



LANGAN

Digital Solutions for Educational Institutions

TECHNICAL EXCELLENCE | PRACTICAL EXPERIENCE | CLIENT RESPONSIVENESS



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Transforming Campus Operations with Innovative Solutions

Langan’s Digital Solutions Team harnesses spatial technologies and tailored digital platforms to transform how educational institutions approach operations. By integrating intelligent data-driven solutions, we deliver powerful tools that streamline classroom experiences, reduce operational costs, and simplify campus-wide operations. From predictive analytics and cloud-based systems to digital dashboards for resource management, our solutions empower institutions to make informed decisions, maximize efficiency, and foster innovation.



Key Benefits



Cost Savings

Identify usage patterns to minimize utility waste and reduce operational costs across the campus.



Asset Tracking

Accurately map and inventory utility-related assets for easier management and quicker access.



Reporting & Analytics

Make data-driven decisions using location-based analysis for campus-wide utility management improvements.



Maintenance Management

Simplify maintenance processes with task tracking and issue resolution.



Integration with Existing Systems

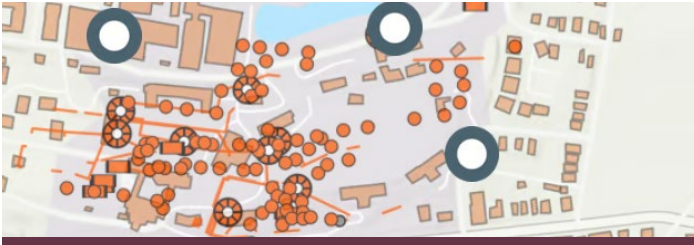
Seamlessly integrate with existing enterprise business systems for real-time data.



Campus Expansion Planning

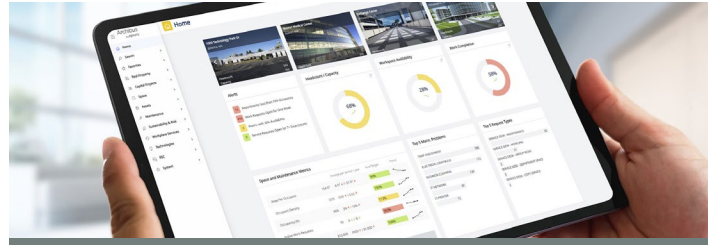
Use GIS-based location intelligence to map and plan future infrastructure improvement projects to communicate and minimize disruptions.

Digital Solutions Services



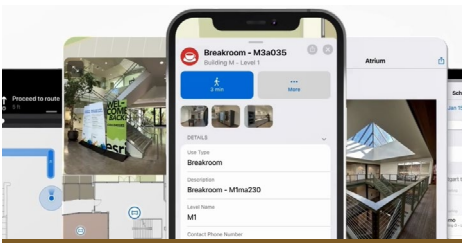
Utilities Asset Management

- Enterprise Asset Management
- Utility Management / Utility Network
- Hydraulic Modeling
- Landscape Management



Indoors / IWMS

- Asset & Equipment Management
- Space & Occupancy Planning / Management
- Maintenance Management
- Real Estate & Lease Management



Safety and Security

- Critical Incident Mapping
- Panic Button Alerts
- Integrated Camera Feeds
- ADA Mapping & Compliance



Systems Architecture

- Managed Cloud Environment
- Systems Implementation
- Process Automation
- Application Development



Digital Twins

- 3D Spatial Analysis
- Sensor Integration
- Trends & Predictive Analysis
- BIM Integration

Software Solutions

We have experience utilizing leading platforms to help accomplish our client's goals.





Digital Solutions for Campus Safety and Security

Delivering Solutions to Help Keep People Safe

Langan turns campus maps into live, data-rich command centers that give safety teams instant clarity when every second counts. We leverage the power of GIS technology to fuse real-time location data with detailed floor plans, asset inventories, evacuation routes, and even occupant rosters so responders know exactly where to go, what hazards to expect, and who needs help. By transforming disparate campus information into a single intuitive view, we slash response times, improve coordination with local agencies, and help institutions protect students, faculty, and visitors with confidence.



