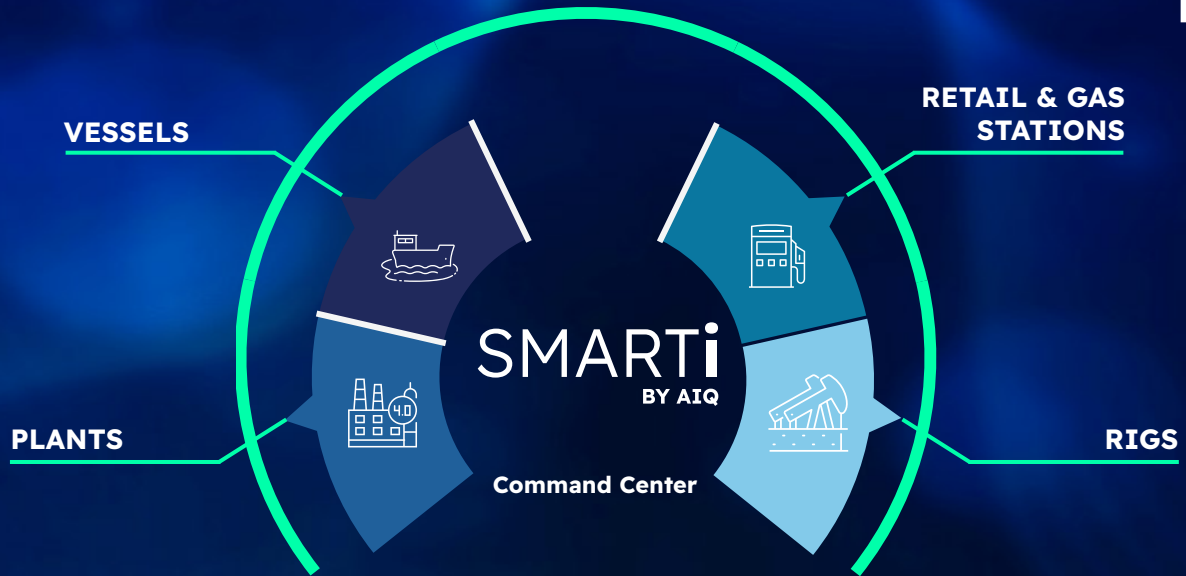


SMARTi
BY AIQ

YOUR DIGITAL EYE FOR ENHANCING VISION BEYOND WHAT YOU SEE

SMARTi leverages advanced computer vision and real-time analytics to transform existing CCTV networks into intelligent monitoring systems that automatically detect safety incidents, ensure operational compliance, and generate actionable insights to enhance performance and customer experience.



CAPABILITIES

- Real-Time Video and Sensor Monitoring
- Extensive Use-Case Library for Multi-Domain Applications
- Enhanced Safety Monitoring & Compliance Detection
- Strategic Decision Support Through Performance Analytics
- Custom Dashboard Analytics & KPI Visualization
- Centralized Cloud Command Center for Multi-Site Operations
- Scalable Deployment via Edge Devices and Hybrid Cloud
- Intelligent Incident Response & Automated Workflow Management



WORKFLOW & TECHNOLOGY

SMARTi TECHNICAL ARCHITECTURE & AI INFRASTRUCTURE

Multi-Cloud Infrastructure	Edge Computing	AI Models	Data Ingestion	Command Center	Workflow Engine	MLOps	Data Platform
Multi-cloud deployment (Azure/AWS/G42) with Kubernetes and GPU acceleration	On-device inference via SMARTi Edge Boxes with GPU processing	Containerized computer vision, object tracking, and action recognition	Real-time RTSP/ONVIF stream processing with edge optimization	Cloud-based dashboards with geospatial mapping and reporting	Low-code pipeline builder with intelligent alarm management	Automated model training, retraining, and lifecycle management	Time-series analytics with PostgreSQL/Elasticsearch storage

USER REQUIREMENT



USE CASE: **Vessels**

SMARTi transforms vessel operations through AI-powered monitoring that enhances safety, compliance, and operational efficiency across offshore and marine environments.



