ROBOK

Safer & more efficient ports powered by AI

Feb 2023

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Live videos are everywhere, but no one likes to watch them 24/7

>1 billion
cameras installed globally

<1% of surveillance
video is watched live

>10% CAGR for
CCTV cameras

Extracting insights,
learning the unknowns
from your existing visual data

Computer Vision and Artificial Intelligence are about understanding the scenes autonomously

Proactive insights delivered in real-time

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A Admin

Safety & Security

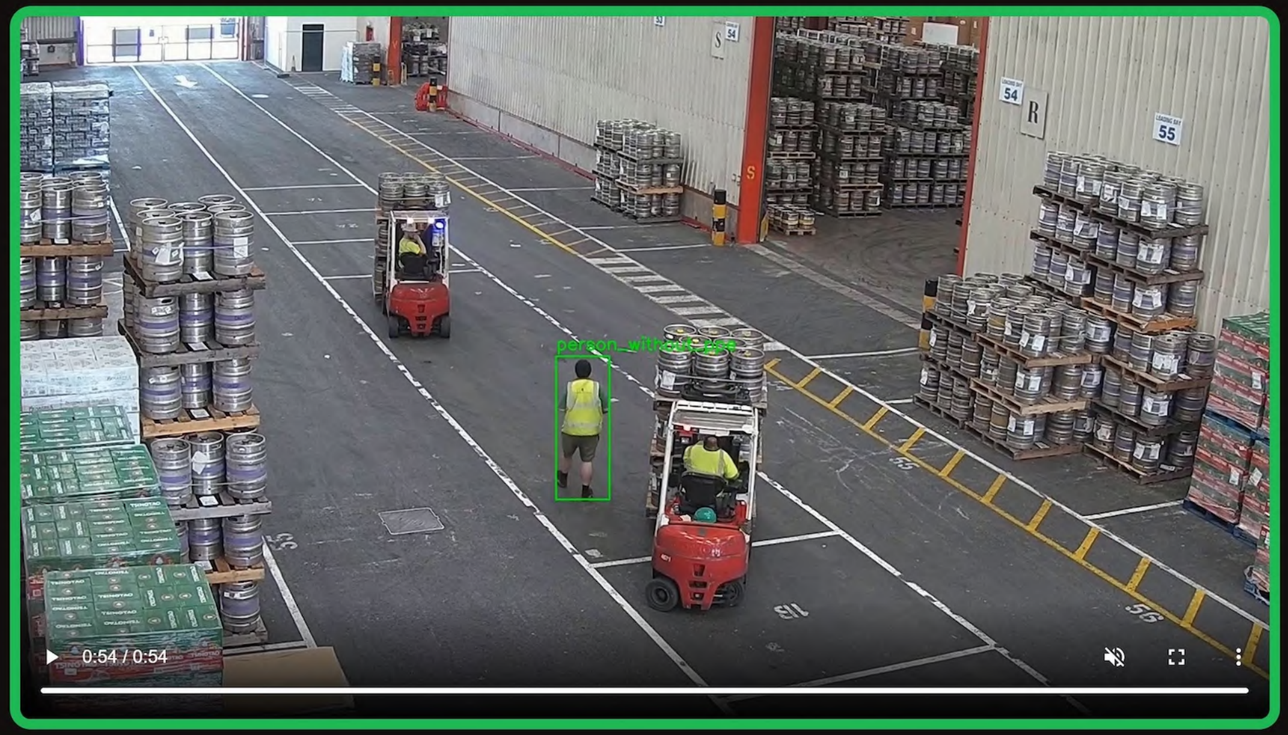
- PPE Compliance
- Near Miss
- Unsafe Entry
- Dwelling
- Theft

