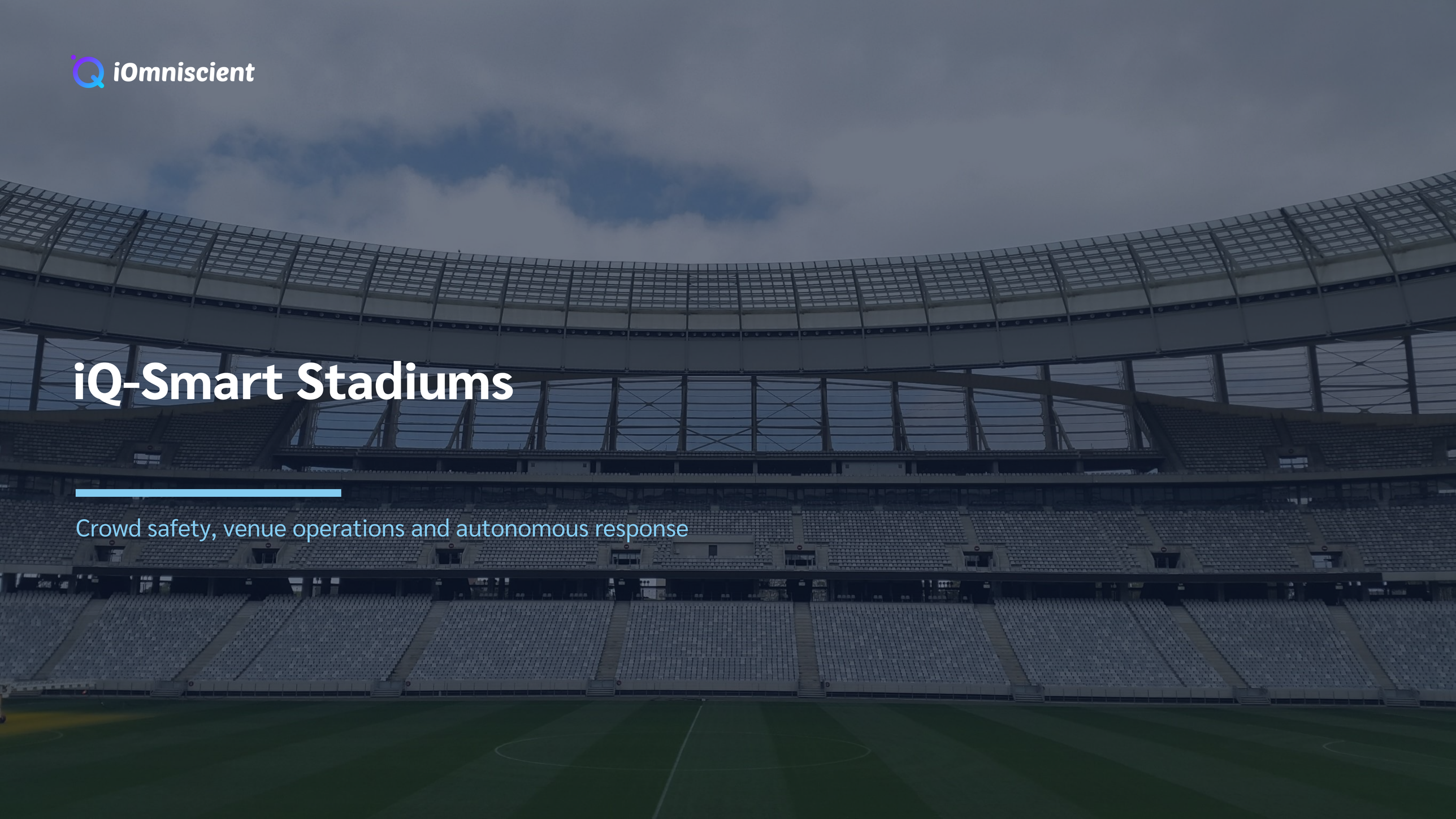


iOmniscient

iQ-Smart Stadiums

Crowd safety, venue operations and autonomous response

iOmniscient

Table Of Contents



1 Crowd Safety

2 Access and Security

3 Queue Management

4 Venue Operations

5 Responsive Infrastructure

6 About iOmniscient

Click a number and go to the page

iOmniscient

Crowd Safety

Track changes in the size and flow of event crowds

CROWD CHANGES

Detect sudden crowd gathering or dispersal.

