



# Assert AI

**Unlocking Operational Efficiencies**

*using*

**Vision AI and Machine Learning**

CP

INVENTORY

PACKAGING

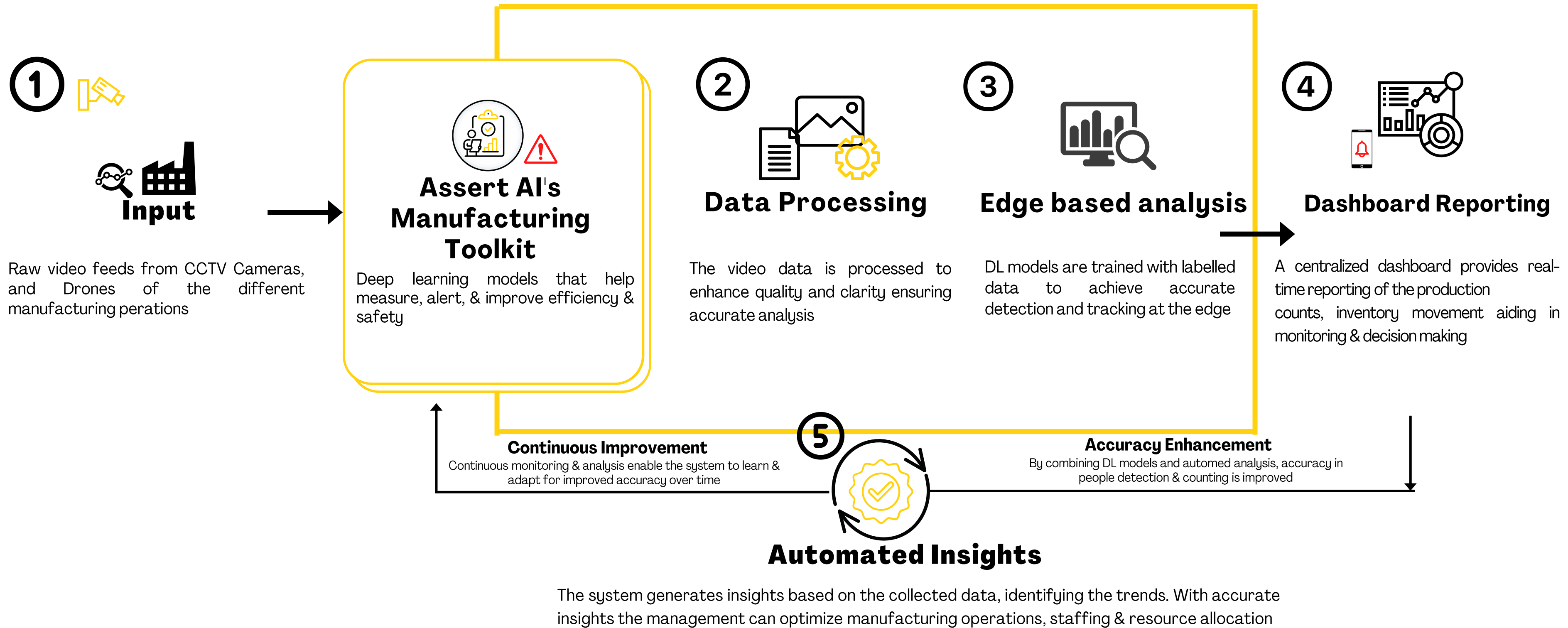
BLENDING

FILLING

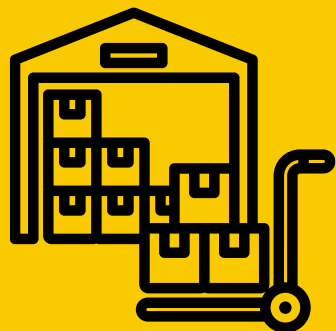
LABELING

# WHAT WE DO

## Intelligent Video Analytics through Deep Learning



# WE HELP CLIENTS ACROSS INDUSTRIES ACHIEVE EFFICIENCY



Warehousing



Manufacturing



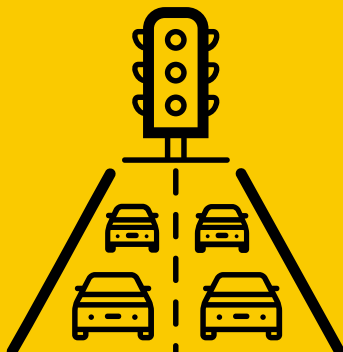
Healthcare



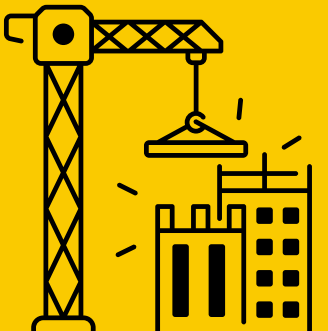
Retail



Logistics



Traffic & Parking



Construction



Hospitality

## Production Count

Track production and inventory accurately, reduce labor, minimize errors, streamline operations