Efficiency

- Demographic Analysis

Analytics

- Trends



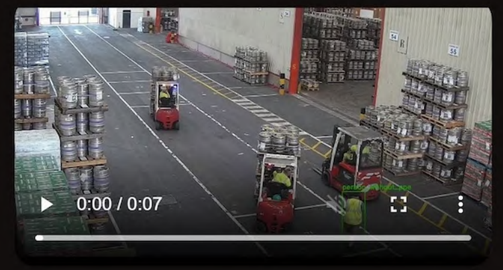
PPE Violations
3

Alerts 3

#PPE-03 16 : 19 , Fri Feb 03 2023

PPE Violation

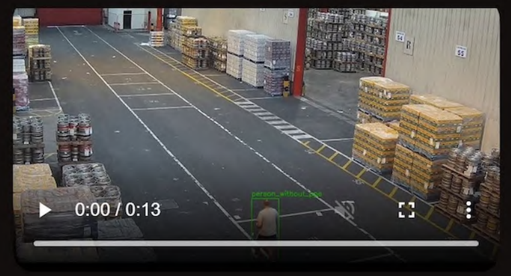
Hard Hat



#PPE-02 16 : 8 , Fri Feb 03 2023

PPE Violation

High Vis, Hard Hat



#PPE-01 16 : 8 , Fri Feb 03 2023

PPE Violation

Hard Hat

Proactive insights delivered in real-time

