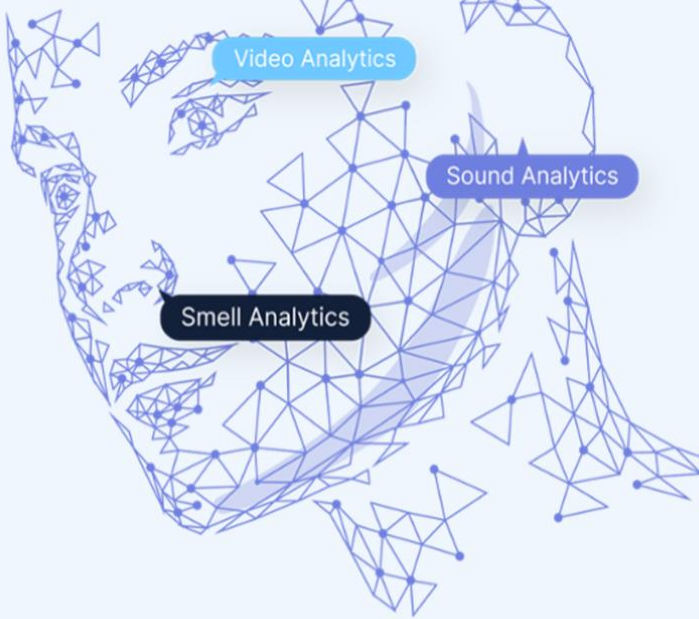


Intelligent Telcos

A portfolio of 300+ AI applications for 5G, data centers and the field

iOmniscient

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The Challenge

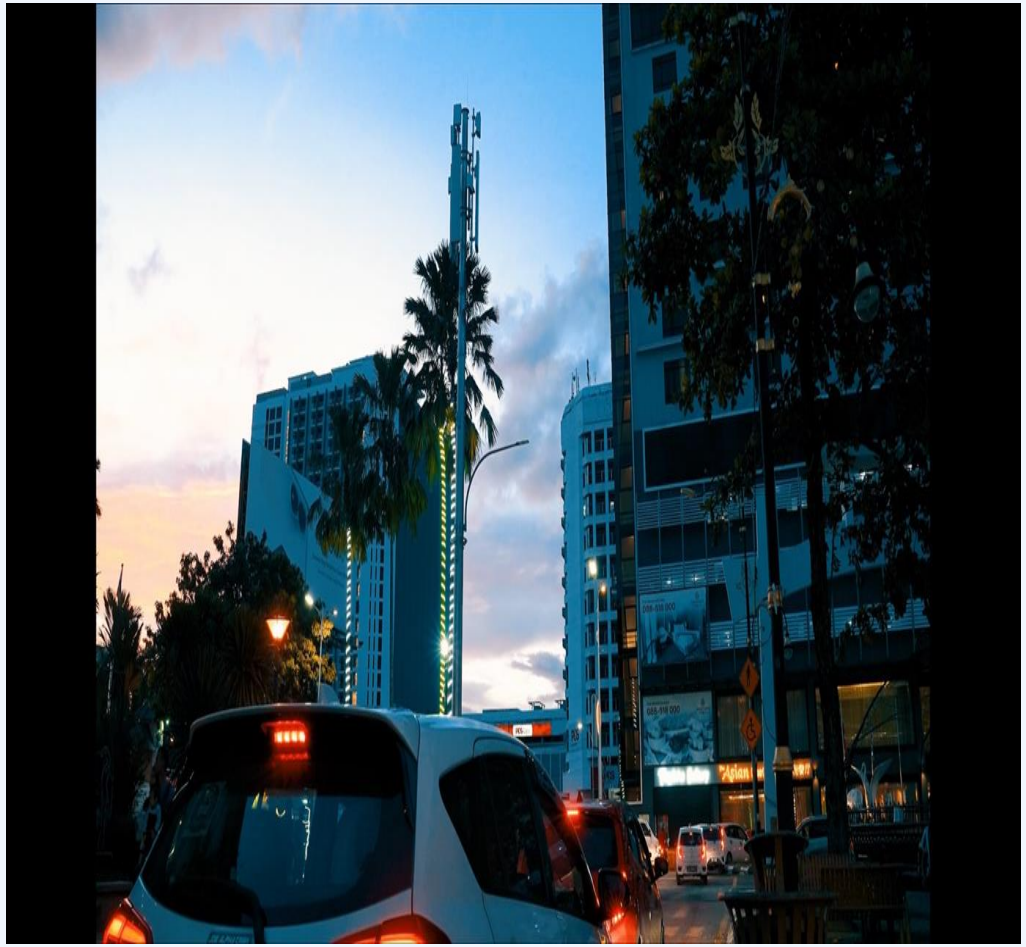
iOmniscient supports Telcos across four key areas of their business.

