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Multiple Industry CCTV Surveillance Solutions

IP Cameras, Drones & Robot Dogs for Manufacturing, Logistics, Warehouse, Construction & Oil & Gas

Presented by: OSNET Technologies Sdn Bhd

Agenda

Presentation Structure Overview

Topics we will cover:

- Introduction to Surveillance Technologies
- Industry-Specific Applications
- System Benefits and Integration
- Implementation Strategies & Challenges
- Future Trends and Innovations
- Summary and Next Steps

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Surveillance Technology Overview

FACE RECOGNITION

Modern CCTV Surveillance Evolution

Key Developments:

From static cameras to autonomous systems.
Key drivers: safety, efficiency, remote monitoring.
Integrated solutions for industrial environments.

IP Cameras: The Foundation of CCTV Surveillance



Definition and Core Features for Industrial Monitoring

Key Capabilities:

- High-resolution video capture (4K/8K)
- Night vision and thermal imaging options
- Remote access and cloud connectivity
- AI-powered analytics and alert



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Drone Surveillance: Eyes in the Sky

Overview of drones in industrial surveillance

Key Capabilities:

- Aerial monitoring of large industrial sites
- Real-time video streaming and data collection
- Automated flight paths and AI integration
- 24/7 autonomous patrol operations

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Robot Dogs: Mobile Ground Surveillance

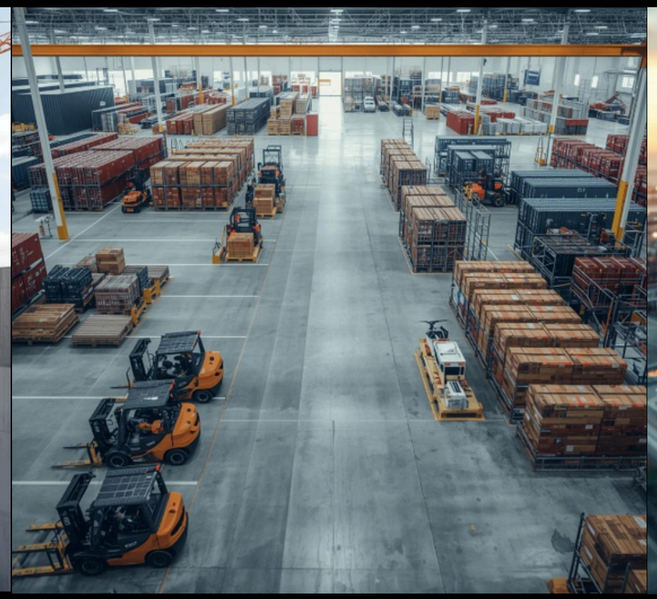
Introducing Autonomous Robot Dogs for Industrial Surveillance

Key Capabilities:

- Navigation in complex industrial terrain
- Sensors for video, thermal, gas detection
- Remote control and autonomous patrol modes
- 24/7 operation in hazardous environments








Industry Applications

Surveillance Solutions for Manufacturing, Logistics, Warehouse, Construction & Oil and Gas

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Manufacturing Industry Surveillance

Challenges in Safety and Security

Key Risks:

- Risk of fires, equipment failure, unauthorized access
- Need for continuous 24/7 monitoring coverage
- Quick incident response and threat detection

Manufacturing Use Case: Integrated Surveillance

How IP cameras, drones, and robot dogs enhance manufacturing safety

Key Applications:

- IP cameras monitoring production lines
- Drones inspecting rooftops and large equipment
- Robot dogs patrolling restricted zones during off-hours

Logistics Industry Surveillance

Asset Tracking & Theft Prevention

Key Challenges:

- Large warehouses and vehicle fleets to monitor
- Need for perimeter security coverage
- Real-time monitoring requirements

Logistics Use Case: Enhancing Asset Security

Surveillance Applications in Logistics Operations

Key Applications:

- IP cameras at entry/exit points for vehicle tracking with LPR Integration (License Plate Recognition)
- Drone inventory inspections on large outdoor lots
- Robot dogs conducting night patrols in warehouses

Warehouse Surveillance

Unique Monitoring Requirements

Key Challenges:

- Monitoring inventory, safety hazards, and compliance
- Coverage of blind spots and high shelves
- Real-time tracking with IP cameras and robot patrols

Warehouse Use Case: Optimizing Operations



Surveillance Technologies Improving Warehouse Efficiency

Key Applications:

- IP cameras tracking stock movement
- Drones performing stock counts and inspections
- Robot dogs detecting spills or hazards on floors

