



Internet of Things Glossary

API	Application Program Interface	BLE Beacons	Bluetooth Low Energy Transmitters
Geometri	Mapping Postioning & Analytics	Cloud	Internet Based Computing
DG Logic	Connecting the Internet of Things (IoT)	Fog	Close to Source Device Computing
Byte Light	Retail Mapping	Blue Dot	Pinpoint Positioning Via Bluetooth
VLC	Visible Light Communications	Geo-Fence	Mobil Device Location

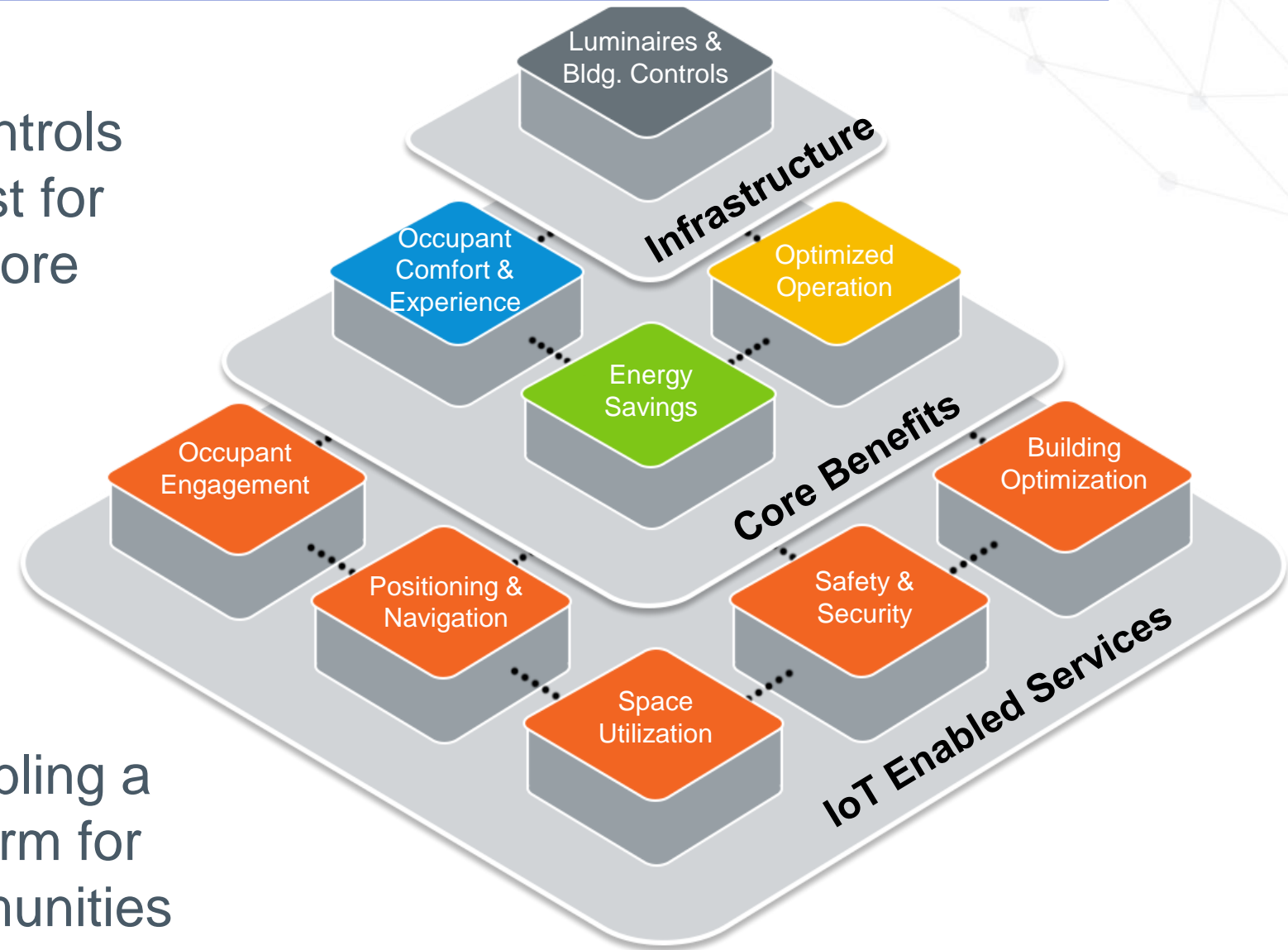


Energy Management is just the tip of the iceberg...

