



Variphi

Always Watching. Always Intelligent.

Powered by



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Clients Footprint

 India

 Middle East

Office Locations

 Bengaluru, India

 Noida, India

 Mumbai, India



AI-Enabled Smart Campus, Construction Sites & Commercial Workplaces



We are dedicated to transforming the physical world into a safer, smarter place by harnessing the power of vision AI.

 Vehicle Monitoring




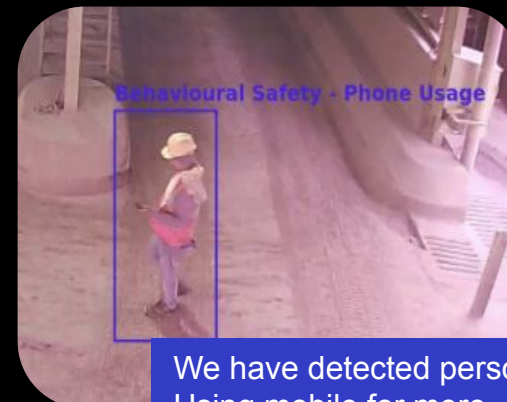
We have detected truck MHXXXXXX.

 PPE



Person going for work without gloves

 Phone Usage



We have detected person Using mobile for more than 5 mins at work.

 Theft



Suspicious behavior detected, likely indicating theft.

AI-Enabled Smart Construction Sites

Enable a new generation of intelligent campuses with **AI-powered vision analytics driven by Edge Computing**, designed to enhance **safety, operational efficiency, and quality of living** across the entire campus ecosystem.

By processing insights **in real time at the source**, the system enables faster responses, proactive incident prevention, and seamless day-to-day operations—while maintaining privacy and scalability.

Create campuses that **think, protect, and care** with AI-enabled camera systems that deliver intelligent insights, improved security, optimized operations, and a safer, smarter environment for residents, elders, staff, and visitors.



AI-enabled Surveillance System

AI Camera and Sensors System Built for Scale



Vision Generative Intelligence

On edge AI processing with accelerator

- 24x7 local storage
- Advanced analytics capabilities



Unified Dashboard

Mobile, intuitive interface

- Manage all locations from any device
- Real-time monitoring and control



Cameras

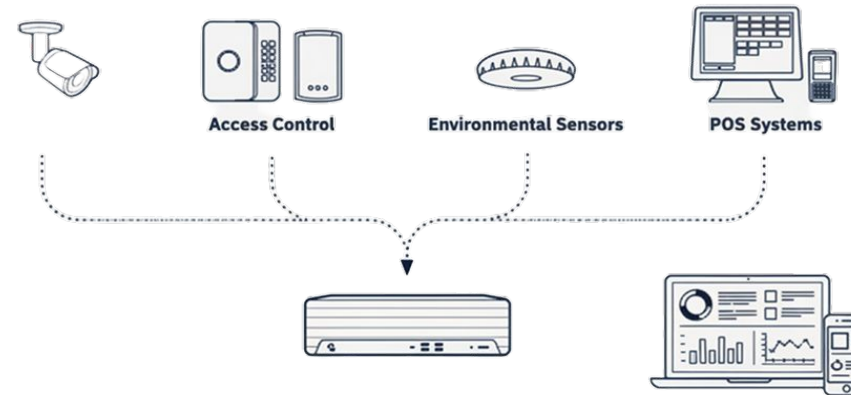
- High-resolution, NDAA-compliant
- Works with existing CCTV setups
- Flexible deployment options



Integrations

- Access control systems
- Sensors and IoT devices
- POS and enterprise systems

Working Principle



1

Edge Power Simplified

- Auto-connect to any IP camera
- 24/7 local recording
- AI processing on high-res video

2

Cloud Integration

- Effortless scaling across locations, users, and cameras
- Unlimited cloud backup for saved clips
- Automatic software updates

3

Secure Access Anywhere

- Real-time alerts
- SMS/Whatsapp Integration
- Complete video and network monitoring

Advanced Use Cases

Three high-impact AI applications you can pilot in the next 90 days

01



Drones & 360° Cameras

Automated progress tracking against BIM and schedule.

