

Smart Systems for Iconic, Historic and Religious Sites

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Introduction



Every country has iconic, historic and religious sites of great cultural importance

- **iOmniscient's multi-sensory AI technology**
  - Help keep visitors and staff safe.
  - Manage these places more efficiently.

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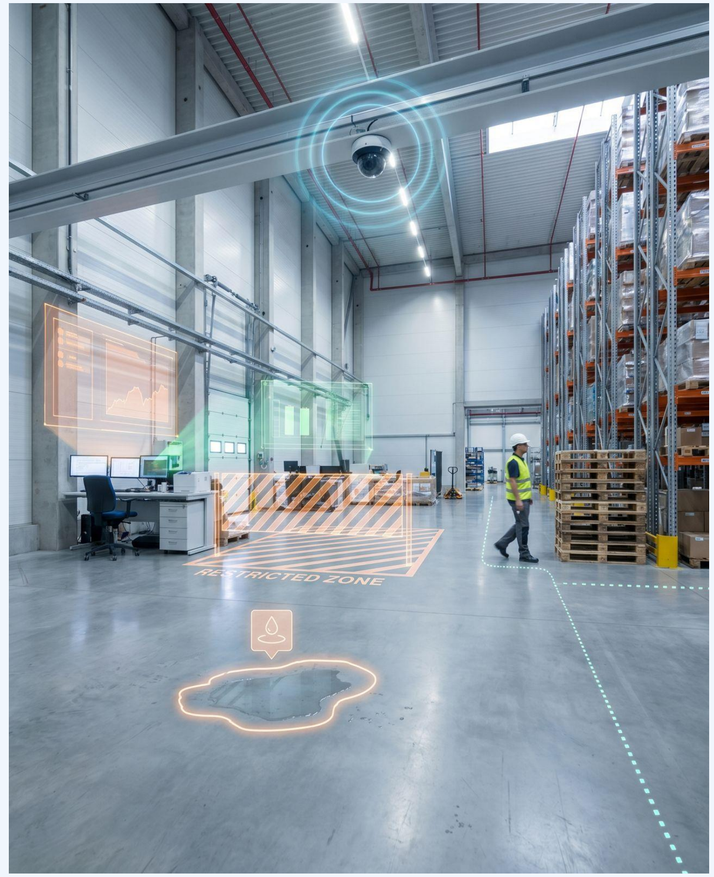
Achieving Outcomes - 1

- Safety
  - **Crowd Management**: Monitors crowd size, analyzes sudden flow changes to prevent accidents, and alerts on rapid gathering or dispersion
  - **Emergency & Hazard Detection**: Locates missing children, detects hazardous chemical/gas leaks, and identifies smoke or fire in high-ceiling or outdoor areas where traditional sensors fail
  - **Crisis & Health Response**: Facilitates efficient evacuation management and detects fevers within crowds
- Operational Efficiency
  - **Resource Allocation**: Analyzes time spent in different areas to optimize staff deployment
  - **Queue Management**: Monitors queue lengths and wait times to determine if intervention is needed to improve flow
  - **Site & Traffic Control**: Manages staff attendance, oversees car park operations, and regulates road traffic outside the site



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Achieving Outcomes - 2

Security, Maintenance and Cleanliness:

- **Security**: Manage access to restricted areas without a database, protects perimeters by identifying intruders, and detects threats in crowds such as theft, vandalism, graffiti, and fighting
- **Preventive Maintenance**: Monitors equipment like escalators to prevent damage from small objects falling into machinery
- **Cleanliness**: Detects overflowing dustbins to alert cleaning staff immediately and utilizes detection to ensure public washrooms remain clean



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Cost Effective

All iOmniscient systems are designed to be cost effective and less expensive than other systems:

- can use existing CCTV infrastructure
- require low resolution cameras
- require fewer cameras
- Don’t require GPUs for computing
- Use 90% less storage and network bandwidth
- Don’t require a large control room environment – a smart phone becomes the control room



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System Intelligence & Ethics



Upon detecting an event, the system identifies the appropriate responder and provides precise instructions on where to go and what actions to take.

<Autonomous Response>



While the system proactively raises alerts for safety, security, and operational efficiency, it is designed so that no individual can be recognized by any system operator.

<Privacy Protection>

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iOmniscient & intel

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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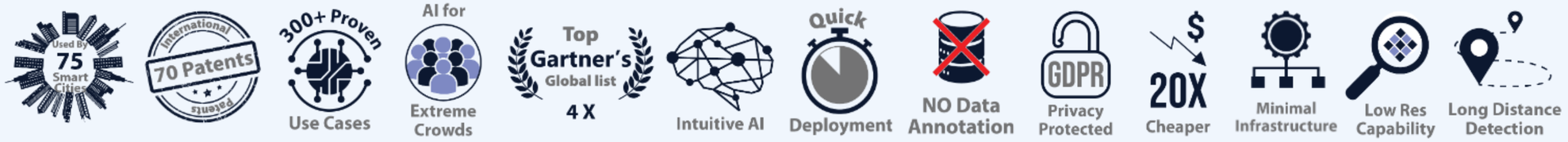
About iOmniscient

- 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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