iOmniscient

iQ-Aged Care

Care awareness for residents, families, carers and management



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Care Across Settings

Support at home and in care facilities

THE NEED

With aging populations in most countries and care staff in short supply, it has become increasingly important to find ways to provide good care for those still living at home who need support and those who have to live in care facilities.

THE SYSTEM

The iQ-Health System from iOmniscient addresses the needs of both these segments.

STAKEHOLDERS

Patients, staff patient’s families and management of aged care providers

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A Patient Safety Loop

Detect changes and direct the closest available help



01 Detect

Immediately detect a fall

02 Respond

Contact the nearest available responder to ensure that the patient is not left for hours in pain and without help.

03 Check

Detect if the patient has not moved for many hours. This ensures that their carer is alerted to check on them.

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Daily Care Awareness

Signals for carers and families



For the Carer

- Know immediately when the patient needs special attention.
- Determine if the Patient has been incontinent.
- Ensure Dementia patients do not wander off.
- Understand if a resident has a fever.

For the Families

- Check on patient movements.
- The system will let the carers and patients' families know how often the patient went to the toilet at night, whether they have been to the kitchen for a meal and other activities.
- Immediate alerts for accidents and abuse.
- Alert them at once by phones/email if there is a serious incident.

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Management Oversight

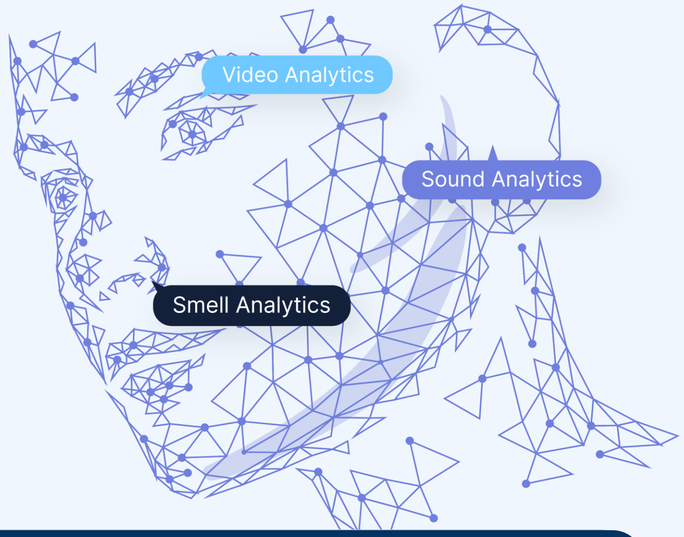
Operational signals across aged care

CARE OPERATIONS	Understand when carers arrived and left. Understand total hours worked by carers. Get statistics on patient incidents.
PROTECTION	Be aware of incidents of abuse. Detect theft of drugs from secure cabinets.
STAFF WELLBEING	Feel comfortable that their management has a mechanism for understanding burnout.

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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

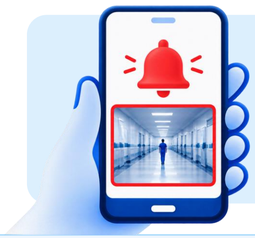
Fewer cameras
Lower-resolution cameras

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 related to safety and care.

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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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