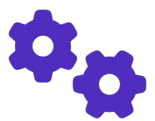
02



Fleet Optimization

Cut idle time and right-size your equipment mix.

03



Asset Monitoring

Real-time health for gensets, machines, and gear.



Asset Monitoring: Gensets, Machines & Gear

Always-on health: Asset Monitoring

IoT sensors + AI analytics across the gear that runs your site



Gensets

Fuel level, runtime, load %, voltage anomalies.



Heavy Machines

Engine hours, hydraulic pressure, vibration signatures.



Tower Cranes

Load cycles, wind exposure, brake wear.



Tools & Gear

BLE-tagged location, last service, ownership chain.



Safety Alerts

Geofence breaches, after-hours movement, theft signals.



Predictive Service

ML-flagged components likely to fail this month.

30%

less unplanned downtime

20%

lower fuel spend on gensets

\$10B+

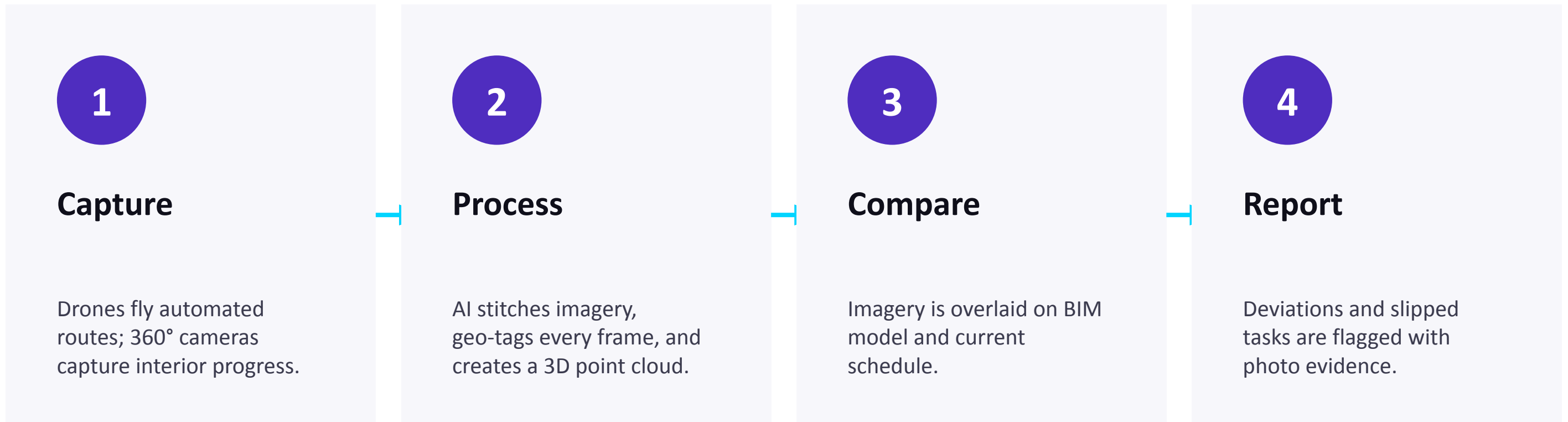
annual global theft you can prevent

Progress Tracking via Drones & 360° Cameras



From flight path to actionable variance reports

Drones and 360° cameras feed AI that compares site reality against the plan.



Replaces manual walk-throughs · Gives owners objective progress data · Catches drift before it cascades

Fleet & Equipment Optimization



Idle iron is invisible cost

AI turns telematics noise into rebalancing decisions

WITHOUT AI

Status quo

- 30-50% of equipment hours are idle but invoiced
- Rentals stay on site weeks past their useful date
- Fuel theft and pilferage go unnoticed
- Maintenance is reactive — failures stop work