COUNT = 4

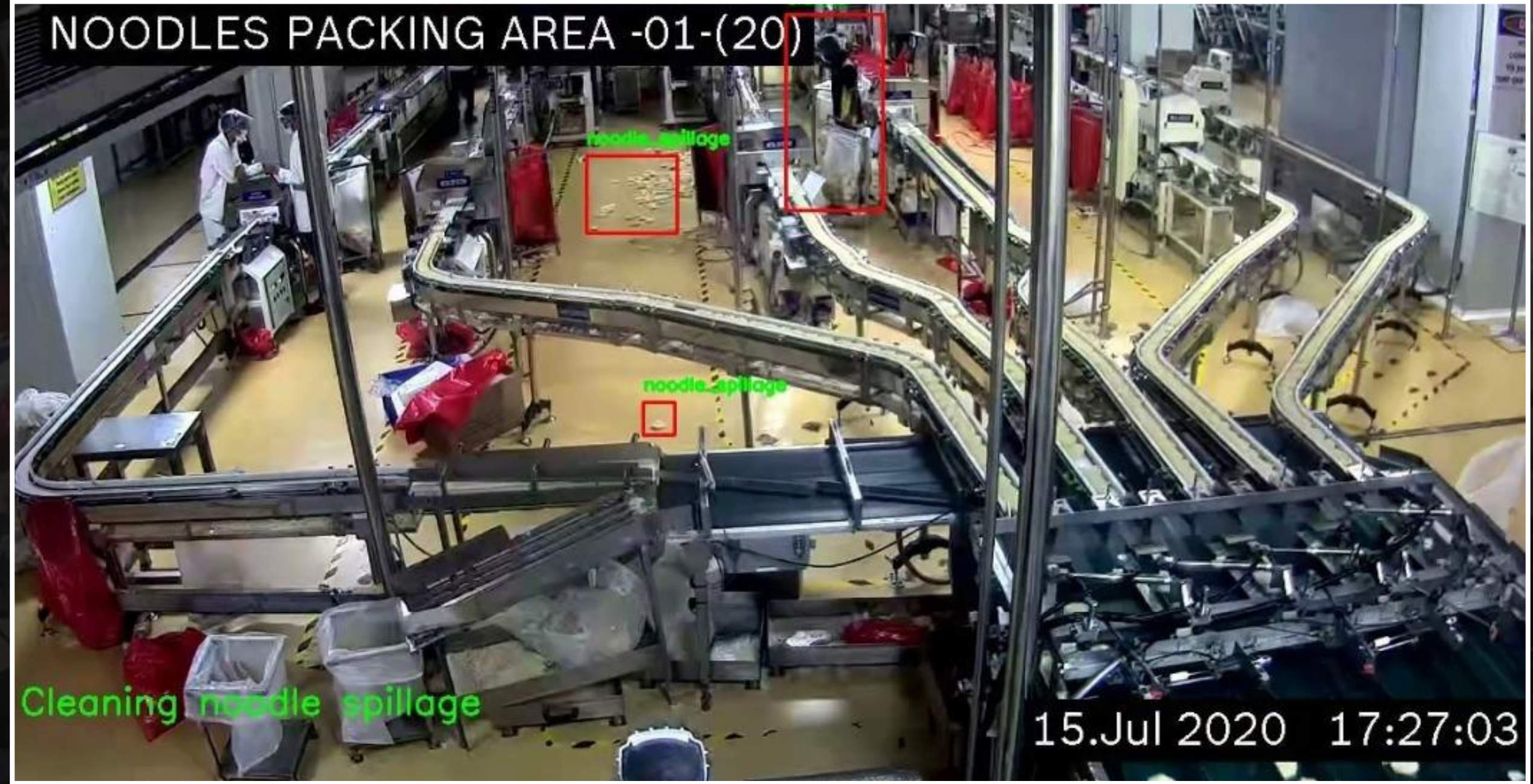
## Missing Label Detection

Enhance accuracy in detecting labeling errors, ensuring compliance and reducing safety recalls and consumer misinformation risks