Key Benefits



Cutting Edge Technology = Fast Results

Quickly locate rooms, spaces and physical assets on a map with ArcGIS technology.



Aerial Imagery Base Map

Our solutions can be built on top of aerial imagery providing context to incident locations.



Live Dashboard Maps

Live interactive maps are available on mobile apps, web browsers, and desktop GIS software.



View Camera Feeds on a Map

Integration with existing CCTV systems to pull live camera feeds directly to the GIS.



Paper Maps for First Responders

Offline copies of maps are also available for on-the-ground responders who need paper maps.

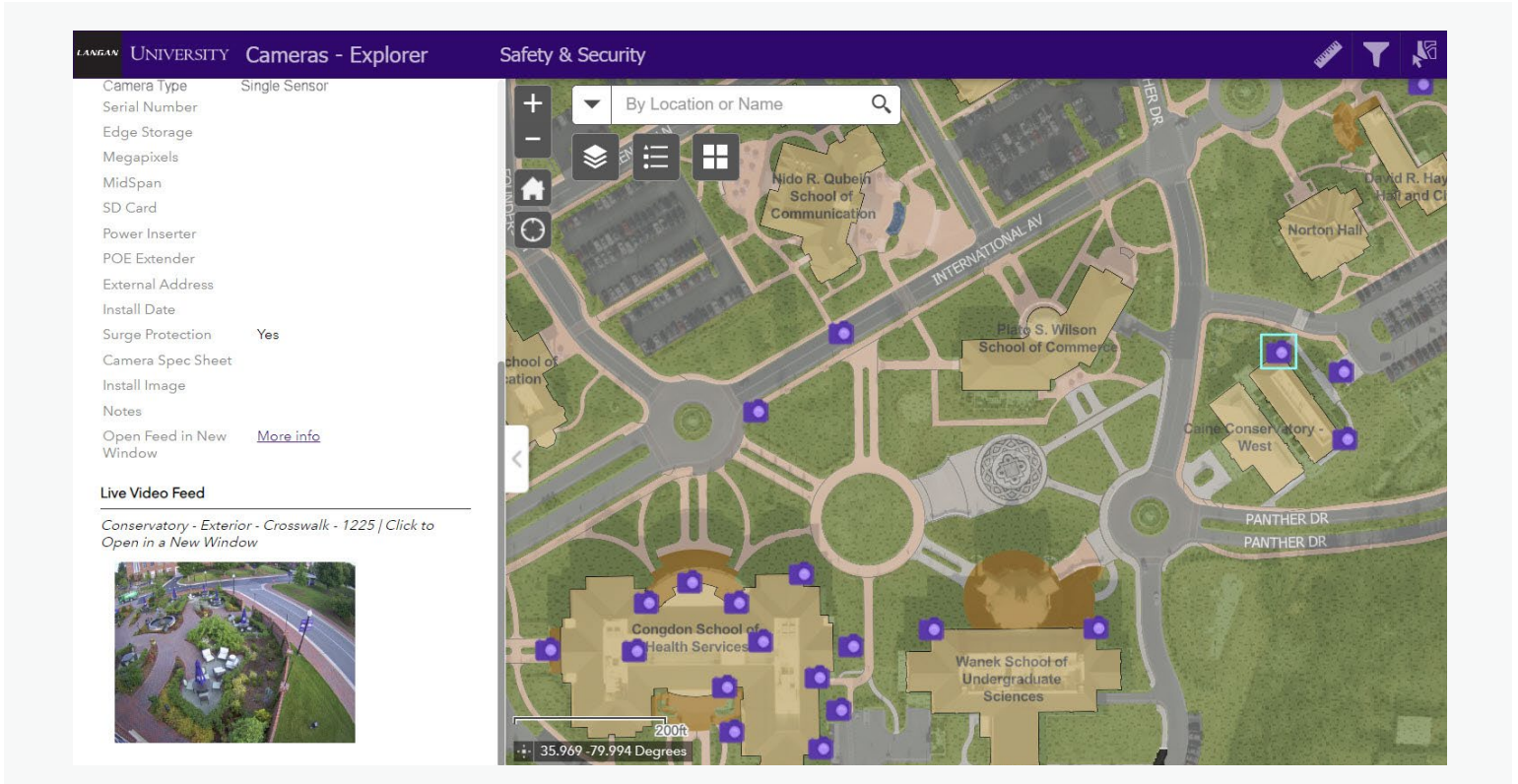


Panic Button & IoT Sensor Support

