

# Digital Twin Technology

## TRANSFORMS HIGHER EDUCATION FACILITIES MANAGEMENT

**Aramark's TwinOptix<sup>®</sup> asset and space management solution provides actionable, data-backed insight into your campus facilities.**

Digital twinning is an exceptional way to capture and share information about your institution's spaces, assets and exteriors. Creating a [virtual, dimensionally accurate representation](#) of your campus — including exterior spaces such as landscaping, roofs, pools, fountains and other features — allows you to understand every inch of your facilities from anywhere.

## TwinOptix<sup>®</sup> INTEGRATION

*With IoT Remote Monitoring*

TwinOptix<sup>®</sup> uses Aramark's three-dimensional digital twinning web-hosted platform and integrates with your tools, including your CMMS, as well as with Aramark's Internet of Things (IoT) technology platform [AIWX™ Connect](#).

This integration with IoT sensors means that your models can pull in real-time data and valuable insights about space utilization, equipment performance, air quality, exterior door usage, water leaks, energy consumption and more.

The combination of these two leading-edge solutions empowers fast, confident and data-driven decision-making that improves efficiencies and reduces costs.



*And that has major implications for improving space planning, design concepts, capital program, operational, maintenance and custodial efficiency for higher education institutions.*

TwinOptix<sup>®</sup> puts the power of digital twinning at your fingertips, revolutionizing what's possible with facilities management. The asset and space management solution enables you to view your buildings virtually, better understand what's possible with space, capital planning and facilities management.

## HOW DOES TwinOptix<sup>®</sup> WORK?

Scans capture visual and spatial data of your spaces and asset information, which then become 3D models and 2D floor plans. TwinOptix<sup>®</sup> is flexible and scalable, customizable to your campus' needs.

A suite of innovative features allows you to:

- **Share digital notes and information in real-time with internal maintenance staff or contractors**
- **Locate any asset or area with a keyword search**
- **Embed pop-up notes, asset information, safety items, videos, tasks or links with asset tags**
- **Take accurate measurements of anything featured in the digital twin**
- **Store historical information about your assets**
- **Access or share 3D videos and history of equipment before service or repair visits**
- **Effortlessly generate 2D floor plans**
- **Review 3D models of outdoor locations for assessing conditions and planning**
- **Provide access with your campus security**

Remotely accessible, accurate virtual models take higher education facilities management efficiency and innovation to the next level.

# FACILITIES MANAGEMENT CHALLENGES, SOLVED

Overcome pressing operational challenges to unlock new opportunities for cost savings, improvement and growth.



## Maintenance & Repairs

Predictive maintenance insights help you plan in advance and avoid unexpected equipment downtime, while all asset information and history are stored in an easily accessible location that can be shared directly with internal staff or contractors prior to a visit. Reduce cost and time to close work orders.



## Virtual Tours

Offer virtual tours of your educational spaces, research facilities and campus grounds to attract prospective students, faculty and staff. A tech-forward approach to showcasing your best assets helps you reach a wider audience and better engage with them.



## Employee Training

Enhance the training experience for custodial and maintenance staff by incorporating detailed notes, relevant links and additional training materials directly into the 3D models using user-friendly tags. This more immersive training approach ensures a thorough understanding of the environment and equipment without the need for physical presence.



## Indoor Air Quality & Environmental Risks

Monitor environmental risks, like air quality and leaks, to prevent costly repairs and ensure staff can respond rapidly to any emergent needs. Maintenance personnel can quickly locate service requests within the model, access linked documents and service notes, as well as virtually visualize the precise location requiring attention.



## Space Planning

From event planning to [demand-driven cleaning](#), digital twinning allows you to easily map your spaces and share those plans. Create cleaner and more energy-efficient spaces by strategically leveraging space utilization data.



## Emergency Planning

Convert 2D floor plans into emergency egress maps for your buildings. Enhance your emergency plans with 3D virtual models for your security and first responders.



## Renovation Cost & Time

Simplify the process of creating building information models and CAD drawings by leveraging data from the as-built reality captures. Eliminate time for architects and engineers by providing a jumpstart to the initial documentation and design assets.



## Insurance & Restoration

Deliver accurate, transparent and fair documentation to your insurance carrier, claims adjuster and restoration companies. Save time, cut costs and close claims much faster.



## Quality Management & Progress Monitoring

Save time and reduce risk throughout the construction cycle with progress monitoring.

**AT ARAMARK**, we support hundreds of higher education institutions every day. We know how to get things done. And with the TwinOptix® asset and space management solution, getting things done is easier, faster and more cost-effective than ever.



# twinoptix®

To learn more about how TwinOptix® can transform your business' facilities management operations, visit our website or contact us today.

Contact Us Today

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