### Spillage detection

Quickly spot and deal with spills, cutting waste and contamination. AI ensures top hygiene, quality and productivity



Cleaning noodle spillage

15.Jul 2020 17:27:03

# Periphery Monitoring

Camera\_02 Time: 3.40pm

Restricted Points: 7

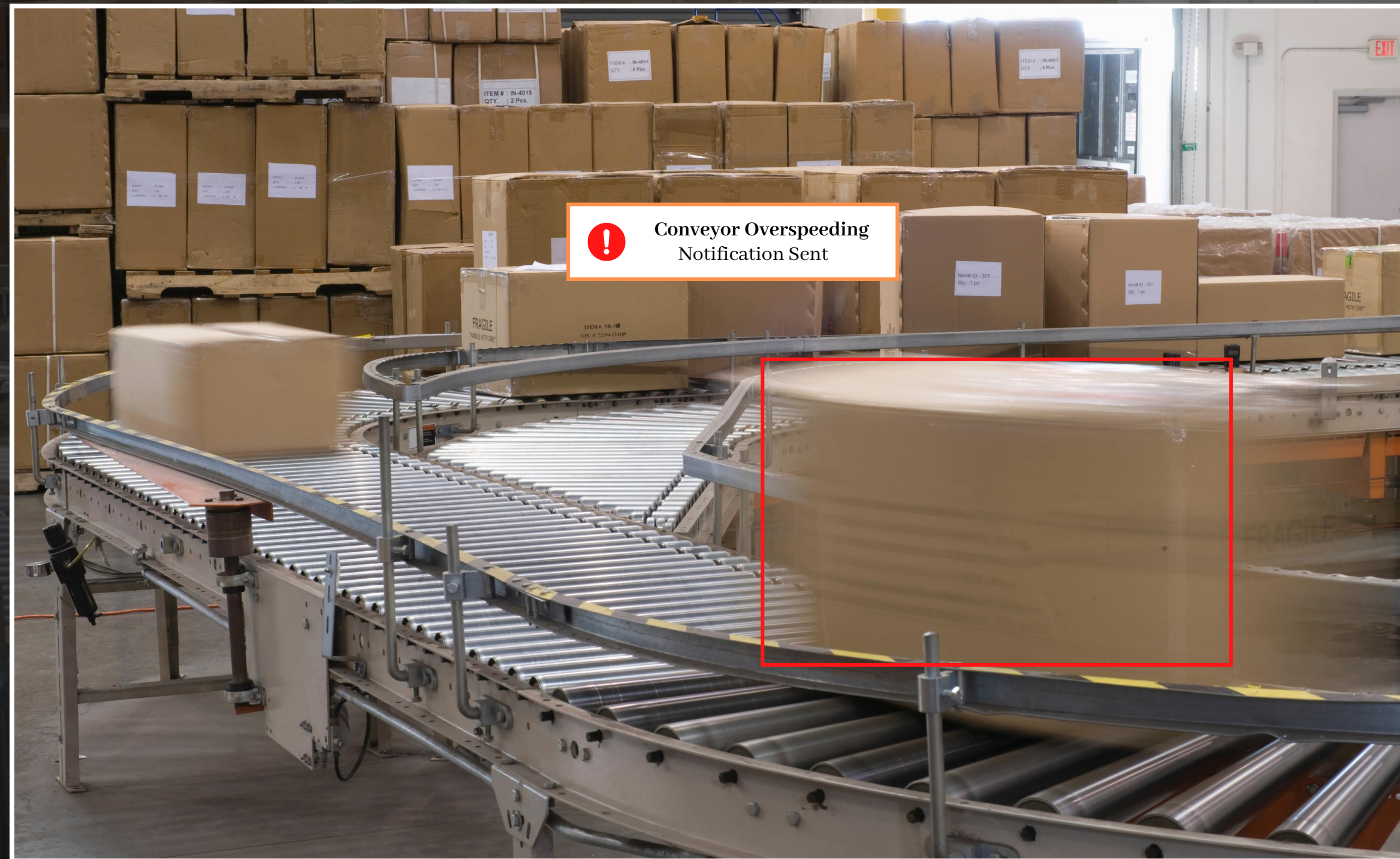
Curved lines: 4

Detect and Analyze surrounding activities like anomalies, and intrusion for enhanced situational awareness and safety