Langan can integrate IoT sensors and panic buttons to pipe alerts into our mapping deliverables.

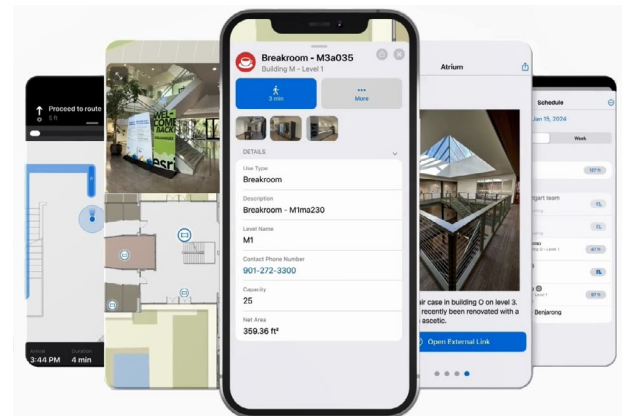
Campus Safety & Security Digital Solutions

- Facility Indoor & Outdoor Mapping
- Utility Shutoff Mapping
- Asset Inventories & Mapping
- Critical Incident Mapping
- ADA Mapping & Compliance
- Risk & Emergency Management



Campus Safety & Security Services

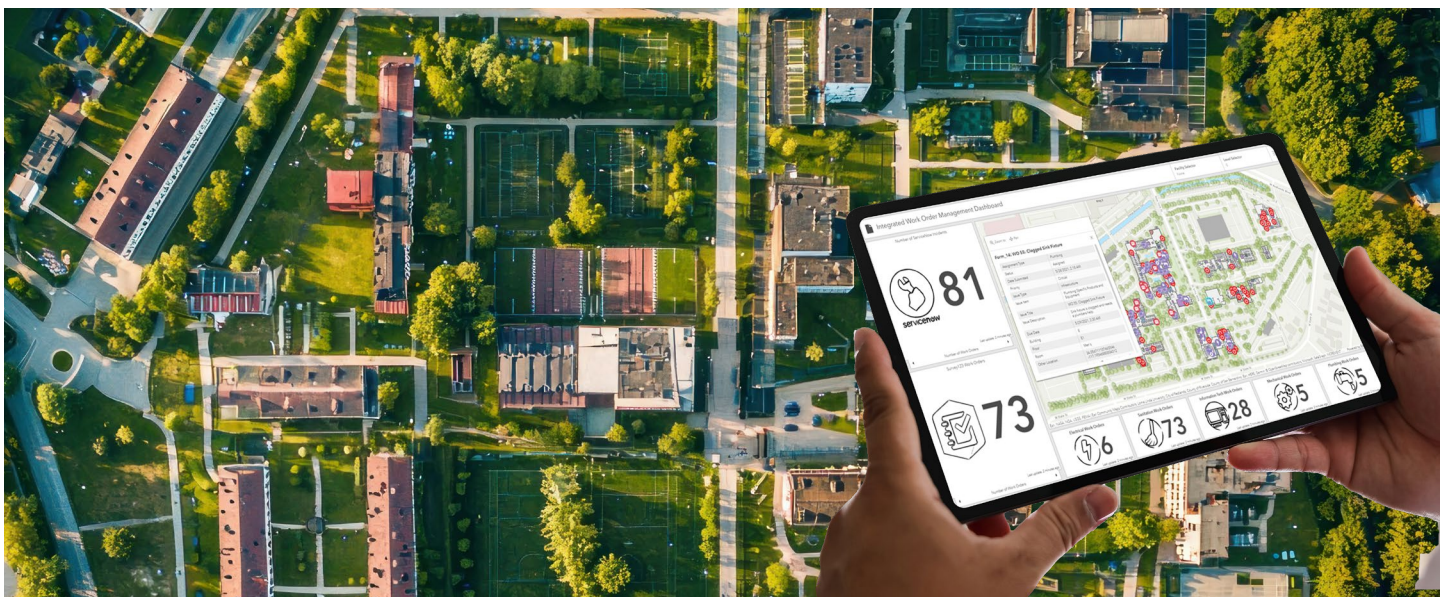
- Aerial Imagery Capture
- Building Scanning & 360° Imagery Capture
- Custom Integrations with IoT & other Business Systems
- ArcGIS Implementations & Mapping Systems
- Digital Twin Development
- Panic Button & Security Camera Integration





