AI-enabled Operational Intelligence

eSmart Facility Management System Solutions for Modern Facility Operations

EF Software Pte Ltd.
Service – Speed – Simplicity

Contact us: +65 6256 4914 / https://efsoftware.com.sg / sales@sg.ef-software.com

Solutions by Industry Sector

EF Software provides an intelligent facility management platform that is designed to adapt to the unique risks, standards and operational priorities of different industries.

Select your sector to explore solutions tailored to your environment.

SELECT A SECTOR

1 Grade A Commercial Buildings

2 Healthcare & Nursing Homes

3 Pharmaceutical

4 Manufacturing Semi Conductors

5 Hotels & Hospitality

6 Apartment & Condominiums

7 Transportation (MRO)

8 Data Centres

9 Education

Solutions by Operational Responsibility

SELECT A USE CASE

1 Grade A Commercial Buildings

- **1.1 M&E**
- **1.2 Environmental Services**
- **1.3 Security**
- **1.4 Pests**
- **1.5 Landscape**

Each department manages different risks, service standards and performance outcomes within the industry.

Select your Operational Responsibility or a Case Study to explore solutions that are designed for how your team works.

Grade A Commercial Case Studies

SELECT A CASE STUDY

- eSmart Feedback with IoT sensors — PARAGON
- eSmart Feedback with IoT sensors; eInspection — Ministry of Sustainability and the Environment, Singapore
- iSnapReport; eInspection — OCBC Bank
- iSnapReport; eTaskConnect with IoT Sensors — CapitaGreen, CapitaSky
- eInspection; eTMS — Capital Tower
- iSnapReport; eTMS — mapletree, Marina One
- eInspection; ePeriodic — One Raffles Quay, Marina Bay Financial Centre, One Raffles Place
- eSmart Feedback with IoT sensors; eTaskConnect with IoT Sensors — Suntec City, CITYLINK
- ePest; Security — Galaxis, Raffles City, The Atrium @ Orchard

Grade A
Commercial Buildings

Transforming Facility Management into Measurable Performance

Transition from manual labour-intensive and reactive operations to a data-driven, accountable and automated operating model – where performance is visible, measurable, and optimised in real time.

By combining Artificial Intelligence (AI), Internet of Things (IoT) sensors, robotics, automation, digitalisation, and workforce intelligence, management gains continuous oversight of facility conditions, KPIs, Environment, Social and Governance (ESG) compliance, manpower deployment, and service quality.

The Challenge

Most facilities operate with limited real-time visibility. Issues are discovered late, manpower is deployed evenly rather than intelligently, and performance is often measured after problems occur.

Strategic Benefits

Operations shift from reactive responses to predictive preventions, prioritising regular inspections. Issues are detected earlier, tasks are validated digitally, and resources are deployed based on actual demand rather than assumptions.

Proven Business Outcomes

Organisations typically achieve:

- 20–30% reduction in manpower = reduction in operational cost
- 40–50% improvement in workforce productivity
- 30–50% faster response times to environmental triggers
- 10–15% reduction in energy consumption

Leveraging on technology allows for higher service quality, lower operational risk and improved ROI, all supported by auditable digital records.

Systems Powering Your Department

Each system addresses a specific operational challenge while working together as a single, intelligent platform. Individually powerful, collectively transformative.

M&E and Intelligent Asset Management

Move beyond reactive maintenance. Intelligent asset monitoring detects issues early, prioritises critical faults and prevents downtime before it impacts operations.

iSnapReport with AI

AI-enabled iSnapReport allows teams to visually capture defects on site, automatically categorise issues and trigger corrective actions – reducing downtime and improving asset reliability.

eTaskConnect with IoT Sensors

A central task and work order system integrated with IoT sensors that automatically detects issues, triggers tasks and validates completion – ensuring work is executed on time, at the right location, with proof.

eTMS

A verified attendance and workforce tracking system that uses image capture, GPS and QR or RFID – improving attendance accuracy, productivity visibility and manpower control.

AI Analytics Engine

An intelligence that analyses inspection, task and sensor data to prioritise issues, optimise manpower deployment and reduce operational wastage.

Management Dashboard

A real-time operational view showing technician deployment across locations, last recorded activity and open maintenance issues – enabling faster coordination, prioritised response and improved asset uptime.

Environmental Services

Cleaning operations shift from fixed schedules to usage-driven execution. AI analyses traffic, inspection results and feedback trends to dynamically adjust cleaning frequency – improving productivity without increasing manpower.

iSnapReport with AI

AI-powered iSnapReport captures cleanliness conditions visually, flags deviations in cleanliness or mess automatically, and supports faster rectification – improving productivity while maintaining service quality.

eInspection

Cleaning operations shift from fixed schedules to usage-driven execution. AI analyses traffic, inspection results and feedback trends to dynamically adjust cleaning frequency – improving productivity without increasing manpower.

ePeriodic

An adaptive scheduling engine that automatically increases or reduces service frequency based on traffic, severity and risk – maximising productivity without increasing headcount.

eSmart Feedback with IoT Sensors

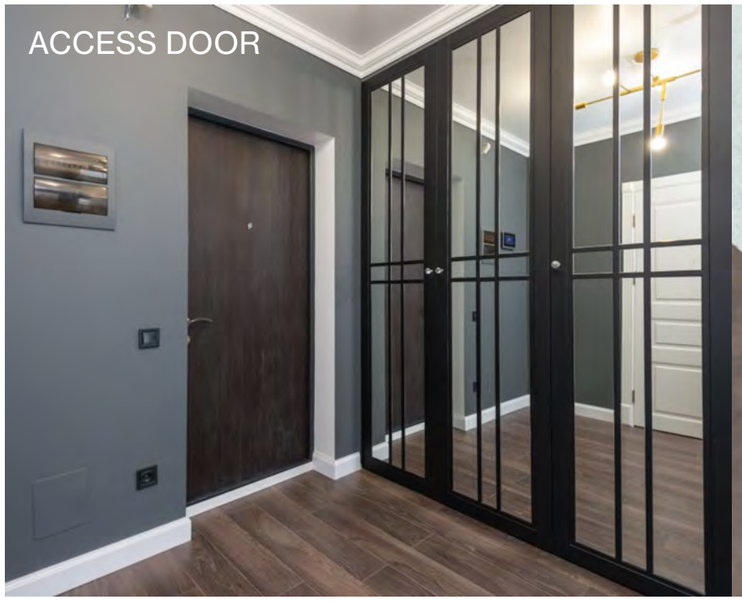
A real-time service feedback platform integrated with IoT sensors that correlates user experience with actual facility conditions – enabling faster response, objective validation and smarter service decisions.

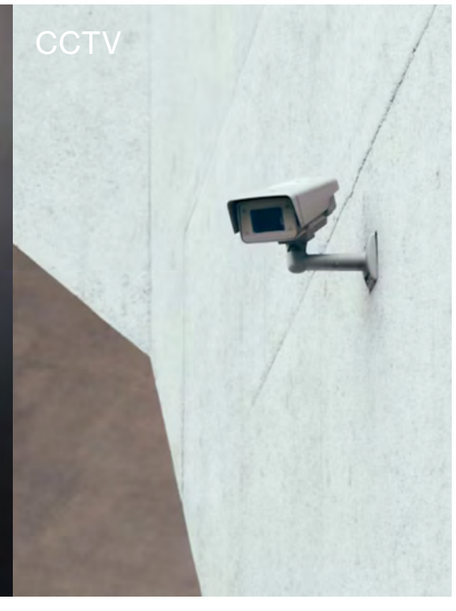
eTMS

A verified attendance and workforce tracking system using image capture, GPS and QR or RFID – improving attendance accuracy, employee productivity visibility and manpower control.

Security & Risk Management

Intelligent monitoring that reduces manual oversight by detecting anomalies early, manages risk proactively and safeguards people, assets and operations in real time.





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With AI-enabled iSnapReport, incidents are visually recorded, classified and escalated in real time – with AI detecting issues captured in the image and enhancing response readiness and risk visibility.

eInspection

A digital inspection system that enhances patrolling and standardises security checks across all security staff, validating patrol execution and producing time-stamped, audit-ready records.

eTMS (Security Workforce Management)

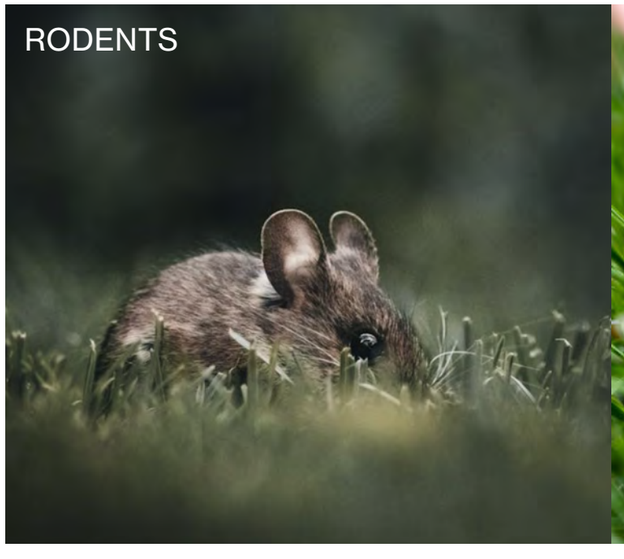
A workforce and shift management system that ensures security guards are deployed as planned, supports attendance validation and improves coverage across locations.

Security Dashboard

A real-time command view showing patrol status, incidents and workforce coverage by location – supporting faster decision-making and operational assurance.

Pest Management & Compliance Control

Effective pest management requires early detection, structured inspections and auditable compliance. The systems enable teams to identify risks early, validate treatments and reduce recurrence through digital inspections and data-driven insights.



iSnapReport with AI

AI-driven iSnapReport enables staff and technicians to visually document and allow AI to classify any suspected pest activity, identify trends and support regulatory reporting to specialists – further reducing infestation risk and audit exposure.

ePest

A central pest management platform that manages inspections, treatments, trends and compliance records – providing a single source of truth for pest operations.

eTMS

A verified attendance and workforce tracking system that uses image capture, GPS and QR or RFID – improving attendance accuracy, productivity visibility and manpower control.

Sensors

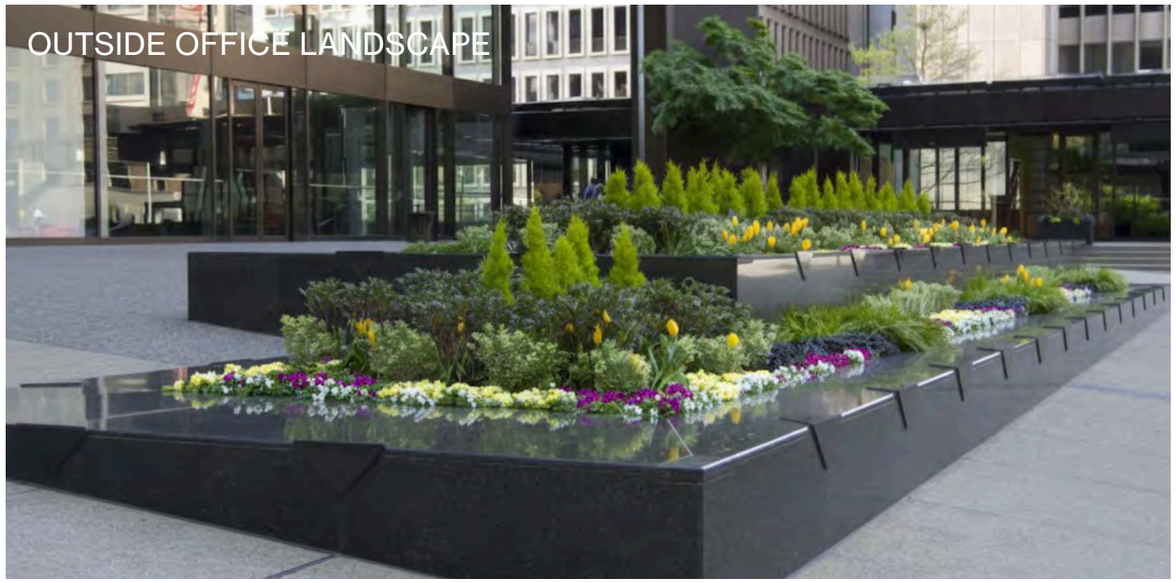
Discrete sensors that detect rodent activity in high-risk zones 24/7, even in blind spots where they are hard to detect. These sensors provide early alerts before infestations become visible or service complaints arise.

Management Dashboard

A real-time operational view showing technician deployment across locations, last recorded activity and asset status recorded activity – providing operational visibility, faster coordination and improved response control.

