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# Industrial Safety & Security Solution

*Powered by DeeperLook™*
*AI & DL Framework*

# Challenges

- Safety Compliances
  - HSE
  - OSH
- Pandemic Outbreak Management
- High Threats – Natural and Man-made
- People Management
- Large Area Surveillance
- Operational Efficiency
- Disaster Management
- External Agency Coordination

# Areas of Concern

- Process Areas & Shop Floors
- Warehouse & Utility Areas
- Perimeter & Gates
- Office Blocks
- Common Areas
- Residential Areas
- Central Control Room

# Industrial Safety & Security Solution
*Powered by DeeperLook™ AI & DL Framework*

# Industrial Safety & Security Solution: User Benefits



Securing Workplace | Securing Workforce

Optimizing Productivity

- Detect anomalies in real time - accurately, proactively, cost-effectively.
- Help to meet industry compliance regulations as they evolve.
- Proactively monitor safety compliances, followed by workforce.
- Secure unmanned/less manned areas from distance. and verify threats in real-time.
- Anticipate and pre-empt compensation liability risk.
- Improved situational awareness for smarter decisions.
- Pinpoint accountability in case of safety lapses.
- Investigate safety and security incidents.
- Seamless integration with other systems.
- Export digital evidence as and when required.
- Reduce theft, improve quality control and run operations smoothly and productively.

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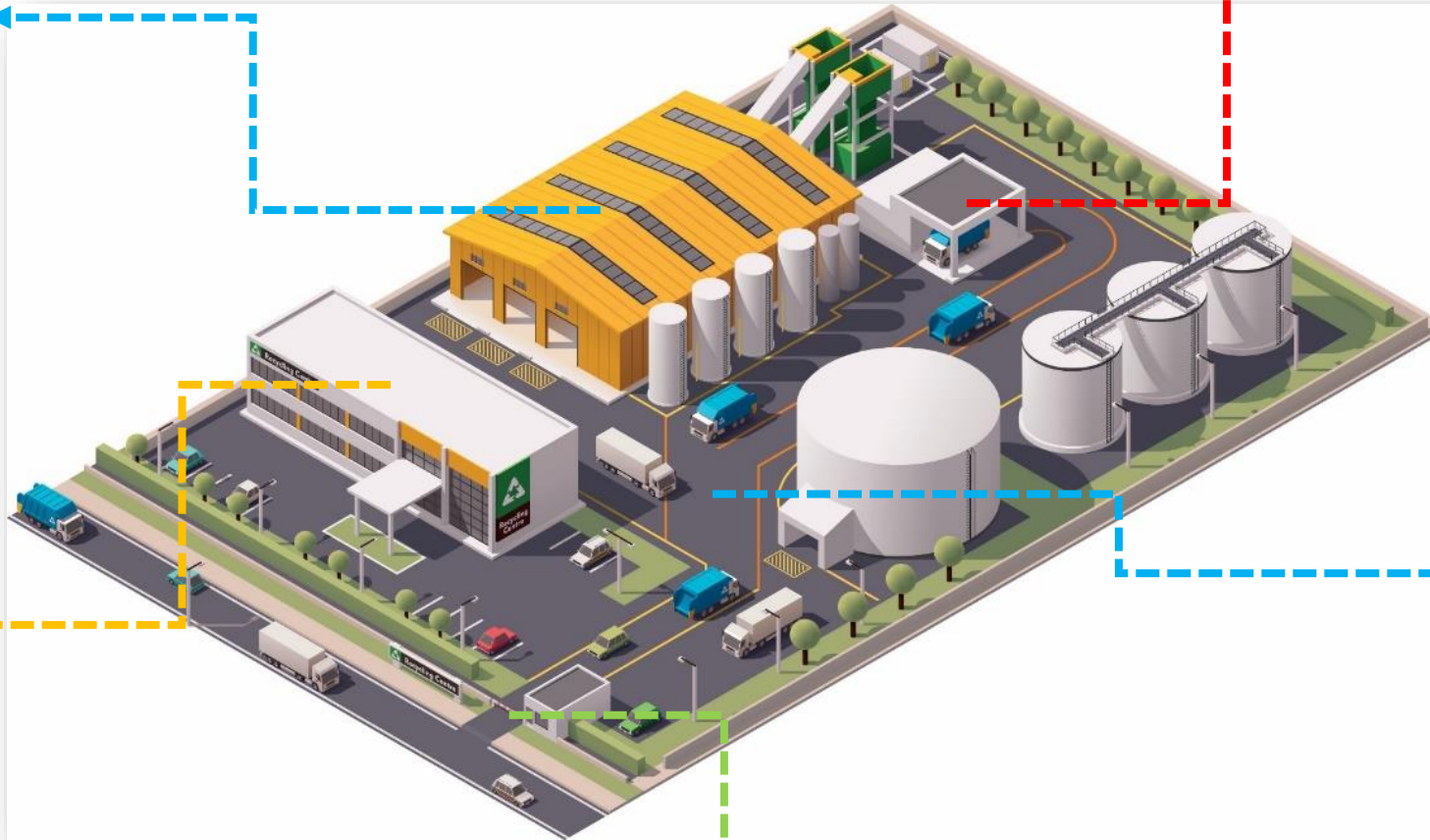
# Overview: Typical Processing Plant