Enhancing Campus Operations with Spatial Mapping Technology

Langan's Digital Solutions Team leverages advanced spatial mapping technologies and custom-made dashboards to revolutionize asset and facilities management for educational institutions. By integrating cutting-edge Geographic Information Systems (GIS) with real-time data, we create interactive digital maps that precisely visualize campus assets, including utilities, equipment, facilities, and infrastructure.



Key Benefits



Cost Savings

Identify usage patterns to minimize utility waste and reduce operational costs across the campus.



Asset Tracking

Accurately map and inventory utility-related assets for easier management and quicker access.



Reporting & Analytics

Make data-driven decisions using GIS-based analysis for campus-wide utility management improvements.



Maintenance Management

Simplify maintenance processes with task tracking and issue resolution.



Integration with Existing Systems

Seamlessly integrate with existing systems for real-time data.



Campus Expansion Planning

Use GIS data to identify the best locations for future utility infrastructure with minimal disruption to existing systems.

Asset and Facilities Management Solutions

- Asset Inventories
- Facility Operations & Maintenance
- Space Management
- Safety & Security
- Event & Emergency Planning
- Landscape Management



Asset and Facilities Management Services

- Enterprise Asset Management
- Integrated Workplace Management
- Utility Management / Utility Network
- Hydraulic Modeling
- Risk & Emergency Management
- Indoor Scanning & Mapping
- ADA Studies
- Real Estate, Lease, & Space Management Technology Services
- On-Call GIS Services





Digital Twins for Academic Campuses

Empowering the Campus Operational Lifecycle with Digital Twins

Langan’s technology ensures seamless campus awareness helping organizations stay ahead of the curve, delivering an effective learning environment for students, faculty, and staff. Langan’s digital twins and related solutions help campus stakeholders market themselves, conduct capital planning, visualize proposed change, streamline maintenance, and respond to campus incidents. By integrating buildings, spaces, assets, and sensors into a single digital twin — explorable through light-weight web-based applications — we enhance operational efficiency, improve delivered services, and improve campus safety.



Key Benefits



Cutting Edge Technology

See features simultaneously across floors, buildings, or the campus in their 3D position.



Impact of Assets & Activities

Visualize which spaces are connected to assets not on the same floor, or impacted by an incident in a vertically adjacent floor.



See “Hidden” Assets

See underground utilities and other assets not normally visible.



Space Planning & Management

Understand space utilization and support reconfiguration for optimal efficiency.