Landscape

Indoor landscaping allows for decorative plants to be grown in controlled environments, allowing for a pop of vibrance in shared spaces. Intelligent technologies can help the upkeep of these plants by monitoring water quality, tracking plant health (humidity, soil moisture, nutrient levels) and providing real-time alerts for imbalances.



iSnapReport with AI

AI-enabled iSnapReport, helps teams quickly identify hazards that may affect the plants and escalate them to technicians, reducing downtime and improving safety across parks, gardens, and green spaces.

eHydro

eHydro intelligently manages plant hydration by monitoring water levels, scheduling irrigation, and providing checklists for plant care, detecting pests and alerting teams to potential risks, ensuring healthier plants and optimising water usage across large areas, prevents over or under-watering.

Technicians Dashboard

The Technicians Dashboard delivers a real-time command centre for landscape teams – managing and tracking plant water levels, irrigation schedules, and pest activity. It empowers technicians with actionable insights for faster decision-making and operational assurance.

Case Studies

Case Study 1.
Marina Bay Financial Centre (MBFC)

Systems Used

- iSnapReport
- eInspection
- eTMS
- ePeriodic
- eSmart Feedback with IoT sensors
- eTaskConnect

Challenges

1. Limited Visibility and Compliance Risks
2. Labor-Intensive Facility Operations
3. Budget Justification & ROI Visibility
4. Reactive vs. Proactive Management

How We Help Improve

Track and meet KPIs and other assigned goals, such as ESG

Manpower reassigned to high-impact tasks.

Prove their ROI, analyse and use their data to justify budgets.

Shift to proactive management that uses data and workflows.

Results, Impact & Innovation

RESULTS	IMPACT
~100 - 200 man hours saved per month	~2 FTE worth of effort and efficiency

INNOVATION


Ammonia Sensor


Traffic Sensor


Hand Soap / Toilet Paper Sensor


Bin Sensor


LoRaWAN Gateway

Use of IoT Sensors to track the condition of deployed area, leading to improved response times and service conditions.

Case Study 2. Suntec City

Systems Used

- iSnapReport
- eInspection
- eTMS
- ePeriodic
- eSmart Feedback with IoT sensors
- eTaskConnect

Challenges

1. Shift from Input-Based to Output Based
2. Energy Management & Sustainability
3. Compliance and Accountability
4. Maintenance & Equipment Reliability

How We Help Improve

Enhance productivity adjusting deployment to demand and moving manpower to key areas.

Forecast demand and optimise energy consumption to necessary systems.

Online records are kept and checked during inspections.

Predictive maintenance allows for equipment to be monitored and repaired before failure.

Results, Impact & Innovation

RESULTS	IMPACT
~150 - 250 man hours saved per month	~5 FTE worth of effort and efficiency

INNOVATION


Ammonia Sensor


Traffic Sensor


Hand Soap / Toilet Paper Sensor


Bin Sensor


LoRaWAN Gateway

IoT to monitor and automate energy systems in real time, significantly cutting consumption. Sensors track occupancy, temperature, and usage patterns, while connected devices adjust operations dynamically.

Solutions by Healthcare Type

SELECT A USE CASE

Hospitals may share a common range of services, but public hospitals, private hospitals and polyclinics remain distinct in their approaches to procedures and in the outcomes they deliver.

Select your Sector of Facility type, or a Case Study to explore solutions that are better suited to how your team works.

2 Healthcare & Nursing Homes

2.1 M&E

2.2 Environmental Services

2.3 General Services

2.4 Security

2.5 Pests

2.6 Landscape

Healthcare Case Studies

SELECT A CASE STUDY

iSnapReport with Robotics · eTMS · eInspection · ePeriodic · eSmart Feedback with IoT sensors · eAudit · eCallConnect with Robotics · eReporting · eCurtain · eWaste · ePorter · eTaskConnect · eHydro · eStaffPortal · ePest · eLinen

National Neuroscience Institute, SingHealth

Singapore General Hospital, SingHealth

eTMS · eInspection · eSmart Feedback with IoT sensors · eStaffPortal · eTaskConnect · eAudit

National Cancer Centre Singapore, SingHealth

National Dental Centre Singapore, SingHealth

Singapore National Eye Centre, SingHealth

National Heart Centre Singapore, SingHealth

eInspection · eTMS · ePeriodic · eSmart Feedback with IoT sensors · eLinen · eAudit

Woodlands Health, NHG Health

Institute of Mental Health, National Healthcare Group

eInspection · eTMS · eSmart Feedback with IoT sensors · eLinen Tracking System · eAudit · ePorter · eCurtain

Jurong Community Hospital

National University Hospital

Healthcare Case Studies

SELECT A CASE STUDY

eTaskConnect

eTMS

National University Polyclinics

· Bukit Batok · Bukit Panjang · Choa Chu Kang · Clementi · Jurong · Pioneer · Queenstown · Tengah

eInspection

eTMS

ePeriodic

eSmart Feedback with IoT sensors

eTaskConnect

eAudit

NATIONAL SKIN CENTRE
National Healthcare Group

Tan Tock Seng HOSPITAL
National Healthcare Group

eTMS

eTaskConnect

Khoo Teck Puat Hospital
National Healthcare Group

Yishun Community Hospital
National Healthcare Group

eTMS

eInspection

eSmart Feedback with IoT sensors

eAudit

ePorter

eCurtain

eLinen

RafflesHospital

FARRER PARK HOSPITAL

eInspection

eTMS

ePeriodic

ePorter

Mount Elizabeth™ NOVENA

Mount Elizabeth ORCHARD

Healthcare & Nursing Home

Removing Healthcare Facility Strains To Focus On Patient Outcomes

Delivering exceptional patient outcomes while maintaining operational excellence and regulatory compliance is one of the most demanding responsibilities that the healthcare industry faces. Concerns can also be compounded when patient care isn't a one-time intervention.

The transformation of facilities with the use of smart devices like the IoT Sensors, robotics and automation can help enhance clinical environments, allowing management to gain continuous oversight of facility conditions, patient environments, ESG compliance, manpower deployment, and care service standards.

The Challenge

With the pressure of operational excellence, healthcare facilities often face rising operational costs, workforce shortages and compliance with strict regulations. All of which can impact the patient and staff experience.

Strategic Benefits

Operations shift from reactive responses to predictive preventions, prioritising regular inspections. Issues are detected earlier, tasks are validated digitally, and resources are deployed based on actual demand rather than assumptions. Ensuring safer environments, higher service quality, and improved staff efficiency.

Proven Business Outcomes

Organisations typically achieve:

- 25–35% reduction in manpower = reduction in operational cost
- 30% improvement in hospital cleanliness and safety ratings
- 30–45% reduction in unplanned downtime
- 40–55% faster response times to environmental triggers

Leveraging on technology allows for higher service quality, lower operational risk and improved ROI, all supported by auditable digital records.

Systems Powering your Department

Each system addresses a specific operational challenge while working together as a single, intelligent platform. Individually powerful, collectively transformative.

M&E and Intelligent Asset Management

Move beyond reactive maintenance. Intelligent asset monitoring detects issues early, prioritises critical faults and prevents downtime before it impacts operations.

iSnapReport with AI
AI-enabled iSnapReport allows teams to visually capture defects on site, automatically categorise issues and trigger corrective actions – reducing downtime and improving asset reliability.

eTaskConnect with IoT Sensors
A central task and work order system integrated with IoT sensors that automatically detects issues, triggers tasks and validates completion – ensuring work is executed on time, at the right location, with proof.

eTMS
A verified attendance and workforce tracking system that uses image capture, GPS and QR or RFID – improving attendance accuracy, productivity visibility and manpower control.

AI Analytics Engine
An intelligence that analyses inspection, task and sensor data to prioritise issues, optimise manpower deployment and reduce operational wastage.

Management Dashboard
A real-time operational view showing technician deployment across locations, last recorded activity and open maintenance issues – enabling faster coordination, prioritised response and improved asset uptime.

Environmental Services

Cleaning operations shift from fixed schedules to usage-driven execution. AI analyses traffic, inspection results and feedback trends to dynamically adjust cleaning frequency – improving productivity without increasing manpower.

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eInspection

Cleaning operations shift from fixed schedules to usage-driven execution. AI analyses traffic, inspection results and feedback trends to dynamically adjust cleaning frequency – improving productivity without increasing manpower.

eCallConnect with Robotics

Works together with iSnapReport where information of the location of a spill or mess is taken and sent to eCallConnect. The system schedules the task in and the robot heads to the mapped location of the spill, freeing valuable manpower for higher impact tasks.

eWaste

Turns waste disposal into a measurable, accountable, and sustainable process. By recording the weight and type of waste and providing real-time data that helps managers understand waste generation patterns and areas for improvement.

eSmart Feedback with IoT Sensors

A real-time service feedback platform integrated with IoT sensors that correlates user experience with actual facility conditions – enabling faster response, objective validation and smarter service decisions.

eLinen

eLinen tags linen items with RFIDs, allowing for the tracking and quick identification of items, preventing shortages by tracking linen distribution across wards.

General Services

A variety of other essential services are required to help healthcare run smoothly in the facility. With the constant manpower shortage present in healthcare facilities, these systems are integral in allowing smooth operations across different departments.

ePorter

Hospitals often require porters to help in the delivery of equipment, documents and lab samples – all while having strict regulations in the issuing the delivery orders. Throughout these processes, ePorter grants oversight of the delivery and eases the delivery procedures with digital forms and the monitoring, tracking and assigning of porter tasks.

eInventory

Registers item stock and allows for demand-based replenishment of medical supplies, consumables and equipment. Simplifies the ordering process of medical supplies from the main warehouse / storage to specific pharmacies and creates logged transactions.

eTMS

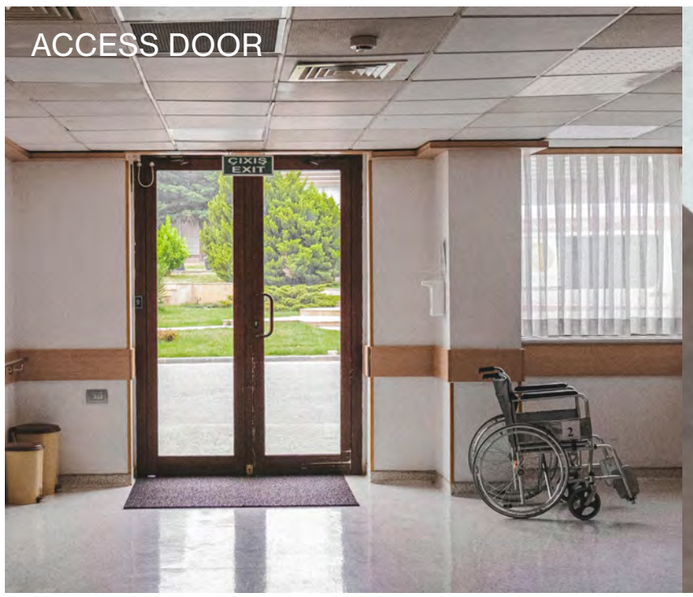
A verified attendance tracking system that uses image capture, GPS and QR or RFID – improving attendance accuracy, productivity visibility and manpower control. The system enables rostering and flags if any deviation exists.

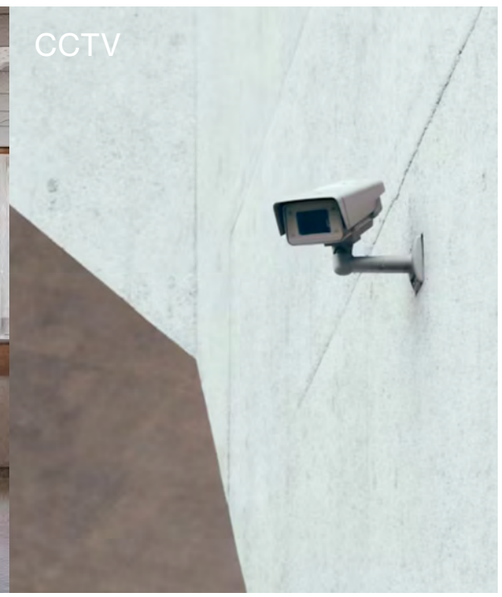
Robotics

Third-party robotics can be integrated into the systems, reducing the manpower load on menial tasks such as routine cleaning and simple portering, allowing for employees to do higher-impact tasks.

Security & Risk Management

Intelligent monitoring that reduces manual oversight by detecting anomalies early, manages risk proactively and safeguards people, assets and operations in real time.





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eInspection

A digital inspection system that enhances patrolling and standardises security checks across all security staff, validating patrol execution and producing time-stamped, audit-ready records.

eTMS (Security Workforce Management)

A workforce and shift management system that ensures security is deployed as planned, supporting attendance validation and improving manpower coverage across locations.