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Admin

Safety & Security

- PPE Compliance
- Near Miss
- Unsafe Entry
- Dwelling
- Theft

Efficiency

- Demographic Analysis

Analytics

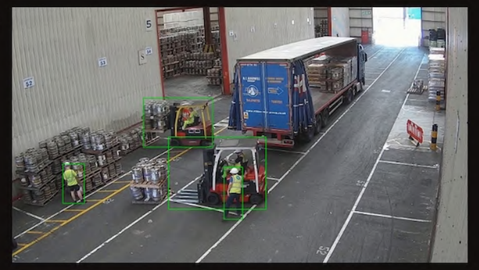
- Trends

Near Miss
2

Alerts 2

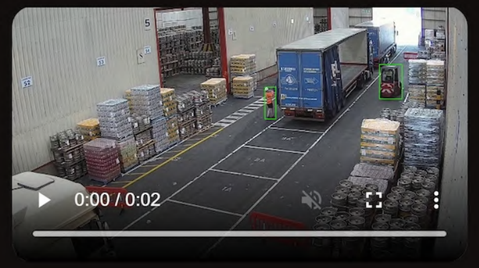
#NMiss-02 17 : 19 , Fri Feb 03 2023

Near Miss

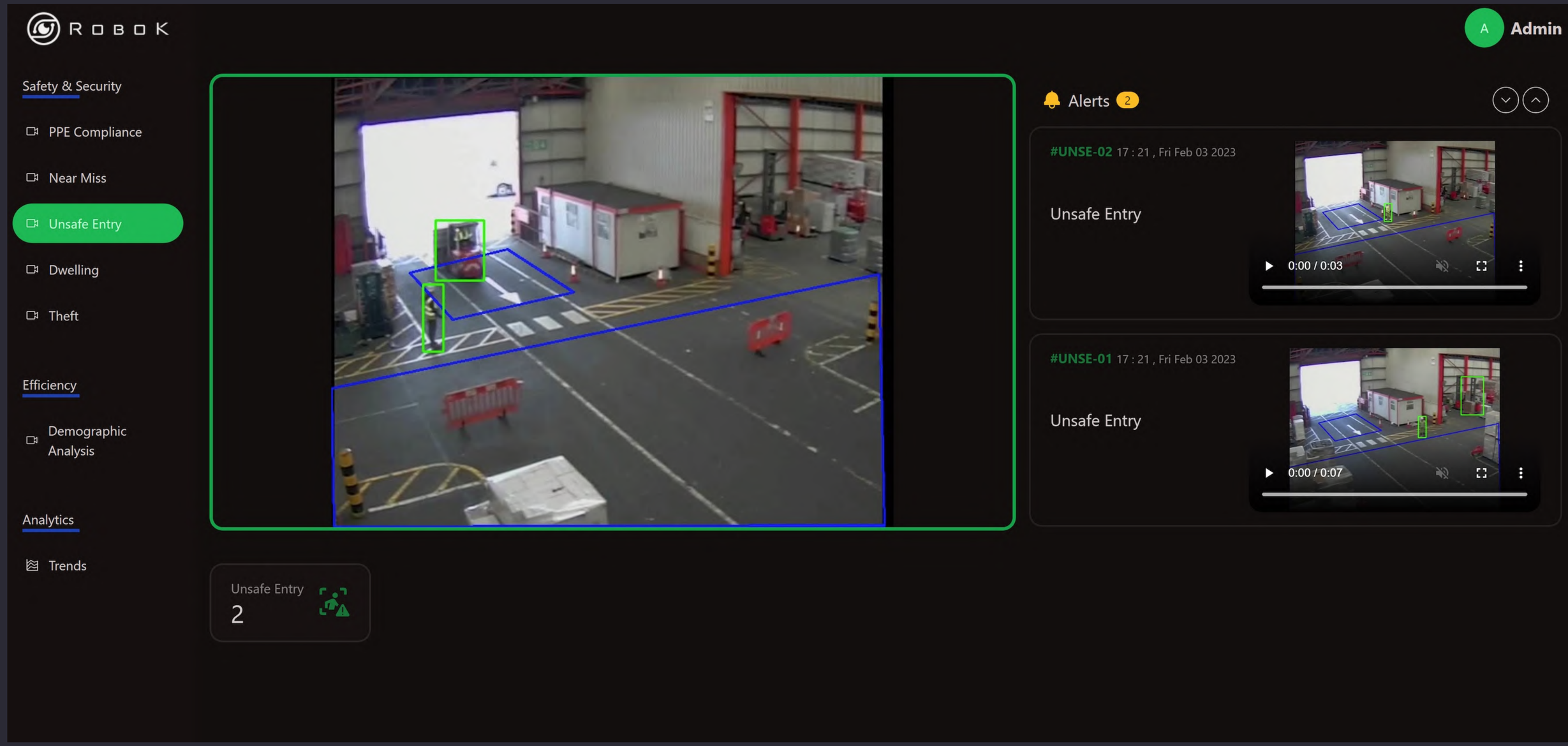