3D Spatial Analysis

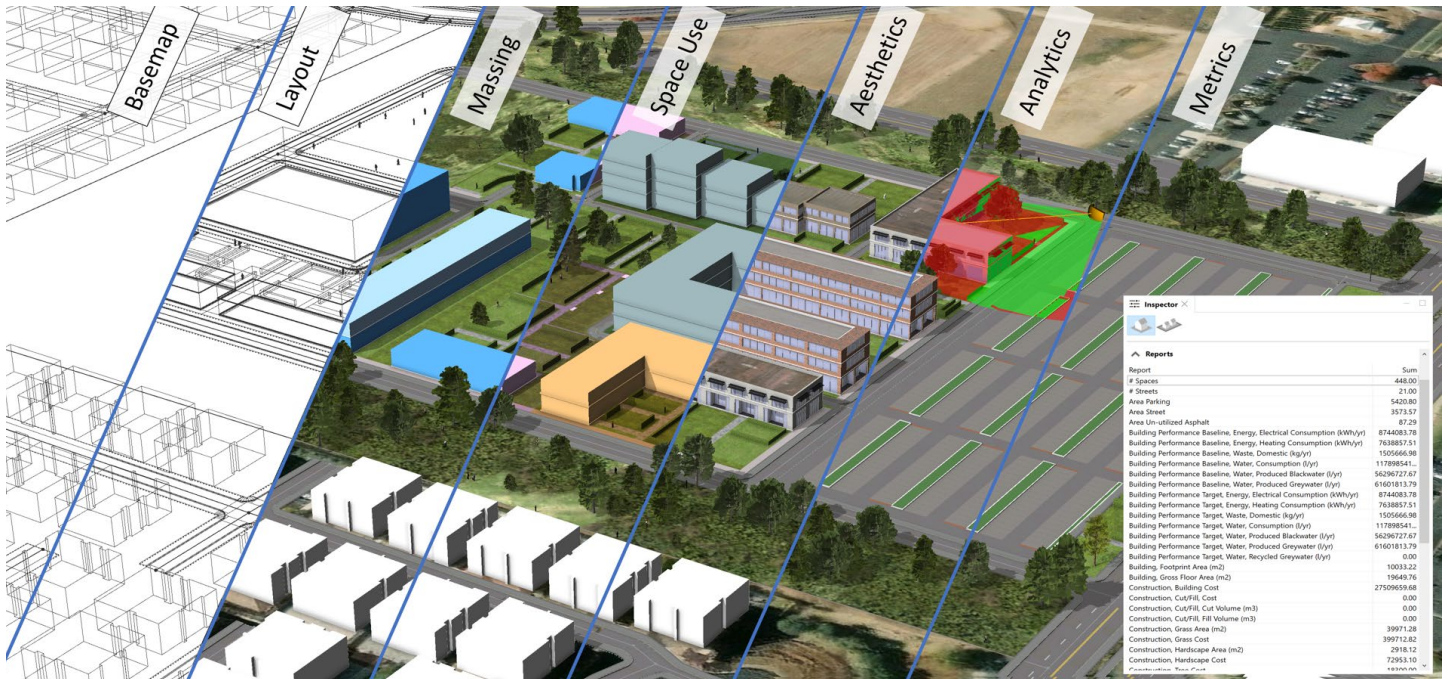
Conduct assessments for visual impact, shadow analysis, camera coverage, evacuation planning, and critical incident response.



Tie Into Real-Time Sensors & Data Feeds

By streaming live asset, sensor, and camera information to your digital twin, you can visualize the information proactively.

The Process



Digital Twin Services

- Data Migration
- 3D Mesh Generation
- Computer Generated Architecture
- BIM Integration
- 3D Network Generation
- 3D Utility Network Development
- Application Development & Customization
- Analytic Process Development
- Trends & Predictive Analysis
- Sensor Integration
- User Training





Empowering Smart Campus Solutions

Langan's Systems and Development Team works with colleges and universities to deliver innovative tools that strengthen decision-making, streamline operations, and enable efficient data sharing, which are designed to support smarter and more responsive campus management operations.

