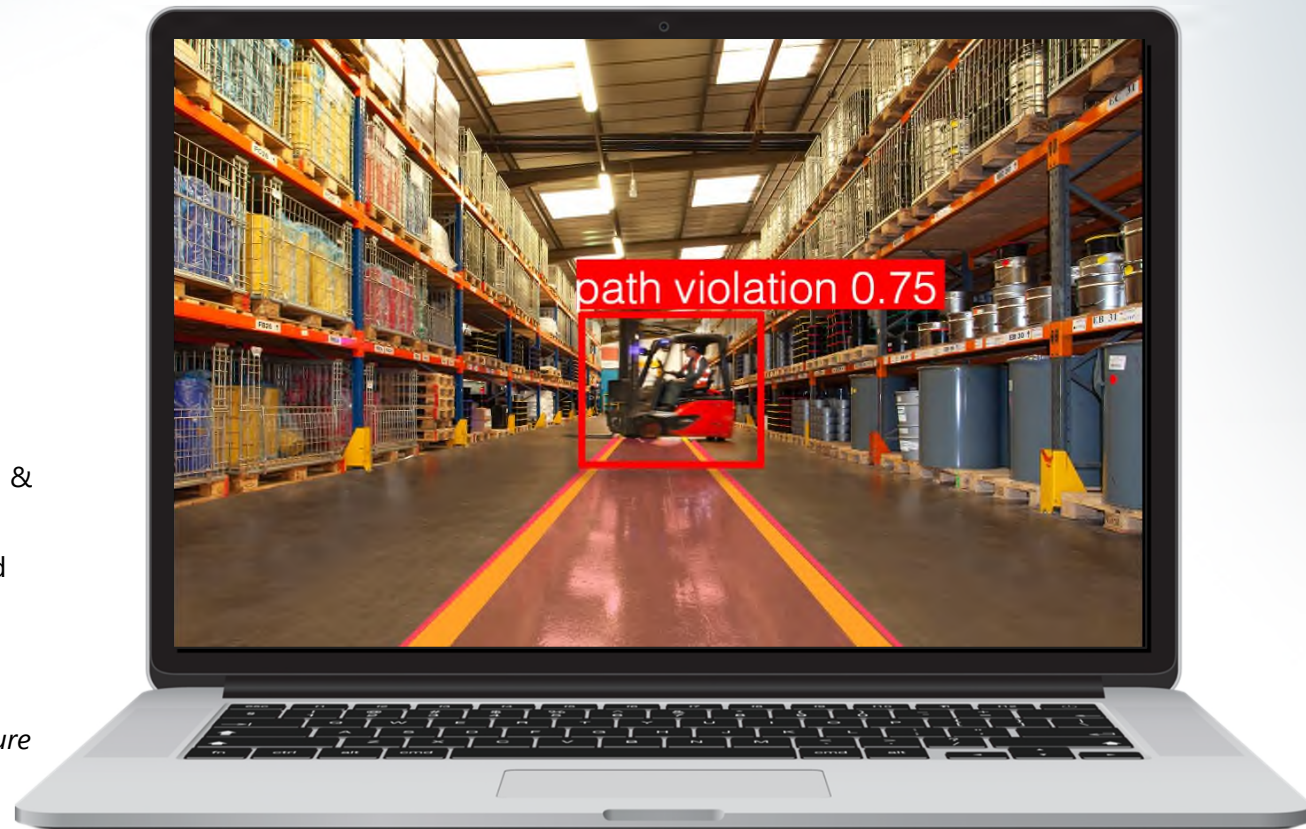


Live Situational Awareness

One live picture of the rig floor and work areas — risks ranked, not buried.

- Live, single-pane view across every camera and location
- Worker presence, restricted-area entry, congestion & pathway use
- Auto muster headcount vs. POB; person-down and crowd density
- Events risk-ranked and routed to the right person automatically

Turns scattered feeds into one common operating picture for fast, coordinated decisions.



Loss of Containment and Spills

Catch a spill, leak, or fire the moment it starts.

- Visible liquid spills, leaks, and pooling
- Smoke, fire, and abnormal flare activity
- Gas releases — vision paired with H₂S / gas sensors
- Blocked drains, bunds, and containment breaches

Detection in seconds triggers local alarms and routed alerts — contain fast, protect people and the environment.

