

Metasys®

A New Kind of Smart

- Swarup Biswas
- VP , Asia Lines of Business
- 15th September 2015

The solution better building efficiency— **Metasys®**

By delivering essential instrumentation, command and control combined with advanced applications, **Metasys®** is the world's leading Building Management System (BMS).

The Metasys® Building Automation System

- The world's leading hardware and software components that work together to **sense, automate** and **control** operation of a building's HVAC, lighting, and other mechanical and electrical subsystems.



The Metasys® Enterprise Optimization Suite

- A family of IT-based solutions to **extend** the capabilities of sensing, control, and automation hardware to direct both automated and manual improvements to system operations in a single building or across and enterprise portfolio.



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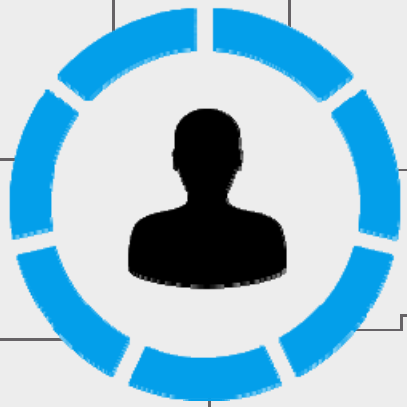
METASYS
MASTER YOUR ENVIRONMENT
Johnson Controls

What we hear from users and the market

"Provide an **easy to learn system** with simple and natural ways to find information

"Deliver performance **visibility and relationships** between spaces, equipment & buildings"

"Allow access to Metasys **from any device** without installing client side software"



"Help me simply uncover and **resolve issues** anytime, any place"

"I need to **manage across buildings, campuses and entire enterprises** seamlessly"

"Reduce **energy cost**, consumption, and related **carbon footprint**"

"**Summarize all my equipment**, so I can conduct comparisons"

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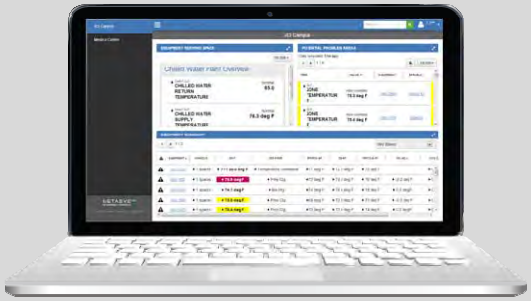
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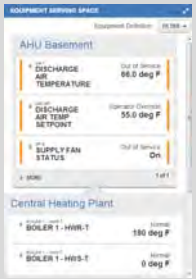
Metasys® Building Automation System

Johnson Controls, Inc.

While **Metasys®** is the leading BAS in the world, we listened to our customers and delivered in **Metasys® 7.0**







Provide an **easy to learn system** with simple and natural ways to find information

Clearly **display relationships** between spaces and equipment

Allow access to our BAS system **from any device** without installing client side software

