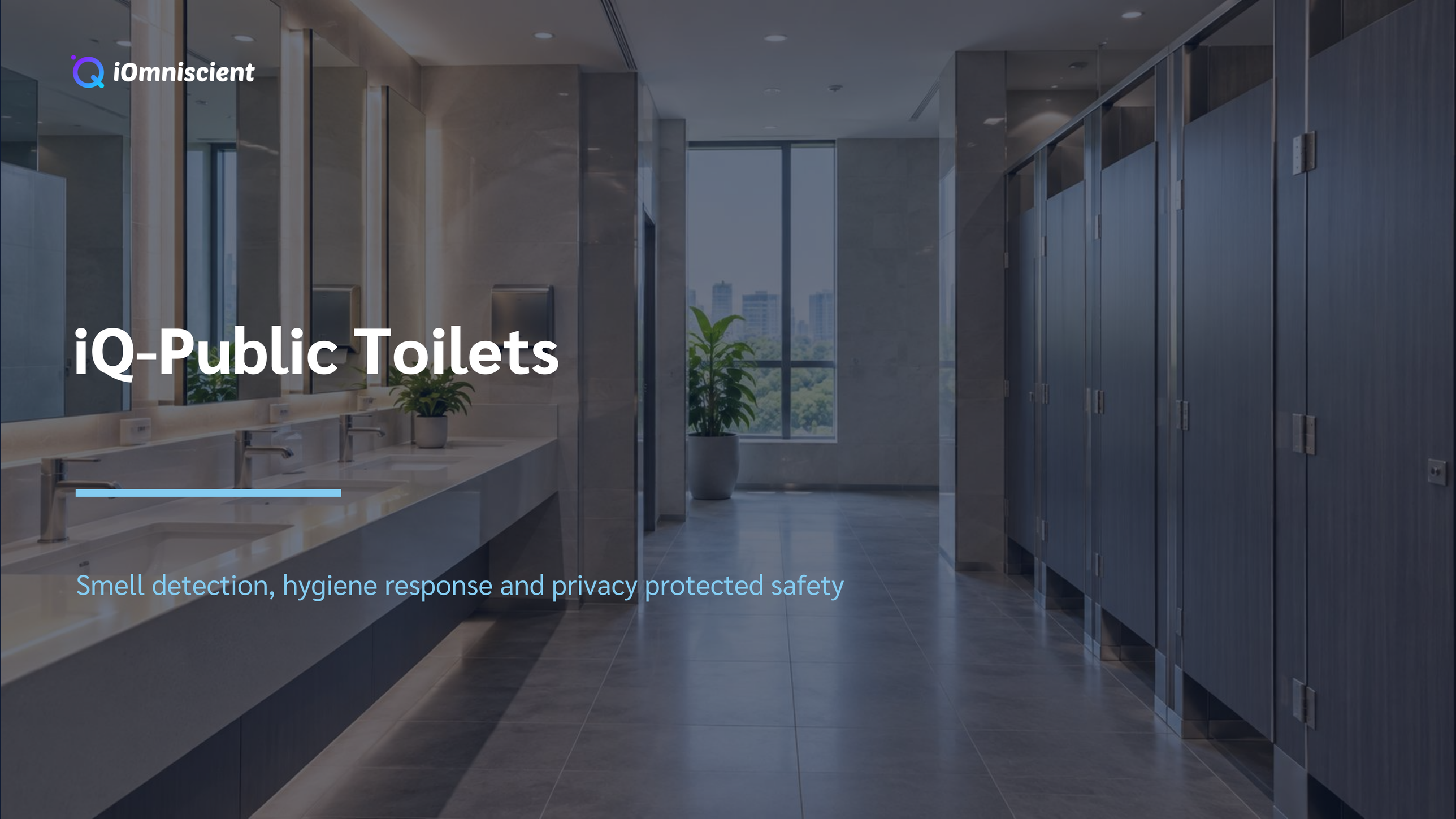


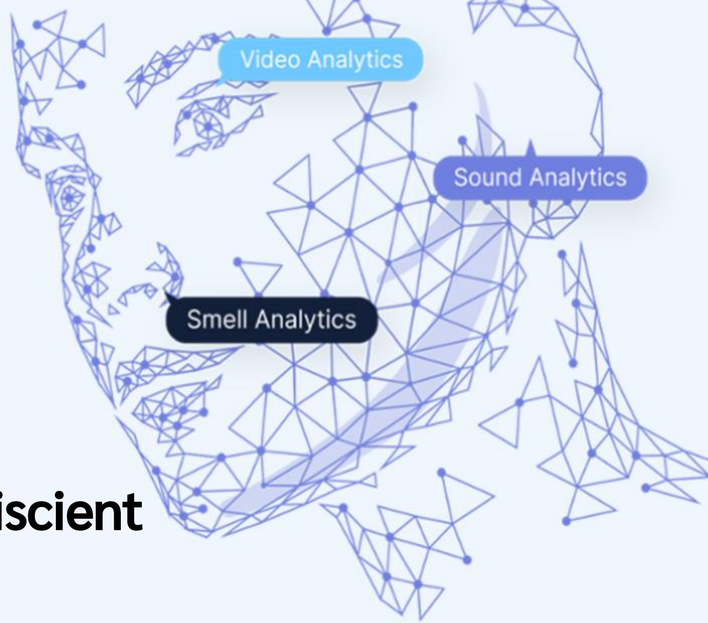
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# iQ-Public Toilets

Smell detection, hygiene response and privacy protected safety

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# Cleanliness Response

e-Nose detects foul smells between scheduled cleans

## CLEAN WHEN IT IS NEEDED

The e-Nose detects foul smells that can develop between cleaning sessions.

The system requests the nearest cleaning staff to return and clean the toilet.



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# Safety and Hygiene

Early alerts for privacy sensitive toilet incidents

## FASTER CARE IN SHARED FACILITIES

### SMOKING AND VAPING

In schools, the e-Nose can detect smoking and vaping in toilets.

### SLIPS AND FALLS

Privacy protected slip and fall detection makes authorities aware of accidents in wet toilet areas.

### CARE

Quick support can reduce stress for the person involved and liability claims for the organization.