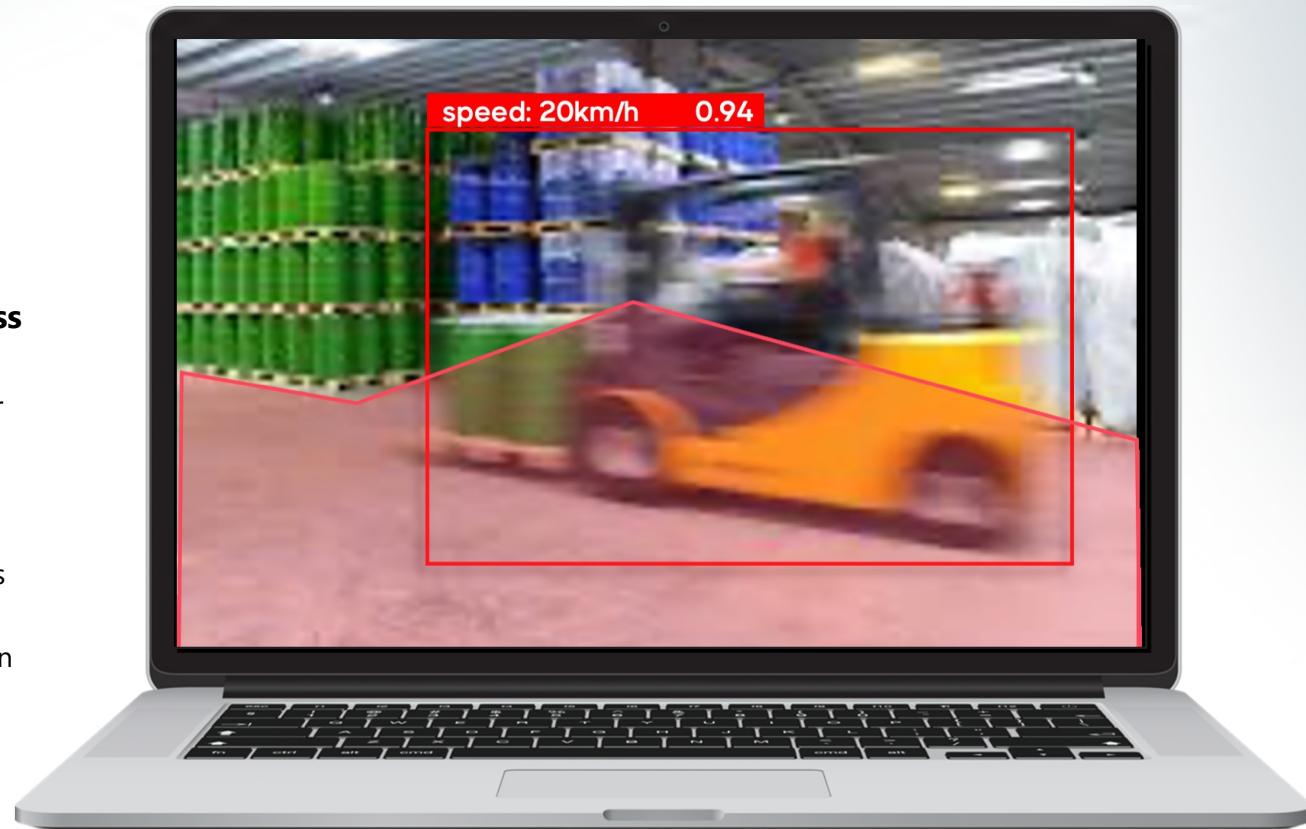


Beyond Alerting

Any vendor flags a missing hard hat. The value is the pattern no person catches across shifts.

- Learns what “normal” looks like for each zone over time
- Flags recurring red-zone breaches and repeated unsafe proximity
- Surfaces repeated blocked egress and risk patterns shift-over-shift
- Turns one-off alerts into a coaching and prevention program

The differentiator competitors can't easily copy — deviation detection, not another detector.