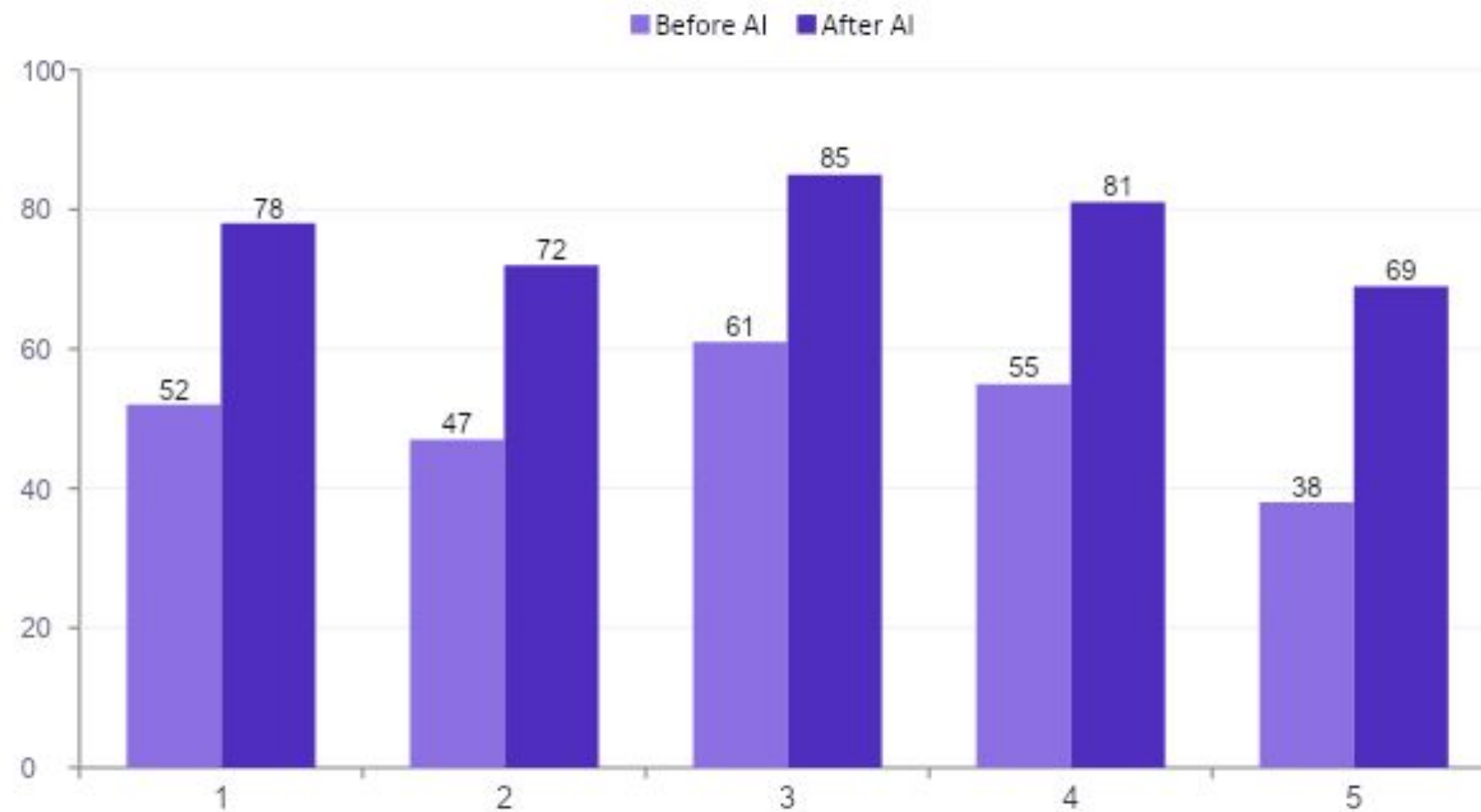
WITH AI

AI-optimized fleet

- ✓ Daily utilization scoring per machine
- ✓ Auto-flags rentals to demobilize or share
- ✓ Geofence and fuel-burn anomaly alerts
- ✓ Predictive service before breakdown

Utilization that pays for itself

Sample fleet — utilization % before vs after AI rebalancing



WHAT THIS MEANS

10-20%

equipment cost reduction across the active fleet

14 hrs

avg. recovered per project per week from idle reduction

Foundational Use Cases for Smart Operations

Project Sites Safety Monitoring Systems

Transform your existing CCTV infrastructure into an intelligent safety monitoring system that operates round the clock. Our AI-powered vision intelligence identifies safety hazards in real time, enabling proactive intervention before incidents occur.

