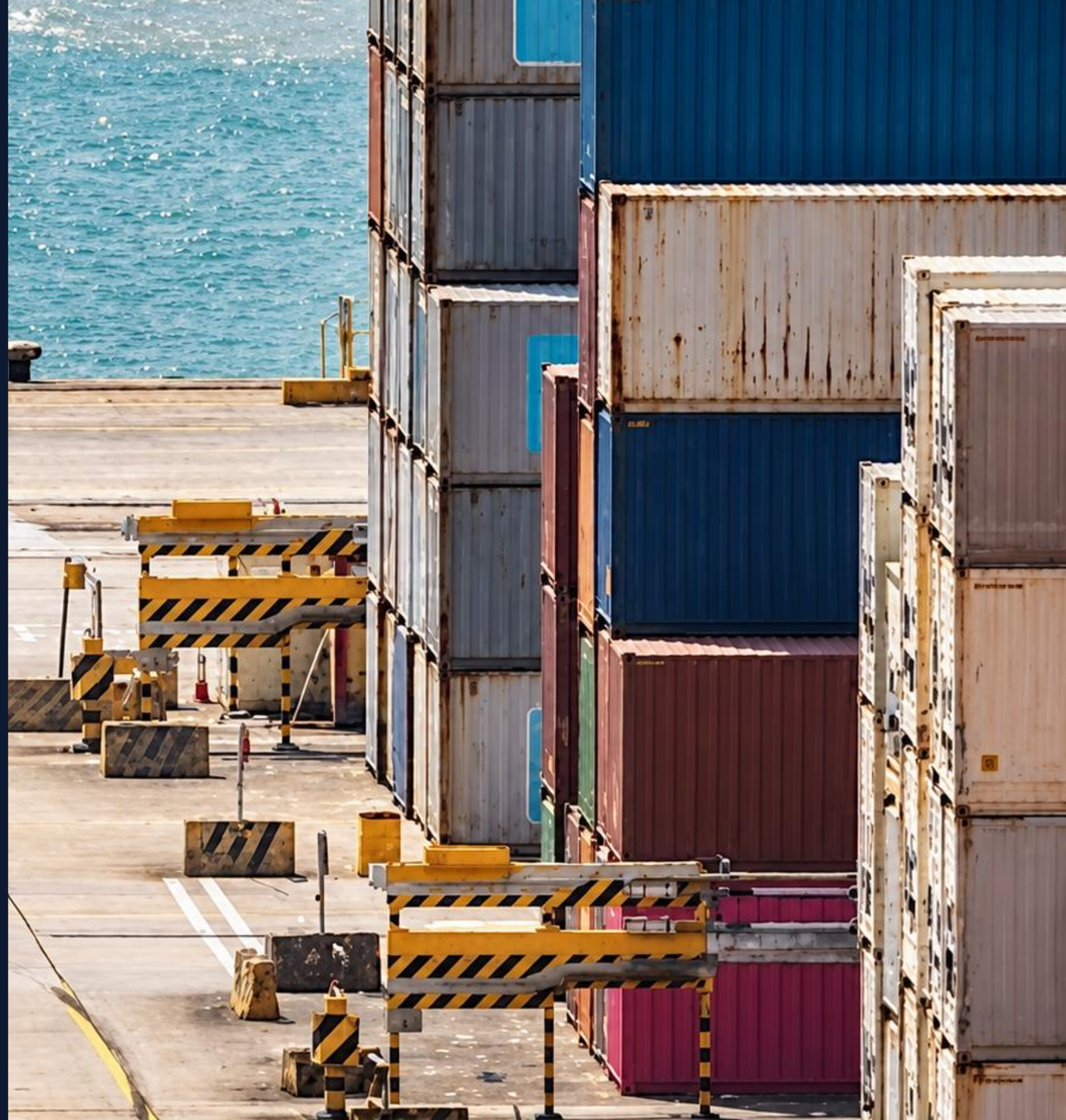
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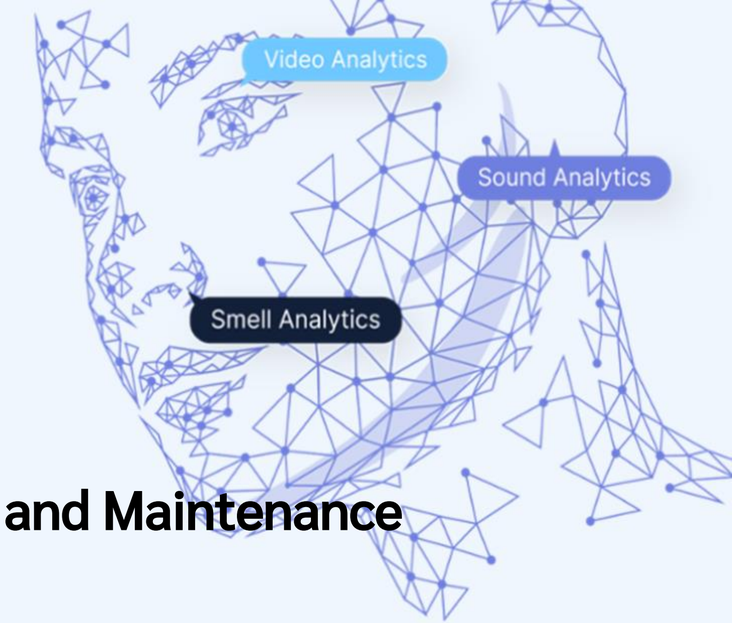
iQ-SMART LOGISTICS & DISTRIBUTION

