iOmniscient

iQ-Smart Construction

Safety, access and progress across the site



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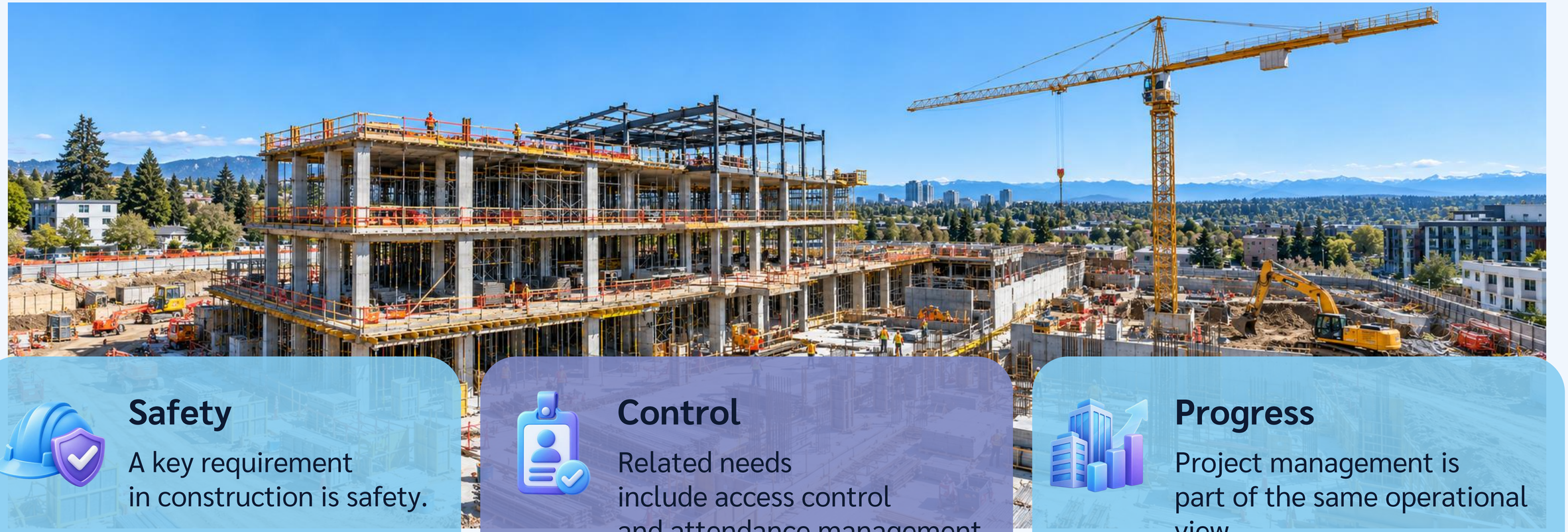
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Construction Needs Intelligence

Safety connects with access, attendance and project management



Safety

A key requirement in construction is safety.

Control

Related needs include access control and attendance management.

Progress

Project management is part of the same operational view.

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Protect Workers

Detect equipment and certification gaps



PPE detection

Ensure workers wear appropriate PPE, such as helmets and fluorescent jackets.

Training & Certification

Confirm that personnel on site have been adequately trained and are certified.

Evacuation

Support evacuation management.

Driver Match

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Detect Hazardous Conditions

Detect emerging hazards using multi-sensory analytics

SMELL

Smell detection for chemical hazards

GAS LEAKS

Detect gas leaks

SMOKE & FIRE

Detect smoke and fire

NOISE

Control noise from compressors and other heavy equipment

SPILLS

Detect spills of oil or other chemicals



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Watch Unsafe Movement

Protect people around heavy work



Slips and falls

Detect slips and falls, including falls from a height.



Crane zones

Ensure people do not walk under cranes or other unsafe locations.



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Operate the Site

Connect access, security and attendance



ACCESS

Databaseless access management for workers from multiple sub-contractors.



ATTENDANCE

Manage attendance and understand time spent in different locations.



SECURITY

Detect intrusion and determine the ID of the intruder.



PARKING

Manage the car park.

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Construction Progress & Operational Efficiency

See work advance



Project management

Construction Progress Management.

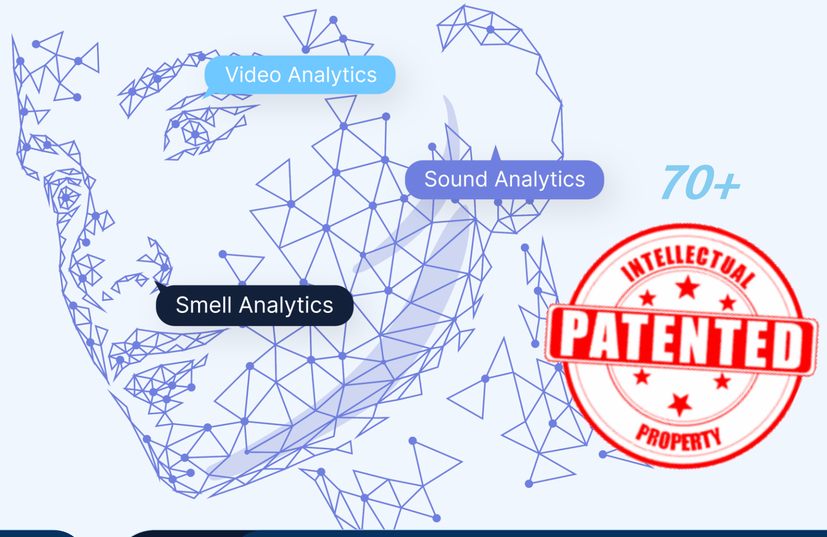
Operational efficiency

Understand time spent in different locations.

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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

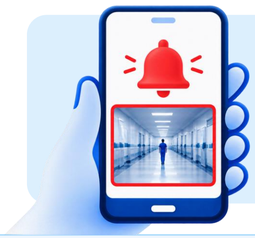
Fewer cameras
Lower-resolution cameras

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.

No person can be recognized by an operator while the system raises alerts for safety, security and operational efficiency.

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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.

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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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