Critical Safety Use Cases

- PPE compliance monitoring (helmets, vests, gloves, safety footwear)
- Restricted-zone intrusion detection
- Forklift–pedestrian proximity alerts
- Slip, fall and unsafe posture detection



Security and surveillance

Comprehensive security solutions powered by advanced AI vision analytics to protect your campus and workplace.

- Unauthorized entry & intrusion detection
- Weapon & threat detection
- Facial & gesture detection
- Asset & perimeter monitoring
- Drone-based large-area surveillance

Our intelligent surveillance systems provide 24/7 protection with real-time threat identification and automated response protocols.

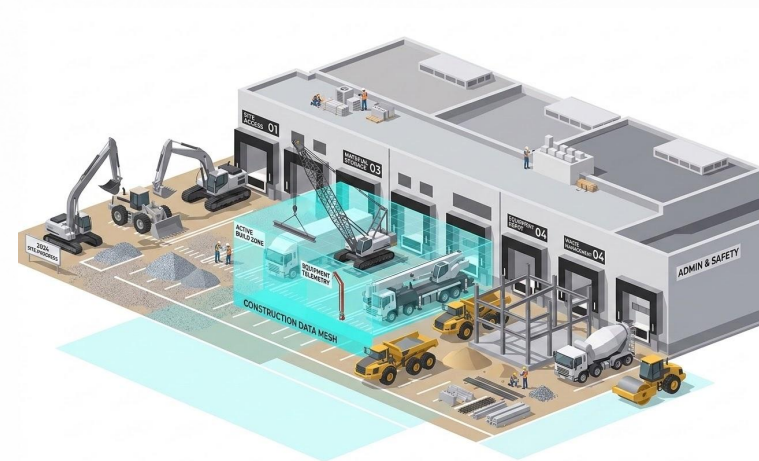


Dock Operations & Queue Management



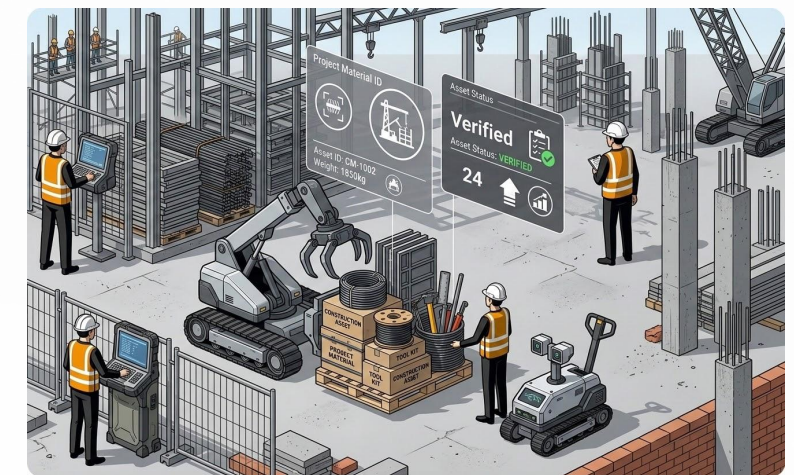
1. Bay Door Utilization

Real-time tracking of dock occupancy duration and turnover rates, identifying underutilised assets and scheduling optimisation opportunities



2. Queue & Congestion Analytics

AI-powered detection of truck queues and yard congestion with predictive alerts for potential bottlenecks



3. Material Estimation

Automated material estimation during unloading processes, reducing discrepancies and accelerating receiving workflows

Traffic & Parking Control

Smart solutions for campus and office parking management that reduce congestion and enhance safety.

Wrong Parking Detection

Automated identification of parking violations and unauthorized vehicle placement