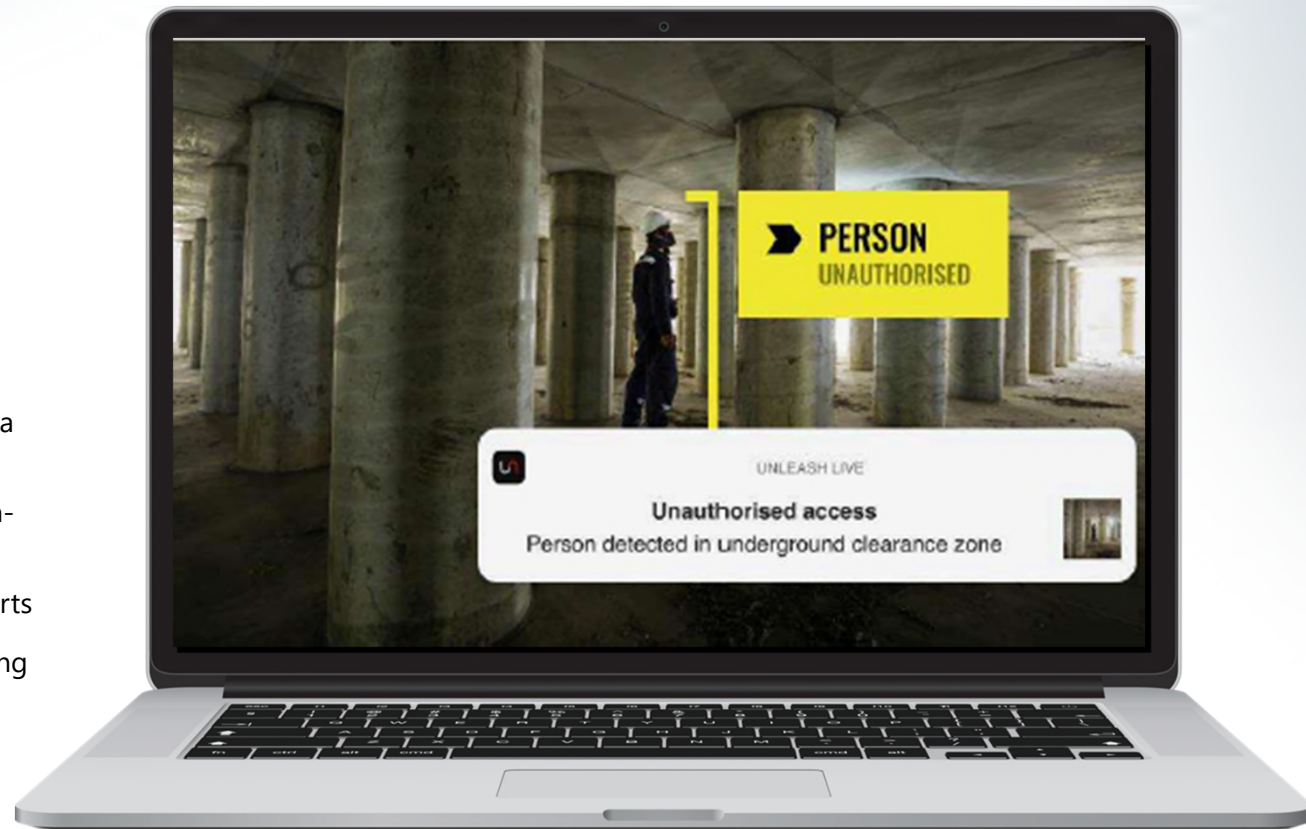


From Detection to Action

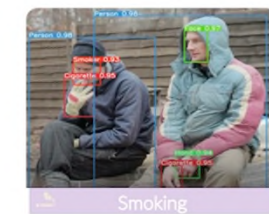
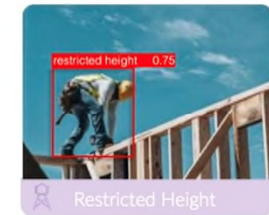
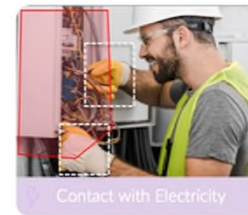
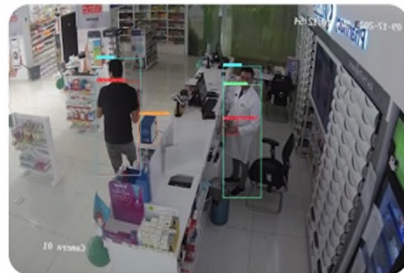
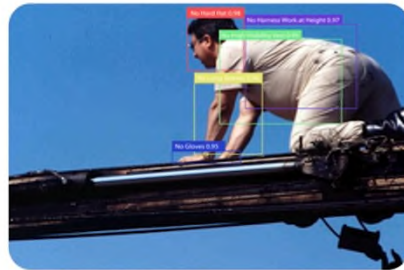
An event shouldn't just alert — it should resolve. The Vision Agent turns detections into tracked outcomes.