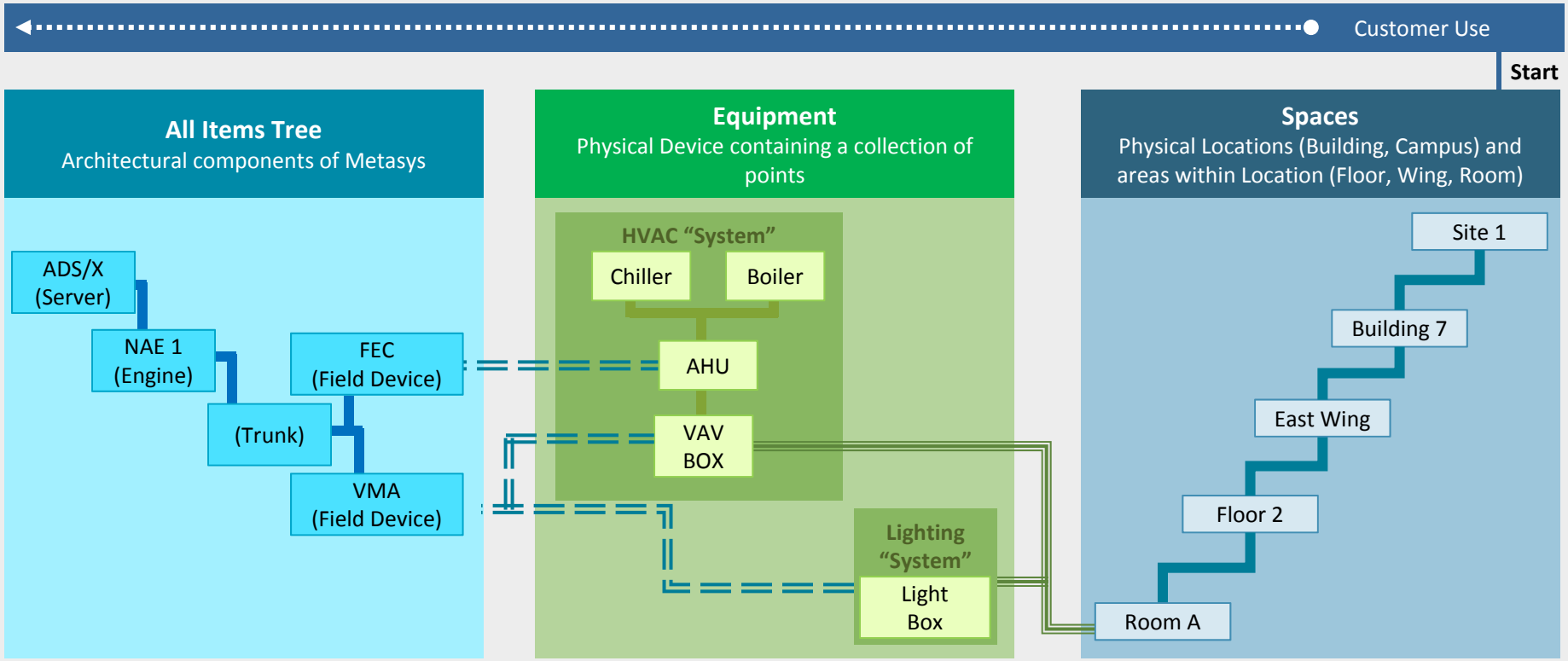
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Diagnosing a problem the traditional way

Connecting the Dots



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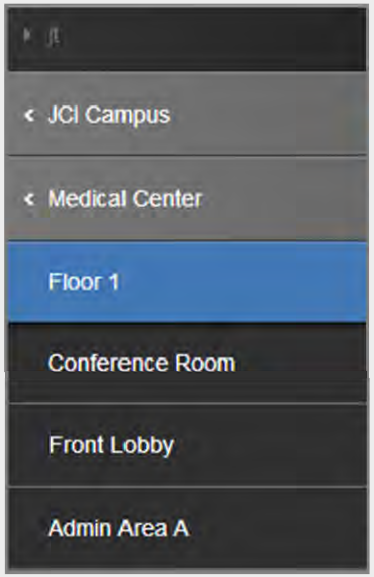
Metasys® 7.0 makes it easy to learn BAS of the building

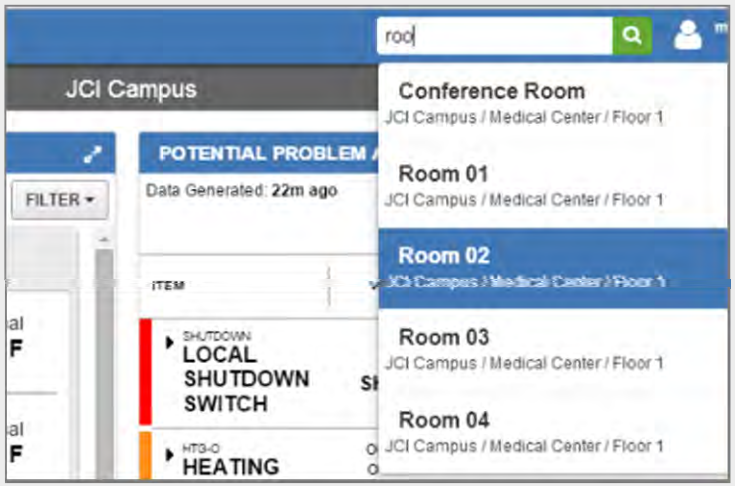
"Provide an **easy to learn system** with simple ways to find information, so I can be instantly successful without having to attend lengthy training classes."