Safety, goods movement and operational awareness



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Logistics Overview

Multi-sensory AI for safer and more efficient logistics on the road, at warehouses and at ports



Warehouse activity

Manage goods brought into and shipped from warehouses.

Site access and protection

Support vehicle and human access, loading safety and theft prevention.

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Worker Safety

Protect workers during warehouse and loading operations



Protective equipment

Check helmets and fluorescent jackets.

Slips and falls

Detect slips and falls in work areas.

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Hazard Detection and Evacuation

Identify hazardous conditions and support evacuation management with video, sound and smell analytics



Chemical and gas hazards

Detect chemical hazards by smell and detect gas leaks.



Smoke and fire

Detect smoke and fire in warehouse environments.



Evacuation management

Support evacuation management when hazards arise.

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Access, Security and Driver Management

Authorized access, site security and driver readiness



Authorized access

- Ensure only authorized vehicles enter for loading and unloading.
- Match specific vehicles with authorized drivers.

Intrusion and theft prevention

- Use databaseless access management.
- Detect intrusion, identify the intruder and prevent theft.

Driver readiness

- Detect driver tiredness.

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Goods Movement and Tracking

Track incoming, outgoing and misplaced goods



Goods movement

Manage goods brought into and leaving the warehouse.

Shipment tracking

Locate goods lost in shipment.

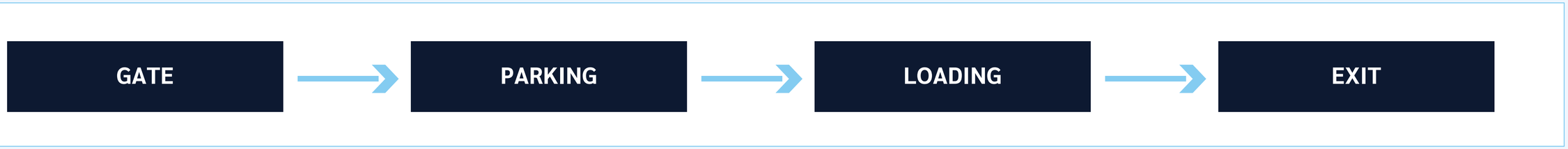
Perishable goods

Ensure perishable goods are not left on the loading dock.

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Operational Efficiency

Understand dwell time, parking and loading productivity



Dwell time

Measure time spent in different locations.

Parking management

Manage parking around the site.

Loading productivity

Monitor safety and productivity at loading and unloading areas.