Security Dashboard

A real-time command view showing patrol status, incidents and workforce coverage by location – supporting faster decision-making and operational assurance.

Pest Management & Compliance Control

Effective pest management requires early detection, structured inspections and auditable compliance. The systems enable teams to identify risks early, validate treatments and reduce recurrence through digital inspections and data-driven insights.

iSnapReport with AI

AI-driven iSnapReport enables staff and technicians to visually document and allow AI to classify any suspected pest activity, identify trends and support regulatory reporting to specialists – further reducing infestation risk and audit exposure.

ePest

A central pest management platform that manages inspections, treatments, trends and compliance records – providing insight into any pests that may enter the premises, tracking if any pest control measures has been put into place, and the effectiveness of the measures in place.

eTMS

A verified attendance and workforce tracking system that uses image capture, GPS and QR or RFID – improving attendance accuracy, productivity visibility and manpower control.

Sensors

Discrete sensors that detect rodent activity in high-risk zones 24/7, even in blind spots where they are hard to detect. These sensors provide early alerts before infestations become visible or service complaints arise.

Management Dashboard

A real-time operational view showing technician deployment across locations, last recorded activity and asset status recorded activity – providing operational visibility, faster coordination and improved response control.

Landscape

Create a welcoming atmosphere that alleviates mental fatigue for patients and staff through proper maintenance of indoor landscaping. Intelligent technologies can help the upkeep of plants by monitoring water quality, tracking plant health (humidity, soil moisture, nutrient levels) and providing real-time alerts for imbalances. Allowing for more comfort, less stress, and a healthier space.

iSnapReport with AI

AI-enabled iSnapReport, helps teams quickly identify hazards that may affect the plants and escalate them to technicians, reducing downtime and improving safety across parks, gardens, and green spaces.

eHydro

eHydro intelligently manages plant hydration by monitoring water levels, scheduling irrigation, and providing checklists for plant care, detecting pests and alerting teams to potential risks, ensuring healthier plants and optimising water usage across large areas, prevents over or under-watering.

Technicians Dashboard

The Technicians Dashboard delivers a real-time command centre for landscape teams – managing and tracking plant water levels, irrigation schedules, and pest activity. It empowers technicians with actionable insights for faster decision-making and operational assurance.

Case Study

Case Study 1
SGH

Singapore General Hospital
SingHealth

Systems Used

iSnapReport with Robotics · eTMS · eInspection · ePeriodic · eSmart Feedback with IoT sensors · eAudit · eCurtain · eLinen · eReporting · eWaste · ePorter · eTaskConnect · eHydro · eStaffPortal · ePest · eCallConnect with Robotics

Challenges

1. Lack of Manpower
2. Budget Justification
3. Energy Management
4. Limited Visibility and Compliance Risks

How We Help Improve

Smart solutions offload manpower from repetitive workload, allowing manpower optimisation

Prove their ROI, analyse and use their data to justify budgets.

Forecast demand and optimise energy consumption to necessary systems.

Track and meet KPIs and other assigned goals, such as ESG

Results, Impact & Innovation

RESULTS	IMPACT
~150 - 250 man hours saved per month	~3 - 3.5 FTE worth of effort and efficiency

INNOVATION


Ammonia Sensor


Traffic Sensor


Fall Detector


Rodent Sensor


LoRaWAN Gateway


Robots

IoT Sensors help track and monitor traffic flow and well-being of the people within the healthcare facility. They cut down response time should there be any emergency, while allowing for the visualisation of traffic trends and the optimisation of energy and resource.

Case Study 2
NUP

National University Polyclinics

· Bukit Batok · Bukit Panjang · Choa Chu Kang · Clementi · Jurong · Pioneer · Queenstown · Tengah

Systems Used

eTaskConnect · eTMS

Challenges

1. Lack of Manpower
2. Shift from Input-Based to Output-Based
3. Energy Management
4. Compliance and Accountability

How We Help Improve

Smart solutions offload manpower from repetitive workload, allowing manpower optimisation

Output-based shift focuses on results delivered ensuring that uptime and efficiency are met

Allow inefficiencies to be rooted out with the monitoring of high consumption zones

Audit-ready records are kept and checked during inspections.

Results, Impact & Innovation

RESULTS	IMPACT
~150 - 250 man hours saved per month	~3 - 3.5 FTE worth of effort and efficiency

INNOVATION


Ammonia Sensor


Traffic Sensor


LoRaWAN Gateway

IoT Sensors track traffic trends in real time, significantly cutting consumption. Sensors track occupancy and usage patterns, while connected devices adjust operations dynamically.

Solutions by Operational Responsibility

SELECT A USE CASE

3 Pharmaceutical

3.1 M&E

3.2 Environmental Services

3.3 Security

3.4 Pests

Pharmaceutical Case Studies

SELECT A CASE STUDY

Roche

- iSnapReport
- eInspection
- eSmart Feedback with IoT sensors
- ePeriodic
- eTMS

The different sectors for pharmaceuticals play their own critical role in safeguarding product integrity and patient safety.

Select your Operational Responsibility or a Case Study to explore solutions that are designed for how your team works.

Pharmaceuticals

Operations that Turn Precision into Productivity

Pharmaceutical companies operate under strict standards for the storage, organisation and transportation of its products. Many regulatory standards have to be in place to protect product integrity and patient safety while ensuring that audit and compliance is met.

To aid continuous service, tools such as AI, IoT sensors, automation and digitalisation gives oversight for facility conditions, manpower deployment, equipment uptime and regulatory compliance. Elevates facility and reesource management while ensuring seamless operations across manufacturing and research facilities.

The Challenge

Many pharmaceutical facilities operate with limited real-time visibility. Deviations in environmental conditions or equipment performance are detected late, manpower is deployed uniformly rather than strategically, and compliance reporting is often reactive, triggered only after audits or incidents.

Strategic Benefits

Operations shift from reactive responses to predictive and preventive management. Environmental triggers are detected earlier, tasks are digitally validated, and resources are deployed based on actual demand. Compliance records are automatically generated, ensuring readiness for audits and regulatory inspections.

Proven Business Outcomes

Organisations typically achieve:

- 25–35% reduction in manpower requirements = lower operational cost
- 40–55% improvement in workforce productivity
- 40–50% faster response times to environmental or equipment triggers
- 10–15% reduction in energy and utility consumption

Leveraging on technology allows for higher service quality, lower operational risk and improved ROI, all supported by auditable digital records.

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Move beyond reactive maintenance. Intelligent asset monitoring detects issues early, prioritises critical faults and prevents downtime before it impacts operations.

iSnapReport with AI

AI-enabled iSnapReport empowers teams to visually capture on-site defects, automatically categorise issues, and trigger corrective actions – minimising downtime and safeguarding production reliability in regulated environments.

eTaskConnect with IoT Sensors

A centralised task and work order system, integrated with IoT sensors, detects anomalies in real time, triggers corrective tasks, and validates completion – ensuring maintenance is executed promptly, at the right location, with auditable proof for compliance.

eTMS

A verified attendance and workforce tracking solution using image capture, GPS, and QR/RFID improves accuracy, enhances visibility into productivity, and strengthens manpower control.

AI Analytics Engine

Intelligent analytics consolidate inspection, task, and sensor data to prioritise issues, optimise manpower deployment, and reduce operational inefficiencies – supporting continuous improvement and regulatory readiness.

Management Dashboard

A real-time operational dashboard displays technician deployment across facilities, last recorded activity, and open maintenance issues. Improves coordination and prioritised responses in production-critical environments.

Environmental Services

Environmental services are vital to pharmaceutical operations because they directly safeguard product integrity, regulatory compliance, and patient safety. Cleanliness standards have to be maintained – including controlled air quality, sanitation, and waste handling. Ensuring that cleanrooms, laboratories, and common spaces remain sterile and compliant with Good Manufacturing Practices (GMP) and other regulatory frameworks.

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eInspection

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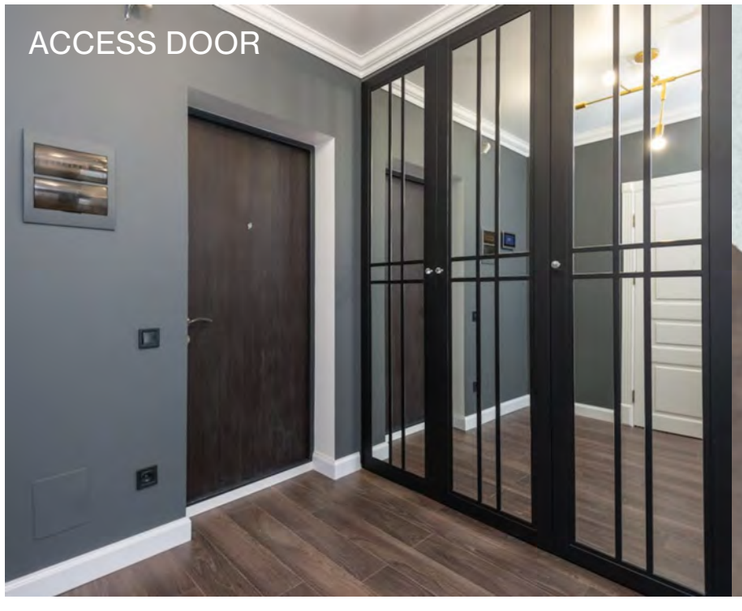

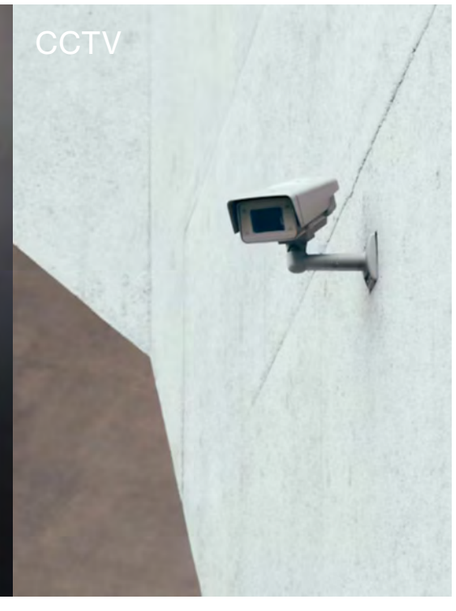

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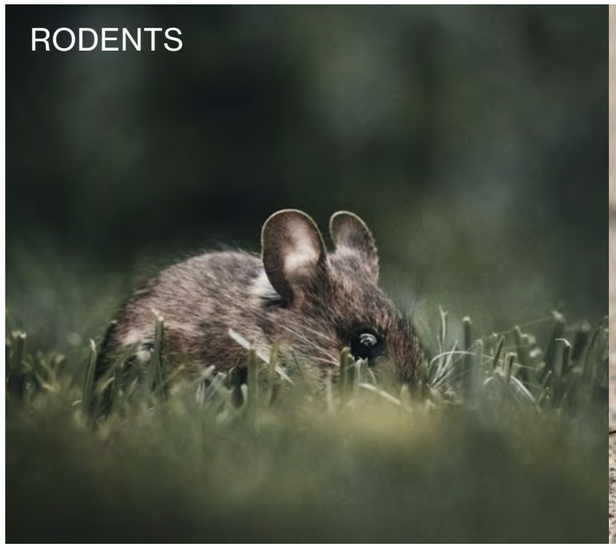
Pest Management & Compliance Control

Effective pest management requires early detection, structured inspections and auditable compliance. The systems enable teams to identify risks early, validate treatments and reduce recurrence through digital inspections and data-driven insights.



iSnapReport with AI

AI-driven iSnapReport enables staff and technicians to visually document and allow AI to classify any suspected pest activity, identify trends and support regulatory reporting to specialists – further reducing infestation risk and audit exposure.

ePest

A central pest management platform that manages inspections, treatments, trends and compliance records – providing a single source of truth for pest operations.

eTMS

A verified attendance and workforce tracking system that uses image capture, GPS and QR or RFID – improving attendance accuracy, productivity visibility and manpower control.

Sensors

Discrete sensors that detect rodent activity in high-risk zones 24/7, even in blind spots where they are hard to detect. These sensors provide early alerts before infestations become visible or service complaints arise.

Management Dashboard

A real-time operational view showing technician deployment across locations, last recorded activity and asset status recorded activity – providing operational visibility, faster coordination and improved response control.

Case Study

Case Study
Roche

Systems Used

iSnapReport | eInspection | ePeriodic | eSmart Feedback | eTMS

Challenges

1. Lack of real time visibility
2. Shift from Input-Based to Output-Based
3. Energy Management
4. Compliance and Accountability

How We Help Improve

Implementation of Real-time visibility with tracked records and dashboards

Output-based shift focuses on results delivered ensuring that uptime and efficiency are met

Forecast demand and optimise energy consumption to necessary systems.