Consider the paradigm shift....



Lighting & Building Controls
Infrastructure **NOT** just for
traditional values & core
benefits...



but as a key **Asset** enabling a
Multi-Service IoT Platform for
Smart Buildings & Communities



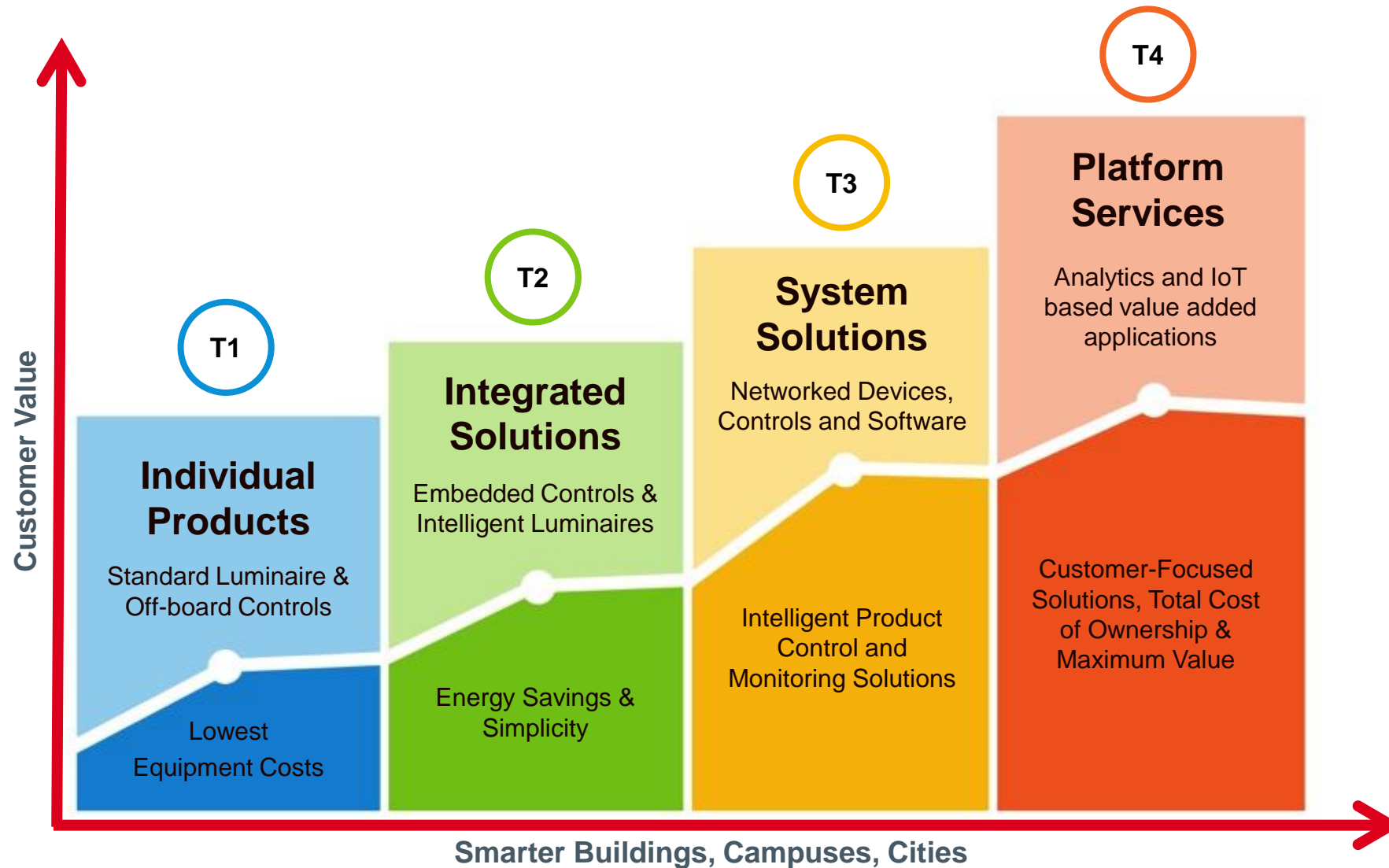
The Internet of Things (IoT) is connecting
Networks, People, Devices, and Data
to enable analytics, insight and action.