#NMiss-01 17 : 19 , Fri Feb 03 2023

Near Miss

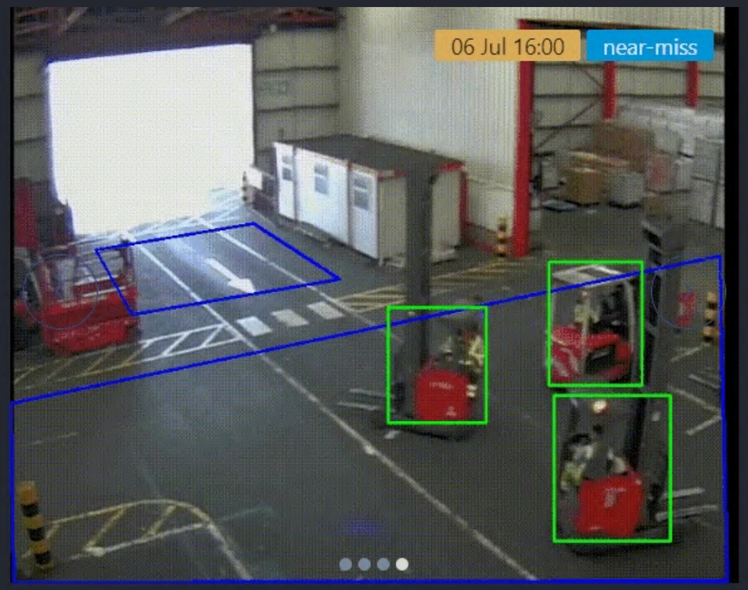


Proactive insights delivered in real-time



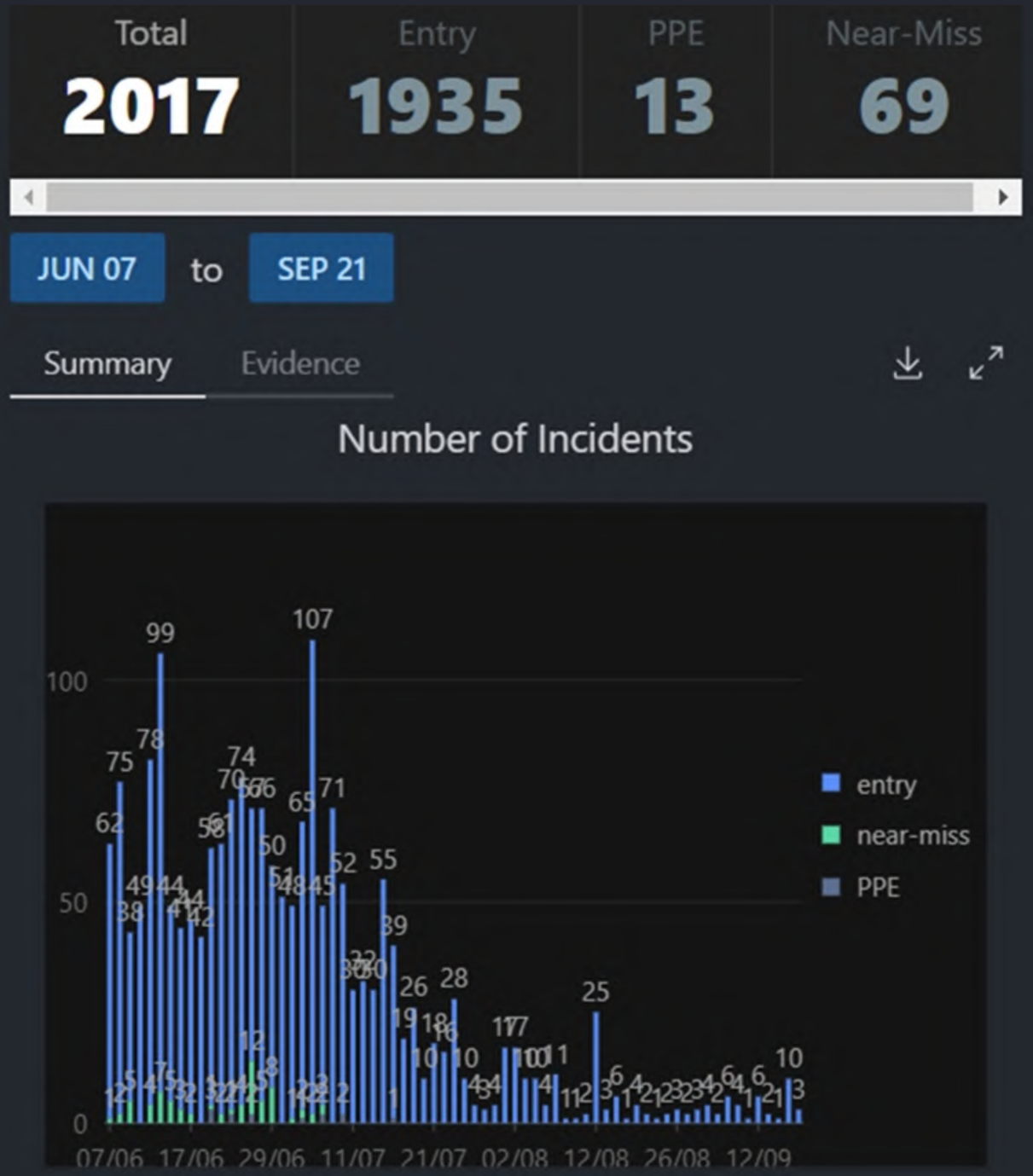
Privacy-preserving, scalable AI solutions

- Proprietary efficient computer vision software with robust tracking
- Federated learning for privacy and performance
- Continuously improving with huge amount of sector-specific data



