Think big. Take action.
Emerging & Converging Technology
Smart Buildings

The near future of facilities on college and university campuses will see a blurring of facilities management and IT departments. IoT deployment is already occurring, producing terabytes of metadata equally managed, shared, and utilized between FM and IT departments.

David Handwork, Assistant Vice Chancellor for FM at Arkansas State University
We used to work in silos.

- Finance
- Food service
- Security

Now we plan holistically.

- Facilities/Operations
- Technology
- Transportation

Plan for the whole district from an efficient, unified approach.
Integrated Systems

Open platforms allow all moving parts to work together, as opposed to a series of independent programs. We can deploy technology as a bridge built between every department on campus.
Analytics

Technology allows all departments to improve efficiency, increase safety and nurture a better learning environment.
Sensors

Sensors and actuators help save energy for specific tasks and better inform facility team of temperature, light, and sound levels in the building.

- Food service refrigerators
- Door openings
- People counters
- Panic buttons
Video Surveillance

Video analytics make surveillance systems smarter, more accurate, and more manageable for systems and users.

- People counting
- Motion detection
- License plate detection
Sound Intelligence

Many security incidents are preceded by noise. Cameras with sound detection capabilities automatically alert for potential and actual incidents in real time, and enable quick, relevant actions to minimize the consequences.
Key Management

Still using technology from 1844?
- Manage keys through software, limiting the school's exposure to lost or stolen keys.
- Different groups can manage access to their assets. For example, the volleyball coach has access to the ball closet during the season, while the basketball coach does not have access to drop the hoops during volleyball practice.
Network Access Control

Protect your network with confidence.

- Ports and access are defined by software
- Reliable bandwidth even while students’ and visitors’ devices all connect to the same network
- Disaster recover and cyber security
Clocks

Remember when clocks could only tell time?

- Mass notification
- Weather
- Calendar reminders
School Buses

Kids are our responsibility from the time we pick them up until the time we drop them off. In this litigious culture we must embrace technology to help our drivers be their best.

- Cameras, ridership, and driving data connects to our student information systems
Smart Buildings

Currently, industry standards are minimal or non-existent regarding standardization of data integration and management for facilities managers. APPA is breaking into the standards world with APPA Standard 1000 Total Cost Ownership. This standard and future standards will equip not only education facilities managers with data management framework but universally all facilities managers. Future standards will be needed to ensure data security, integrity, and universal platform integration.

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BIM

Now that BIM is becoming more commonplace in facility management, we appreciate efficient data accessibility and improved collaboration. This allows for easier access of floor plans and asset information, promoting efficiency of scale.
Delegate to IoT

Delegate some of Operations Directors’ increased responsibilities by offloading to technology. Facilities Management is beginning to blend with IT departments, and the tools of technology enable your team to control all aspects of a facility. An overarching IoT approach can help keep operational costs down.

Make technology work for you.
Resources

Who can help leverage technology for your facility in a unified effort? What resources currently in the marketplace can help keep you updated on the latest products and services?

- General Contractor
- Architect
- Consultant
- Integrator
- MSBO
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