Over speeding

Detect the speed of Vehicle to control any kind of incidents

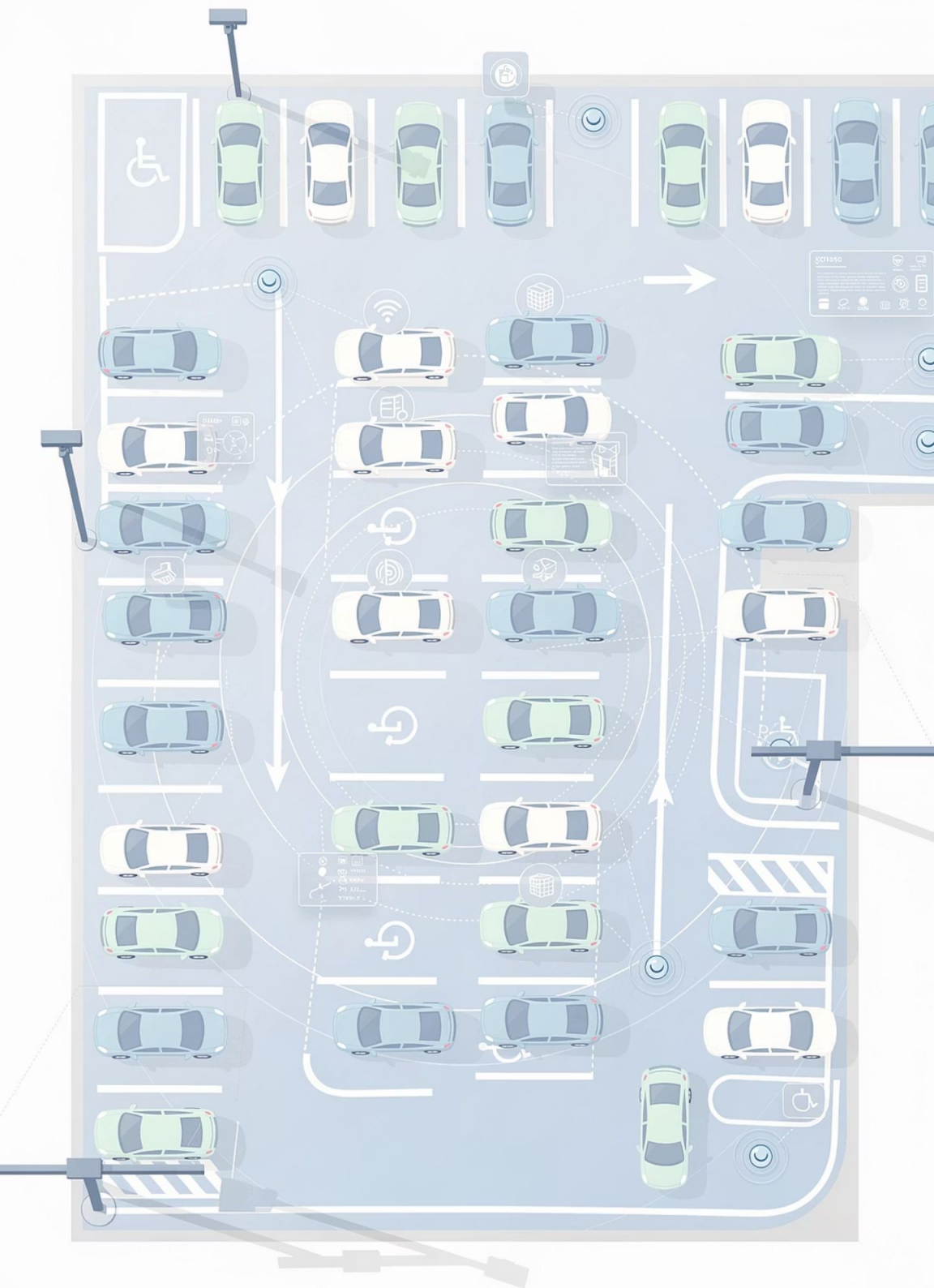
Wrong Lane

Wrong lane potential collision alerts,

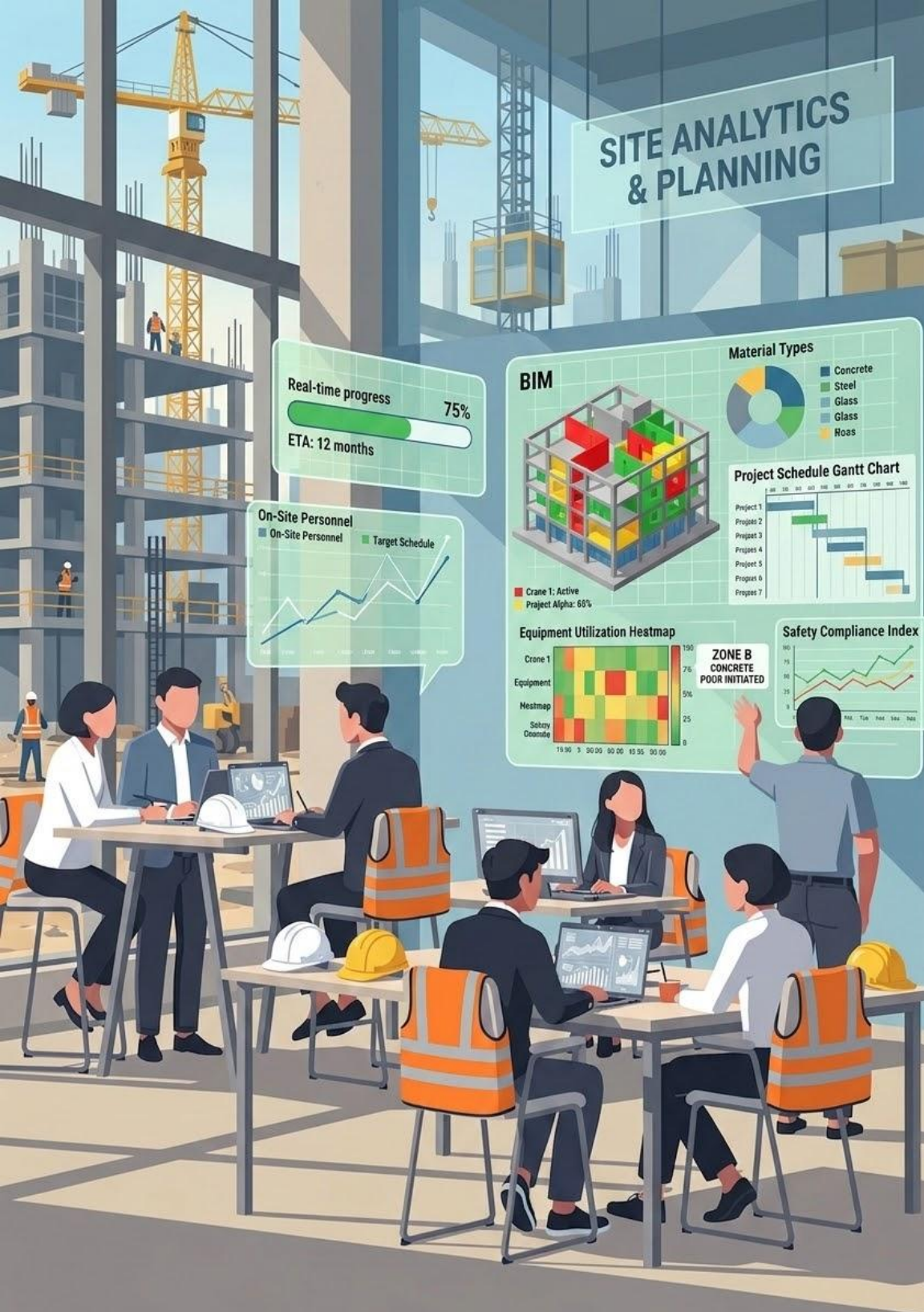
Parking Occupancy

Occupancy Alerts

Reduced congestion and safety hazards through intelligent traffic management and real-time monitoring.



Workplace Analytics for Commercial Offices



Idle Time Analysis

Track equipment and workspace utilization to optimize productivity and identify improvement opportunities

Workforce Insights

Headcount tracking and occupancy trends for better space planning and resource allocation

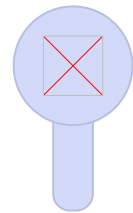
Space Utilization

Machine and workspace utilization metrics to maximize efficiency and reduce operational costs

Privacy-Preserving

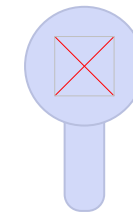
Productivity and efficiency metrics collected with complete respect for employee privacy

Asset Inspection & Integrity Management



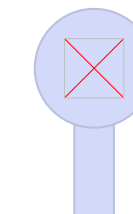
Dynamic QR

Tagging with dynamic QR codes for instant identification and tracking



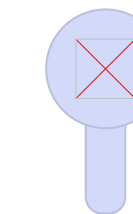
Mobile Scanning

AI-powered mobile scanning and inspection capabilities for field teams



Preventive

Maintenance for predictive and breakdown maintenance with automated alerts



Lifecycle Visibility

Complete asset lifecycle tracking from acquisition to retirement

Asset & Theft Prevention

Leverage computer vision to create an intelligent security perimeter that goes beyond traditional surveillance. Our AI system recognises suspicious behaviour patterns and delivers instant alerts, significantly reducing asset loss and unauthorised access incidents.

