

Automating Operations Monitoring

Enhance Safety, Maximize Productivity

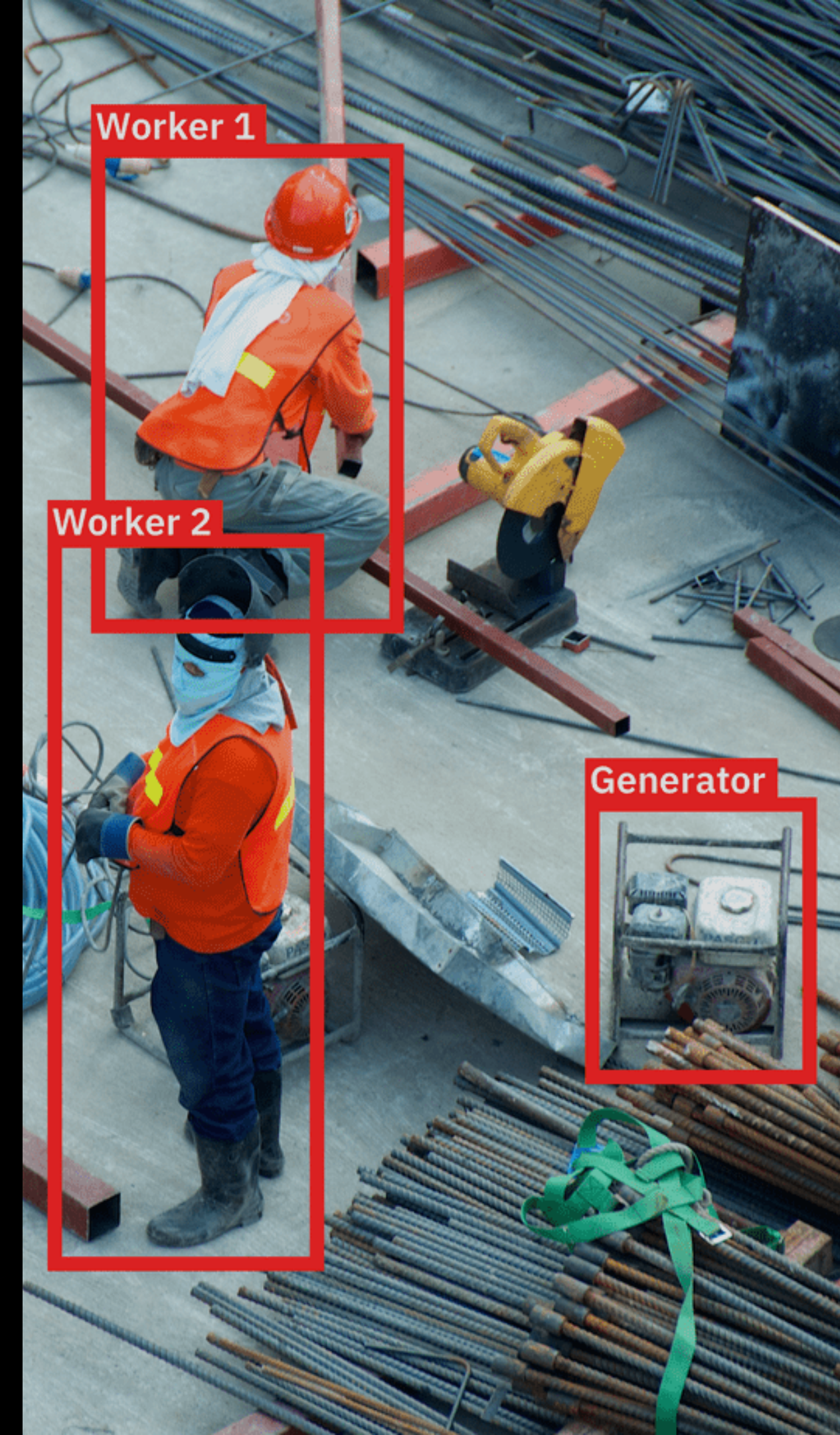
Ailyssa™

Singapore's leading video analytics platform for monitoring of construction operations

