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# WHAT IS A SMART BUILDING?

Honeywell The Future is what we make it

## **Smart Buildings**

A smart building **integrates various technologies**, systems, and processes to create a structure that actively **interacts with its occupants** and adapts to its environment to **optimize operations** and improve overall performance. This **interconnectedness and automation** provide actionable insights and control to property managers, leading to enhanced efficiency, sustainability, and tenant comfort.

#### **KEY FEATURES OF A "SMART BUILDING"**

- Interconnected Systems: A smart building has various systems (like HVAC, lighting, security, and energy management) that communicate with each other through a centralized building management system (BMS) or a similar platform.
- Real-time Monitoring and Data Collection: Sensors throughout the building collect data continuously. This data can include information on energy usage, occupancy patterns, air quality, and more.
- Energy Efficiency: Smart buildings often prioritize energy conservation by dynamically adjusting energy usage based on real-time needs. This not only reduces costs but also aligns with sustainability goals.
- Predictive Maintenance: Rather than following a set maintenance schedule or reacting to breakdowns, smart buildings can predict when components are about to fail and alert property managers in advance.
- Enhanced Security: Integrated security systems, from cameras to access controls, ensure that property managers can monitor and secure the premises more effectively.



#### **KEY FEATURES OF A "SMART BUILDING"**

- Tenant Comfort and Interaction: Smart buildings can adapt to the preferences of their occupants, enhancing comfort. Furthermore, they may provide interfaces (like apps) for tenants to adjust environmental conditions in their spaces or report issues directly.
- Data Analytics: The data collected is analyzed to provide insights into building operations, helping property managers make informed decisions about everything from energy use to space allocation.
- Environmental and Health Monitoring: Advanced sensors can monitor factors like air quality, humidity, and temperature, ensuring a healthy and comfortable environment for tenants.
- Integration with External Systems: Smart buildings can often integrate with external systems, such as the electrical grid or weather prediction services, to further optimize operations. APIs are often used.
- Future-proofing and Scalability: As technology advances, a smart building should have the infrastructure in place to incorporate new innovations and expand its capabilities.

For a commercial real estate property manager, a smart building represents an opportunity to drive operational efficiencies, reduce costs, enhance tenant satisfaction, and increase the overall value of the property.



# **INTERNET OF THINGS**

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# WHY WOULD I WANT A SMART BUILDING?

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# Building Decarbonization

### 80X50 PLANS













Big Tech Approach: Independent Data Layer & Smart Buildings

## Vertical, Siloed

#### Horizontal



#### **CUSTOMERS ARE FACING INCREASING CYBER THREATS**

- Professional hackers
- Accidental insiders
- Script kiddies
- Corporate spies
- Ideological hackers
- Malicious insiders
- Criminal hackers
- Disgruntled employees



## CLOUD APPLICATIONS & SMART BUILDINGS

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#### Honeywell | Buildings Sustainability Manager

POWERED BY HONEYWELL FORGE





•28%

Least Utilised

•90%

Most Utilised

## **API INTEGRATIONS**

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# Application Programming Interface (API)

#### What is an API?

API is the acronym for application programming interface — a software intermediary that allows two applications to talk to each other. APIs are an accessible way to extract and share data within and across organizations.

APIs are all around us. Every time you use a rideshare app, send a mobile payment, or change the thermostat temperature from your phone, you're using an API.

Used commonly in Smart Building applications to integrate systems data. Facial recognition and other access/security technologies will use APIs to integrate to other systems. JSON, REST, HTTP, etc.



## **PRINCETON IDENTITY**

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