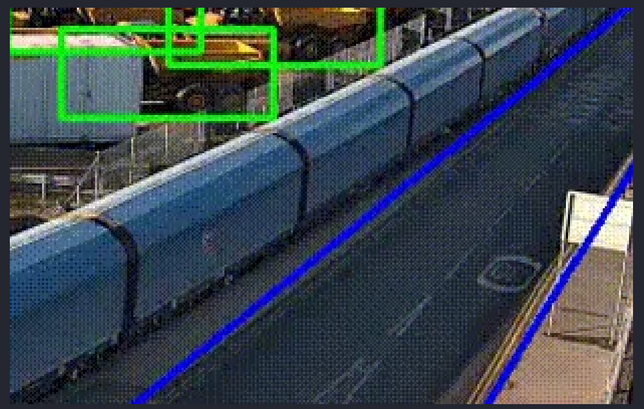
The results

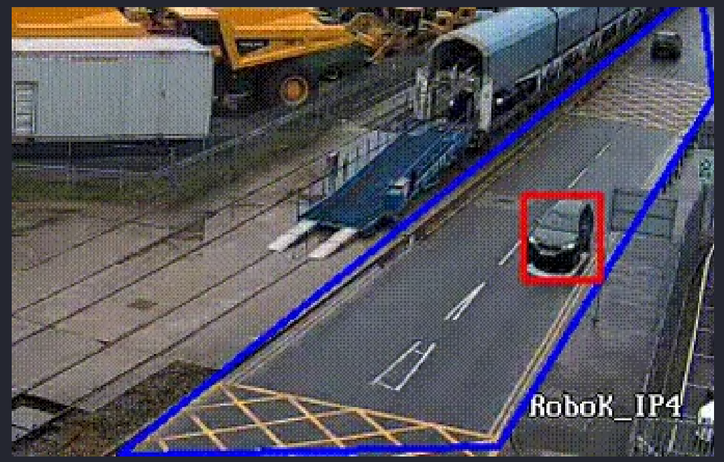
- From 100 potential breaches a day to 3 in 3 months
- Data-driven decisions for future operational planning



More safety applications

- Near miss monitoring at quayside & berth
- Anomaly detection
- Unsafe parking & dwelling



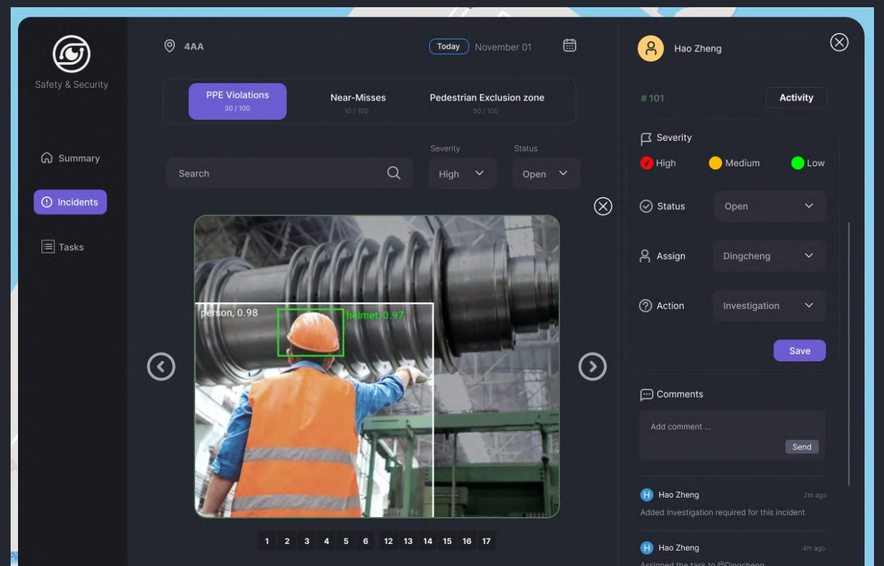


ROBOK

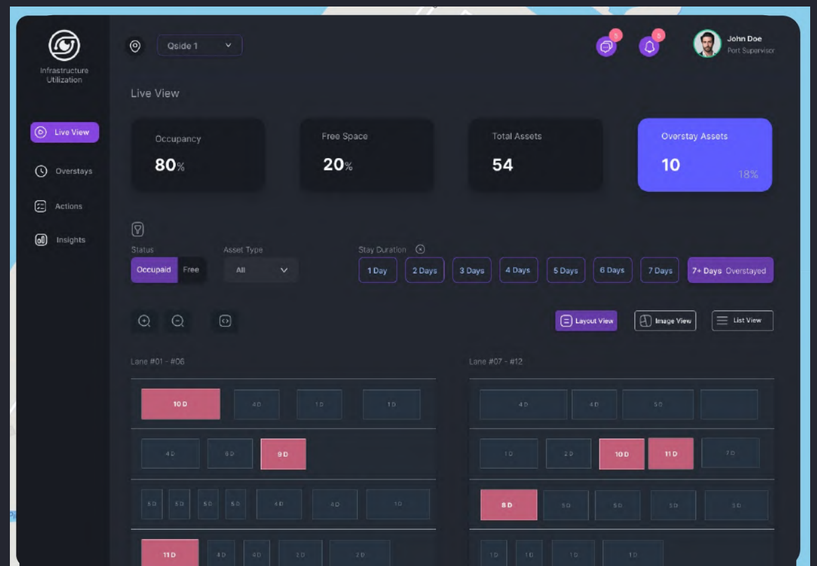
We are empowering safer & more efficient logistics workplaces