24/7 Automated monitoring and alerts

10+ Pre-built configurable AI modules for 90% of common use cases

Leverage on actionable insights to make better informed decisions



Hardware Agnostic | Automated | Hassle Free

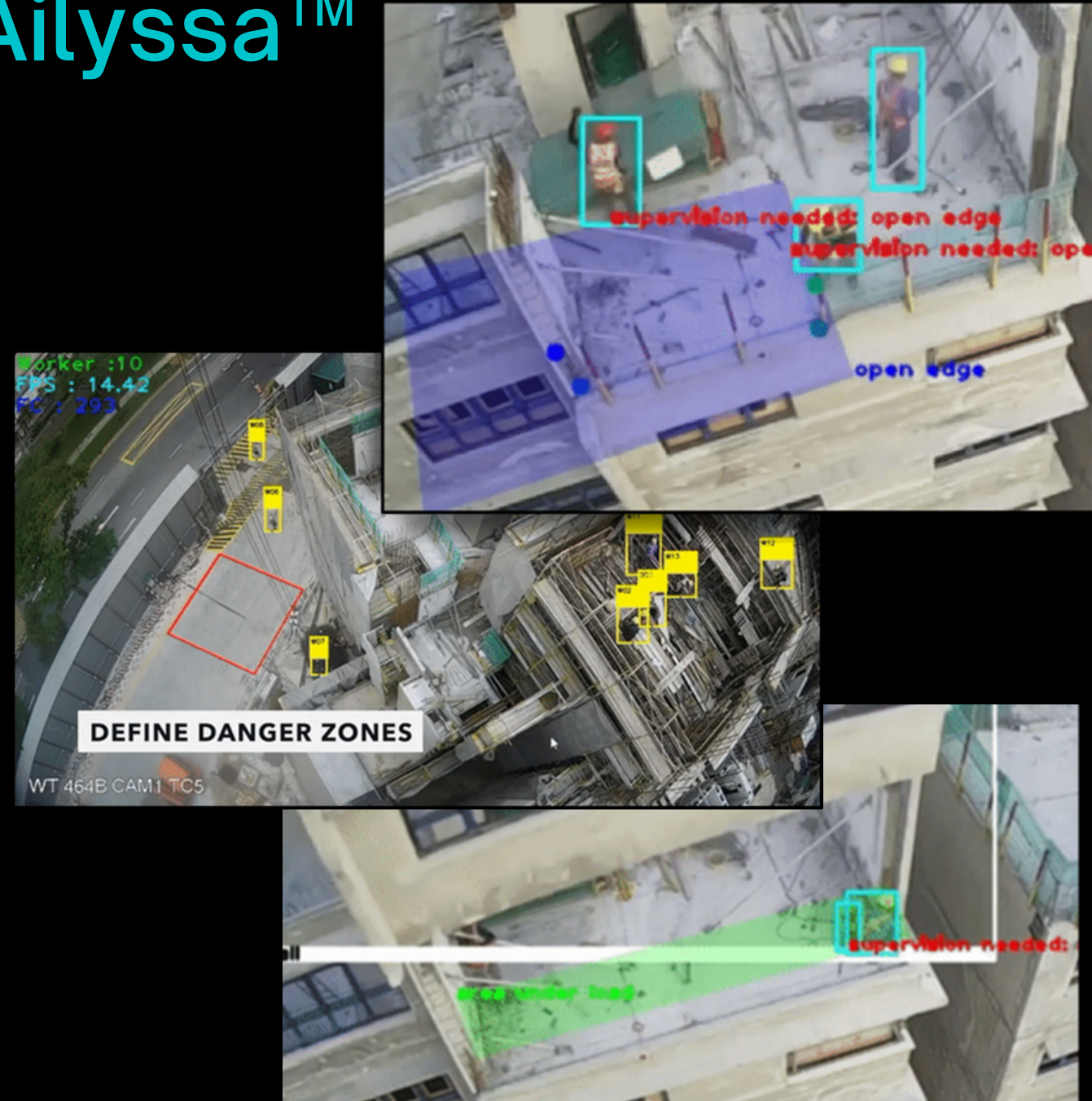


CCTV



CCTV

Ailyssa™

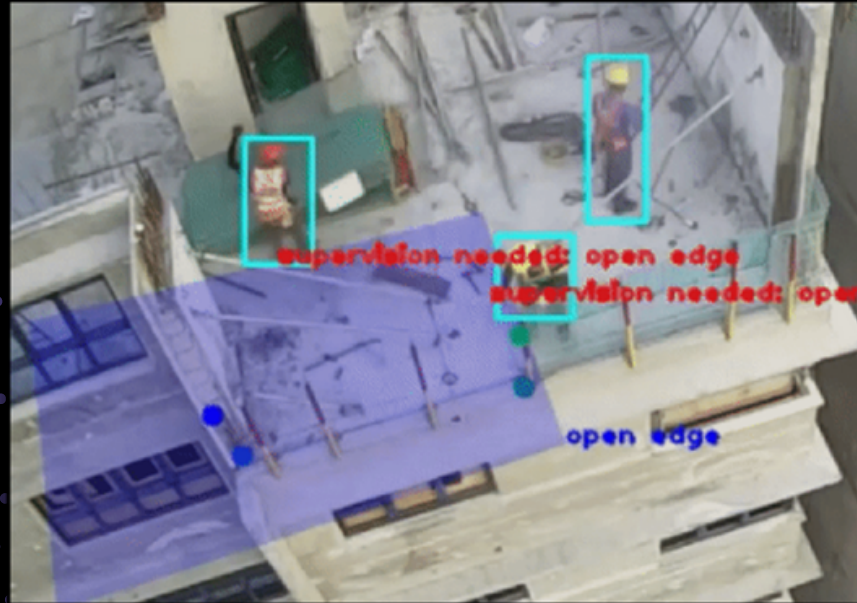


Alerts



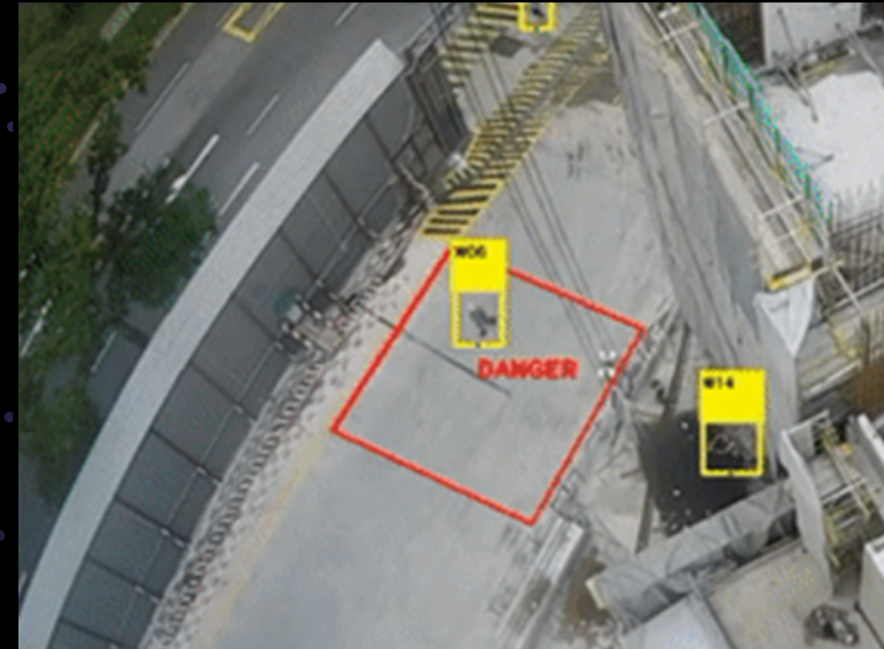
Dashboard

90% of common usecases



Open Edges

Ensure that workers are not jumping over barricades to access other areas, and are following the proper procedures.



Danger Area

Ensure that people do not enter or stay in restricted areas for prolonged periods.



PPE

Ensure that workers are wearing appropriate PPE (Helmet, Vest) during operations.