1. Unauthorized Access Detection

AI-powered recognition of non-authorized personnel in restricted warehouse areas with instant alerting

2. Loitering & Tailgating Prevention

Behavioural analytics identify suspicious loitering patterns and tailgating attempts at entry points



Real-Time Dashboard Insights and Proactive Engagement with AI systems.



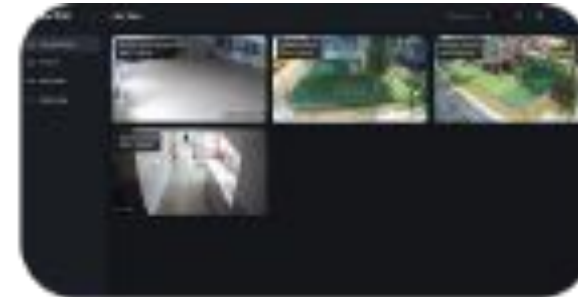
Automate the Surveillance

Leverage intelligent dashboards, reporting, and instant alerts to respond quickly and anticipate what's next.



Video Agent - Talk to your Camera

Streamline workflows faster with VGI agent, the intelligent assistant for cameras that evolves with every use



Advanced Video Search

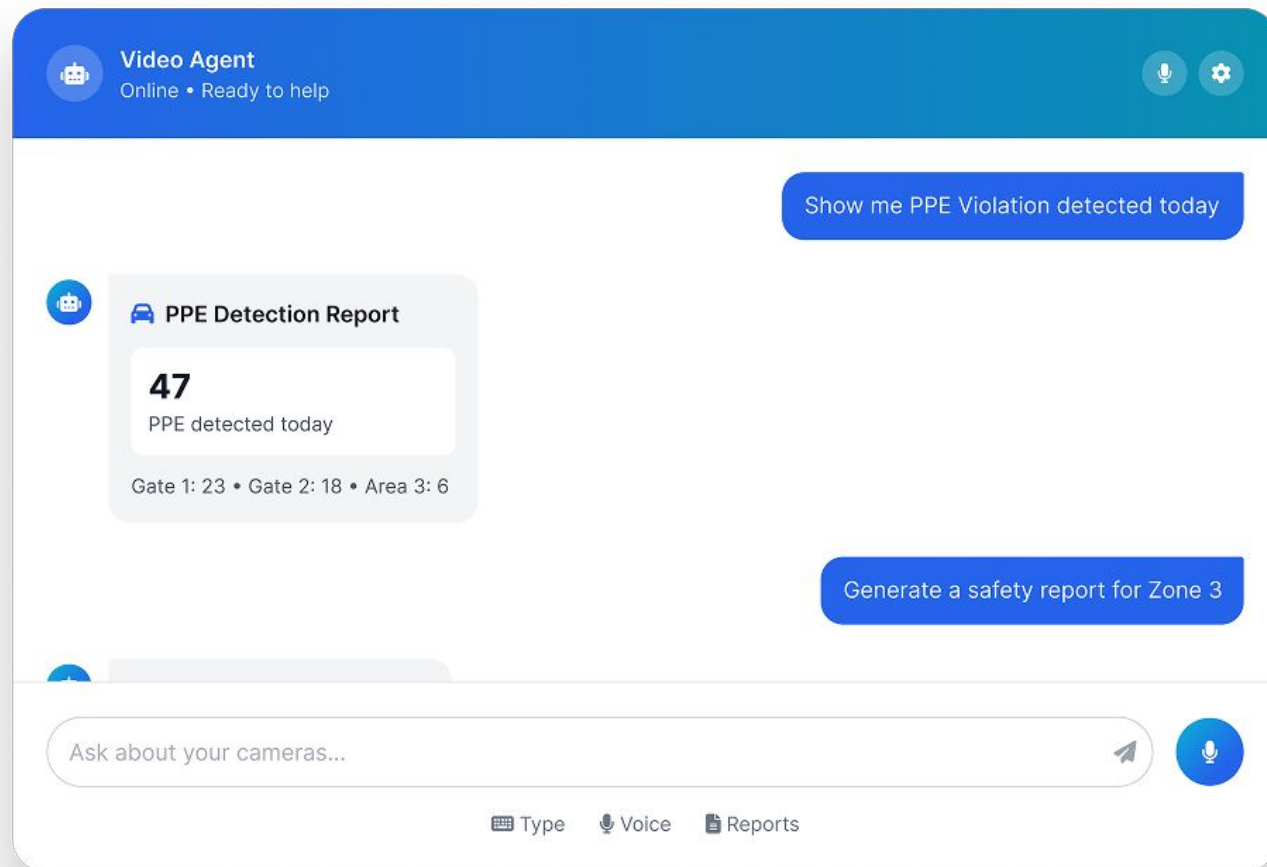
Save time with AI-powered search across people, vehicles, faces, and license plates.