- GenAI agent reasons over live video and event data to surface hidden risk
- Every event managed like a work ticket — open, in-progress, closed, with evidence
- Auto-generated, audit-ready LSR compliance reports
- Integrates with existing SCADA / CMMS and alerting

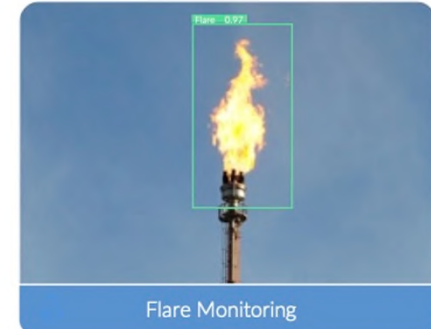
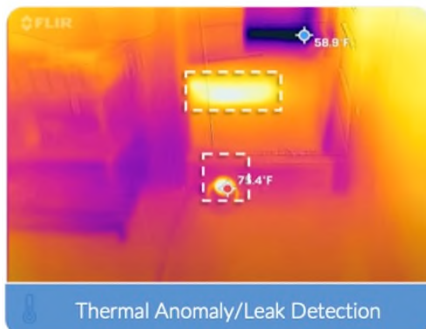
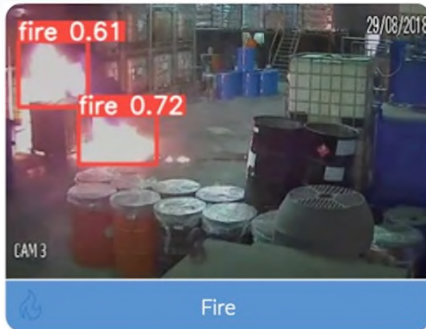
Detection becomes a closed loop: flagged, owned, resolved, and provable — not just another dashboard alert.



PPE Monitoring and Behavioral Safety



Emergency Management



Area Controls - Safety



Work at Height



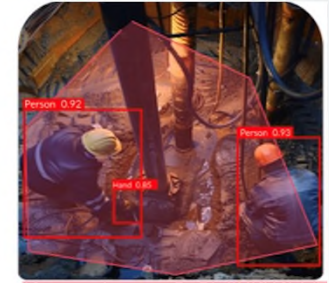
Line-of-Fire



Object Distance



3D Depth



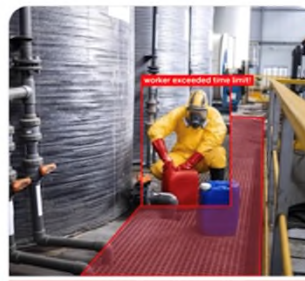
Red Zone



Machine Area Controls



Machine Restricted Area



Time-limited Area



Restricted Area



People Min/Max/Count

Vehicle Monitoring



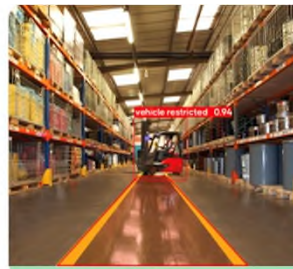
Dynamic Delimitation Area



Vehicle Speed



Vehicle Operation Zone



Vehicle Restricted Area



Load Hazards: Handling



Load Hazards: Weight



Parking Restricted Area



Parking Restricted Area



Person-Vehicle Distance



Vehicle PPE Compliance



Vehicle Counting

SENSORS & ACTUATORS

Enhancing vision with LoRaWAN sensors.

Gas & Environmental

H2S, CO2 and CO detection plus temperature and humidity — wireless sensing for what a camera can't see.

Worker SOS & Tracking

Personal SOS, man-down and location tracking for lone and remote workers, without expensive GPS hardware.

Fire & Hazard Triggers

Triggers for firefighting systems and alerts for electrical hazards — sensing and actuation on the same network.

Asset & Vehicle Tracking

Long-range tracking of assets, equipment and vehicles across the site, fused with the visual record.

Work-Progress Monitoring

Track work progress and building-management systems, integrated into one operational picture.

Rescue & Actuation

Rescue support and remote actuation — the platform doesn't just detect, it can trigger a response in the field.



Long-range, low-power — more use cases on one network



 **Industrial Intelligence**
POWERED BY WEATHERFORD

Vision Analytics



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