Construction Site Surveillance

Security and Safety Challenges

Key Challenges:

- Theft of materials and equipment
- Worker safety monitoring and compliance
- Securing large, dynamic outdoor environments



Construction Use Case: Real-Time Site Monitoring

Deploying Integrated Surveillance for Construction Sites



Key Applications:

- IP cameras monitoring site entrances and heavy machinery
- Drones conducting aerial progress surveys with AI detection
- Robot dogs patrolling site perimeter and hazardous zones

Oil and Gas Industry Surveillance

High-Risk Environment Monitoring

Key Challenges:

- Hazard detection and leak monitoring systems
- Perimeter security for critical infrastructure
- Remote and harsh location accessibility



Oil and Gas Use Case: Safety and Compliance

How Surveillance Technologies Mitigate Risks

Key Solutions:

- IP cameras with thermal imaging for leak detection
- Drones inspecting pipelines and flare stacks
- Robot dogs detecting gas leaks or intrusions



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Integrated System Benefits

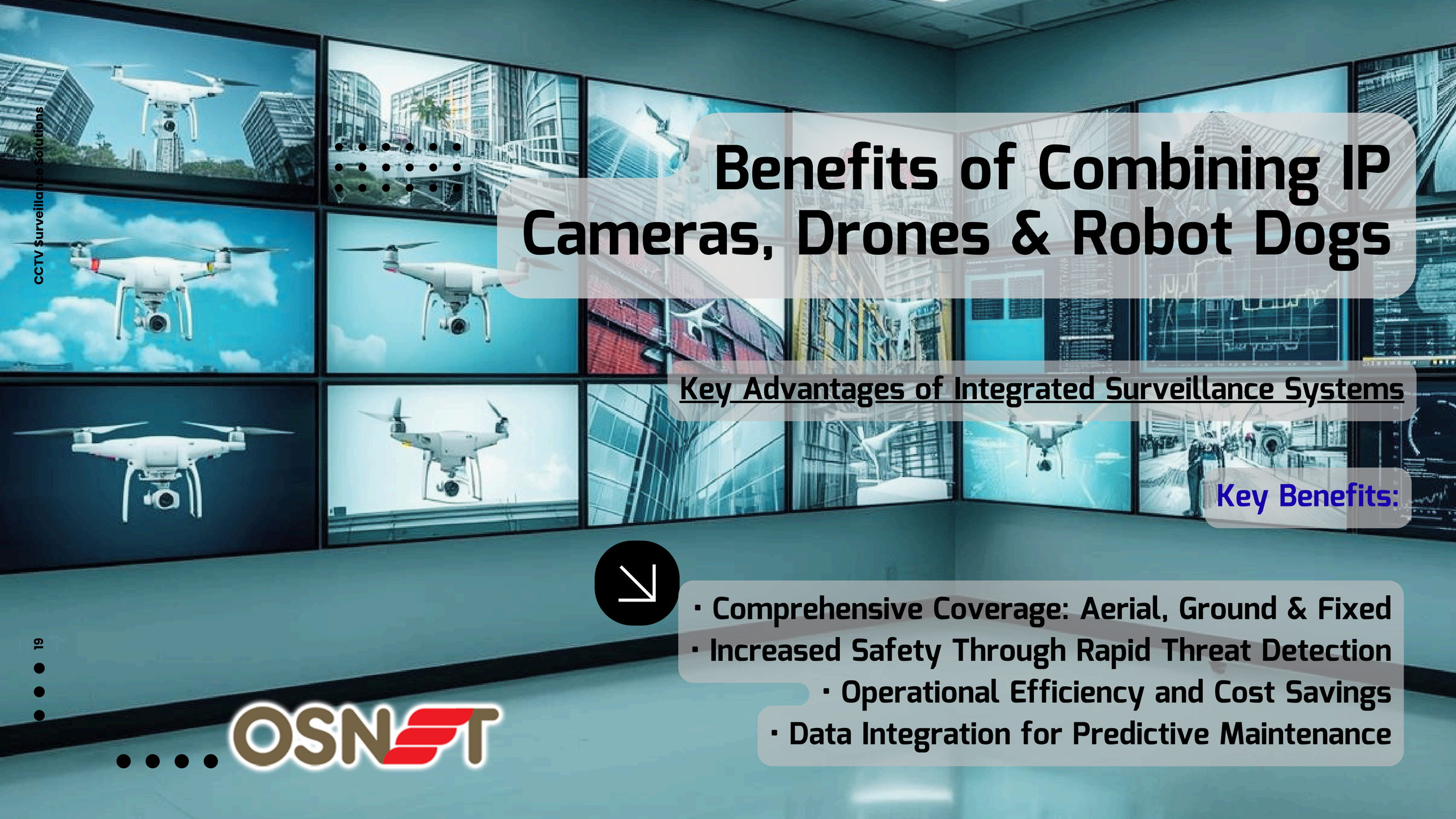
Exploring the Combined Power of IP Cameras, Drones & Robot Dogs