Audit-ready records are kept and checked during inspections.

Results, Impact & Innovation

RESULTS

~80 - 100
man hours saved per month

IMPACT

~1 - 1.5 FTE
worth of effort and efficiency

INNOVATION

AI

Dashboard

IoT Sensors track traffic trends in real time, significantly cutting consumption. Sensors track occupancy and usage patterns, while connected devices adjust operations dynamically.

Solutions by Operational Responsibility

SELECT A USE CASE

- **4 Manufacturing Semi Conductors**
  - **4.1 M&E**
  - **4.2 Environmental Services**
  - **4.3 Gowning Operations**
  - **4.4 Security**
  - **4.5 Pests**

Each sector plays a vital role in safeguarding compliance, reducing downtime, and enabling the innovation pace that semiconductors demand.

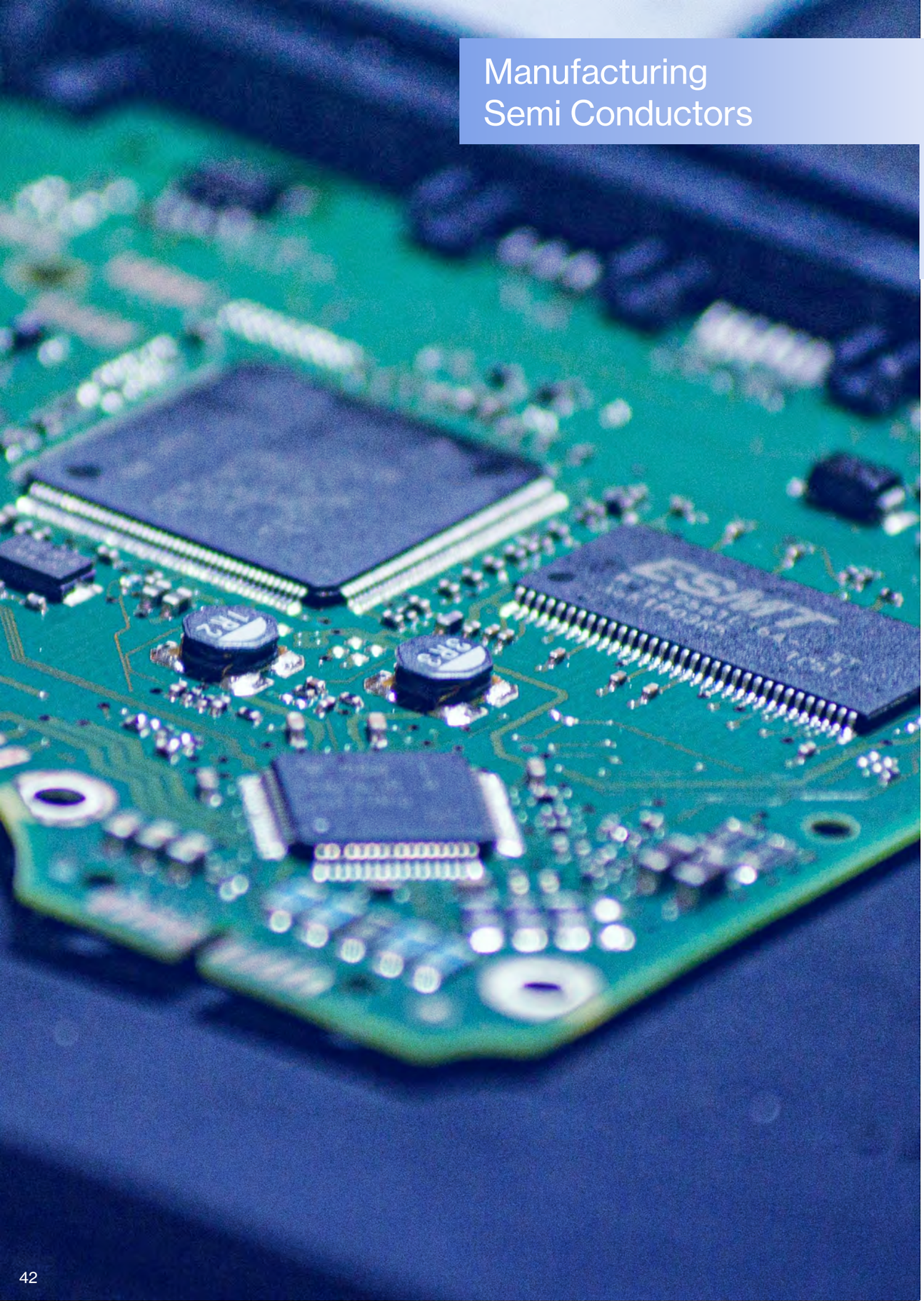
Select your Operational Responsibility or a Case Study to explore solutions that are designed for how your team works.

Manufacturing Semi Conductors Case Studies

SELECT A CASE STUDY

- iSnapReport
- eTMS
- eInspection
- ePeriodic

- eLinen Tracking System



Manufacturing
Semi Conductors

Turning Micro Manufacturing into Major Outcomes

Semiconductor manufacturing require highly specialised environments where microchips are created through intricate processes that demand extreme precision, consistency, and control. Cleanroom conditions, advanced robotics, and automated systems are essential to prevent contamination and ensure product reliability.

Tools such as AI, IoT sensors, automation and digitalisation give oversight for facility conditions, manpower deployment, equipment uptime and regulatory compliance.

The Challenge

Semiconductor facilities often operate with limited visibility into equipment performance and environmental conditions. Issues are detected late, downtime is prolonged, and manpower is deployed uniformly rather than based on actual demand. Performance metrics are also often reviewed only after production losses occur.

Strategic Benefits

Operations shift from reactive maintenance to predictive and preventive strategies. Equipment anomalies are detected earlier, tasks are validated digitally, and resources are deployed intelligently to maintain yield and reduce downtime.

Proven Business Outcomes

Organisations typically achieve:

- 10–20% reduction in manpower = reduction in operational cost
- 15–25% boost in workforce productivity
- 25–35% faster response times to environmental triggers
- 20–30% reduction in human error with digital validation workflows
- 20–30% reduced downtime with predictive maintenance

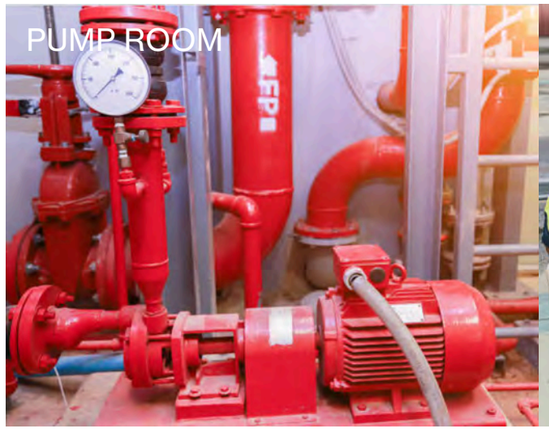
Better facility management helps facilitate manufacturing in cleanrooms with lower risk of disruptions and contamination.

Systems Powering Your Department

Each system addresses a specific operational challenge while working together as a single, intelligent platform. Individually powerful, collectively transformative.

M&E and Intelligent Asset Management

Move beyond reactive maintenance. Intelligent asset monitoring detects issues early, prioritises critical faults and prevents downtime before it impacts operations.



iSnapReport with AI

AI-enabled iSnapReport empowers teams to visually capture on-site defects, automatically categorise issues, and trigger corrective actions – minimising downtime and safeguarding production reliability in regulated environments.

eTaskConnect with IoT Sensors

A centralised task and work order system, integrated with IoT sensors, detects anomalies in real time, triggers corrective tasks, and validates completion – ensuring maintenance is executed promptly, at the right location, with auditable proof for compliance.

eInspection

A digital inspection system that enhances routine inspections and sets the standard of checks across all staff. It also allows for the validation of inspections when they are completed and automatically creates time-stamped, audit-ready records.

ePeriodic

An adaptive scheduling engine that automatically increases or reduces service frequency based on maintenance severity and risk – maximising productivity without increasing headcount.

AI Analytics Engine

Intelligent analytics consolidate inspection, task, and sensor data to prioritise issues, optimise manpower deployment, and reduce operational inefficiencies – supporting continuous improvement and regulatory readiness.

Environmental Services

Semiconductor plants operate in ultra-clean environments with strict facility controls, as even microscopic particles can disrupt production. Automated systems and digitalised records help ensure consistency, reliability, and compliance with global standards. While facility management safeguards the sterile conditions required for chip fabrication.

iSnapReport with AI

AI-powered iSnapReport captures cleanliness conditions visually, flags deviations in cleanliness or mess automatically, and supports faster rectification – improving productivity while maintaining service quality.

eInspection

Cleaning operations shift from fixed schedules to usage-driven execution. AI analyses traffic, inspection results and feedback trends to dynamically adjust cleaning frequency – improving productivity without increasing manpower.

ePeriodic

An adaptive scheduling engine that automatically increases or reduces service frequency based on traffic, severity and risk – maximising productivity without increasing headcount.

eSmart Feedback with IoT Sensors

A real-time service feedback platform integrated with IoT sensors that correlates user experience with actual facility conditions – enabling faster response, objective validation and smarter service decisions.

eTMS

A verified attendance and workforce tracking system using image capture, GPS and QR or RFID – improving attendance accuracy, employee productivity visibility and manpower control.

Gowning Operations

Gowning operations maintain the integrity of cleanrooms used in semiconductor manufacturing. Proper gowning reinforces compliance with industry standards, ensuring that every technician contributes to a sterile, controlled environment for precision manufacturing.

iSnapReport with AI

AI-driven iSnapReport enables staff and technicians to visually document and allow AI to classify any suspected pest activity, identify trends and support regulatory reporting to specialists – further reducing infestation risk and audit exposure.

eLinen Tracking System

By tracking linens efficiently with RFID, hotels can ensure clean sheets, towels, and uniforms are always available, reducing losses from misplacement and maintaining high standards of cleanliness, guest satisfaction and brand reputation.

Face Recognition

Facial recognition tied to the smart cabinet allows for security, accountability, and efficiency in gowning operations as personnel will only be able to access their own set of items. Maintains strict control on each user's items and eliminates misuse, theft or human error for both personal items and gowning equipment.

RFID

RFID enhances inventory visibility, where stock levels are updated instantly, reducing the risk of shortages or overstocking. It helps speed up access compared to manual logging or key-based systems while still maintaining control over sensitive materials.

Management Dashboard

A real-time operational view showing stock count and access count. Recording last activity and asset status recorded activity – providing operational visibility, faster coordination and improved response control.

Security

Intelligent monitoring that reduces manual oversight by detecting anomalies early, manages risk proactively and safeguards people, assets and operations in real time.

iSnapReport with AI

With AI-enabled iSnapReport, incidents are visually recorded, classified and escalated in real time – with AI detecting issues captured in the image and enhancing response readiness and risk visibility.

eInspection

A digital inspection system that enhances patrolling and standardises security checks across all security staff, validating patrol execution and producing time-stamped, audit-ready records.

eTMS (Security Workforce Management)

A workforce and shift management system that ensures security guards are deployed as planned, supports attendance validation and improves coverage across locations.

Smart CCTV

Unlike regular CCTV, which passively captures footage for later review, smart CCTV uses AI-driven analytics, real-time monitoring, and intelligent alerts to actively prevent and respond to threats.

Security Dashboard

A real-time command view showing patrol status, incidents and workforce coverage by location – supporting faster decision-making and operational assurance.

Pest Management & Compliance Control

Pests such as rodents, ants and cockroaches can pose as risks to the sterile environments in precision manufacturing. Particulate contaminations and chemical interactions possibly can cause contamination, damage and ultimately yield losses.

iSnapReport with AI

AI-driven iSnapReport enables staff and technicians to visually document and allow AI to classify any suspected pest activity, identify trends and support regulatory reporting to specialists – further reducing infestation risk and audit exposure.

ePest

A central pest management platform that manages inspections, treatments, monitors trends and compliance records – providing a single source of truth for pest operations.

eTMS

A verified attendance and workforce tracking system that uses image capture, GPS and QR or RFID – improving attendance accuracy, productivity visibility and manpower control.

Sensors

Discrete sensors that detect rodent activity in high-risk zones 24/7, even in blind spots where they are hard to detect. These sensors provide early alerts before infestations become visible or service complaints arise.

Technicians Management Dashboard

A real-time operational view showing technician deployment across locations, last recorded activity and asset status recorded activity – providing operational visibility, faster coordination and improved response control.

Case Study

Case Study
VDL

Systems Used

iSnapReport | eInspection | ePeriodic | eTMS

Challenges

1. Shift from Input-Based to Output Based
2. Maintenance & Equipment Reliability
3. Energy Consumption & Sustainability
4. Compliance and Accountability

How We Help Improve

Output-based shift focuses on results delivered ensuring that uptime and efficiency are met

Allow inefficiencies to be rooted out with the monitoring of high consumption zones

Online records are kept and checked during inspections.