Life-vest
Detection

Personal
Detection

Pose
Estimation

Uniform
Detection

Unsafe Body
Posture

Work Permit
Compliance

No-Go Zone
Recognition

Man Overboard
Detection

Helmet
Recognition

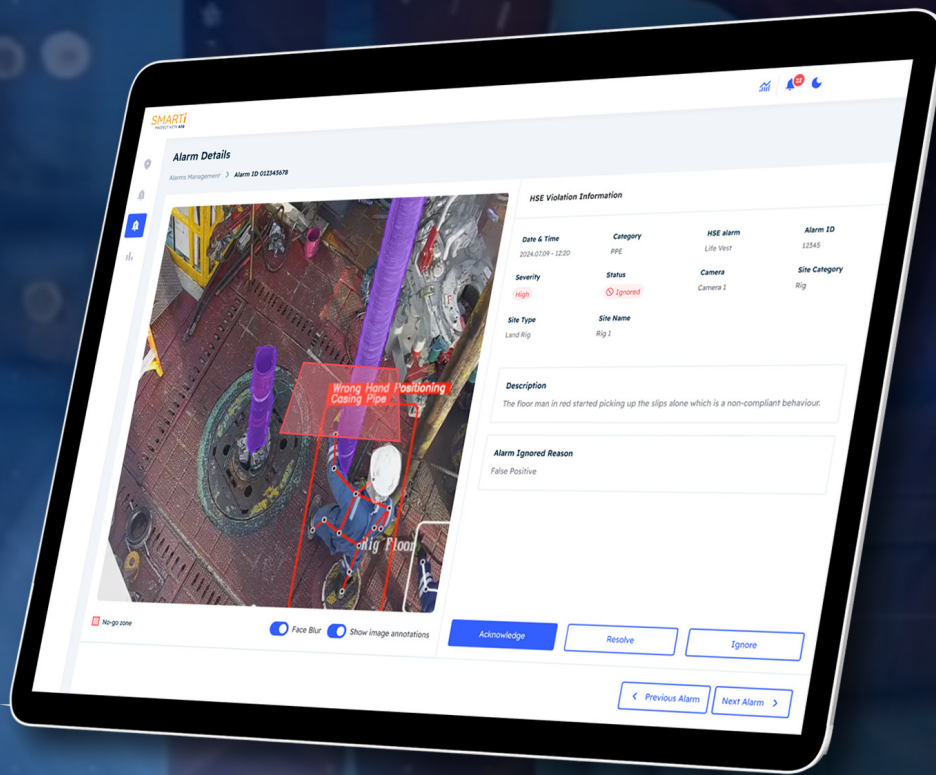
Fall
Detection



USE CASE: Rigs & Plants

SMARTi has been designed for the demanding environments of drilling rigs and plants. It addresses critical safety challenges while enhancing security and operational efficiency.

The system provides comprehensive vision monitoring capabilities that protect personnel, prevent incidents, and ensure regulatory compliance in high-risk industrial environments where safety is paramount.



Gloves Detection

Under Suspended Load

Fire & Smoke Detection

H2S Mask Detection

Hand Position Interacting with PL

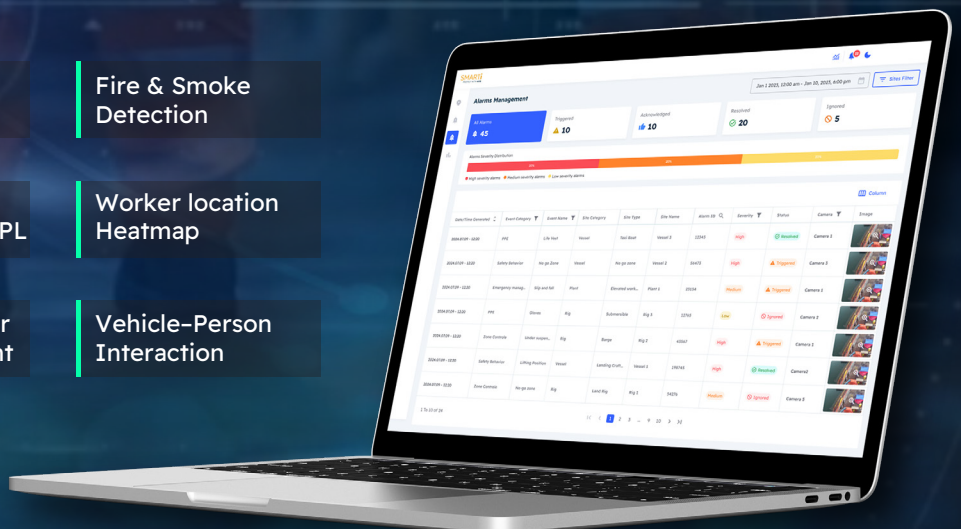
Worker location Heatmap

Harness Detection

Maximum Worker Count/Headcount

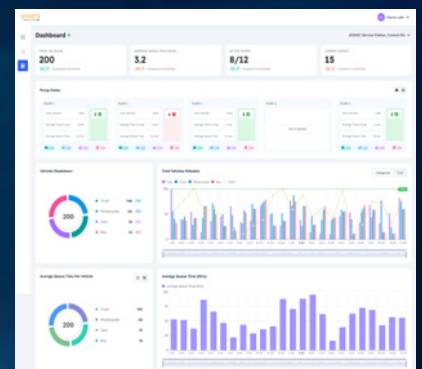
Vehicle-Person Interaction

Forklift near Pedestrian Zone



USE CASE: Retail and Gas Stations

SMARTi optimizes customer experience and operational efficiency in retail environments through intelligent monitoring and analytics. The system addresses customer service challenges, enhances security, and delivers actionable business insights that drive customer satisfaction and operational excellence in competitive retail markets.