Process Areas & Shop Floors

Warehouse & Utility Areas

Office Buildings

Roads & Common Areas

Perimeter & Gates

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# Key Applications: Process Areas & Shop Floors

- Personal Protection Equipment Detection (Safety Helmet/Safety Jacket/Vest)
- Fire & Smoke Detection
- Person Slip/Fall/Collapsed Detection
- Worker Behavior Monitoring
- Person Occupancy/Presence Heatmap
- Shop Floor Cleanliness/Obstruction Detection
- Emergency Exit Blocked Detection
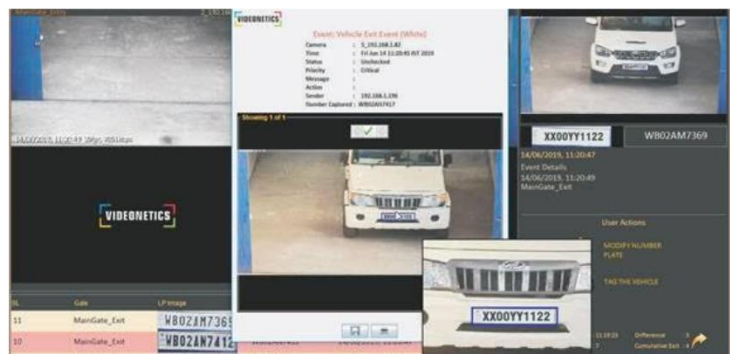- Wrong Movement of Forklifts/Other Vehicles

Process Areas & Shop Floors

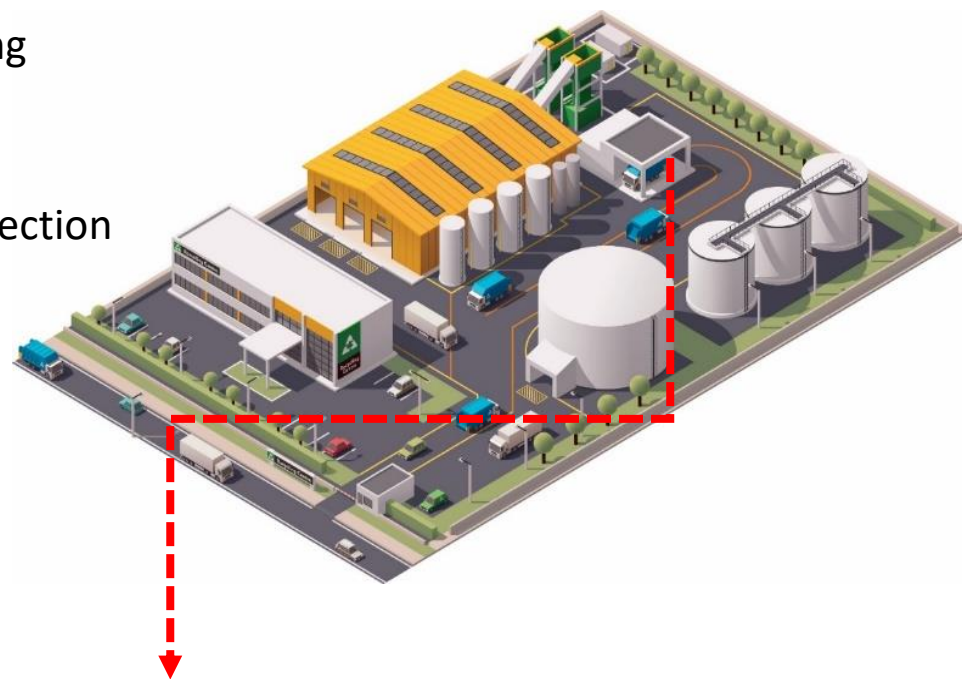VIDEONETICS
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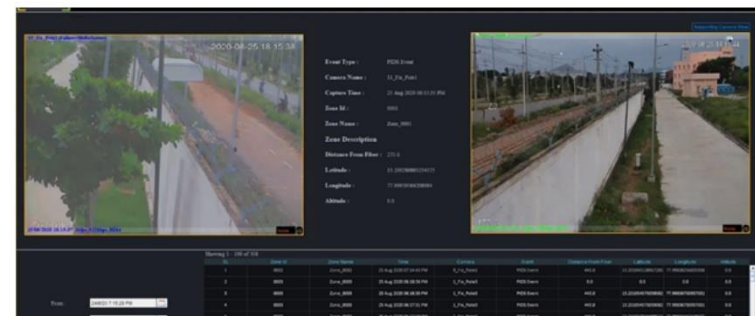# Key Applications: Warehouse & Utility Areas