Predictive maintenance allows for equipment to be monitored and repaired before failure.

Results, Impact & Innovation

RESULTS

~100 - 200
man hours saved per month

IMPACT

~2 - 2.5 FTE
worth of effort and efficiency

INNOVATION

Traffic Sensor | LoRaWAN Gateway | AI | Dashboard

IoT to monitor and automate energy systems in real time, significantly cutting consumption. Sensors track occupancy, temperature, and usage patterns, while connected devices adjust operations dynamically.

Solutions by Operational Responsibility

SELECT A USE CASE

A diverse industry made up of several interconnected sectors, these solutions each play a unique role in delivering memorable guest experiences within the Hotels & Hospitality Sector.

Select your Operational Responsibility or a Case Study to explore solutions that are designed for how your team works.

- 5 Hotels & Hospitality
- 5.1 M&E
- 5.2 Environmental Services
- 5.3 Laundry Operations
- 5.4 Security
- 5.5 Pests
- 5.6 Landscape

Hotels & Hospitality Case Studies

iSnapReport

eSmart Feedback with IoT sensors

eInspection

eLinen Tracking System

eTaskConnect with IoT Sensors

eTMS

ePeriodic

ePest

Security

Hospitality Reimagined – Smart Tools, For Future-Ready Hotels.

Hotels and hospitality businesses thrive on guest satisfaction, seamless service, and operational efficiency. Housing guest rooms, event spaces, and supporting infrastructure such as kitchens, HVAC systems, and service facilities. Facility management is critical in ensuring that each stay is comfortable, safe, and memorable.

To aid continuous service and operational excellence, tools such as AI, IoT sensors, robotics, and automation can be deployed. Achieving better oversight for facility conditions, energy efficiency and resource management while ensuring seamless operations and elevated guest satisfaction.

The Challenge

Traditional facility operations often run with a lack of manpower, yet are often required to rely on manual checks, fragmented systems, usually resulting in a waste of resources. This leads to inefficiencies, higher costs, and risks of service disruptions directly impacting guest experience and brand reputation.

Strategic Benefits

Operations shift from reactive responses to predictive preventions, prioritising regular inspections. Issues are detected earlier, tasks are validated digitally, and resources are deployed based on actual demand rather than assumptions.

Proven Business Outcomes

Organisations typically achieve:

- 40–50% improvement in productivity through offloading of routine tasks
- 20–35% reduction in operational costs and energy usage
- 25–35% faster response times to guest-related facility issues
- 20-25% reduced resource wastage

Leveraging on technology allows for higher service quality, better guest satisfaction and improved ROI, all supported by auditable digital records.

Systems Powering Your Department

Each system addresses a specific operational challenge while working together as a single, intelligent platform. Individually powerful, collectively transformative.

M&E and Intelligent Asset Management

Move beyond reactive maintenance. Intelligent asset monitoring detects issues early, prioritises critical faults and prevents downtime before it impacts operations.

iSnapReport with AI
AI-enabled iSnapReport allows teams to visually capture defects on site, automatically categorise issues and trigger corrective actions – reducing downtime and improving asset reliability.

eTaskConnect with IoT Sensors
A central task and work order system integrated with IoT sensors that automatically detects issues, triggers tasks and validates completion – ensuring work is executed on time, at the right location, with proof.

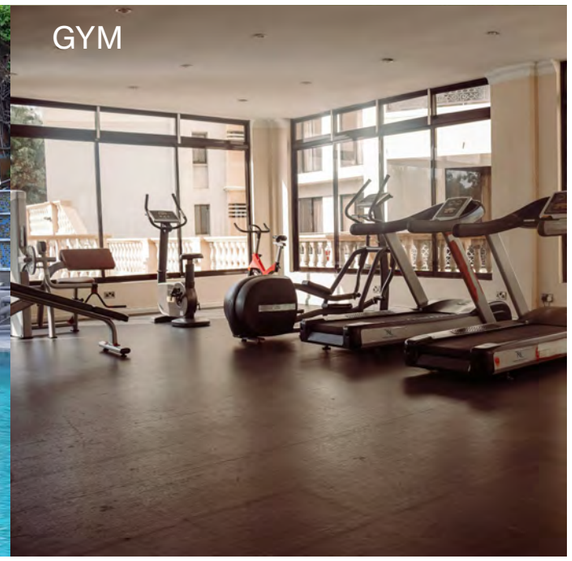
eTMS
A verified attendance and workforce tracking system that uses image capture, GPS and QR or RFID – improving attendance accuracy, productivity visibility and manpower control.

AI Analytics Engine
An intelligence that analyses inspection, task and sensor data to prioritise issues, optimise manpower deployment and reduce operational wastage.

Management Dashboard
A real-time operational view showing technician deployment across locations, last recorded activity and open maintenance issues – enabling faster coordination, prioritised response and improved asset uptime.

Environmental Services

Ensures that common areas in hotels such as lobbies, gyms, pools, and event spaces remain spotless, safe, and well-managed at all times. This enhances the hotel's image, protects guest's health and safety, extends the life of facilities and creates a positive impression that drives satisfaction and repeat visits.



iSnapReport with AI

AI-powered iSnapReport captures cleanliness conditions visually, flags deviations in cleanliness or mess automatically, and supports faster rectification – improving productivity while maintaining service quality.

eLinen

By tracking linens efficiently with RFID, hotels can ensure clean sheets, towels, and uniforms are always available, reducing losses from misplacement and maintaining high standards of cleanliness, guest satisfaction and brand reputation.

eInspection

Cleaning operations shift from fixed schedules to usage-driven execution. AI analyses traffic, inspection results and feedback trends to dynamically adjust cleaning frequency – improving productivity without increasing manpower.

ePeriodic

An adaptive scheduling engine that automatically increases or reduces service frequency based on traffic, severity and risk – maximising productivity without increasing headcount.

eTMS

A verified attendance and workforce tracking system using image capture, GPS and QR or RFID – improving attendance accuracy, employee productivity visibility and manpower control.

Laundry Operations

Laundry Operations are vital in hotel environments because it directly impacts guest comfort, hygiene, and service quality. With efficient operations, cleanliness and comfort are always ensured while reducing any loss from misplacement or theft.

iSnapReport with AI

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Smart Cabinet with RFID

Transforms laundry operations in hotels by automating the tracking and management of linens, uniforms, and guest laundry items. Each piece is tagged with an RFID chip, allowing the cabinet to instantly record when items are deposited, retrieved, or replenished. Reduces manual counting, prevents losses, and ensures accurate inventory levels at all times.

Security

Intelligent monitoring that reduces manual oversight by detecting anomalies early, manages risk proactively and safeguards people, assets and operations in real time.

iSnapReport with AI

With AI-enabled iSnapReport, incidents are visually recorded, classified and escalated in real time – with AI detecting issues captured in the image and enhancing response readiness and risk visibility.

eInspection

A digital inspection system that enhances patrolling and standardises security checks across all security staff, validating patrol execution and producing time-stamped, audit-ready records.

eTMS (Security Workforce Management)

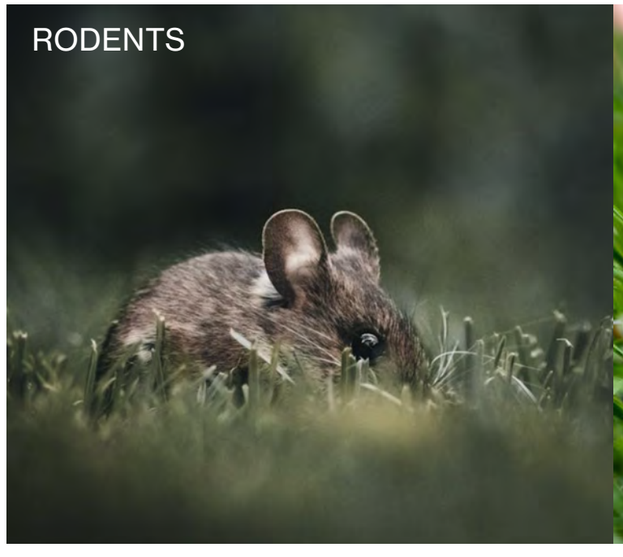
A workforce and shift management system that ensures security guards are deployed as planned, supports attendance validation and improves coverage across locations.

Security Dashboard

A real-time command view showing patrol status, incidents and workforce coverage by location – supporting faster decision-making and operational assurance.

Pest Management & Compliance Control

Maintain a safe, hygienic, and welcoming environment for guests with effective pest management. By implementing preventive measures such as regular inspections, sanitation practices, and monitoring systems, hotels can minimize the risk of infestations in sensitive areas like kitchens, dining spaces, and guest rooms.



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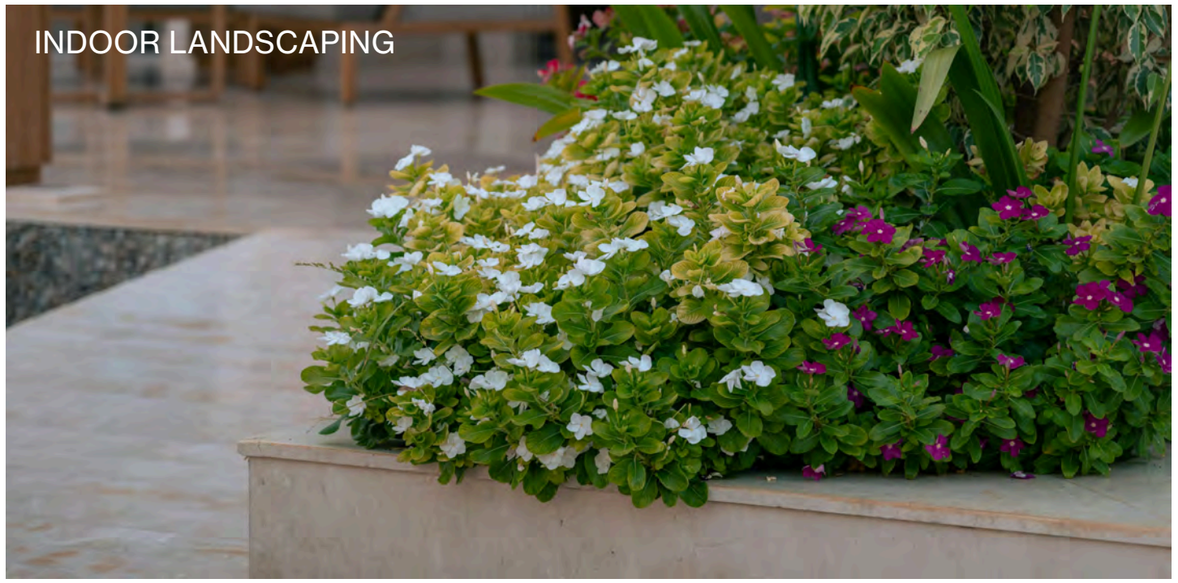
Discrete sensors that detect rodent activity in high-risk zones 24/7, even in blind spots where they are hard to detect. These sensors provide early alerts before infestations become visible or service complaints arise.

Management Dashboard

A real-time operational view showing technician deployment across locations, last recorded activity and asset status recorded activity – providing operational visibility, faster coordination and improved response control.

Landscape

Create a welcoming and refreshing atmosphere for guests with proper maintenance of indoor landscaping. Intelligent technologies can help the upkeep of these plants by monitoring water quality, tracking plant health (humidity, soil moisture, nutrient levels) and providing real-time alerts for imbalances. Ensuring a welcoming and refreshing atmosphere for guest.



iSnapReport with AI

AI-enabled iSnapReport, helps teams quickly identify hazards that may affect the plants and escalate them to technicians, reducing downtime and improving safety across parks, gardens, and green spaces.

eHydro

eHydro intelligently manages plant hydration by monitoring water levels, scheduling irrigation, and providing checklists for plant care, detecting pests and alerting teams to potential risks, ensuring healthier plants and optimising water usage across large areas, prevents over or under-watering.

Technicians Dashboard

The Technicians Dashboard delivers a real-time command centre for landscape teams – managing and tracking plant water levels, irrigation schedules, and pest activity. It empowers technicians with actionable insights for faster decision-making and operational assurance.

Case Study

Case Study

Systems Used

iSnapReport | eLinen Tracking System | eInspection | ePeriodic | eTMS

Challenges

1. Lack of Manpower
2. Inefficiency Resulting in Waste of Resources
3. Energy Management & Sustainability
4. Compliance and Accountability

How We Help Improve

Smart solutions offload manpower from repetitive workload, allowing manpower optimisation

Reduced resource wastage with transparent trend data, maximising use of resources.