# Conveyor Speed Optimization

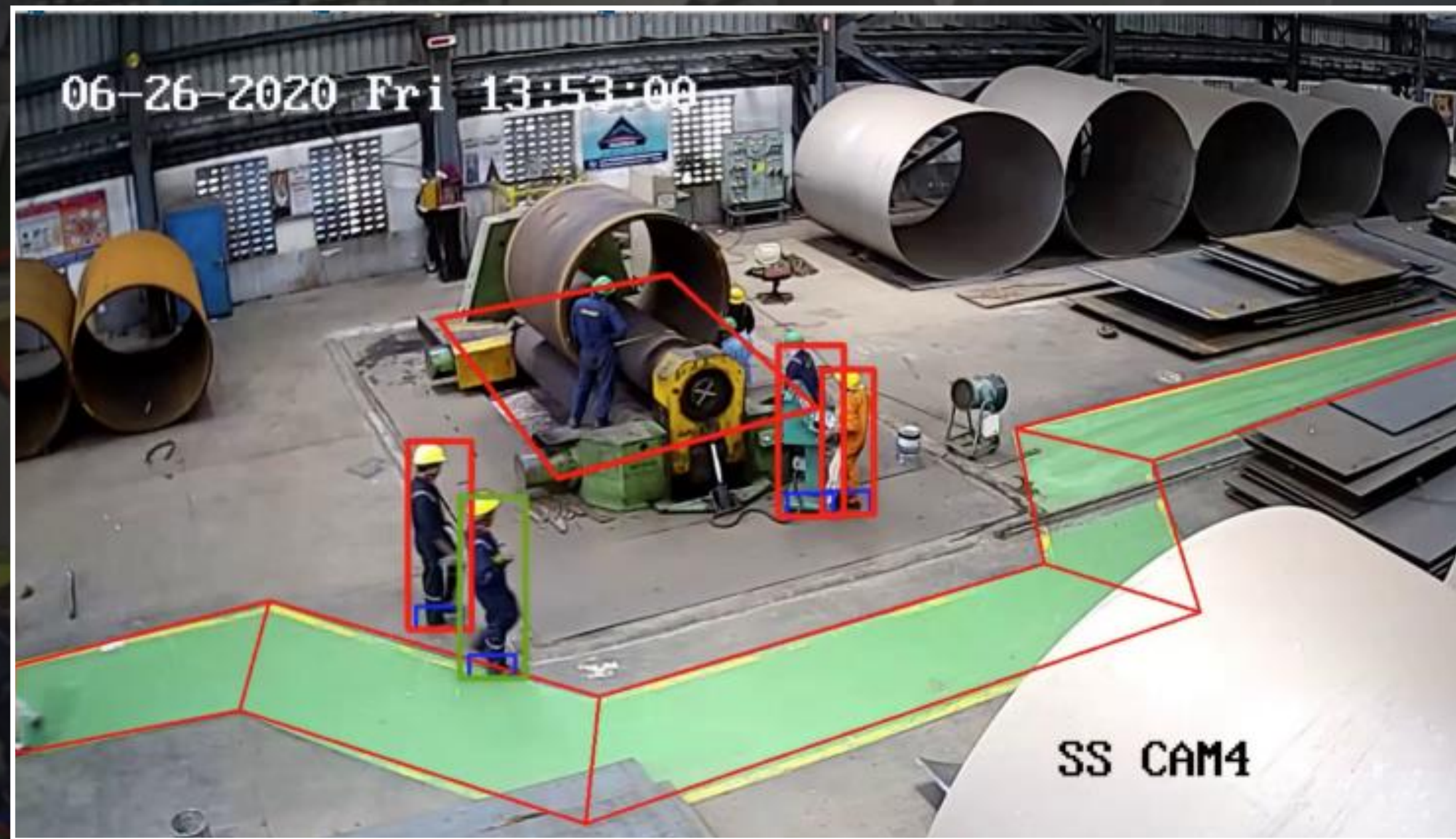
Adjust conveyor speed in real-time to maximize productivity and enhance safety



06-26-2020 Fri 13:53:00

## Safety Zone Enforcement

Monitor and enforce designated areas, ensuring compliance with safety protocols and regulations