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Equipment Monitoring and Maintenance

Detect equipment issues and automate meter reading

Equipment condition

- Detect conveyor belt stalls.
- Alert when equipment overheats.

Meter reading

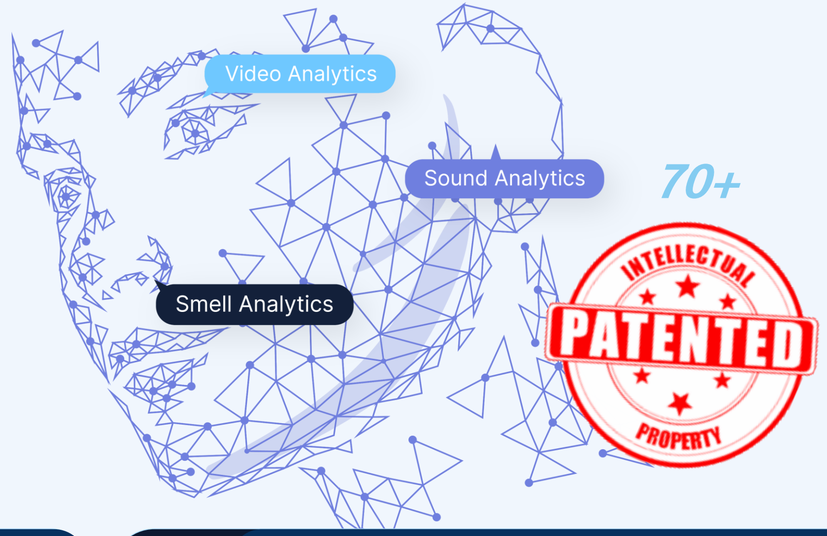
- Automatically read analog and digital meters.
- Use the readings in operational monitoring.



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System Benefits

Advanced Multi-Sensory Analytics – Video, Sound, Smell



01 COST EFFECTIVE

Uses existing
CCTV infrastructure

No GPUs
16×↓ carbon footprint

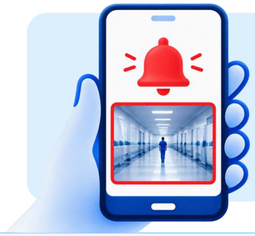
Fewer cameras
Lower-resolution cameras

90% less
Storage and network bandwidth

02 AUTONOMOUS RESPONSE

Detect › **Find** › **Respond**

When there is an event,
the system can find the appropriate responder and tell them where to go and what to do.



They do not require a large control room environment – **a smart phone becomes the control room.**

03 PRIVACY PROTECTION

All systems are privacy protected.

Operators cannot recognize people in protected streams while the system raises safety, security and efficiency alerts.

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About iOmniscient

Partnership

All iOmniscient Products run exclusively on Intel based computing hardware using OpenVINO™

- The use of Advanced AI technology that goes beyond Deep Learning enables iOmniscient to run its systems without the need for 3rd party GPUs.
- This reduces the power required by a factor of 16 – resulting in a 16-fold reduction in the carbon footprint.
- This is just one part of a multi-faceted program to help customers to implement Sustainable Systems.

www.iomni.ai

enquiries@iomni.ai

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About iOmniscient

- iOmniscient is an **Ethical AI** company.
- It offers **multi-sensory (video-sound-smell) Artificial Intelligence based analytics for Autonomous Systems.**
- It focuses on ensuring **Outcomes** for its customers.
- With **over 2 decades of experience,** iOmniscient systems have been demonstrated to be **robust,** operating with high accuracy and few false alarms specially in **complex and crowded** environments.
- By design, its systems **reduce the cost of infrastructure** required:
  - they can use existing cameras
  - they require fewer cameras with lower resolution
  - they require 90% less storage and network bandwidth
  - they are computing light and require no GPUs
  - they allow autonomous operations requiring fewer personnel to operate
- iOmniscient has implemented projects in **70 countries.**
- With over **70 international patents** many of its capabilities are unique and unavailable from any other source.





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