Current Challenges

- Thousands of towers and field sites are exposed to vandalism and damage
- Data centers need contactless, secure, evacuation-ready access
- SME and consumer customers need simple, low-cost solutions
- Telcos must roll out 5G while still supporting legacy 4G customers

Why iOmniscient?

A portfolio of 300+ advanced AI-based multi-sensory analytics applications, tailored for 30+ industries, lets Telcos act as a high-end systems integrator — while also serving SME and consumer customers with low-cost, easy-to-implement applications.



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Traditional Infrastructure Security vs Intelligent Telco

Smart compression keeps solutions running even on legacy bandwidth.

Traditional Approach

- ✕ Manual site visits to check for tower vandalism
- ✕ Card/database access for data centers
- ✕ Generic, one-size-fits-all applications
- ✕ 5G-only application design

Intelligent Telco

- ✓ Continuous automated monitoring of poles & infrastructure
- ✓ Contactless, databaseless access & evacuation management
- ✓ 300+ applications tailored to 30+ industries
- ✓ Smart compression runs solutions on low-bandwidth legacy networks

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Solution Areas

Four ways iOmniscient supports Telcos, from 5G rollout to SME support.



5G Enablement

- On-pole camera & sensor monitoring
- Traffic management on-sold as a service
- Pole & infrastructure vandalism protection



Enterprise Solutions

- Transportation, industrial, commercial & smart-city analytics
- 300+ mix-and-match applications
- Tailored for 30+ industries



SME & Consumer

- Easy to install, easy to maintain
- Low support call volume
- Low-cost application portfolio

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Key Features

Cost-effective, multi-sensory analytics for every layer of the network.



5G Infrastructure Protection

Detects vandalism and damage to poles and field infrastructure in real time.



Data Center Access

Contactless, databaseless access and evacuation management for data centers.



Systems Integrator Portfolio

300+ applications mixed and matched across 30+ industries.



Legacy Network Support

Smart compression keeps solutions running on low-bandwidth 4G networks.

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How It Works

Example: protecting a 5G pole from vandalism.

1

1. Detect

Sensors on the 5G pole detect tampering or damage as it happens.

2

2. Identify

The system recognizes the type of infrastructure threat.

3

3. Alert

The nearest field team is notified with the exact location.

4

4. Resolve

The on-sold traffic or network service keeps running without interruption.



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Why iOmniscient

The technology advantage behind every iOmniscient deployment

Cost Effective

Uses existing CCTV infrastructure with lower-resolution, fewer cameras. No GPUs required, 90% less storage & bandwidth, and no large control room — a smartphone becomes the control room.

Autonomous Response

When an event occurs, the system automatically finds the appropriate responder and tells them exactly where to go and what to do.

Privacy Protection

All iOmniscient systems are privacy protected by design. Privacy is never compromised, even while the system stays aware and raises alerts for safety issues.

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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

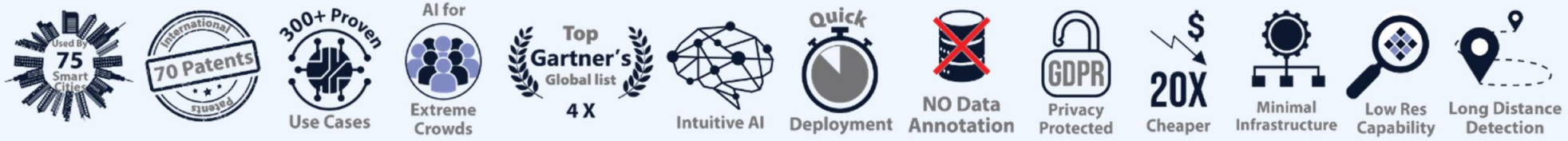
enquiries@iomni.ai

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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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