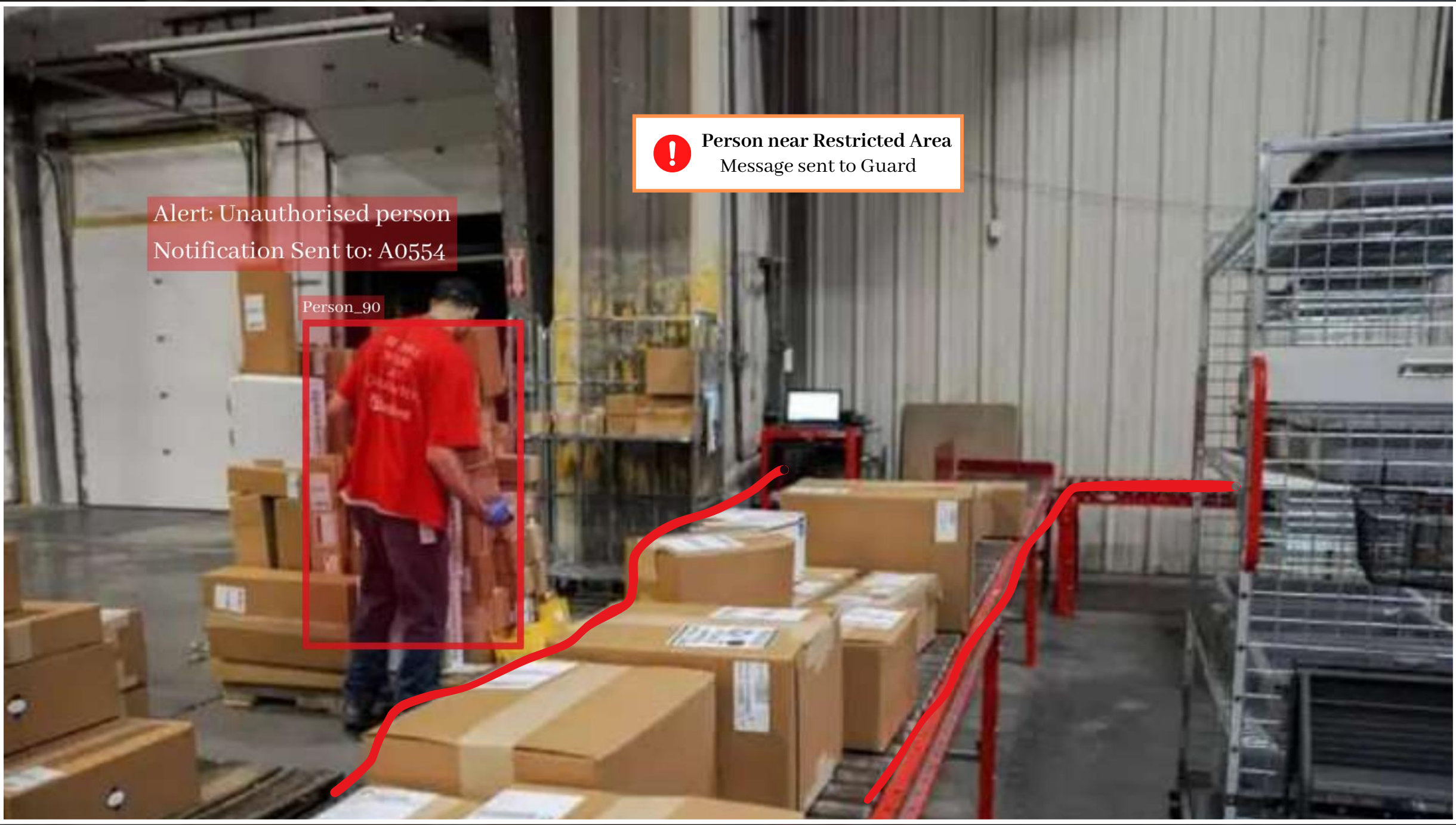
SS CAM4

# Unauthorised Access in Critical Areas

Identify intrusions and people near or entering restricted or critical areas, enhancing security measures



Alert: Unauthorised person  
Notification Sent to: A0554



Alert: Unauthorised person  
Notification Sent to: A0554

Person\_90

! Person near Restricted Area  
Message sent to Guard

## Real-Time PPE Detection

Ensure workplace safety by monitoring essential gears like toques, hairnets, gloves, and face masks to maintain quality standards seamlessly