FLOW CHANGES

Flag changes in flow that could lead to accidents.



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Incident Detection

Protect visitors across open and crowded spaces

PEOPLE

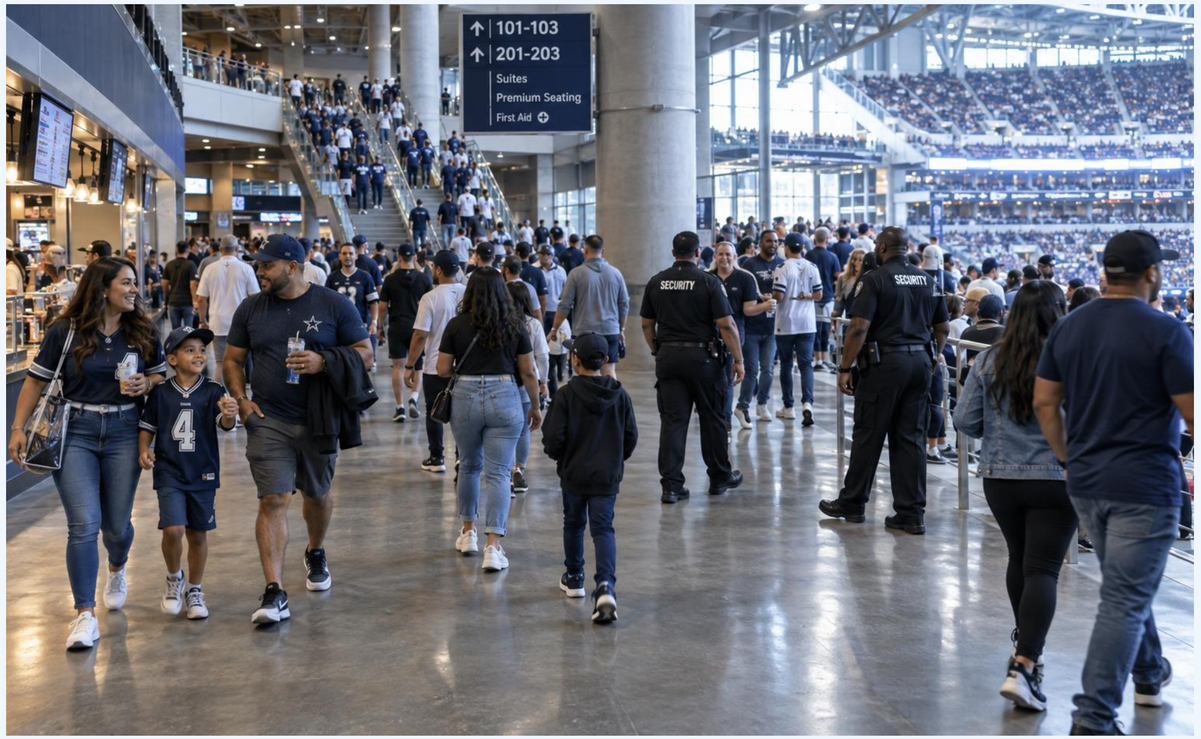
Find lost children, detect fever in a crowd
and support evacuation management.

HAZARDS

- Detect chemical smells and gas leaks
- Detect smoke and fire outdoors or under high ceilings where traditional detection sensors are ineffective.

CROWD CHANGE

Advise staff immediately when crowds gather
or disperse suddenly.



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Access and Security

Protect entrances, boundaries and restricted areas



ACCESS CONTROL

Databaseless access management protects areas closed to the public.