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# Multi-sensory Analytics and Response

Video, sound and smell can describe the environment

## 01

### Sense

Multi-sensory analytics can use video, sound and smell.

## 02

### Detect

e-Nose identifies a foul smell; privacy protected analytics can identify a slip or fall.

## 03

### Notify

Cleaning staff or authorities receive an actionable alert.

## 04

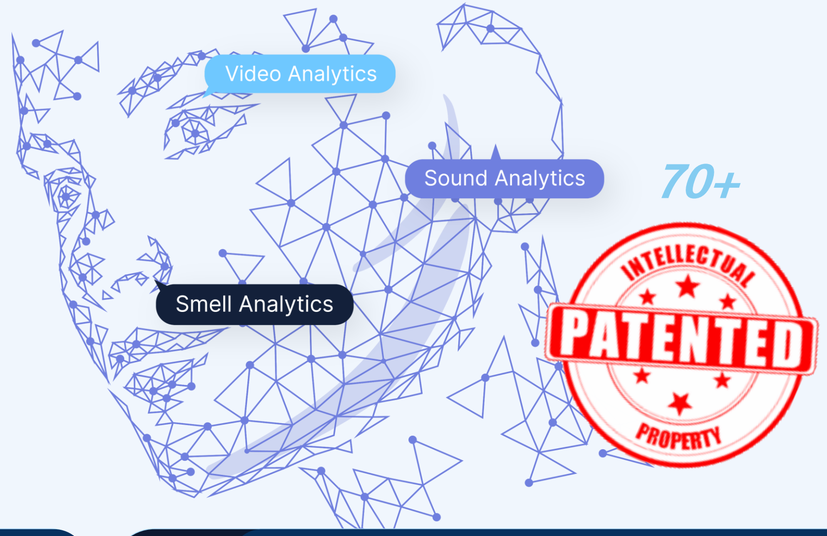
### Act

Staff return to clean or provide care and support.

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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

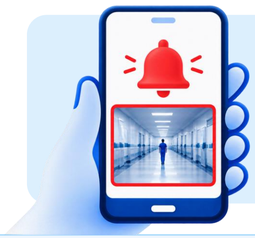
**Fewer cameras**
Lower-resolution cameras

**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.**

Privacy is never compromised even though the system is aware and can raise alerts for all 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.

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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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