# Fire/Smoke Detection

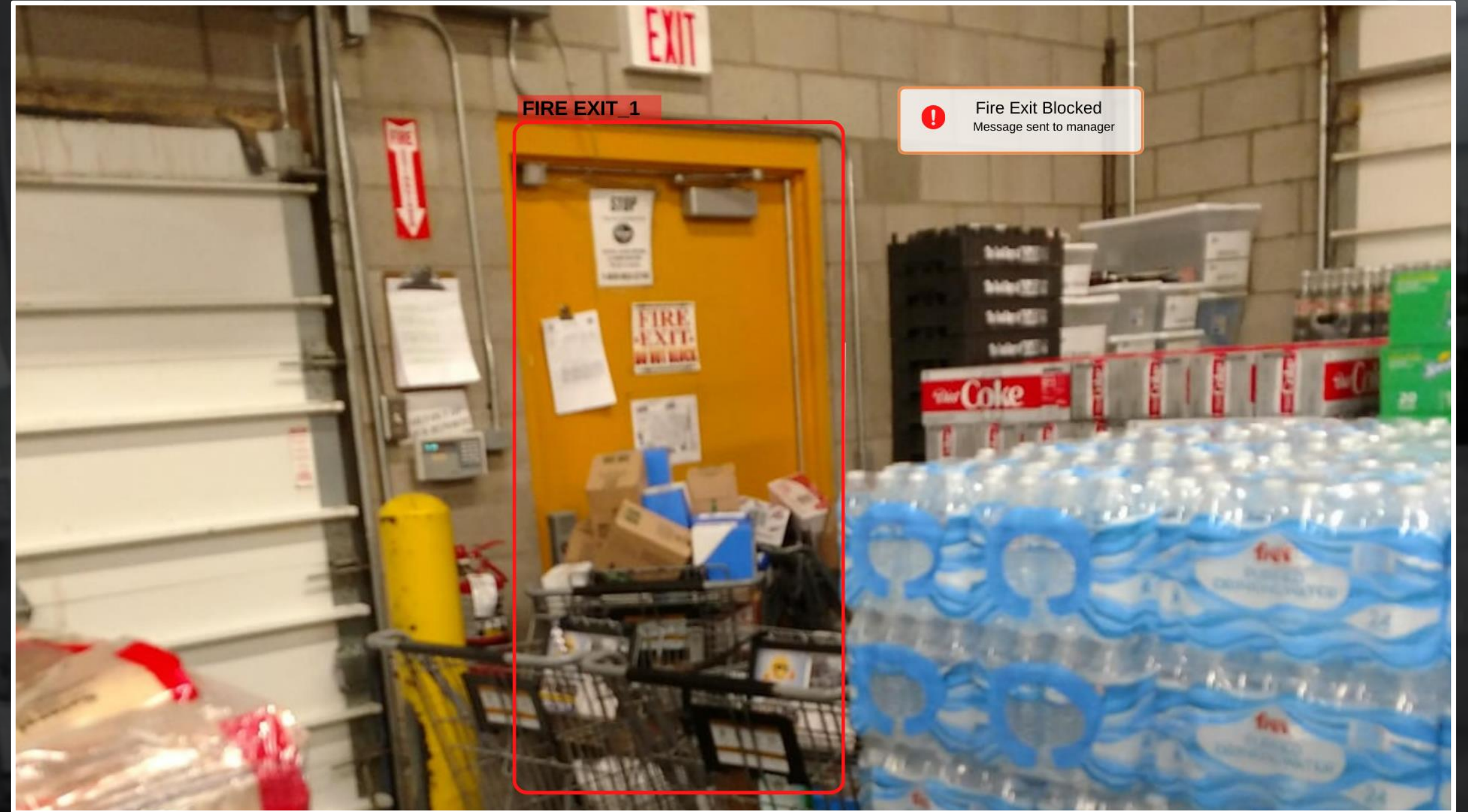
Analyze video footage to identify early signs of fire or smoke, enabling rapid alerts and response to potential fire hazards



Fire Detection

# Fire Exit Blocked Alert

Stay compliant by detecting and preventing blockages in fire exits, ensuring swift evacuation in case of emergencies



## Machine Monitoring

Enhance machine safety by monitoring for risky behavior and automatically stopping operations when danger is detected



## Forklift Monitoring

Identify obstacles, track forklift overspeeding, detect pedestrian and forklift proximity, alerting operators to prevent accidents and ensure safety