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Benefits of Combining IP Cameras, Drones & Robot Dogs

Key Advantages of Integrated Surveillance Systems

Key Benefits:

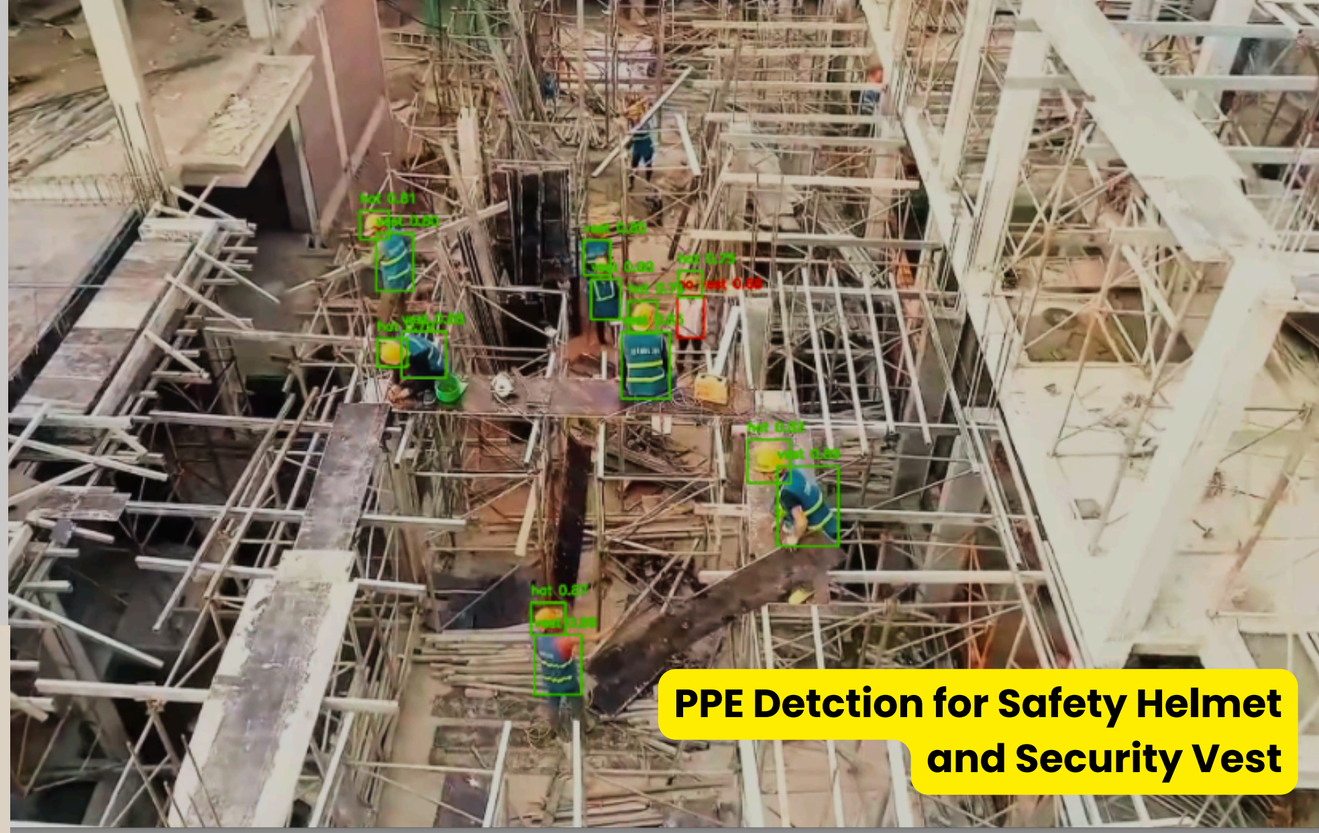
- Comprehensive Coverage: Aerial, Ground & Fixed
- Increased Safety Through Rapid Threat Detection
- Operational Efficiency and Cost Savings
- Data Integration for Predictive Maintenance

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Traditional CCTV VS. Integrated Surveillance



Comparison: Which Approach Fits Your Needs?