100% pure space-based navigation.
Less than **5 minutes** of learning.

Customer Benefits:

- Space-based navigation eliminates extensive training
- Organized data allows faster completion of tasks







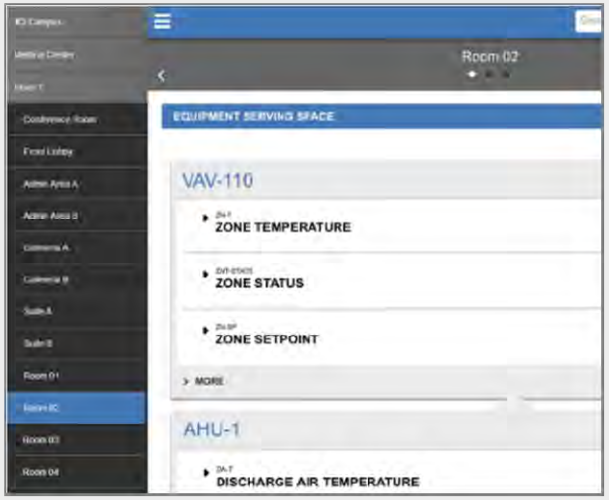
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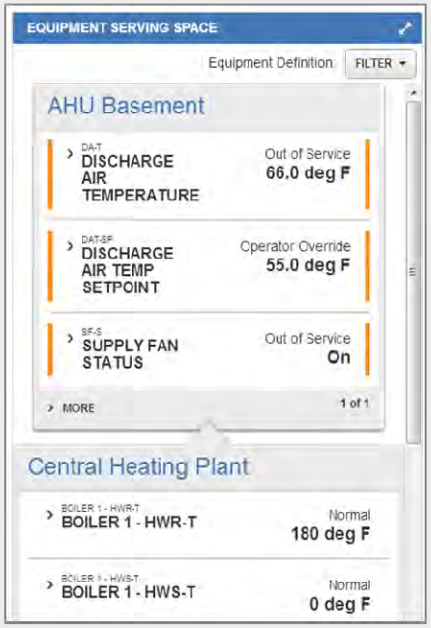
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Displaying the relationships between spaces and equipment

"Clearly **display relationships between spaces and equipment** because I can't memorize them all and I need to understand them for troubleshooting."

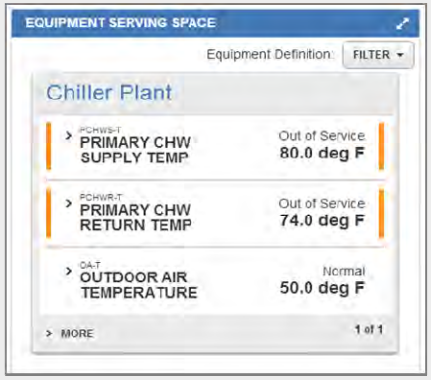
Information is displayed without custom navigation and graphics.





Customer Benefits:

- Troubleshoot without memorizing relationships
- Intuitive display of information the way it is used



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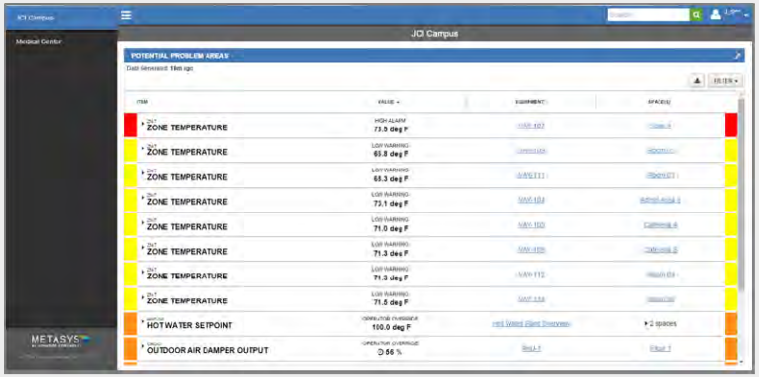
Uncover and resolve issue within a space quickly