Lighting & Building Controls WILL drive IoT expansion



- + **Right Location:** Where there are people, there are lights & HVAC
- + **Right Connection:** Constant power, consistent placement, and onboard intelligence create ideal method of deploying a dense sensor/beacon network
- + **Right Time:** Ongoing Energy retrofits create a funding mechanism & natural pull for infrastructure upgrades

Tiered Strategy Drives Transformation



IoT Framework

IoT Solutions

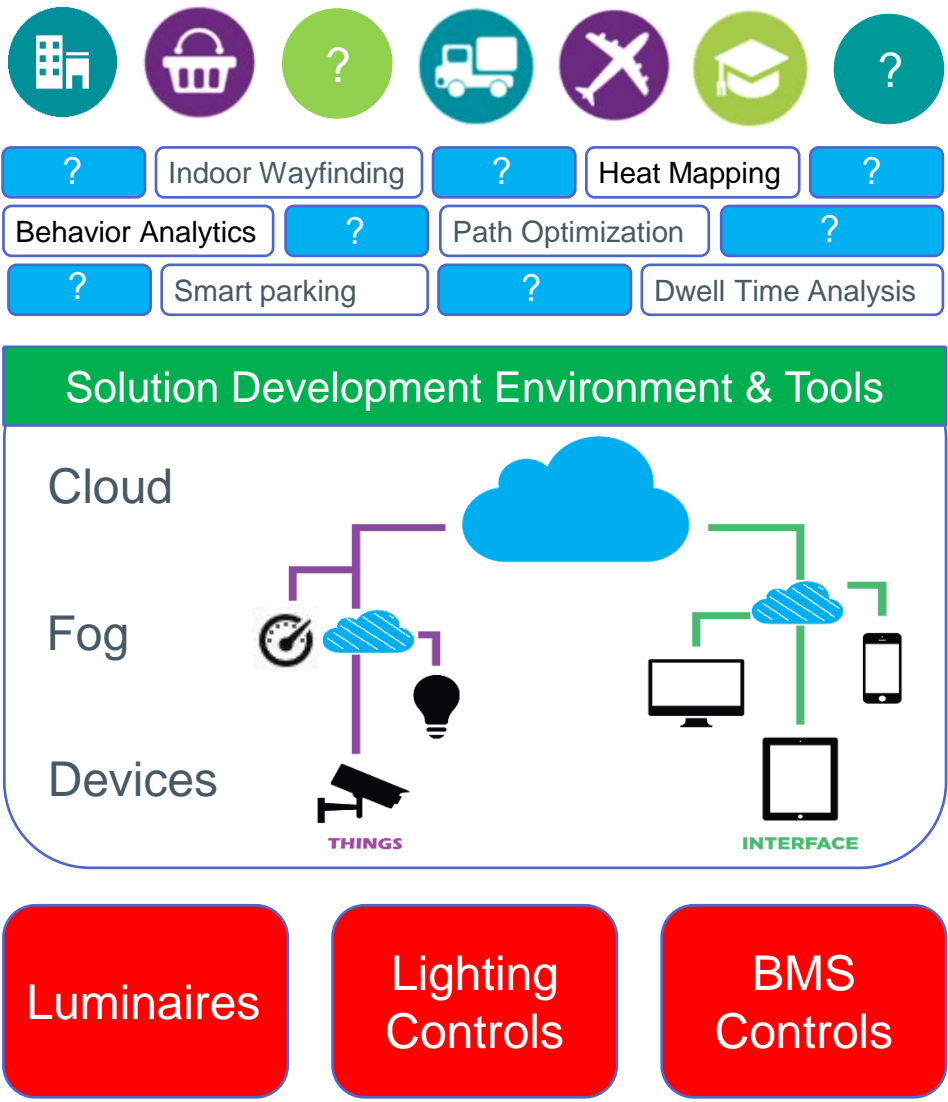
Packaged Horizontal and Vertical Solutions from Acuity and Partners