Traditional CCTV

Integrated Surveillance:

- Multi-platform coverage (aerial, ground, fixed)
- Autonomous operation with AI-enabled analytics
- Real-time threat detection and alerts

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Advanced CCTV Surveillance

Implementation Timeline

Phased Approach to Deploying Integrated Surveillance

- Phase 1: Assessment & Planning (0-3 months)
- Phase 2: IP Camera Installation (3-6 months)
- Phase 3: Drone Deployment & Training (6-9 months)
- Phase 4: Robot Dog Integration & Testing (9-12 months)

Phases:

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Key Implementation Considerations

Critical Factors for Successful Deployment

Focus Areas:

- Site-Specific Risk Assessment
- Regulatory Compliance & Data Privacy
- Integration with Existing Security Systems
- Staff Training & Maintenance Plans

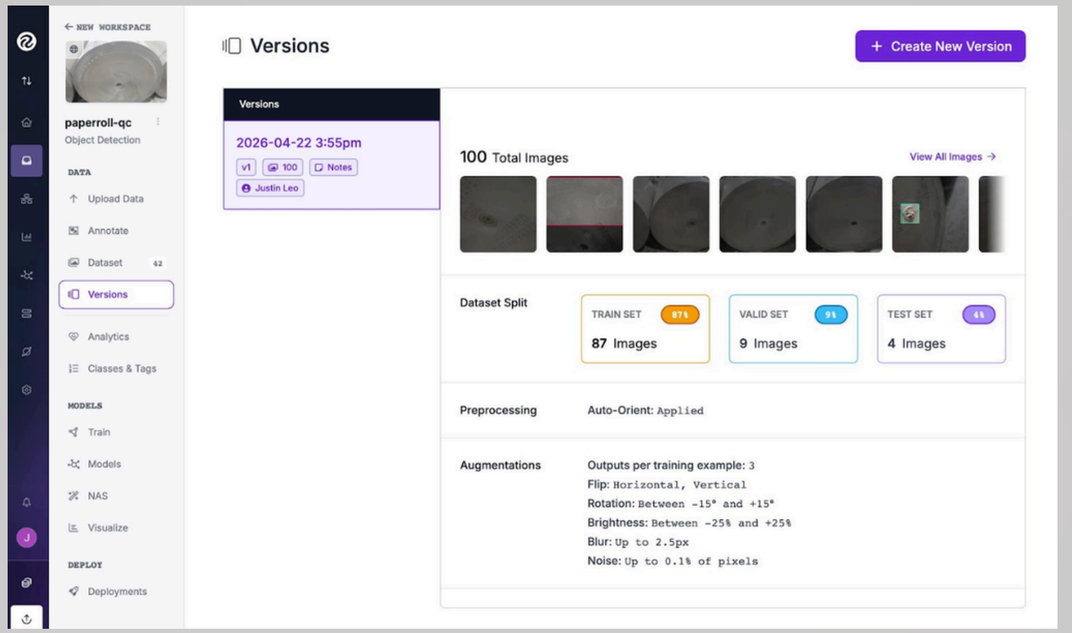
Challenges and Solutions

Overcoming Obstacles in Integrated Surveillance Deployment



Common Challenges:

- Technical complexity → Expert vendor partnerships
- High initial investment → Phased rollout and ROI tracking
- Data overload → AI and analytics to prioritize alerts




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============================================================
  Evaluation Results
============================================================
  Timestamp          : 2026-04-22 16:28:43
  Model              : training/runs/detect/paperroll_qc/weights/best.pt
  Dataset            : training/dataset

  Mean Precision     : 0.4126
  Mean Recall        : 0.3333
  mAP @ 0.50         : 0.3671
  mAP @ 0.50:0.95    : 0.2456
  Fitness score      : 0.2456