By modernizing system infrastructure, we address institutional challenges and empower leaders to optimize resources, maximize efficiency, and plan strategically for the future. Our solutions focus on secure, cross-departmental collaboration, helping campuses enhance service delivery, improve facilities management, and implement impactful sustainability initiatives.



Key Benefits



Seamless Connectivity

Unified data exchange eliminates silos and enhances operational efficiency.



Future-Ready Solutions

Scalable and flexible architectures adapt to campus growth and evolving needs.



Enhanced User Experience

Students, faculty, and staff benefit from streamlined interfaces and reduced complexity.



Time & Cost Savings

Integrated systems reduce redundancy while optimizing workflows and resource utilization.



Integration with Existing Systems

Seamlessly integrate with current systems to reduce manual entry and ensure real-time, accurate data across your campus.



Advanced Cybersecurity

Protect campus data proactively with modern security measures.

Systems and Development Solutions

We offer a range of innovative services designed to meet the diverse needs of college campuses.

- **Unified Campus Management Systems**
Integrate various campus operational systems to create a centralized platform enabling streamlined management across departments.
- **Campus-Wide Data Architecture Design**
Architecture services focused on building secure, scalable, and efficient solutions for handling campus-wide data needs.
- **Custom Software Development**
Create tailored software and tools from dashboards to mobile applications to meet unique campus needs.



Systems and Development Services

- ArcGIS Enterprise Configuration & Deployment
- Managed Cloud GIS Environments
- System Architecture Design & Implementation
- Web & Mobile Application Development
- Process Automation
- Automated Figure & Report Generation
- IoT / Real-Time Data Capture & Reporting
- GeoAI / Machine Learning
- Enterprise Systems Integration
- Data Extract, Transform & Load (ETL) Services
- Field Data Collection / Real-Time Mapping
- Data Dashboards & Web Viewers
- Spatial & Non-Spatial Data Integration
- Enterprise Software Integration





Operational Excellence for Educational Facilities

Langan's Digital Solutions Team delivers IWMS with GIS integration to transform campus management. We help educational institutions extend asset life, boost efficiency, and make smarter decisions by turning data into action. Our tools optimize space, improve scheduling, streamline maintenance, enable mobile inspections for real-time results, and more.



Key Benefits



Space Optimization & Utilization

Optimize workplace and research spaces with smart occupancy and usage insights.



Asset Tracking & Optimization

Streamline asset management with tracking and maintenance scheduling.



Reporting, Analytics & Dashboards

Visualized data and track with interactive reports using PowerBI and Tableau.



Maintenance Management

Simplify maintenance with task tracking and issue resolution.