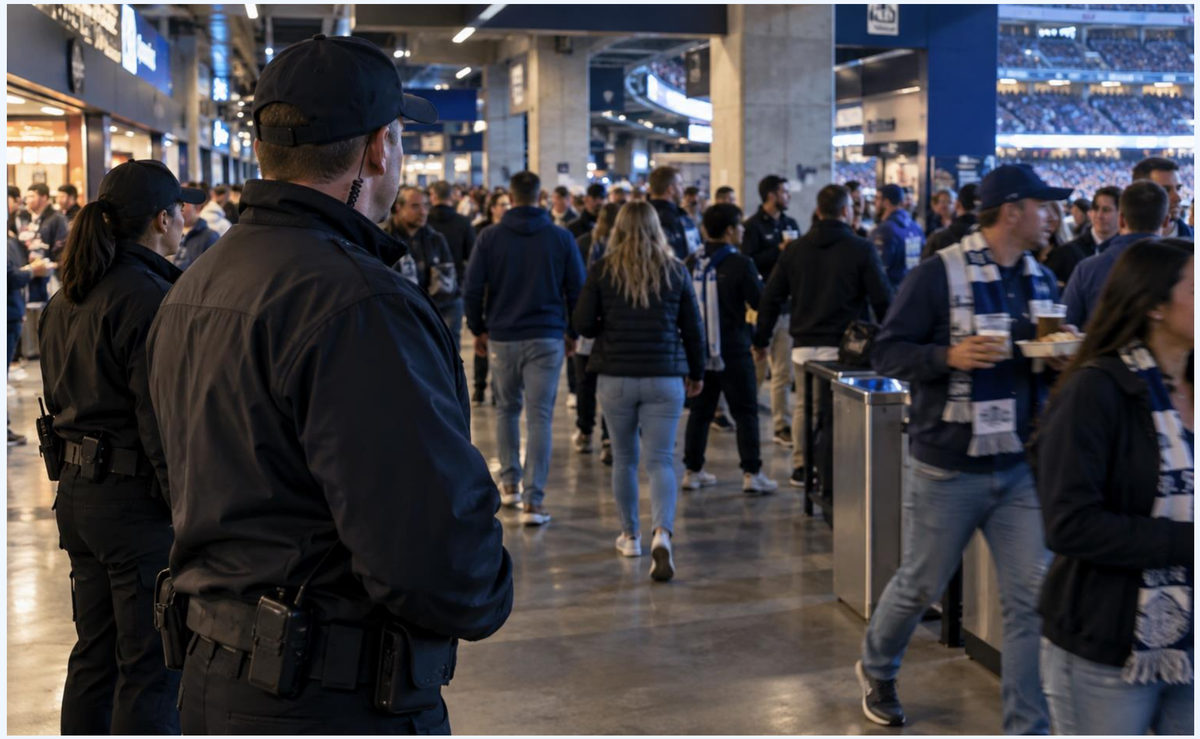
PERIMETER SECURITY

Detect perimeter intrusion and identify the intruder.

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Security in a Crowd

Recognize incidents without waiting for a report





THEFT

Detect theft in a crowd.



CONFLICT

Detect fighting.



DAMAGE

Detect vandalism and graffiti in a crowd.

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Queue Management

Use queue length and wait time to decide when to intervene

SHORTEN THE WAIT

Measure the length
of queues and time spent in them.

Use the measurements to determine
whether movement needs to be sped up.