Under Lifted Loads

Get awareness of workers under loads to ensure that non required personnel are not standing under lifted loads unnecessarily.

90% of common usecases

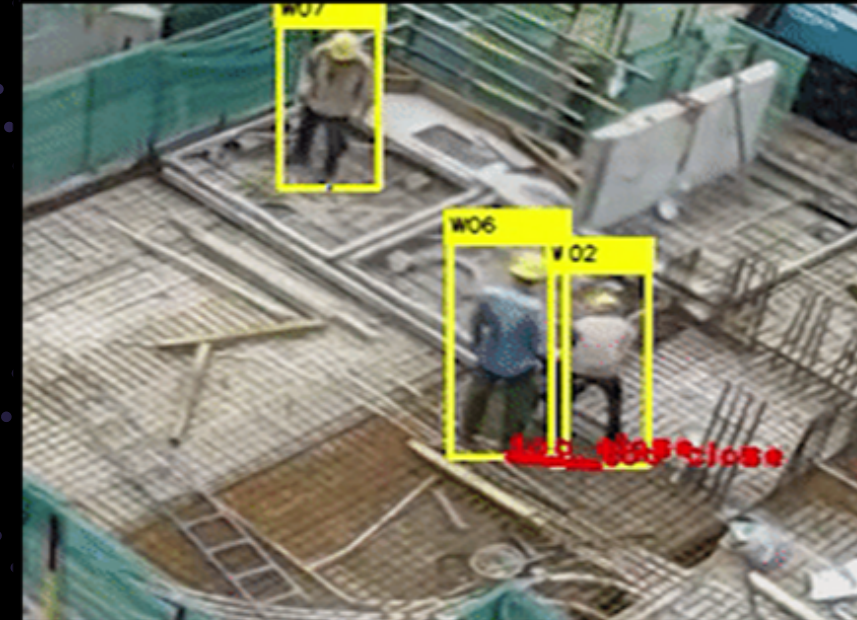
Vest Color

Leverage on vest color to determine worker traits, or restricted access to various zones.



Congregation

Understand if workers are congregating close to one another for prolonged periods.



Heavy Machinery

Ensure that workers are staying clear of heavy machinery in operation.



Barricade Removal

Get awareness of barricades are not being removed too early in advanced or if the netting is not properly in place.



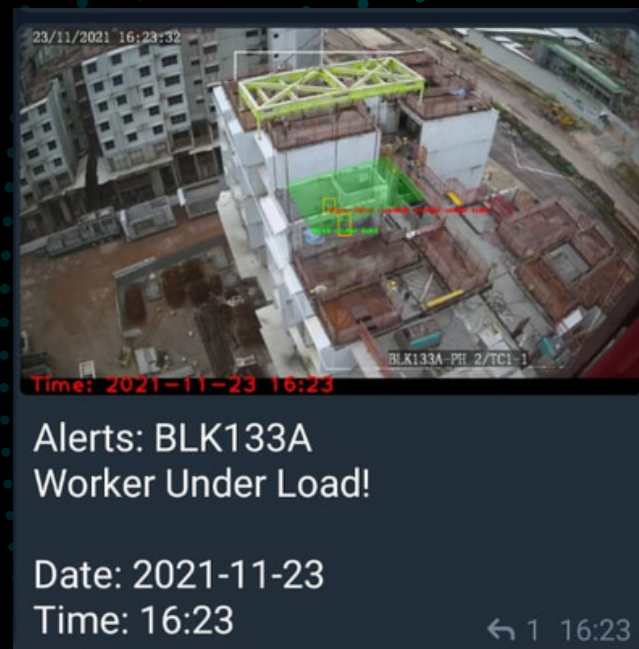
and more...