- Customer Entries (Footfall Counting)
- Dwell Time in Store / Department
- PPE Usage during tanker refueling
- Queue Detection at Cash Till
- Customer-to-Staff Ratio
- License Plate Recognition (LPR)
- Shelf Stock Monitoring
- Vehicle Counting (Entries & Exits)
- Fuel Pump Utilization Monitoring

Command Center

Unified real-time safety and operational intelligence dashboard across all industry verticals including HSE, retail, fuel stations, and remote infrastructure.

Unified View

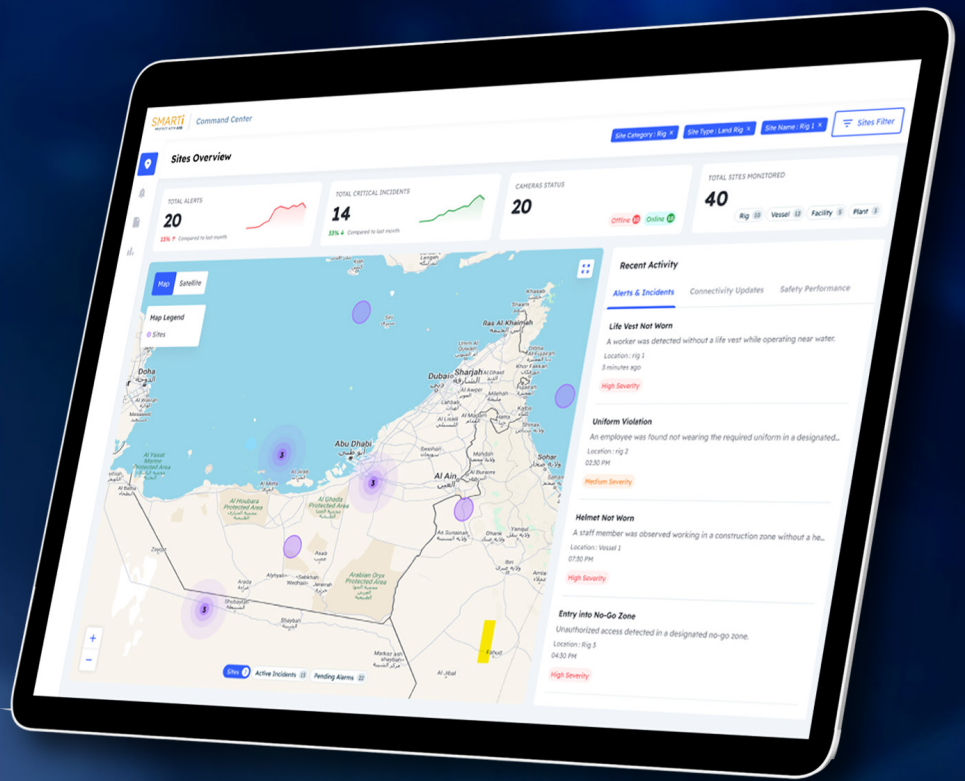
Single-pane dashboard aggregating all CCTV-based insights with instant access to alerts and incident details

Multi-Industry

Tailored solutions for HSE, retail, fuel stations, and remote infrastructure environments

92% Accuracy

Real-time monitoring with up to 92% accuracy, installed in just one day



SMARTi BENEFITS

Safety Enhancement

- Automated detection of PPE violations, unsafe behaviours, and near-miss events
- Up to 80% reduction in unreported safety incidents

Productivity Optimization

- Real-time tracking of workflows, crew efficiency, and idle time
- 15-25% improvement in workforce productivity

Operational Excellence

- Monitoring SOP compliance and detecting anomalies instantly
- 40% reduction in operational anomalies

Retail Intelligence

- Footfall, demography, queue management, and customer-to-staff ratio analysis
- 10-20% increase in retail conversion rate

Why choose SMARTi

Transforming Passive cameras into Proactive intelligence

Plug-and-Play

User can add custom objects, attributes, and properties for tailored dashboard creation without coding

Advanced AI Models

Pre-trained and customizable computer vision models optimized for your specific environment.

Smart Alarm Management

Intelligent alert prioritization and suppression to reduce noise and focus on critical events.

Scalable Architecture

Runs on Edge, Cloud, on premises, or Hybrid, based on deployment needs

Customized Dashboards

Customizable visual insights

Workflow-Driven Detection

Scenario-based pipelines allow multi-step logic for advanced, context-aware alerts

Centralized Command Center

One-click visibility and control across all global sites.

Unified Multi-Domain Platform

Safety, productivity, operational, and retail all in one.

Scalable Deployment

From single-location pilot to enterprise-wide rollout with expanding use cases.