Forecast demand and optimise energy consumption to necessary systems.

Online records are kept and checked during inspections.

Results, Impact & Innovation

RESULTS	IMPACT
~150 - 250 man hours saved per month	~2 - 2.5 FTE worth of effort and efficiency

INNOVATION


Smart Cabinet


LoRaWAN Gateway


Rodent Sensor


Traffic Sensor


Ammonia Sensor

IoT to monitor and automate energy systems in real time, significantly cutting consumption. Sensors track occupancy, temperature, and usage patterns, while connected devices adjust operations dynamically.

Solutions by Operational Responsibility

SELECT A USE CASE

- 6 Apartment & Condominiums
- 6.1 M&E
- 6.2 Environmental Services
- 6.3 Security
- 6.4 Pests
- 6.5 Landscape

Apartments and condominiums are more than residential spaces – they are dynamic communities where diverse facility management sectors must work together to ensure comfort, safety, and value.

Select your Operational Responsibility or a Case Study to explore solutions that are designed for how your team works.

Apartment & Condos. Case Studies

SELECT A CASE STUDY

iSnapReport | eInspection | ePeriodic

eSmart Feedback with IoT sensors | eTMS | ePest

eTaskConnect with IoT Sensors | Security

d'Leedon

The Metropolitan

Parc Riviera

CARIBBEAN AT KEPPEL BAY

The Rochester Residences

ePest

LAKEPOINT CONDOMINIUM

LAKEHOLMZ

NYON 12 AMBER

ROYALGREEN

PARC OASIS

SUNDANCE SUITES

Smart Living, Seamless Services, Future-Ready Communities.

Resident condominiums are more than just living spaces – they are communities that depend on well-managed facilities to ensure safety, comfort, and long-term value. Facility management covers a wide range of services, from maintaining shared amenities to overseeing essential systems and energy efficiency.

By integrating smart technologies and proactive maintenance practices, property managers can deliver seamless services, reduce operational costs and enhance resident satisfaction.

The Challenge

Manual tracking of maintenance requests, inventory, and environmental conditions often results in delayed responses, higher costs, and resident dissatisfaction. Together with low manpower, fragmented systems make it difficult for property managers to maintain transparency and accountability.

Strategic Benefits

Digital facility management solutions integrate IoT sensors, centralized work order systems, and automated reporting to ensure proactive maintenance and efficient resource allocation. Property managers can monitor energy use, track service completion, and provide residents with proof of execution, building trust and satisfaction with residents.

Proven Business Outcomes

Organisations typically achieve:

- 15–25% reduction in manpower requirements through predictive maintenance
- 20–30% faster issue resolution
- 15–25% reduction in maintenance-related downtime across shared facilities
- 10–20% savings in energy and utility costs with smart monitoring

Leveraging on technology allows for higher service quality, lower operational risk and improved ROI, all supported by auditable digital records.

Systems Powering Your Department

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M&E and Intelligent Asset Management

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Environmental Services

Ensures that common areas such as lobbies, gym, pools, and event spaces remain spotless, safe, and well-kept at all times. This enhances the image of the property, protects the trust between the resident and their environment, extends the life of facilities and creates a positive impression that drives satisfaction and facility usage.

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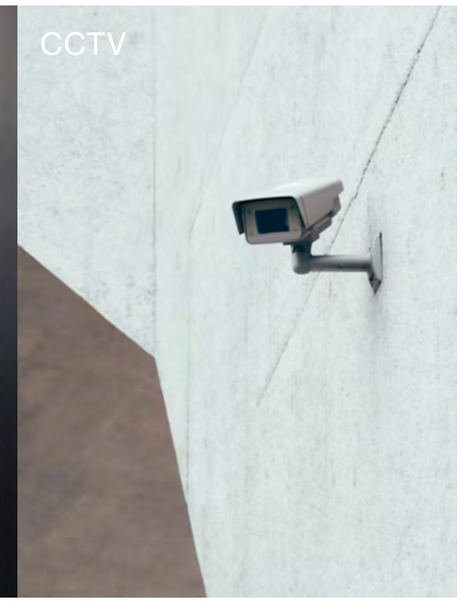
eTMS

A verified attendance and workforce tracking system using image capture, GPS and QR or RFID – improving attendance accuracy, employee productivity visibility and manpower control.

Security & Risk Management

Intelligent monitoring that reduces manual oversight by detecting anomalies early, manages risk proactively and safeguards people, assets and operations in real time.



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Management Dashboard

A real-time operational view showing technician deployment across locations, last recorded activity and asset status recorded activity – providing operational visibility, faster coordination and improved response control.

Landscape

Indoor landscaping allows for decorative plants to be grown in controlled environments, allowing for a pop of vibrance in shared spaces. Intelligent technologies can help the upkeep of these plants by monitoring water quality, tracking plant health (humidity, soil moisture, nutrient levels) and providing real-time alerts for imbalances.

iSnapReport with AI

AI-enabled iSnapReport, helps teams quickly identify hazards that may affect the plants and escalate them to technicians, reducing downtime and improving safety across parks, gardens, and green spaces.

eHydro

eHydro intelligently manages plant hydration by monitoring water levels, scheduling irrigation, and providing checklists for plant care, detecting pests and alerting teams to potential risks, ensuring healthier plants and optimising water usage across large areas, prevents over or under-watering.

Technicians Dashboard

The Technicians Dashboard delivers a real-time command centre for landscape teams – managing and tracking plant water levels, irrigation schedules, and pest activity. It empowers technicians with actionable insights for faster decision-making and operational assurance.

Case Study

Case Study 1:
The Rochester Residences

Systems Used

- iSnapReport with Waste Dispoal Request
- eInspection
- ePeriodic
- eSmart Feedback with IoT sensors
- eTMS

Challenges

1. Lack of Manpower
2. Budget Justification and ROI Management
3. Energy Management & Sustainability
4. Compliance and Accountability

How We Help Improve

Smart solutions offload manpower from repetitive workload, allowing manpower optimisation

Prove their ROI, analyse and use their data to justify budgets.

Forecast demand and optimise energy consumption to necessary systems.

Online records are kept and checked during inspections.

Results, Impact & Innovation

RESULTS

~100 - 200
man hours saved per month

IMPACT

3 FTE
worth of effort and efficiency

INNOVATION


Ammonia Sensor


Traffic Sensor


LoRaWAN Gateway

IoT to monitor and automate energy systems in real time, significantly cutting consumption. Sensors track occupancy, temperature, and usage patterns, while connected devices adjust operations dynamically.

Case Study 2: Parc Riviera

Parc Riviera

Systems Used

iSnapReport | eInspection | ePeriodic | eSmart Feedback with IoT sensors | eTMS

Challenges

1. Lack of Manpower
2. Limited Visibility and Compliance Risks
3. Energy Management & Sustainability
4. Compliance and Accountability

How We Help Improve

Smart solutions offload manpower from manual labour and physical checks, allowing manpower optimisation

Track and meet KPIs and other assigned goals, such as ESG

Forecast demand and optimise energy consumption to necessary systems.

Online records are kept and checked during inspections.

Results, Impact & Innovation

RESULTS	IMPACT
~78 - 150 man hours saved per month	~2 FTE worth of effort and efficiency

INNOVATION


Ammonia Sensor


Traffic Sensor


Bin Sensor


LoRaWAN Gateway

IoT to monitor and automate energy systems in real time, significantly cutting consumption. Sensors track occupancy, temperature, and usage patterns, while connected devices adjust operations dynamically.

Solutions by Operational Responsibility

SELECT A USE CASE

- 7 Transportation (MRO)
- 7.1 M&E
- 7.2 Environmental Services
- 7.3 Security
- 7.4 Pests

Transportation MRO (Maintenance, Repair, and Overhaul) covers everything from routine inspections and servicing to complex repairs, ensuring that buses, trains, aircraft, and logistics vehicles remain operational and compliant with safety standards.

Select your Operational Responsibility or a Case Study to explore solutions that are designed for how your team works.

Transportation (MRO) Case Studies

iSnapReport

eInspection

ePeriodic

eSmart Feedback with IoT sensors

eTaskConnect with IoT Sensors

ePest

Security

Driving Consistent Reliability Through Smart Facility-powered MRO.

Transportation especially Maintenance, Repair, and Overhaul (MRO) – keeps fleets, vehicles, and infrastructure safe, reliable, and efficient. MRO covers everything from routine inspections and servicing to complex repairs, ensuring that transportation remains operational and compliant with safety standards.

Good facility management plays a crucial role by providing the structured systems, digital oversight, and resource coordination needed to support MRO activities. With smart scheduling, IoT-enabled monitoring, and streamlined workflows, facility management helps reduce downtime, optimise manpower, and ensure that maintenance tasks are completed on time and with proof of compliance.

The Challenge

Many MRO operations lack real-time visibility into asset health. Issues are discovered late, manpower is deployed evenly rather than strategically, and performance is measured only after service delays or failures occur.

Strategic Benefits

Operations shift from reactive repairs to predictive maintenance. Faults are detected earlier, inspections are digitally validated, and manpower is deployed based on actual asset condition and demand.

Proven Business Outcomes

Organisations typically achieve:

- 20–30% reduction in manpower requirements = lower operational cost
- 30–40% improvement in workforce productivity
- 30–40% faster turnaround times for maintenance tasks
- 10–15% reduction in energy and resource consumption

Leveraging on technology allows for efficiency together with service quality, allowing for a better commute for the general populace.

Systems Powering Your Department

Each system addresses a specific operational challenge while working together as a single, intelligent platform. Individually powerful, collectively transformative.

M&E and Intelligent Asset Management

Move beyond reactive maintenance. Intelligent asset monitoring detects issues early, prioritises critical faults and prevents downtime before it impacts operations.

iSnapReport with AI
AI-enabled iSnapReport allows teams to visually capture defects on site, automatically categorise issues and trigger corrective actions – reducing downtime and improving asset reliability.

eTaskConnect with IoT Sensors
A central task and work order system integrated with IoT sensors that automatically detects issues, triggers tasks and validates completion – ensuring work is executed on time, at the right location, with proof.

eTMS
A verified attendance and workforce tracking system that uses image capture, GPS and QR or RFID – improving attendance accuracy, productivity visibility and manpower control.

AI Analytics Engine
An intelligence that analyses inspection, task and sensor data to prioritise issues, optimise manpower deployment and reduce operational wastage.

Management Dashboard
A real-time operational view showing technician deployment across locations, last recorded activity and open maintenance issues – enabling faster coordination, prioritised response and improved asset uptime.

Environmental Services

Semiconductor plants operate in ultra-clean environments with strict facility controls, as even microscopic particles can disrupt production. Automated systems and digitalised records help ensure consistency, reliability, and compliance with global standards. While facility management safeguards the sterile conditions required for chip fabrication.

iSnapReport with AI

AI-powered iSnapReport captures cleanliness conditions visually, flags deviations in cleanliness or mess automatically, and supports faster rectification – improving productivity while maintaining service quality.

eInspection

Cleaning operations shift from fixed schedules to usage-driven execution. AI analyses traffic, inspection results and feedback trends to dynamically adjust cleaning frequency – improving productivity without increasing manpower.

ePeriodic

An adaptive scheduling engine that automatically increases or reduces service frequency based on traffic, severity and risk – maximising productivity without increasing headcount.

eSmart Feedback with IoT Sensors

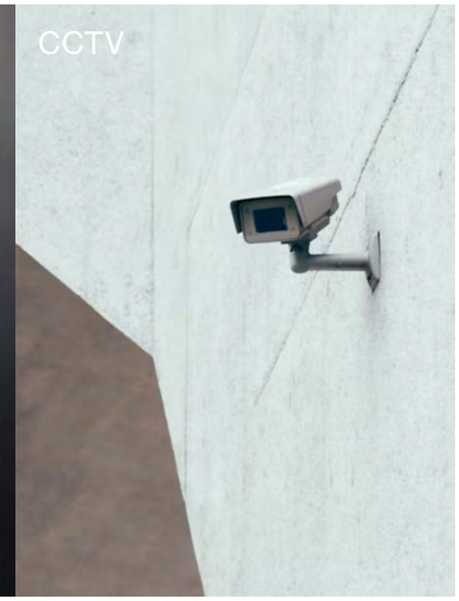
A real-time service feedback platform integrated with IoT sensors that correlates user experience with actual facility conditions – enabling faster response, objective validation and smarter service decisions.

eAttendance Tracking with RFID

A verified attendance and workforce tracking system using image capture, GPS and QR or RFID – improving attendance accuracy, employee productivity visibility and manpower control.