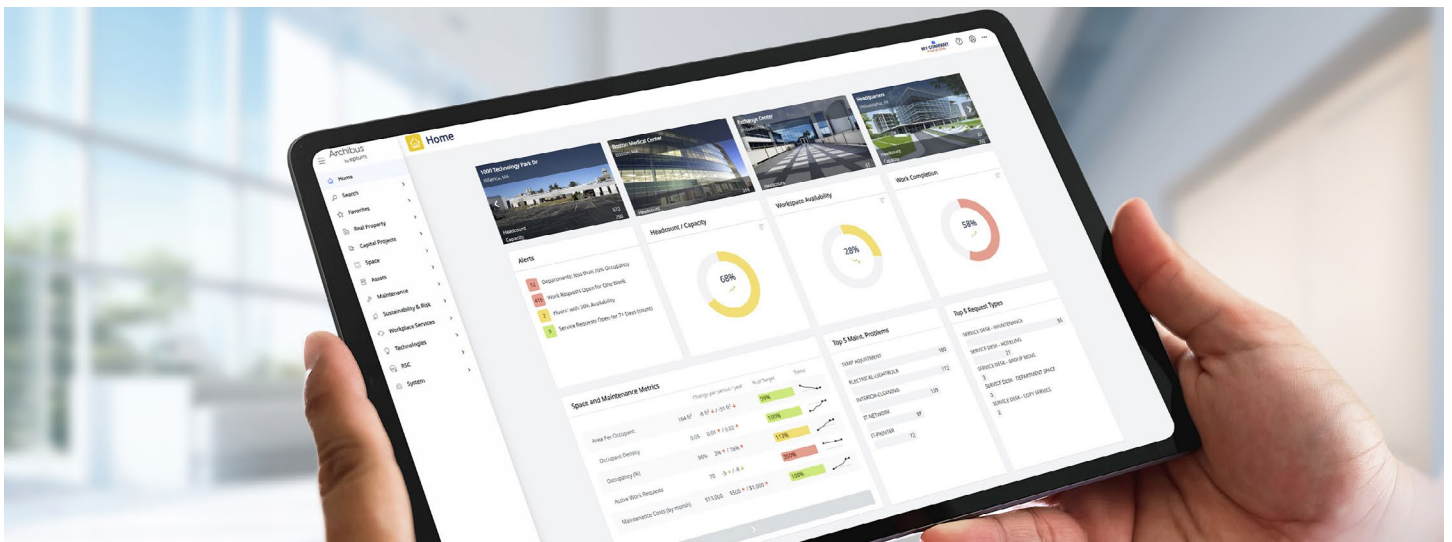
Integration with Existing Systems

Integrate seamlessly with existing systems for real-time data.



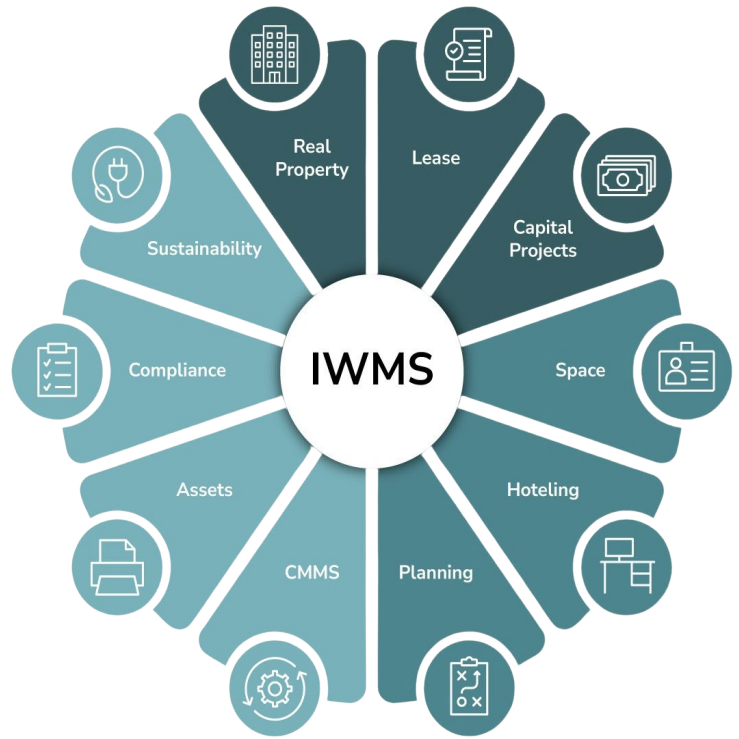
Visitor Management

Host visitors, elevate the guest experience, and boost security.