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Venue Operations

See time, staffing and upkeep across the site

STAFF

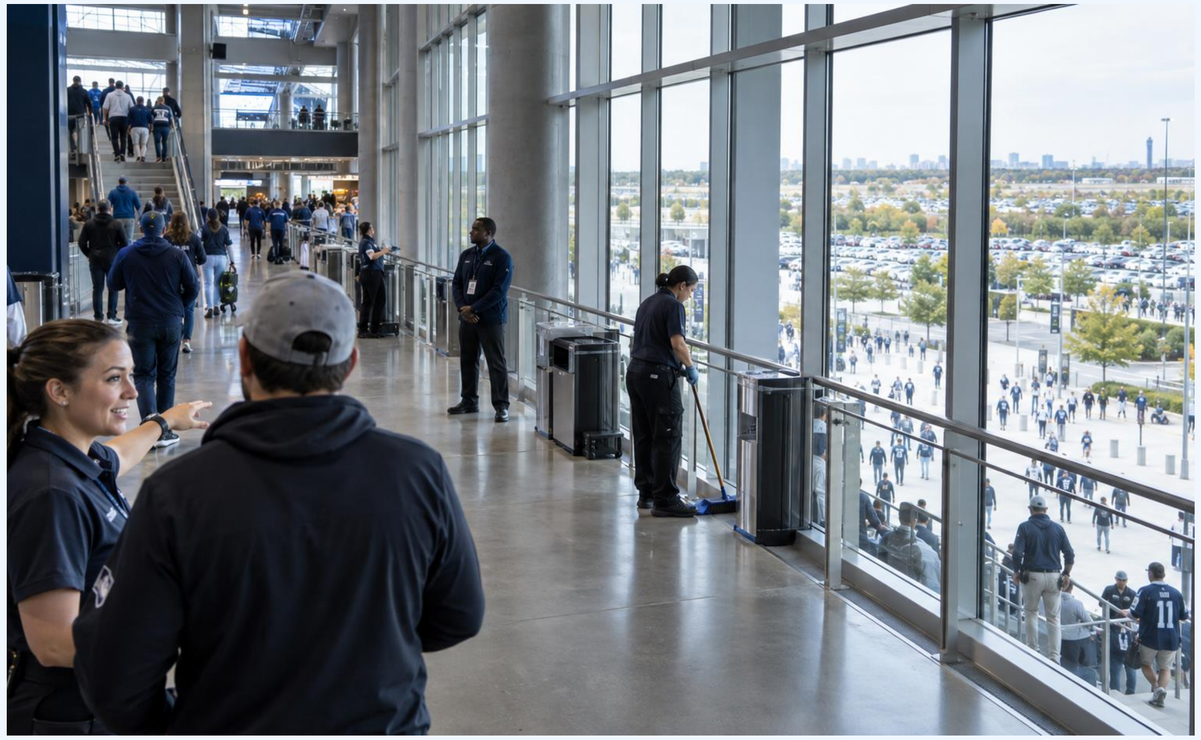
Measure time spent in areas to allocate staff; manage attendance.

ARRIVAL

Manage car parks and road traffic outside the venue.

UPKEEP

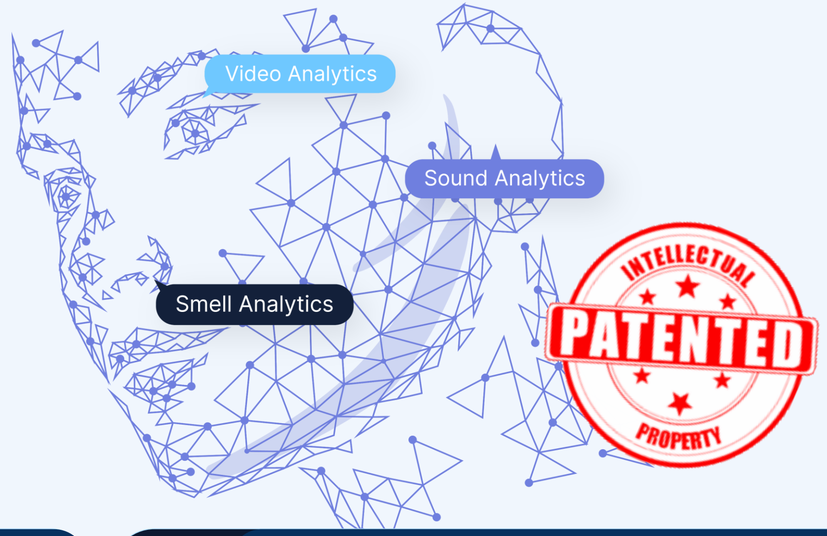
- Detect overflowing dustbins and immediately alert cleaning staff.
- Monitor washroom smells and detect objects that may damage escalator machinery.



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Responsive Infrastructure

Advanced Multi-Sensory Analytics – Video, Sound, Smell



01 COST EFFECTIVE

Uses existing
CCTV infrastructure

No GPUs
16×↓ carbon footprint

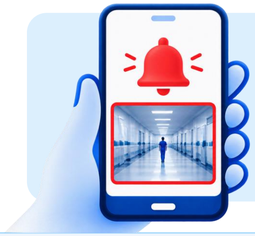
Fewer cameras
Lower-resolution cameras

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 individuals,
while the system can still detect and alert on safety, security and operational issues.

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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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