  Interpretation guide:
  mAP@50 >= 0.70  → acceptable for POC demo
  mAP@50 >= 0.85  → good — consider deploying
  mAP@50 <  0.60  → review dataset quality / add more images
============================================================
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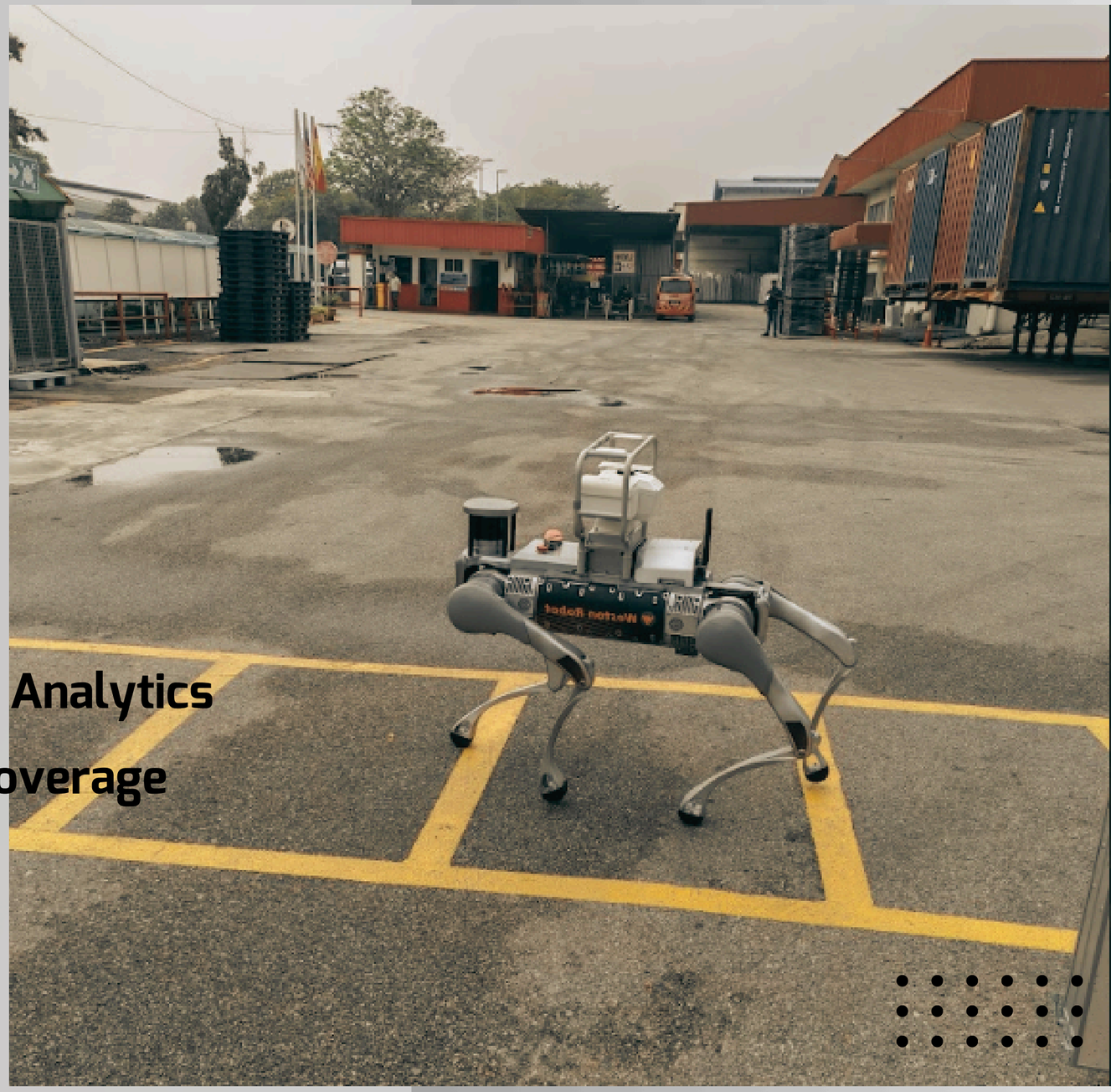
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Future Trends in Industrial Surveillance

Emerging Innovations Shaping the Industry

Key Trends:

- AI-Powered Threat Detection & Predictive Analytics
- Swarm Drone Operations for Large Site Coverage
- Enhanced Robot Dog Autonomy
- Multi-Sensor Payloads & Edge Computing



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"Technology is best when it brings people together to create safer, smarter environments."

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Innovation in Surveillance Technology









Summary of Key Points

Concise Recap of Presentation Highlights

Key Takeaways:

- Integrated surveillance delivers unmatched industrial safety and security
- IP cameras, drones, and robot dogs each play critical roles
- Phased implementation and addressing challenges are essential
- Future innovations will further enhance capabilities

Next Steps for Your Organization

Action-Oriented Recommendations

Your Roadmap:

- Conduct surveillance technology audit
- Identify pilot sites for drone and robot dog deployment
- Develop integration and training roadmap







Presented By: Industrial Surveillance Solutions

Thank you for your time

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THANK YOU!
terima kasih!
谢谢!

Thank you for your attention. We welcome your questions and discussion.



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