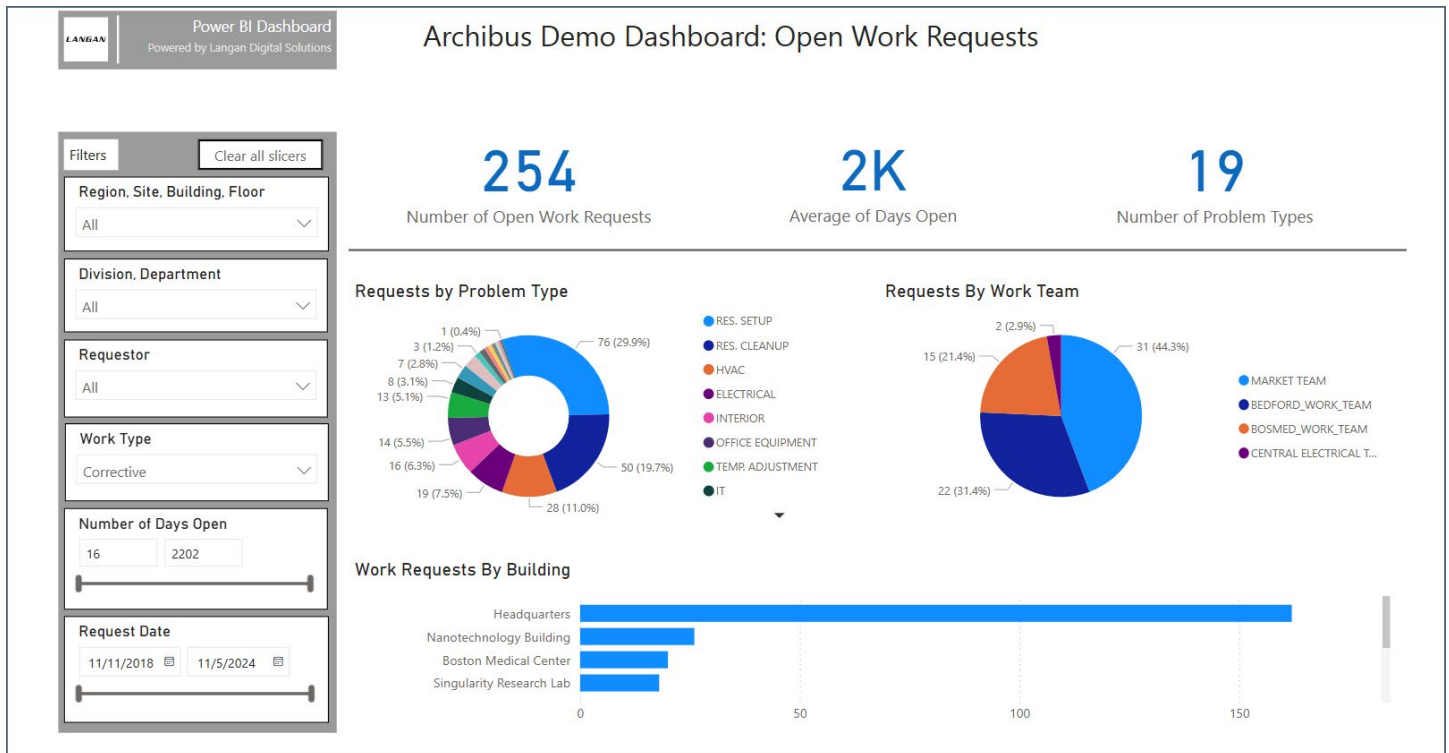
IWMS Solutions

IWMS software includes modules within a single application, enabling comprehensive and streamlined management, integration, and reporting for all aspects of the built environment.

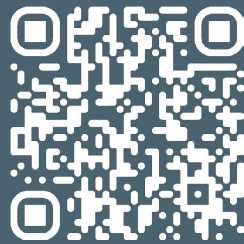


IWMS Services

- IWMS Implementation & System Integrations
- Full Support for AutoCAD Services
- Application Development & Customization
- Facility Management Consulting
- Hardware & Sensor Integration
- Ongoing Support



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Contact Us

SCAN QR CODE OR EMAIL US AT
DIGITALSOLUTIONS@LANGAN.COM

LANGAN

langan.com