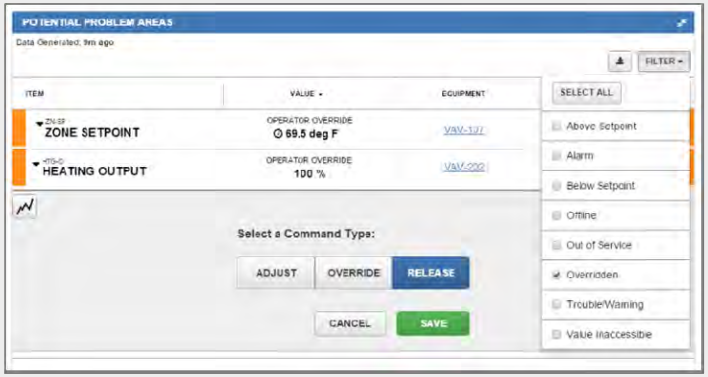
"Help me **uncover and resolve issues within a space**. Show me where the problems are and let me fix them quickly."

Single report for status information within any space. Take action to resolve issues from here

Customer Benefits:

- Use as daily "punch list" to effectively manage buildings
- Prevents from "hunting" for info; increasing productivity





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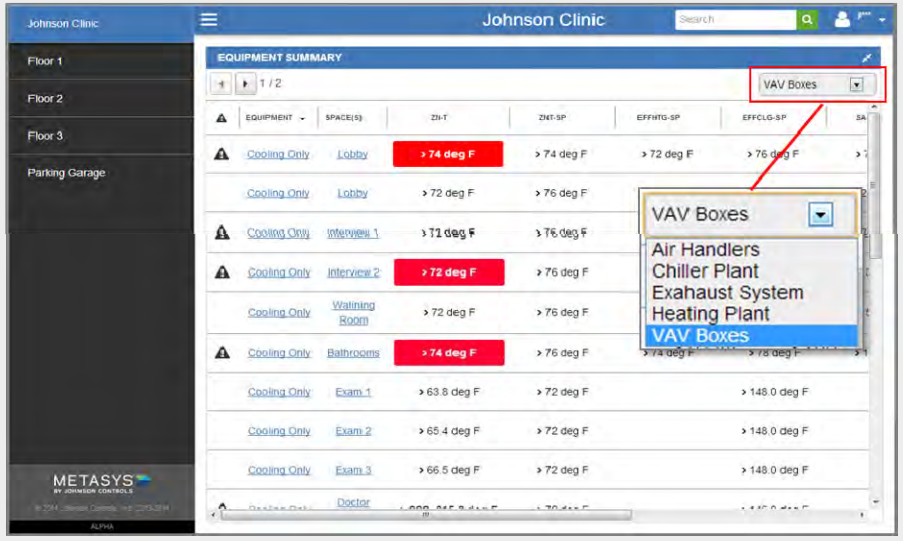
Diagnose through performance comparison

"**Summarize all my equipment into a single view**, so I can quickly conduct comparisons between similar equipment."

Equipment Summaries available automatically to enable quick comparisons

Customer Benefits:

- Easily compare between equipment within a space
- Locate problem areas faster
- Reduce troubleshooting time



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Accessing **Metasys® 7.0** : New User Interface