Security & Risk Management

Intelligent monitoring that reduces manual oversight by detecting anomalies early, manages risk proactively and safeguards people, assets and operations in real time.



iSnapReport with AI

With AI-enabled iSnapReport, incidents are visually recorded, classified and escalated in real time – with AI detecting issues captured in the image and enhancing response readiness and risk visibility.

eInspection

A digital inspection system that enhances patrolling and standardises security checks across all security staff, validating patrol execution and producing time-stamped, audit-ready records.

eTMS (Security Workforce Management)

A workforce and shift management system that ensures security guards are deployed as planned, supports attendance validation and improves coverage across locations.

Security Dashboard

A real-time command view showing patrol status, incidents and workforce coverage by location – supporting faster decision-making and operational assurance.

Pest Management & Compliance Control

Effective pest management requires early detection, structured inspections and auditable compliance. The systems enable teams to identify risks early, validate treatments and reduce recurrence through digital inspections and data-driven insights.

iSnapReport with AI

AI-driven iSnapReport enables staff and technicians to visually document and allow AI to classify any suspected pest activity, identify trends and support regulatory reporting to specialists – further reducing infestation risk and audit exposure.

ePest

A central pest management platform that manages inspections, treatments, trends and compliance records – providing a single source of truth for pest operations.

eTMS

A verified attendance and workforce tracking system that uses image capture, GPS and QR or RFID – improving attendance accuracy, productivity visibility and manpower control.

Sensors

Discrete sensors that detect rodent activity in high-risk zones 24/7, even in blind spots where they are hard to detect. These sensors provide early alerts before infestations become visible or service complaints arise.

Management Dashboard

A real-time operational view showing technician deployment across locations, last recorded activity and asset status recorded activity – providing operational visibility, faster coordination and improved response control.

Case Study

Case Study 1
Bus Stops

Systems Used

iSnapReport | eInspection | eAttendance with RFID

Challenges

1. Limited Visibility and Compliance Risks
2. Labor-Intensive Facility Operations
3. Budget Justification & ROI Visibility
4. Compliance and Accountability

How We Help Improve

Transparent usage trend data, shows when equipment require maintenance, and allows for preventive measure to take place.

Track and meet KPIs and other assigned goals, such as ESG

Prove their ROI, analyse and use their data to justify budgets.

Online records are kept and checked during inspections.

Results, Impact & Innovation

RESULTS	IMPACT
~100 - 200 man hours saved per month	~3 FTE worth of effort and efficiency

INNOVATION

AI | RFID

IoT to monitor and automate energy systems in real time, significantly cutting consumption. Sensors track occupancy, temperature, and usage patterns, while connected devices adjust operations dynamically.

Case Study 2
SBS Transit

33 MRT Stations

Systems Used

iSnapReport | eSmart Feedback with IoT sensors

Challenges

1. Limited Visibility and Compliance Risks
2. Shift from Input-Based to Output Based
3. Maintenance & Equipment Reliability
4. Energy Consumption and Sustainability

How We Help Improve

Implementation of Real-time visibility with tracked records and dashboards

Output-based shift focuses on results delivered ensuring that uptime and efficiency are met

Predictive maintenance allows for equipment to be monitored and repaired before failure.

Track and meet KPIs and other assigned goals, such as ESG

Results, Impact & Innovation

RESULTS	IMPACT
~200 - 250 man hours saved per month	~4 FTE worth of effort and efficiency

INNOVATION


Ammonia Sensor


Traffic Sensor


LoRaWAN Gateway

AI

IoT to monitor and automate energy systems in real time, significantly cutting consumption. Sensors track occupancy, temperature, and usage patterns, while connected devices adjust operations dynamically.

Solutions by Operational Responsibility

SELECT A USE CASE

8 Data Centres

8.1 M&E

8.2 Environmental Services

8.3 Security

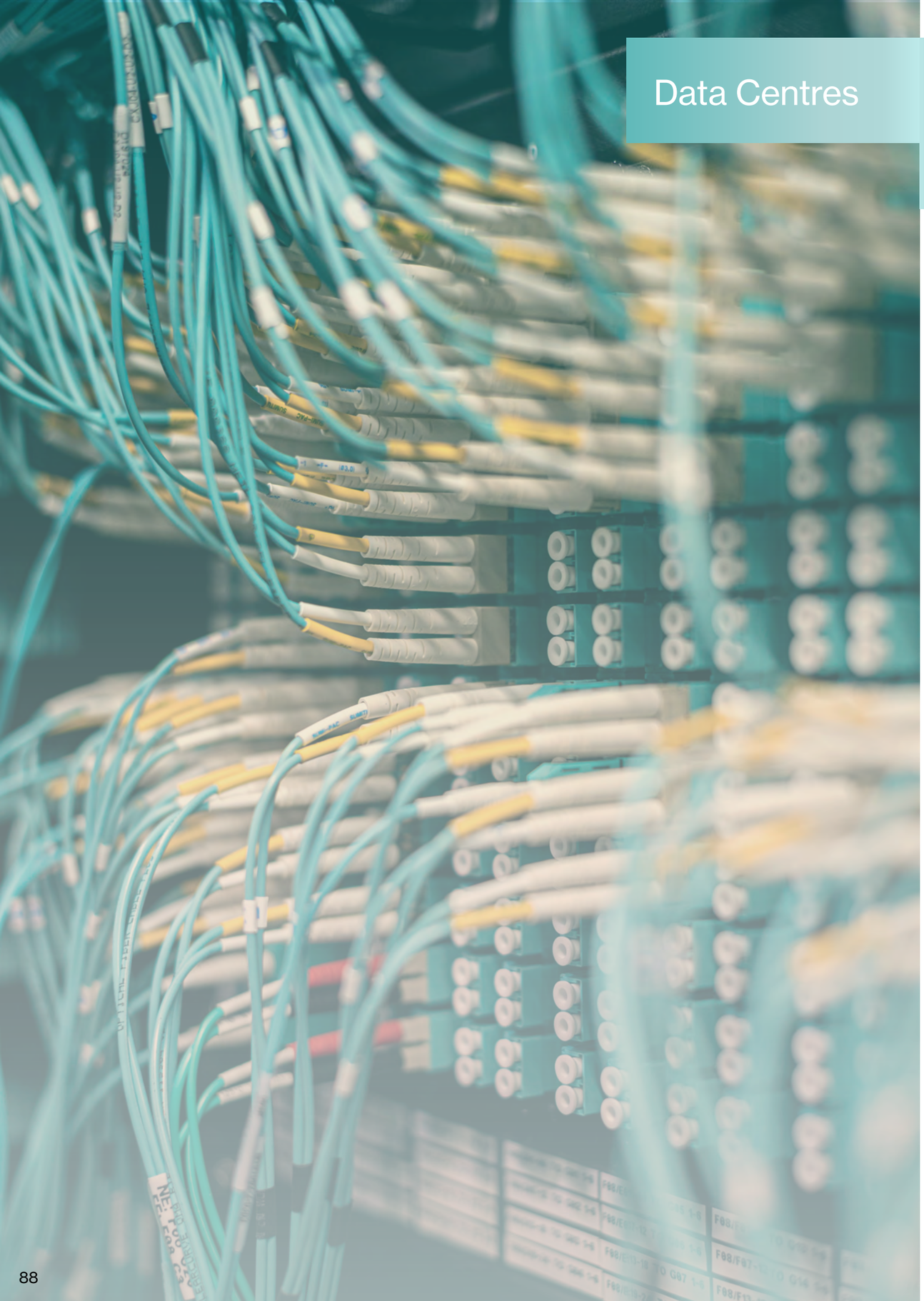
8.4 Pests

Backbones of the digital economy, data centres are specialised facilities supporting everything from online banking and healthcare records to streaming services and social media.

Select your Operational Responsibility or a Case Study to explore solutions that are designed for how your team works.

Data Centres Case Studies

- iSnapReport
- eTaskConnect with IoT Sensors
- eInspection
- eTMS
- ePeriodic
- ePest
- Security



Data Centres

Efficiency at Scale: The Future of Data Centres

Data centres house computer systems and supporting infrastructure such as servers, storage, and networking equipment. They provide secure, reliable environments for organisations to store, process, and manage large volumes of data.

To aid their continuous service and digital infrastructure, technological tools such as AI, IoT sensors, robotics and automation. Better oversight can be achieved for facility conditions, together with energy and resource management.

The Challenge

Unexpected equipment failures can still occur between scheduled maintenance checks, possibly resulting in further asset damage and significant downtime with damage to servers and IT equipment. The facility's environment, including temperature and humidity levels also need to be monitored closely to ensure that systems run optimally.

Strategic Benefits

By adopting smart facility management data centres can transform operations with real-time monitoring - ensuring faster detection of anomalies, predictive analytics to reduce unplanned downtime, and energy usage can be optimised through smart cooling systems, with robotics and dashboards streamlining other routine tasks.

Proven Business Outcomes

Organisations typically achieve:

- 10–20% reduction in manpower = reduction in operational cost
- 15–25% boost in workforce productivity
- 25–35% faster response times to environmental triggers
- 20–30% reduction in human error with digital validation workflows
- 20–30% reduced downtime with predictive maintenance

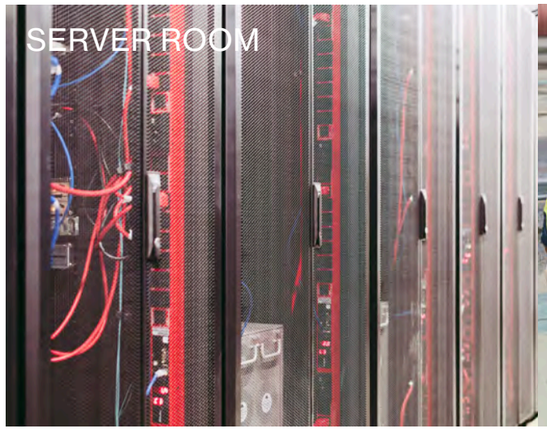
Better facility management gives data centre managers a lower risk of outages and mitigate environmental risks, safeguarding itself from any disruptions or failures.

Systems Powering Your Department

Each system addresses a specific operational challenge while working together as a single, intelligent platform. Individually powerful, collectively transformative.

M&E and Intelligent Asset Management

Smart asset management and robust M&E are what turn data centres from just buildings with servers into resilient, efficient, and future-ready digital hubs. Guaranteeing continuous uptime, energy efficiency, compliance with ESG goals, and cost control.



iSnapReport with AI

AI-enabled iSnapReport allows teams to visually capture defects on site, automatically categorise issues and trigger corrective actions – reducing downtime and improving asset reliability.

eTaskConnect with IoT Sensors

A central task and work order system integrated with IoT sensors automatically detects anomalies in mechanical and electrical assets, triggers maintenance tasks, and validates completion – ensuring equipment is serviced proactively, at the right location, with proof of execution.

eInspection

Digitising and streamlining the way inspections, audits and maintenance checks are carried out. Faster issue detection, real-time data capture and allows for a centralised asset records.

ePeriodic

A periodic scheduler allows for consistent monitoring, automated preventive maintenance and lifestyle optimisation that works together with data-driven insights. Facility operations can be transformed, allowing assets to be maintained on time, efficiently and sustainability.

AI Analytics Engine

Intelligence that analyses inspection, task and sensor data to prioritise issues, optimise manpower deployment and reduces downtime and energy consumption.

Environmental Services

Cleaning operations shift from fixed schedules to usage-driven execution. AI analyses traffic, inspection results and feedback trends to dynamically adjust cleaning frequency – improving productivity without increasing manpower.

iSnapReport with AI

AI-powered iSnapReport captures cleanliness conditions visually, flags deviations in cleanliness or mess automatically, and supports faster rectification – improving productivity while maintaining service quality.

eTaskConnect with IoT Sensors

The task and work order system can be integrated with IoT sensors identifying environmental issues such as leaks, humidity changes, or improper door closures, triggers cleaning or corrective tasks, and validates completion – ensuring services are delivered on time, where needed, with documented proof.

eInspection

Digitises environmental checks (air quality, humidity, cleanliness levels) with real-time reporting. Ensures that the environment always reaches certain consistent standard that allow for facilities to keep working.

ePeriodic

Automate cleaning schedules to ensure consistency in cleaning and allow for clean environments where dust and containment will not damage servers, cooling units and electrical systems.

eTMS

A verified attendance and workforce tracking system using image capture, GPS and QR or RFID – improving attendance accuracy, employee productivity visibility and manpower control.v

Security & Risk Management

Surveillance and inspections that can log and reduce unauthorised access incidents, allowing for disaster preparedness, compliance and audit-ready logs.

iSnapReport with AI

With AI-enabled iSnapReport, incidents are visually recorded, classified and escalated in real time – with AI detecting issues captured in the image and enhancing response readiness and risk visibility.

eTaskConnect with IoT Sensors

The IoT Sensors equipped with the central task and work order system detects security breaches or risk events, automatically triggers response tasks, and validates completion – ensuring incidents are addressed quickly, at the correct location, with auditable proof.

eInspection

A digital inspection system that enhances patrolling and standardises security checks across all security staff, validating patrol execution and producing time-stamped, audit-ready records.

eTMS (Security Workforce Management)

A workforce and shift management system that ensures security guards are deployed as planned, supports attendance validation and improves coverage across locations.

