

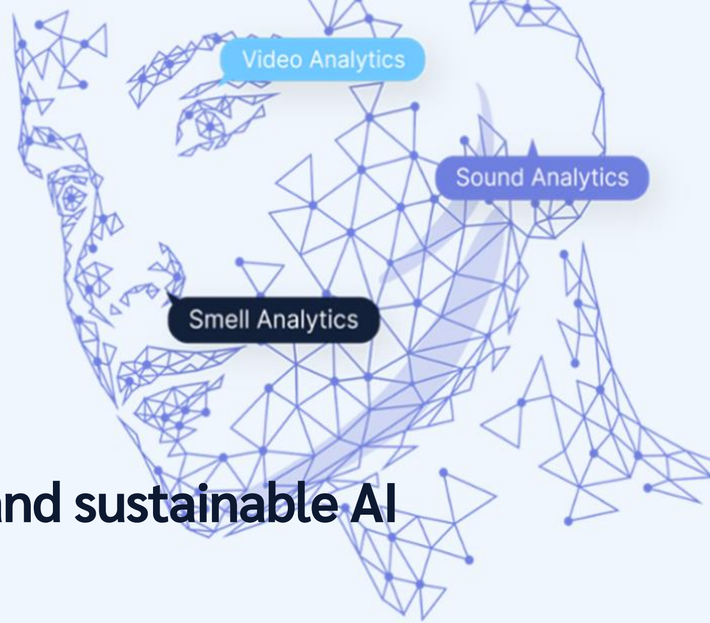
iOmniscient

# iQ-SMART WATER & WASTEWATER UTILITIES

## Multi-sensory analytics for utility operations

iOmniscient

# Table Of Contents





1 Multi-sensory operations

2 Core outcomes

3 Preventive maintenance

4 Automated meter reading

5 Asset protection

6 Affordable and sustainable AI

7 Resilience and robustness

8 Video utility

9 About iOmniscient


*Click a number and go to the page*

iOmniscient

# Multi-sensory Technology

Video, sound and smell analytics with autonomous response




## VIDEO

Use existing cameras for analytics and retain them until they fail.

## SOUND

Use microphones in modern cameras or add inexpensive microphones where needed.

## SMELL

Use the iOmniscient eNose to detect conditions ranging from gas leaks to algae growth.

**INTUITIVE AI**
No Deep Learning
No GPUs, Fast Deployment

**COMPREHENSIVE**
Autonomous Multi-Sensory
Analytics (video, sound & smell)

**SAFETY**
Encrypted Privacy
Protection

**AUTONOMOUS RESPONSE**
Reduced requirement
for a control room

iOmniscient

# Core outcomes

Applications support daily safety, logistics, operations, quality, and security

## SAFETY

PPE, chemical hazards, gas leaks, smoke, fire, noise, slips, falls, falls from height, and evacuation

## LOGISTICS

Driver match, vehicle admission, shipment tracking, and car park management



## OPERATIONS

Location-time analysis, equipment malfunction, overheating, and algae detection

## SECURITY

Databaseless access, intrusion identification, and theft prevention

iOmniscient

# Preventive maintenance

Analytics can identify camera problems and equipment conditions that need attention

## A ticket can identify the location and required action

Detect when a camera cannot see because of sabotage, movement, weather, or obstruction.

Raise an alarm for gas leaks, overheating equipment, or unusual sounds. When an event occurs, identify the nearest appropriate responder and tell them where to go and what to do.



iOmniscient

# Automated meter reading

Continuous readings reduce delays and manual recording errors at remote facilities

## Fixed cameras

An inexpensive camera can read analog and digital meters continuously and alert the responsible person when a threshold is exceeded. Equipment performance and malfunction information can be received in real time.



## iQ-Mobile

A phone camera can capture a meter, extract the relevant data, and send it to an authorized person.