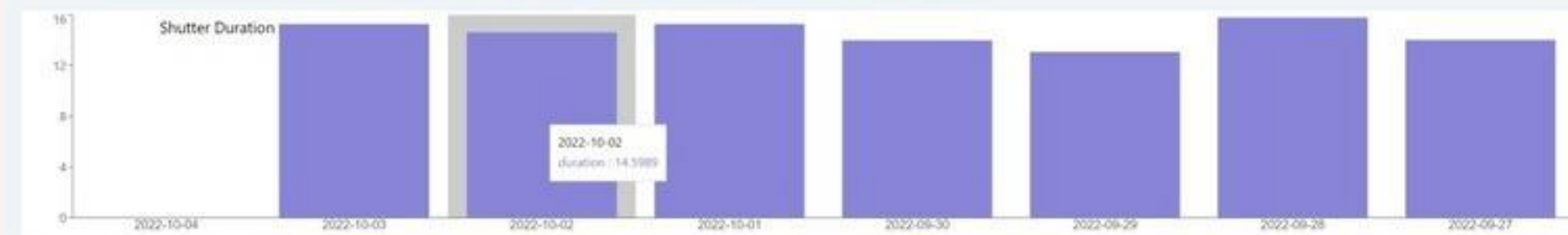
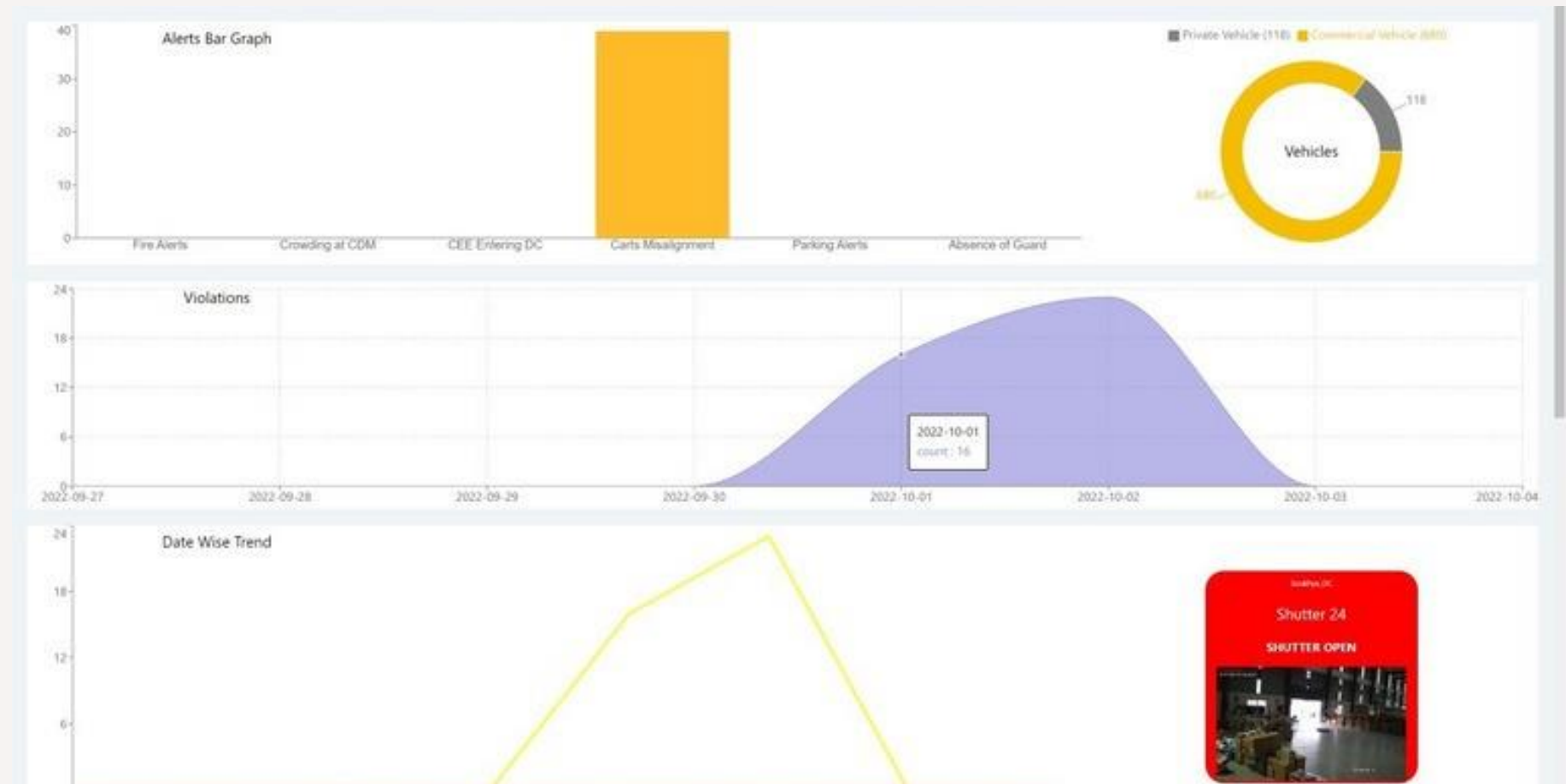