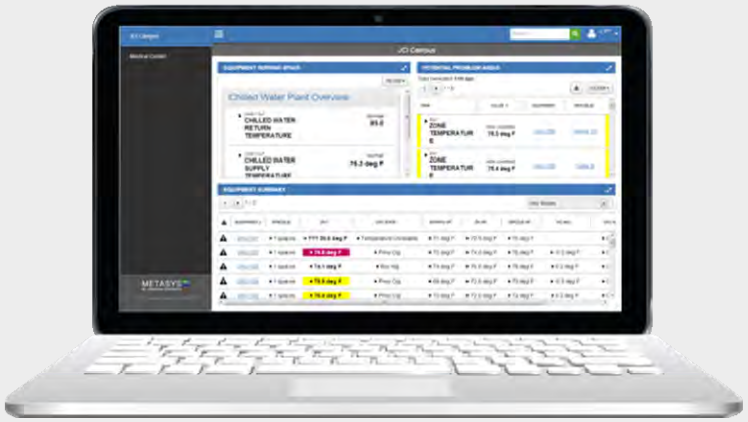
"Allow access to Metasys **from any device** without installing software, so I can still be in control even when I'm on the go."

One seamless experience.
No software installed on the client device.

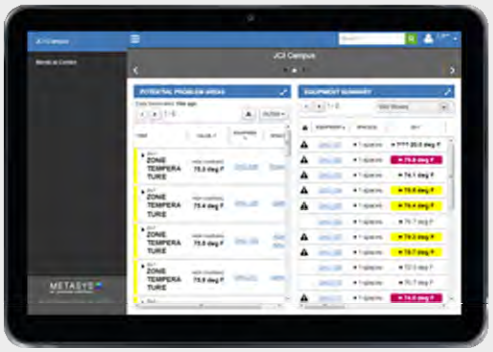
Customer Benefits:

- Eliminates time spent installing or updating software
- Reduces learning time
- Accessible from any device

Large Format (PC, MAC)



Medium Format (Tablets)



Small Format (Phones, iPad Mini)



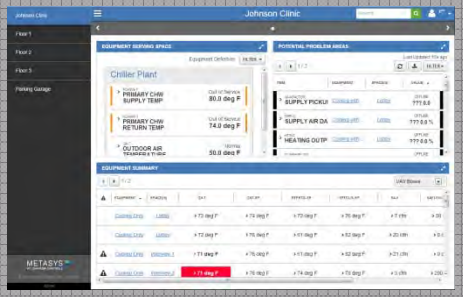
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What Our Customers are saying about the **Metasys® 7.0** BAS







"I've just seen the **next big thing**! This is the tool we've been looking for to **better connect** our HVAC and Controls teams."

"The mobility concepts **align really well** with our business goal to provide the **ultimate remote experience** for the occupant."

"I can see some **significant time savings** for responding to occupant comfort calls. I **love the direction** its going."

"I think this offers us an **opportunity to change the entire industry**."

"I haven't seen anyone have something so **intuitive** and **easy to use."**

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Case Studies

Eskenazi Hospital: Technology to heal and prosper



Project:	**Eskenazi Hospital, Indianapolis, IN**
Total Project Budget:	**$754 M**
JCI Contract Value:	**$ 41.2M ($ 9.3M – BAS, $ 31.9M – NIS)**
Type:	**Technology Contracting**
Architect:	**HOK / Tech Consult - Syska Hennessy**

- 1.3 M sq. feet on a 37-acre site in downtown Indianapolis.
- The campus has 315 inpatient beds, 19 operating rooms, an administrative office building, mental health building, parking garage, and central utility plant.

Environmental Documentation — Ensure Compliance

- Proactive Notification
- Compliance/Root Cause Analysis
- Preventative Maintenance