Actionable Insights

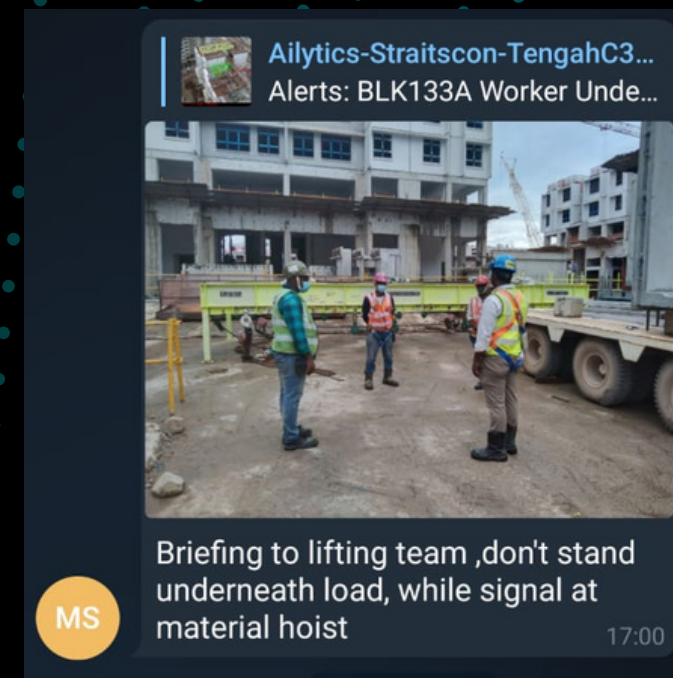
Leverage on actionable insights to take preventive measures



Alert



Awareness



Action



Analyze Trends

Understand if your action plans are **working** and **sustainable**

Dashboard Summary:

- 1 Unresolved Alerts
- 3 Resolved Alerts
- Block C Triggered Most Alerts

Latest Alerts:

Camera	Site
C12HF	Bukit Jalil
C12HF	Bukit Jalil
C12HF	Bukit Jalil
C12HF	Bukit Jalil
C12HF	Bukit Jalil

Configuration:

- Basic Configuration: Group Name: C12HF, Block Number: Block C, HTTP Address: https://ailytics1.egg1.cdn.id, Feed Duration: 1920,1080, Site: Bukit Jalil
- Notification Configuration: Microsoft Chat ID, Telegram ID

Alert Details:

- Alert 1: 12/28/2021, 10:17:23 PM. Status: Resolved. Violations: Safe Distance, No Access Area, Safe Distance, Barricade Missing, Safe Distance.
- Alert 2: 12/28/2021, 10:17:41 PM. Status: Resolved. Violations: Safe Distance, No Access Area, Safe Distance, Barricade Missing, Safe Distance.

AI System Performance Report - September, 2021

Site: Bukit Jalil
Duration since start: 1 month
Period considered for report: 01/09 - 30/09
Number of test images used: 200

Number of Alerts:

Alert Type	Count
Safe Distancing	1084
Worker Under Lifted Load	20
Workers Near Open Edges	67
Total	1171

Alert Trend:

The chart shows the frequency of alerts over time for three categories: Safe Distancing (red), Worker Under Lifted Load (blue), and Workers Near Open Edges (orange). Safe Distancing shows the highest and most fluctuating number of alerts.