# DASHBOARD

Attendance Table Search K 🔖

Warehouse Code	Date	Time	Warehouse Name	Image	Attendance Count
5987	2022-10-04	08:12:22	Gaddam Arundhati Sai Warehouse		25
	2022-10-04	08:15:30	Anupama Warehouse		15
CM2210	2022-10-04	08:04:36	Poojaben Nikulkumar Patel Warehouse		15
	2022-10-04	02:07:19	Rajkumar_W.H1		15
CM 1047	2022-10-04	08:03:55	MS GRANARY WAREHOUSE(Main)		15

Shows 10 rows



Date	Warehouse Name	Camera Id	License Plate Number	Arrival Time	Door Open Time	Door Close Time	Departure Time	No of Sacks	No of Crates	No of Cartons	Time for unload load	Actions
2022-10-01	Mahalakshmi_SK	2_1	Mahalaxmi unloading	08:52:05	08:54:05	08:55:19	12:33:44	0	0	1	03:41:39	
2022-10-01	Mahalakshmi_SK	2_1	Mahalaxmi unloading	07:47:42	07:49:42	08:06:43	08:08:43	0	0	2	00:21:01	
2022-10-01	Mahalakshmi_SK	2_1	Mahalaxmi unloading	07:28:10	07:30:10	03:12:08	07:35:56	0	0	8	00:07:46	

Log Table Search K 🔖

event id	site name	camera name	event time	event date	event tag	Actions
468359	KS_WH - MP	Outdoor_Vehicle_1	14:48:19	2022-10-04	vehicle detected	
468357	Chandan Khandelwala Godown-1 - Raichur	Outdoor_Vehicle_1	14:48:49	2022-10-04	vehicle detected	
468355	Dubey_WH - MP	Outdoor_Vehicle_1	14:48:12	2022-10-04	vehicle detected	
468354	KS_WH - MP	Outdoor_Vehicle_1	14:48:03	2022-10-04	vehicle detected	
468353	KS_WH - MP	Outdoor_Vehicle_1	14:48:00	2022-10-04	vehicle detected	
468351	MS GRANARY WAREHOUSE(Main) - Lalur	Outdoor_Vehicle_1	14:46:58	2022-10-04	vehicle detected	
468350	New Maharana Shakti Warehouse - 4 - Amavadi	Indoor_Shutter_1	14:46:47	2022-10-04	shutter close	
468348	Swaraj_WH - Bihar	Outdoor_Vehicle_1	14:45:55	2022-10-04	vehicle detected	
468356	Swaraj_WH - Bihar	Outdoor_Vehicle_1	14:45:49	2022-10-04	vehicle detected	
468352	Swaraj_WH - Bihar	Outdoor_Vehicle_1	14:44:44	2022-10-04	vehicle detected	
468349	Wastal_WH - MP	Outdoor_Vehicle_1	14:43:58	2022-10-04	vehicle detected	
468348	KS_WH - MP	Outdoor_Vehicle_1	14:43:53	2022-10-04	vehicle detected	
468346	Shree_Balaji_WH - MP	Outdoor_Vehicle_1	14:43:40	2022-10-04	vehicle detected	

13 rows

# API INTEGRATIONS



## BMS

Computer vision seamlessly integrates with Building Management Systems (BMS) by providing real-time visibility and data insights, optimizing inventory management, and enhancing operational efficiency.



## Video Management Software

Leveraging cutting-edge technology, computer vision seamlessly integrates with video management software, revolutionizing surveillance and unlocking powerful insights from visual data.



## Command Center

Integrate with command center software, to get real-time insights and visual data for enhanced situational awareness and decision-making.



## Mobile Applications

Integrate mobile apps through APIs (Application Programming Interfaces), enabling real-time dashboard on mobile devices.

## Serving 40+ Clients



# OUR PRESENCE

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MUMBAI



BANGALORE



NEW DELHI



DUBAI



CHICAGO



KSA



Creating **Vision-based State of the Line Analysis** for  
Manufacturing & Production Sector

**QUESTIONS?**

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