- Unauthorized Entry/Intrusion Detection
- Vehicular Entry/Exit Monitoring
- Fire & Smoke Detection
- Person Loitering Detection
- Person Slip/Fall/Collapsed Detection
- Theft & Pilferage Detection



**Warehouse & Utility Areas**

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# Key Applications: Perimeter & Gates



- Perimeter Intrusion Detection
- VMS & PIDS Integration
- Vehicle Entry & Exit Monitoring
- Facial Recognition – Blacklist/Whitelist
- Crowd Formation Detection
- Tailgating Detection
- Traffic Congestion Detection
- No Parking Detection



Perimeter & Gates

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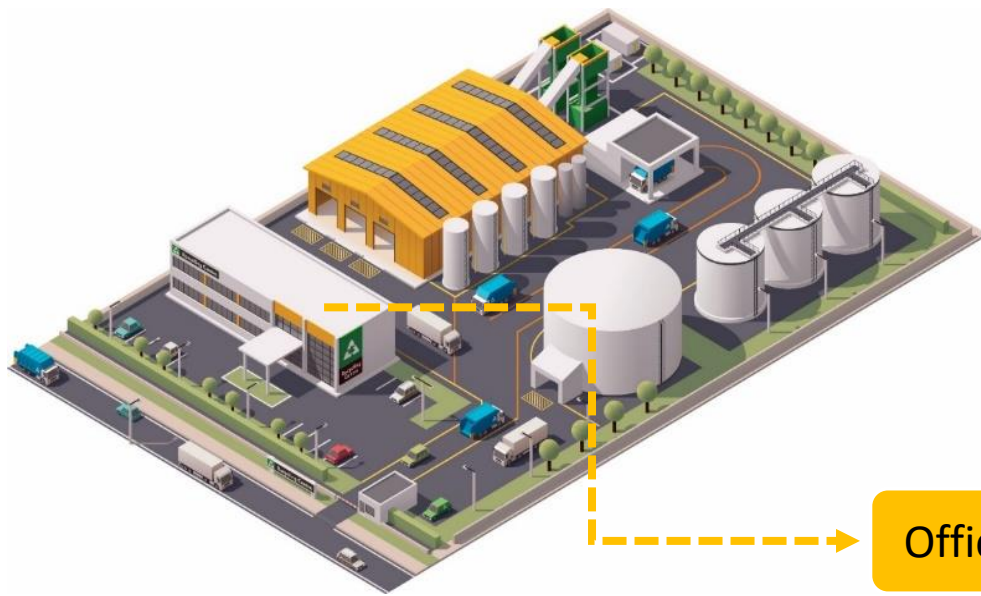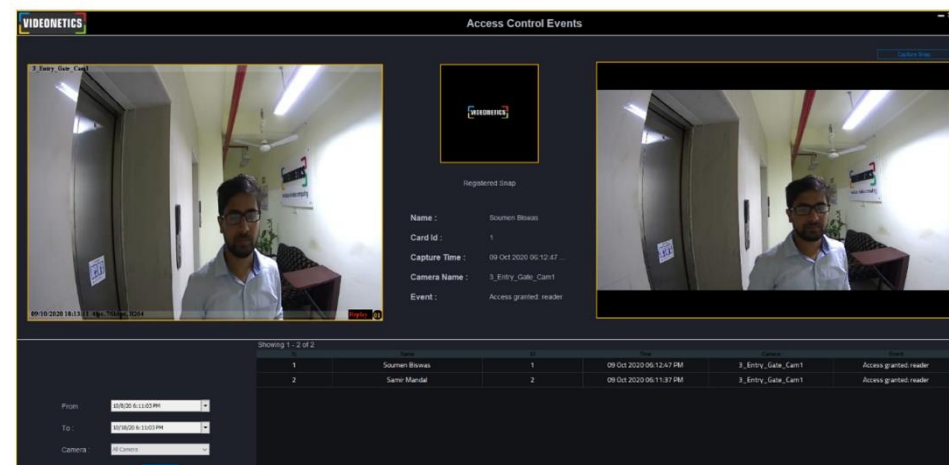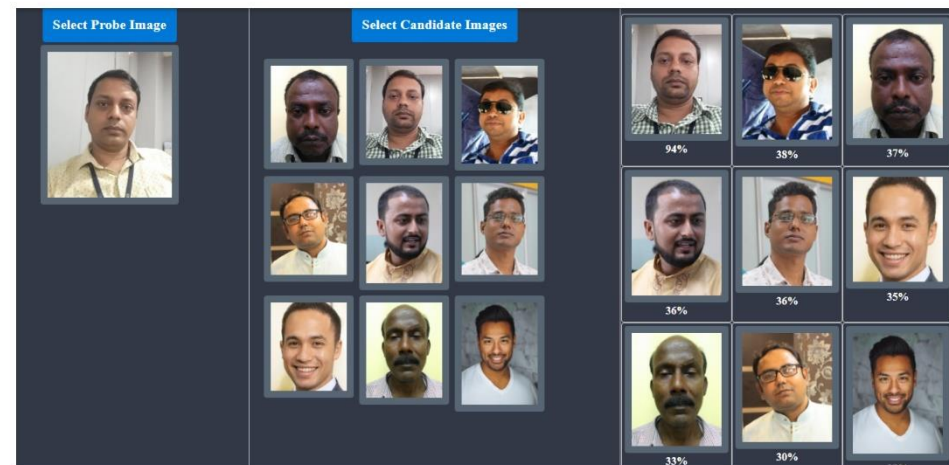
# Key Applications: Office Buildings

- Facial Recognition – Blacklist/Whitelist
- VMS & Access Control Integration
- VMS & Fire Alarm System Integration
- Emergency Exit Blocked Detection



Office Buildings

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# Key Applications: Roads & Common Areas



- Vehicular Movement Management
  - Over Speed Detection; Traffic Congestion Detection
  - Not Wearing Helmet Detection; No Seat Belt Detection; Driver Using Phone Detection
  - No Parking Detection/Wrong Way Movement Detection; Heatmap of Vehicular Movements
- Crowd Formation Detection
- Graffiti & Vandalism Detection
- Garbage & Debris Detection