User Profile: PRATEEK MANOCHA

- prateek | admin@ailytics.ai
- Registered on Tue Dec 28 2021
- Never logged in

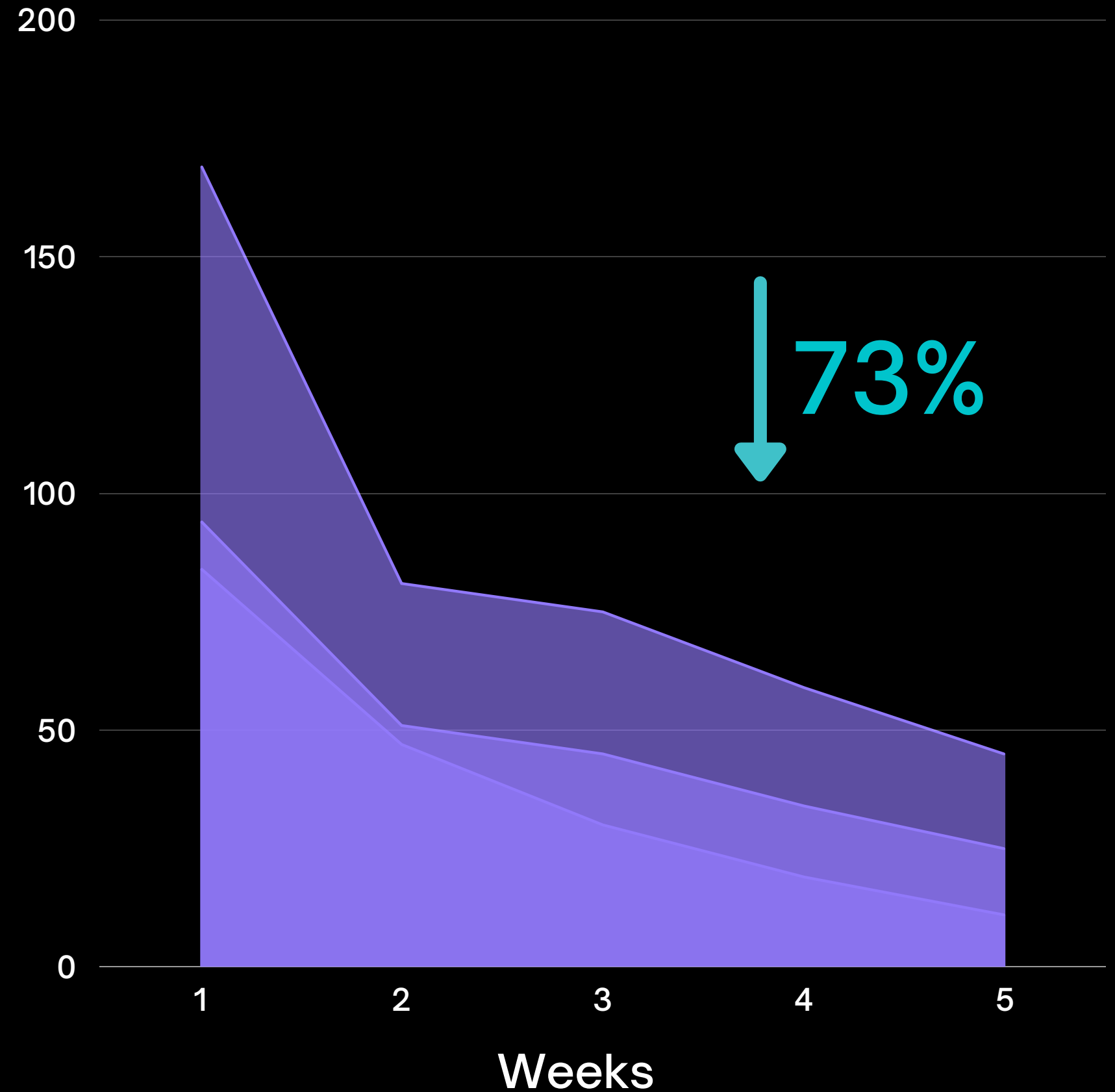
Clear improvement within weeks

Actionable insights for preventive measures

1. Identify **undesirable** situations
2. Increase **awareness** for workers
3. Implement **action plans**
4. Assess sub-contractor **performance**
5. Improve overall **culture** from the ground up

Alerts

Average number of alerts for 3 usecases from 16 CCTVs



Before Ailyssa™

Tedious Manual Inspection

Site open to many compliance risks

Prone to human errors

With Ailyssa™

50% reduction in manual inspections

7x increased hazard detection

24/7 automated site monitoring and alerts

Competitive Advantage

Ailyssa™ is able to detect **complex scenarios** while being **cost-efficient** and **easily deployable**

Dataset

Over 50,000 labelled dataset for various construction objects and scenarios collected over 3 years

Critical to the accuracy of any AI detection

Smart Perspective

Ability to interpret a 3D scene from any IP Camera without sensors

More realistic and accurate detection

Harsh Environment

Optimized for the dynamic construction environment

Small Objects
Shaking of CCTV view
Weather conditions
Poor Connectivity

Thank You

Contact us for a FREE consultation



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