SIEMENS · NetworkRail · ABP ASSOCIATED BRITISH PORTS · national highways · TRAFNIDIAETH CYMRU TRANSPORT FOR WALES · THE BRISTOL PORT COMPANY

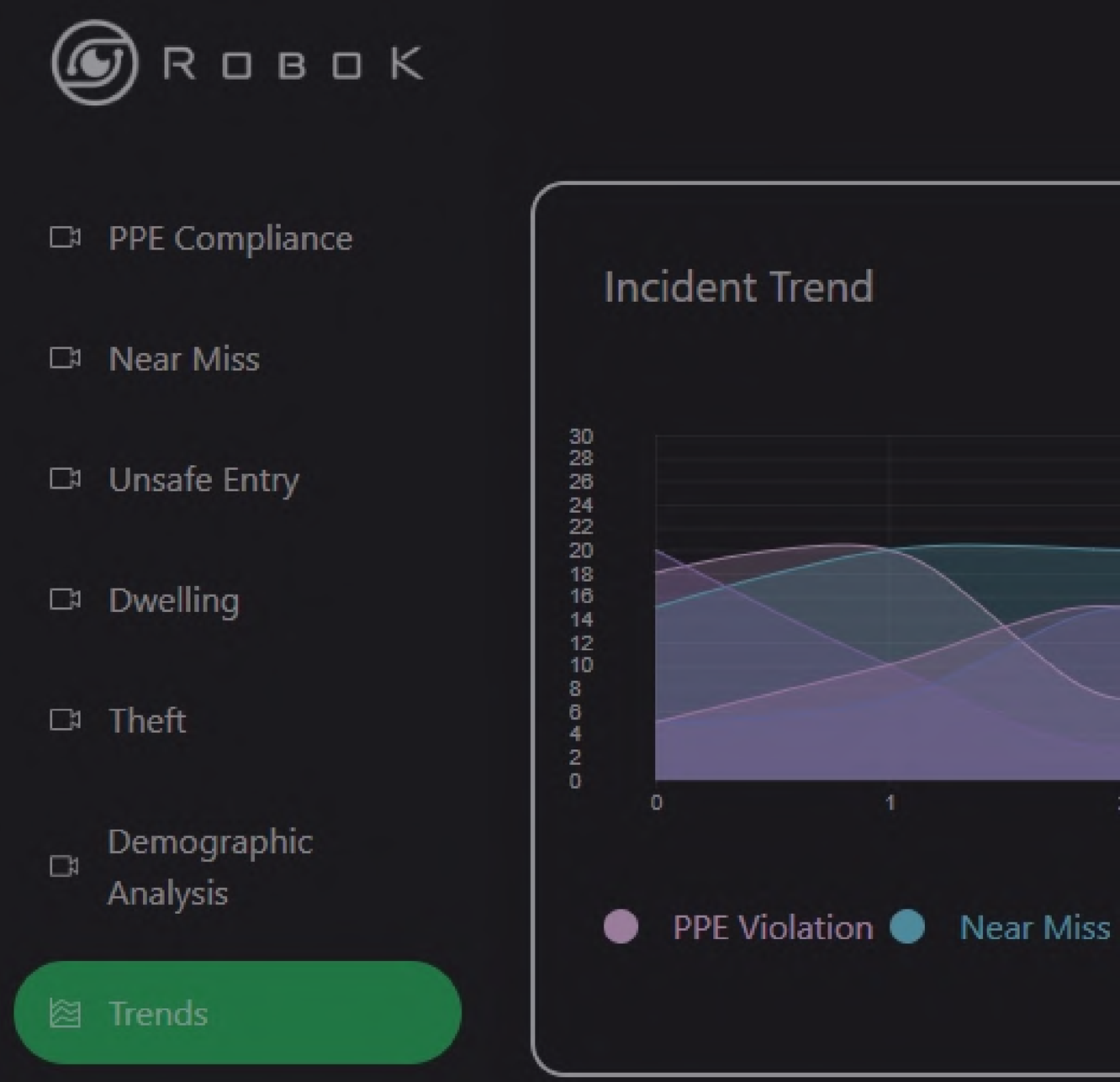
Insights Platform - React



Insights Platform - Plan



Thank you

Feb 2023

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