iOmniscient

# Asset protection

Utilities can monitor valuable movable and fixed assets




## Chlorine cylinders, copper wire, and workshop equipment

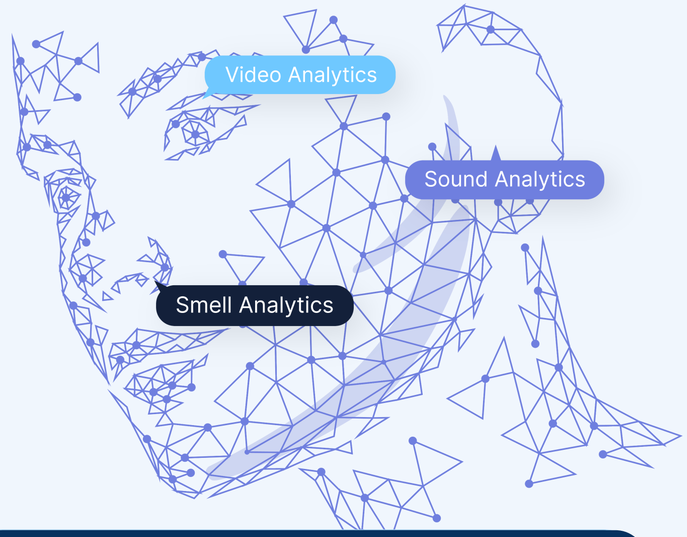
The system can detect a vehicle parked over a pit where copper wire could be removed.

Captured facial information can help police and security locate a person after a theft and alert security if the person appears on another camera.

iOmniscient

# Affordable and sustainable AI

Infrastructure reuse and computing efficiency reduce cost and energy demand




## 01 COST EFFECTIVE

**Uses existing**
CCTV infrastructure

**No GPUs**
16×↓ carbon footprint

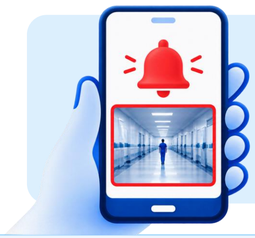
**Fewer cameras**
Lower-resolution cameras

**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

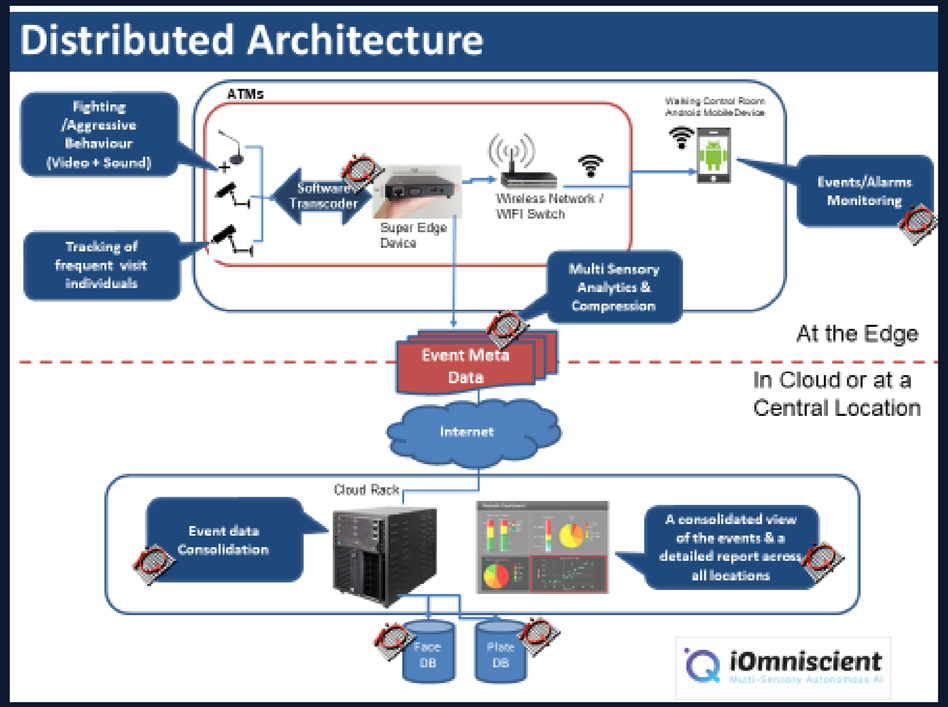
**All systems are privacy protected.**

Privacy is never compromised even though the system is aware and can raise alerts for all issues related to safety and care.

iOmniscient

# Resilience and robustness

Distributed operation keeps individual nodes working when networks or components fail




**01** A node continues to operate if the network fails

**02** A failure at one node does not affect the others

**03** Component failures trigger immediate remedial alerts

An Orange partnership supports multi-network or satellite connectivity.
A fixed-price cloud service is hosted in Australia, the USA, and Canada.

iOmniscient

# Video utility

One shared video utility can serve multiple authorized stakeholders

## Shared infrastructure

A single agency can manage the utility while security, operations, health and safety, parks, police, emergency services, and senior management receive only the information they are authorized to use.

**Each stakeholder pays only for the information they use.**



©2026 iOmniscient Corporation

# 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

©2026 iOmniscient Corporation

# 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.







iOmniscient