Using a Smart Building Implementation Model to Transform the Built Environment

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Agenda

• Smart Building Insights
• Smart Building Implementation Model
• Q&A
Learner Outcomes

• Express the steps in the smart building implementation model that will lead to success.
• Explore how changing occupant demands across many industries should be taken into account for developing specific technology requirements.
• Learn how to build a successful interdisciplinary team that will take your strategy from ideas to implementation.
• State what to expect once a smart building is implemented.
"A smart building uses an integrated set of technology, systems, and infrastructure to optimize building performance and occupant experience."
Integrated Technology Infrastructure
Data Intelligence

Autonomy & Artificial Intelligence (AI)

Descriptive
What is happening?

Diagnostic
Why is it happening?

Predictive
What may happen?

Prescriptive
What do I need to do?

Systems & Tools

Systems Integration

Data Warehouse, Reports, Dashboards

Analytics & Machine Learning
What We Are Hearing

- Does machine learning really work?
- BMS is not giving me the savings to achieve goals
- Building Technologies not meeting expectations
- Systems won’t ‘talk to each other’
- Why do I need an analytics platform with a BMS?
- Don’t have time. Dealing with tickets.
SMART BUILDING IMPLEMENTATION MODEL®

OPPORTUNITY AWARENESS
GAP ANALYSIS
TECHNOLOGY SELECTION & SYSTEMS INTEGRATION DESIGN
SYSTEMS DEPLOYMENT
OPTIMIZATION
Opportunity Awareness

- The Why
- Main Objectives & Goals
  - Financial
  - Occupant Experience
  - Sustainability
  - Safety
Gap Analysis

• Interoperability
• Talent & Workforce Skills
• Cultural Understanding
• Funding Levels
Technology Selection & Integration

- Function
- Communications
- Backhaul
- Systems Interoperability & Integration
- Physical
- Cybersecurity
Trending Technology

5G  CBRS  REOPENING SINGLE PAIR
Systems Deployment

- Schedule
- Install
- Integrate
- Test
- Train
Optimization

• Data is the New Gold
• Provides Actionable Data
• Multiple Data Sources
• Improves Operational Efficiency
• Pathway to Autonomous Smart Building
Data is New Gold

Image courtesy of Deloitte
Key Takeaways

• A Smart Building implementation model will lead to success.
• Changing occupant demands across many industries should be taken into account for developing specific technology requirements.
• Build a successful interdisciplinary team that will take your strategy from ideas to implementation.
• Develop outcomes and expectations for smart buildings
Questions?

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