Energy Savings — Optimized Energy Use

- Utility Costs & Usage
- LEED®
- Environmental & Community Stewardship

Clinical Workflows — Support Hospital Staff

- Patient Outcomes
- Surgical Event Recordkeeping
- Quick OR turnover

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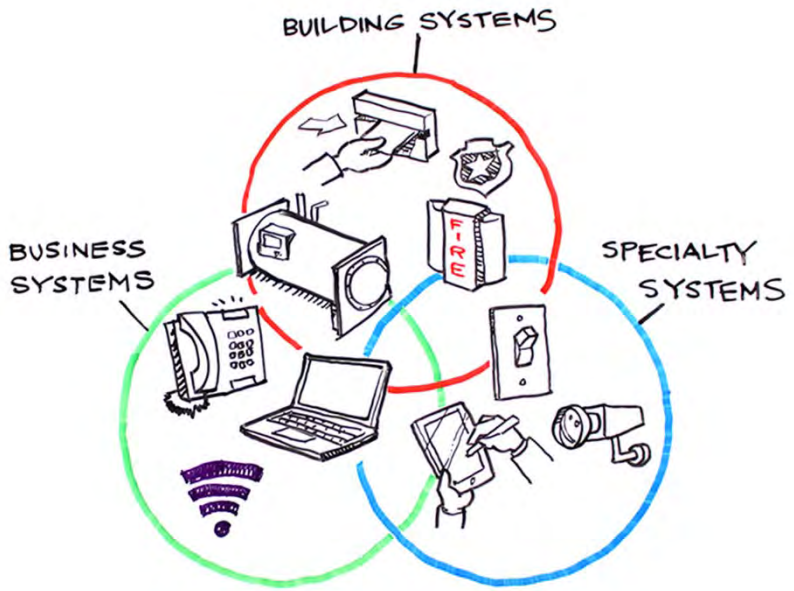
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Hudson Yards : Transforming New York City



Project:	**Hudson Yards, Tower C**
Initial Contract Amount:	**$24.5 M**
Type:	**BWSI/NIS/S&F**
Owner:	**Related Properties**
General Contractor:	**Tutor Perini**
Designer:	**JB&B Engineers**

- The habitable space will top out at 18 million square feet creating the largest real estate project in the history of the United States.
- Transforming Hudson Rail Yards into a visionary, technologically integrated campus of 16 buildings on 26 acres of prime real estate on the west side of Manhattan.
- The new commercial mixed use development will have high-rise commercial buildings, office towers, high-end residential offerings, shopping, entertainment, and a school system.



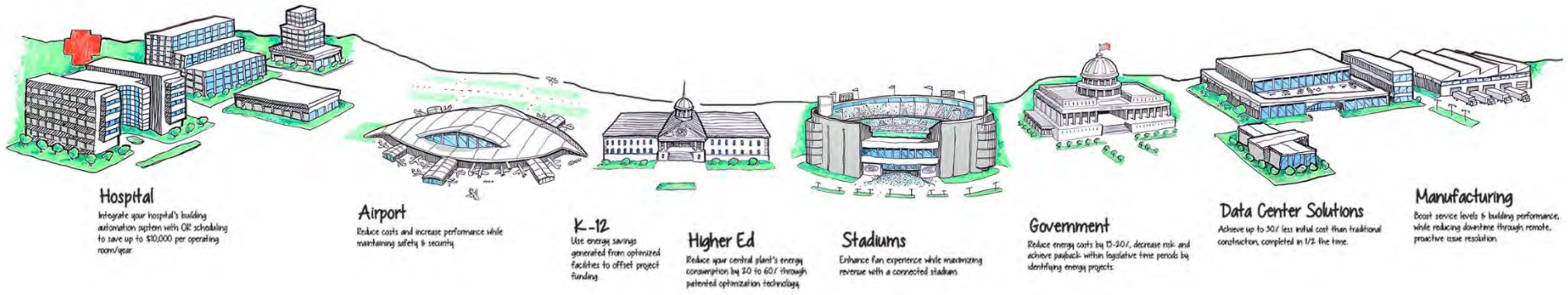
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Hospital
Integrate your hospital's building automation system with OR scheduling to save up to $10,000 per operating room/year.

Airport
Reduce costs and increase performance while maintaining safety & security.

K-12
Use energy savings generated from optimized facilities to offset project funding.

Higher Ed
Reduce your central plant's energy consumption by 20 to 60% through patented optimization technology.

Stadiums
Enhance fan experience while maximizing revenue with a connected stadium.

Government
Reduce energy costs by 15-20%, decrease risk and achieve payback within legislative time periods by identifying energy projects.

Data Center Solutions
Achieve up to 30% less initial cost than traditional construction, completed in 1/2 the time.

Manufacturing
Boost service levels & building performance, while reducing downtime through remote, proactive issue resolution.

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