

# S3 INNOVATE BUILDING INSIGHTS

POWERING SMART AND  
SUSTAINABLE FACILITIES



S3 innovate



# AGENDA

- 1.** The rise of smart buildings in Asia
- 2.** Building owner challenges
- 3.** S3 Building Insights
- 4.** Azure integration
- 5.** Customer success story
- 6.** Next steps

# ASIA TURNS TO GREEN BUILDING TO REDUCE ENERGY CONSUMPTION

30%

Of the energy consumed by the average building is wasted due to inefficiencies.<sup>1</sup>

50%

A smart building with integrated systems can result in 30-50% energy savings.<sup>2</sup>

35%

Singapore alone is targeting a 35% reduction in the energy intensity of its economy by 2030.<sup>3</sup>

# BUILDING OWNERS FACE MANY CHALLENGES

## Integrating disparate systems

Many buildings rely on a variety of disparate, siloed systems and applications. This lack of integration can cause operational inefficiency, wasted resources, and higher costs.

## Reducing energy consumption

Building owners are increasingly looking to reduce energy consumption to lower operating costs and adhere to increased government regulations on carbon emissions.

## Improving the tenant experience

Organizations are looking for ways to increase tenant revenue and compete for top talent by creating innovative, modern workplaces that improve productivity and comfort.

# INTRODUCING S3 BUILDING INSIGHTS

USING IOT AND AI TO CREATE SMART, SUSTAINABLE BUILDINGS



Manage assets and devices



Reduce energy consumption



Improve security and safety



Increase tenant satisfaction



# MANAGE ASSETS AND DEVICES

Monitor, manage and optimize building devices at scale using machine learning and real-time analytics.



Remotely provision and manage all devices in real time using a central dashboard that includes a digital simulation of assets.

Monitor device and system status and trends with live, interactive reports.

View building data across an entire portfolio or at the individual building level.

Proactively identify faults/issues with the ability to set alarms based on pre-defined thresholds and take quick, corrective action.



# REDUCE ENERGY CONSUMPTION

Improve the efficiency of cooling, lighting, and other systems to lower energy costs and carbon emissions.

Use the S3 Energy and Sustainability module to monitor energy systems across all buildings in your portfolio.

Use smart metering to manage and optimize electricity, water, and gas consumption.

Optimize lighting throughout your buildings based on occupancy data.

Identify tenant energy consumption patterns (e.g., holidays, events, loss of a large tenant) to optimize energy procurement.





# IMPROVE SECURITY AND SAFETY

Enhance security across your building portfolio using leading-edge security systems with edge AI and machine learning.



Monitor all security assets (e.g., video cameras, fire and smoke alarms, etc.) and resolve issues from one centralized location.

Use smart camera surveillance with vision analytics (face ID, etc.) to simplify building access and increase security.

Quickly notify tenants in emergency situations via a mobile app, SMS, or email.

Monitor, analyze, and improve lift (elevator) performance and safety.





# INCREASE TENANT SATISFACTION

Create and maintain building environments that are optimized for tenant comfort and productivity.



Track and resolve tenant requests using the work order and feedback management systems in the S3 Tenant Services Hub.

Make it easy for tenants to book facilities, find parking spots, report issues, and pay for services using a mobile app.

Enable tenants to reduce energy consumption and save money with a mobile app that shows usage, billing, and off-peak hours.

Remotely monitor indoor environmental factors such as air quality, lighting, and ambience to optimize tenant comfort and productivity.

# POWERED BY MICROSOFT AZURE

A CUSTOMIZABLE, OFF-THE-SHELF SOLUTION THAT  
CAN SCALE QUICKLY AS NEEDED



Simplify  
management



Consolidate data  
and visualize  
insights



AI and machine  
learning



Scale across  
multiple buildings



Best-in-class  
security

Microsoft  
Singapore  
Partner  


2017 Partner of the Year Winner  
Internet of Things (IoT) Award

# OPTIMIZING BUILDING ENERGY EFFICIENCY



Singapore's Building and Construction Authority (BCA), a champion of the country's green building movement, partnered with S3 Innovate to develop a Chiller Efficiency Smart Portal, powered by Microsoft Azure, that provides building managers with the ability to compare chiller performance across multiple buildings and proactively identify issues, helping them optimize chiller efficiency, reduce energy consumption, and lower costs.

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## **PREVENTIVE MAINTENANCE**

Rich analytics and alarms provide early detection of faults and issues, enabling BCA to take quick, corrective action.

## **REDUCED CARBON EMISSIONS**

By optimizing energy consumption, building owners can reduce their carbon footprint and comply with regulations.

## **CENTRALIZED MANAGEMENT**

Personnel can manage chiller systems across an entire portfolio of buildings in real time from any device.

## **LOWER ENERGY COSTS**

Building owners can use the data to negotiate performance-based contracts with energy providers at reduced rates.



# NEXT STEPS

- Reach out to your Microsoft sales representative to connect with the S3 Innovate sales team
- Or reach out to S3 Innovate directly: [nick@s3innovate.com](mailto:nick@s3innovate.com)
- Learn more about S3 Innovate: [www.s3innovate.com](http://www.s3innovate.com)
- Learn more about Microsoft Azure at [azure.microsoft.com](http://azure.microsoft.com)



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