Roads & Common Areas
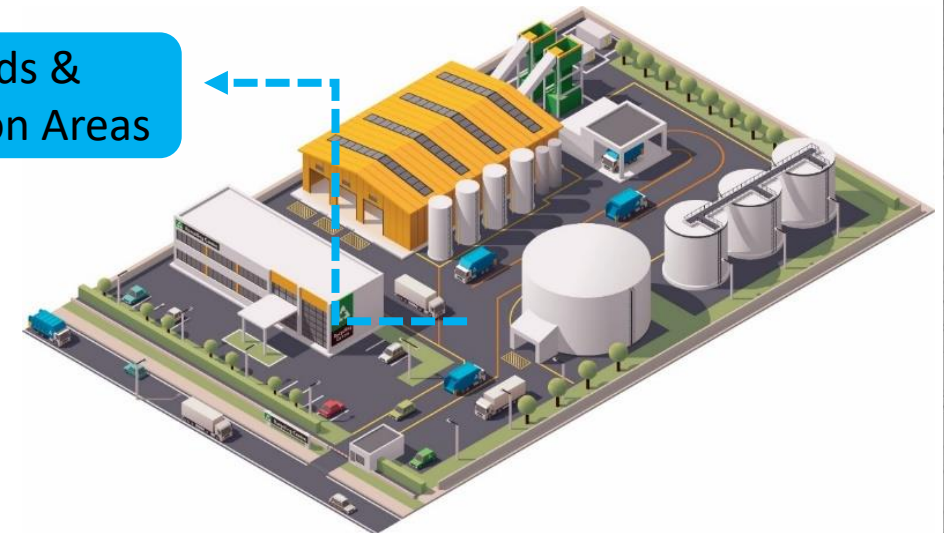
# Pandemic Management Analytics
*for workforce & workplace*

# Pandemic Management Analytics



- Social Distancing Monitoring
- Mask/ No-Mask Detection
- Personal Protection Equipment Detection (Head Cover, Mask, Uniform Detection)
- Queue Management
- Detection of Anomaly in Body Temperature
- Detection of Crowd Formation in Violation of Social Distancing Norms
- Safety Heatmap Generation
- Pandemic Violation Dashboard

## ACHIEVE ZERO SAFETY HAZARD GOAL

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# Command and Control Center



- Unified View of All Sub Systems

- Integrations with PA System, ACS, FAS, ERP, SCADA, TAS etc

- Forensic & Investigation Tools

- External Integrations/Communications with Law Enforcement Agencies, Emergency Services

- Digital Evidence Management

**GAIN END-TO-END CONTROL OVER YOUR INFRASTRUCTURE AND WORKFORCE FROM THE UNIFIED INTERFACE**

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# Application Areas



**Food Processing Plant**



**Oil & Gas**



**Refineries/Heavy Industries**



**Warehouse**



**Cement and Chemicals**



**Automobiles**

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# Success Stories

# MEGHNA GROUP OF INDUSTRIES

Bangladesh's largest conglomerate

- 24x7 monitoring of 500+ locations
- Customised ANPR to read Bangla license plates at entry/ exit gates
- A bird's eye view of various sites from centralised Command Control Centre
- Powered by Red Hat® Enterprise Linux® for extra layer of security

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**Commercial**

# ONE OF THE LARGEST CORPORATE IT PARKS

- ANPR-based Vehicle Entry/ Exit Monitoring Software (VEEM)
- Predefined parking areas, to prevent congestion at the gates
- 24x7 monitoring of the gates to secure the premises
- Precision in reporting for any investigation

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# LARGEST STEEL-MAKING COMPANY OF INDIA



- Round-the-clock real-time monitoring of vehicles movements, even in harsh environment conditions.

- Seamless ANPR based VEEM integration with weighbridge

- Highly accurate in capturing vehicle details like license plate, type along with timestamp, and mentioned on their ticket/challan.

- No manual error, reduce waiting time and maintain traffic flow.

- Support personnel in keeping track of loaded and unloaded vehicles

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# BIGGEST COKING COAL MINES OF INDIA

- Keeping a watchful eye with 140+ cameras at various Coal Warehouses
- Minimize cost of physical patrols by creating situational awareness
- Mitigate the risk of theft, by protecting assets/inventory
- Prevent potential internal explosions from any unknown igniting source
- Gathering the video data at command control center to understand the pattern for smarter decisions (inventory as well as workers)

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# EMBASSY GOLFLINKS
## Largest IT park of Bengaluru

- 100+ IP cameras with VMS and Video Analytics licenses

- Security Operators empowered to manage day-to-day challenges – Restricted parking or no parking detection, loitering detection, detection of unattended object, crowd formation detection.

- Command Control Center for real-time notifications of people movement, activities and vehicle flows.

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For more information

VIDEONETICS TECHNOLOGY PRIVATE LIMITED

Write to us: marcom@videonetics.com

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