Security Dashboard

A real-time command view showing patrol status, incidents and workforce coverage by location – supporting faster decision-making and operational assurance.

Pest Management & Compliance Control

Pest control in data centres involves preventive and monitoring measures to keep rodents, insects, and other pests from entering or damaging critical infrastructure. It protects critical equipment and the uptime of digital infrastructure.

iSnapReport with AI

AI-driven iSnapReport enables staff and technicians to visually document and allow AI to classify any suspected pest activity, identify trends and support regulatory reporting to specialists – further reducing infestation risk and audit exposure.

eTaskConnect with IoT Sensors

The IoT Sensors equipped with the central task and work order system monitors conditions that may attract pests, triggers inspection or treatment tasks, and validates completion – ensuring pest control measures are executed promptly, at the right site, with compliance-ready proof.

ePest

A central pest management platform that manages inspections, treatments, trends and compliance records – providing a single source of truth for pest operations.

Sensors

Discrete sensors that detect rodent activity in high-risk zones 24/7, even in blind spots where they are hard to detect. These sensors provide early alerts before infestations become visible or service complaints arise.

Management Dashboard

A real-time operational view showing technician deployment across locations, last recorded activity and asset status recorded activity – providing operational visibility, faster coordination and improved response control.

Case Study

Case Study

Systems Used

iSnapReport | eTaskConnect with IoT Sensors | eInspection | eTMS | ePeriodic | ePest

Challenges

1. Shift from Input-Based to Output Based
2. Maintenance & Equipment Reliability
3. Energy Consumption & Sustainability
4. Compliance and Accountability

How We Help Improve

Output-based shift focuses on results delivered ensuring that uptime and efficiency are met

Allow inefficiencies to be rooted out with the monitoring of high consumption zones

Online records are kept and checked during inspections.

Predictive maintenance allows for equipment to be monitored and repaired before failure.

Results, Impact & Innovation

RESULTS

~100 - 200
man hours saved per month

IMPACT

~2 - 2.5 FTE
worth of effort and efficiency

INNOVATION


Rodent Sensor


Water Detection Sensor


Standard & Digital Temperature Sensor


Humidity Sensor


LoRaWAN Gateway

Smart thermostats and HVAC controllers optimise heating, ventilation, and cooling by responding to occupancy, weather, and usage patterns, often saving 20-30% on total building energy.

Solutions by Operational Responsibility

SELECT A USE CASE

- 9 Education
  - 9.1 M&E
  - 9.2 Environmental Services
  - 9.3 Security
  - 9.4 Pests
  - 9.5 Landscape

Each department manages different risks, service standards and performance outcomes within the industry.

Select your Operational Responsibility or a Case Study to explore solutions that are designed for how your team works.

Education Case Studies

SELECT A CASE STUDY

iSnapReport
eInspection
ePeriodic
eSmart Feedback with IoT sensors
eTMS

DOVER COURT INTERNATIONAL SCHOOL
A NORD ANGLIA EDUCATION SCHOOL

SINGAPORE POLYTECHNIC SP

iSnapReport
ePest

CHIJ (Katong) Primary
CHIJ (Katong) Convent
Chung Cheng High School
Dunman High School
Tampines Meridian Junior College
Temasek Junior College
Victoria Junior College

eSmart Feedback with IoT sensors
eHydro

Temasek POLYTECHNIC

Education

Facility Management that Transforms Spaces to Fuel Lifelong Learning

Education is the foundation of social and economic progress, shaping future generations with knowledge and values. Schools are not only places of learning but serve as community hubs that must provide safe, clean, and well-maintained environments to support student success.

Effective facility management with preventive maintenance, AI, and IoT Sensors help create a better environment that supports quality education. This ensures students experience fewer disruptions, healthier surroundings, and engaging learning spaces.

The Challenge

Many campuses operate with limited real-time visibility. With issues such as resource shortages and maintenance backlogs, often discovered late. Staff are deployed uniformly rather than based on student demand, and performance is measured only after complaints or disruptions occur.

Strategic Benefits

Operations shift from reactive fixes to proactive and predictive management. Facility issues are detected earlier. Cleaning and maintenance tasks are digitally scheduled and validated. Manpower can also be deployed intelligently to match student and staff needs. This ensures safer, healthier, and more conducive learning environments.

Proven Business Outcomes

Organisations typically achieve:

- 5–25% reduction in manpower requirements = lower operational cost
- 30–40% improvement in workforce productivity
- 25–35% faster response times to facility issues
- 10–15% reduction in energy consumption across campuses

Leveraging technology enhances learning environments, improves safety and sustainability, and delivers higher service quality with auditable digital records.

Systems Powering your Department

Each system addresses a specific operational challenge while working together as a single, intelligent platform. Individually powerful, collectively transformative.

M&E and Intelligent Asset Management

Move beyond reactive maintenance. Intelligent asset monitoring detects issues early, prioritises critical faults and prevents downtime before it impacts operations.

iSnapReport with AI

AI-enabled iSnapReport allows teams to visually capture defects on site, automatically categorise issues and trigger corrective actions – reducing downtime and improving asset reliability.

eTMS

A verified attendance and workforce tracking system that uses image capture, GPS and QR or RFID – improving attendance accuracy, productivity visibility and manpower control.

AI Analytics Engine

Intelligence that analyses inspection, task and sensor data to prioritise issues and push them to relevant operations, optimising manpower deployment and reducing operational wastage.

Management Dashboard

A real-time operational view showing technician deployment across locations, last recorded activity and open maintenance issues – enabling faster coordination, prioritised response and improved asset uptime.

Environmental Services

Cleaning operations shift from fixed schedules to usage-driven execution. AI analyses traffic, inspection results and feedback trends to dynamically adjust cleaning frequency – improving productivity without increasing manpower.

iSnapReport with AI

AI-powered iSnapReport enables users to capture cleanliness conditions visually, and flag deviations in cleanliness or mess automatically. AI supports faster rectification – promptly pushing out issues to the relevant staff.

eInspection

Cleaning operations shift from fixed schedules to usage-driven execution. AI analyses traffic, inspection results and feedback trends to dynamically adjust cleaning frequency – improving productivity without increasing manpower.

ePeriodic

An adaptive scheduling engine that automatically increases or reduces service frequency based on traffic, severity and risk – maximising productivity without increasing headcount.

eSmart Feedback

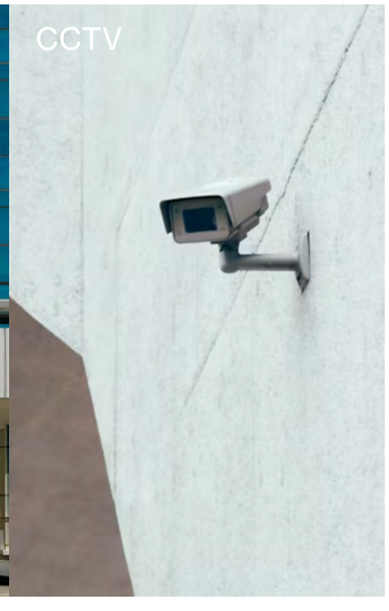
A real-time service feedback platform that allows for any user to submit instant feedback and fault reporting of environmental conditions – enabling faster response, objective validation and smarter service decisions. Helps track the condition of an area over a period of time.

eTMS

A verified attendance tracking system that uses image capture, GPS and QR or RFID – improving attendance accuracy, productivity visibility and manpower control. The system logs and flags if any deviation exists.

Security & Risk Management

Intelligent monitoring that reduces manual oversight by detecting anomalies early, manages risk proactively and safeguards people, assets and education in real time.



iSnapReport with AI

With AI-enabled iSnapReport, incidents are visually recorded, classified and escalated in real time – with AI detecting issues captured in the image and enhancing response readiness and risk visibility.

eInspection

A digital inspection system that enhances patrolling and standardises security checks across all security staff, validating patrol execution and producing time-stamped, audit-ready records.

eTMS (Security Workforce Management)

A workforce and shift management system that ensures security guards are deployed as planned, supports attendance validation and improves coverage across locations.

Security Dashboard

A real-time command view showing patrol status, incidents and workforce coverage by location – supporting faster decision-making and operational assurance.

Pest Management & Compliance Control

Effective pest management requires early detection, structured inspections and auditable compliance. The systems enable teams to identify risks early, validate treatments and reduce recurrence of pests through digital inspections and data-driven insights.

iSnapReport with AI

AI-driven iSnapReport enables staff and technicians to visually document and allow AI to classify any suspected pest activity, identify trends and support regulatory reporting to specialists – further reducing infestation risk and audit exposure.

ePest

A central pest management platform that manages inspections, pest treatments, trends and compliance records – combating the presence of pest before they stay rooted in the space.

eTMS

A verified attendance and workforce tracking system that uses image capture, GPS and QR or RFID – improving attendance accuracy, productivity visibility and manpower control.

Sensors

Discrete sensors that detect rodent activity in high-risk zones 24/7, even in blind spots where they are hard to detect. These sensors provide early alerts before infestations become visible or service complaints arise.

Management Dashboard

A real-time operational view showing technician deployment across locations, last recorded activity and asset status recorded activity – providing operational visibility, faster coordination and improved response control.

Landscape

Landscaping plays a vital role in enhancing educational environments. Rooted in the biophilia hypothesis – which links human well-being to nature – studies show that greenery and plant life help calm minds, reduce stress, and improve focus. In urban settings such as Singapore, where exposure to nature is limited, thoughtfully designed landscaping provides students with restorative spaces that support mental health and learning outcomes.

iSnapReport with AI

AI-enabled iSnapReport, helps staff quickly identify hazards that may affect the plants and escalate them to technicians, reducing downtime and improving safety across parks, gardens, and green spaces.

eHydro

eHydro intelligently manages plant hydration by monitoring water levels, scheduling irrigation, and providing checklists for plant care, detecting pests and alerting teams to potential risks, ensuring healthier plants and optimising water usage across large areas, prevents over or under-watering.

Technicians Dashboard

The Technicians Dashboard delivers a real-time command centre for landscape teams – managing and tracking plant water levels, irrigation schedules, and pest activity. It empowers technicians with actionable insights for faster decision-making and operational assurance.

Case Study

Case Study

DOVER COURT INTERNATIONAL SCHOOL
A NORD ANGLIA EDUCATION SCHOOL

Systems Used

iSnapReport | eInspection | ePeriodic | eSmart Feedback with IoT sensors | eTMS

Challenges

1. Shift from Input-Based to Output Based
2. Lack of real-time visibility
3. Energy Consumption & Sustainability
4. Compliance and Accountability

How We Help Improve

Output-based shift focuses on results delivered ensuring that uptime and efficiency are met

Implementation of Real-time visibility with tracked records and dashboards

Forecast demand and optimise energy consumption to necessary systems.

Audit-ready records are kept and checked during inspections.

Results, Impact & Innovation

RESULTS

~80 - 100
man hours saved per month

IMPACT

~2 FTE
worth of effort and efficiency

INNOVATION


Ammonia Sensor


Traffic Sensor


LoRaWAN Gateway

IoT monitors energy systems in real time, constantly providing feedback and significantly cutting manpower consumption. Sensors track ammonia and traffic, while connected devices adjust operations dynamically and allow for data to be captured and analysed.

Case Study

SINGAPORE POLYTECHNIC SP

Systems Used

iSnapReport | eInspection | ePeriodic | eSmart Feedback with IoT sensors | eTMS

Challenges

1. Shift from Input-Based to Output Based
2. Maintenance & Equipment Reliability
3. Inefficiency Resulting in Waste of Resources
4. Budget Justification and ROI Management

How We Help Improve

Smart solutions allow for simpler processes and optimisation with data obtained.

Transparent usage trend data, shows when equipment require maintenance, and allows for preventive measure to take place.

Allow inefficiencies to be rooted out with the monitoring of high consumption zones

Prove their ROI, analyse and use their data to justify budgets.

Results, Impact & Innovation

RESULTS

~80 - 150
man hours saved per month

IMPACT

~2 FTE
worth of effort and efficiency

INNOVATION


Ammonia Sensor


Traffic Sensor


LoRaWAN Gateway

IoT monitors energy systems in real time, constantly providing feedback and significantly cutting manpower consumption. Sensors track ammonia and traffic, while connected devices adjust operations dynamically and allow for data to be captured and analysed.