Control - Manage Incidents, Take Action

Stay in control — manage incidents seamlessly and take swift action. Respond decisively with the right tools.

Digital employees for what truly matters.



60% Reduction in injuries

99% Up Time

11X ROI

90% Less Manual Monitoring and Spends



Overview

Modern analytics dashboard



Primary Filters

Global filters applied to all dashboard sections

Auto Refresh

30s



From Date

23/01/2025, 02:58 AM



To Date

23/07/2025, 02:58 AM



Cameras

camera_0100



1 selected

Locations

Aqua 1



1 selected

Quick Select Time Range

1 Week

1 Month

3 Months

6 Months

1 Year

2 Years

1 camera selected

1 location selected

Auto-refresh: 30s



1

Maintenance Schedule start

1

Maintenance Schedule stop

1

Person Detected

1

Person on Boat



🔍 Search camera, location, category, and more...

📅 Select date range

📏 All ▾



DATE & TIME	EVENT CATEGORY	STATUS	CAMERA NAME	LOCATION	IMAGE / VIDEO	REMARKS
Jul 21, 2025 12:24 AM	Incident Triggered - Maintenance Schedule stop	UNRESOLVED ▾	camera_0100	Aqua 1	Image	No comments yet Add a comment...
Jul 21, 2025 12:21 AM	Incident Triggered - Maintenance Schedule start	UNRESOLVED ▾	camera_0100	Aqua 1	Image	No comments yet Add a comment...
Jul 20, 2025 10:51 PM	Incident Triggered - Person Detected	UNRESOLVED ▾	camera_0100	Aqua 1	Image	No comments yet Add a comment...
Jul 20, 2025 10:45 PM	Incident Triggered - Person on Boat	UNRESOLVED ▾	camera_0100	Aqua 1	Image	No comments yet Add a comment...



Create New User

Add a new user account with access permissions

← Back to Settings

Basic Information

Full Name*

Enter full name

Contact Number*

Enter contact number

Department*

Enter department

Access & Permissions

Camera Access

Select cameras for access

Email Address*

Enter email address

Designation*

Enter designation

WHATSAPP_NOTIFICATION

DAILY_REPORT

NONE

Select notification type

Proactive AI Analysis: Detect unstaffed zones, potential safety hazards, and other critical incidents in real-time, enabling swift issue resolution and minimizing operational bottlenecks.

Automated Metrics Analysis: Continuously track and compare key metrics across multiple locations, offering valuable insights to optimize operations and guide strategic decision-making.

Notifications: Get Alerts via WhatsApp, email, SMS and VariPhi App for real-time monitoring.

Send Invite



Discover why locations, from local enterprises to Fortune 500 companies, trust VariPhi Gen Innovation (VGI) for advanced AI technologies



VariPhi Gen Innovation 2025 leverages advanced AI camera technology to deliver cutting-edge vision intelligence solutions across diverse industries.

From enhancing security to optimizing operations, these AI-driven services empower businesses with real-time insights and smarter decision-making.

Get in Touch

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<https://www.variphi.com>

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