IoT Platform

Distributed Software Services & APIs

IoT Ready Infrastructure

IoT technology embedded in core products



IoT Solutions

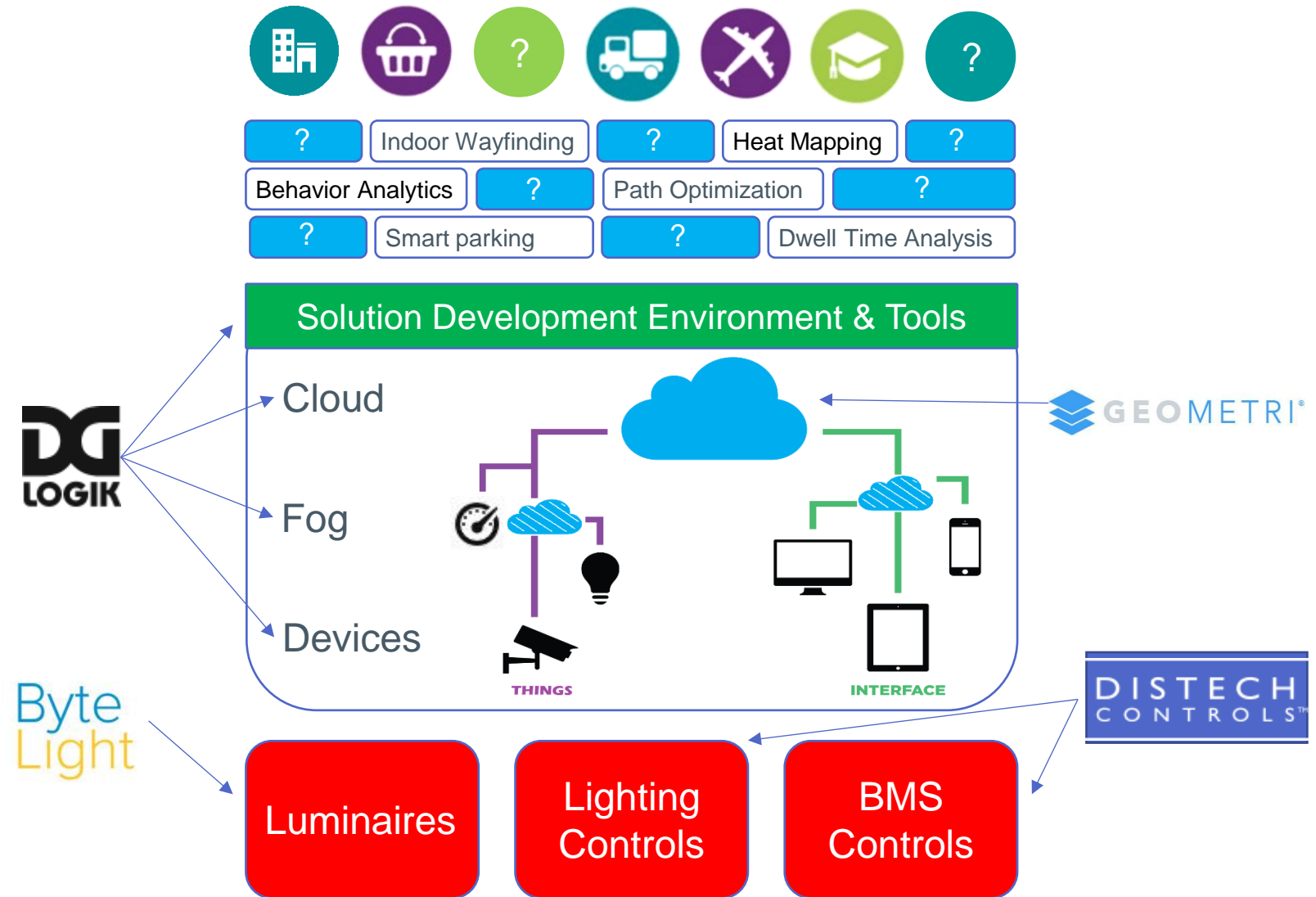
*Packaged Horizontal and Vertical Solutions from Acuity and **Partners***

IoT Platform

Distributed Software Services & APIs

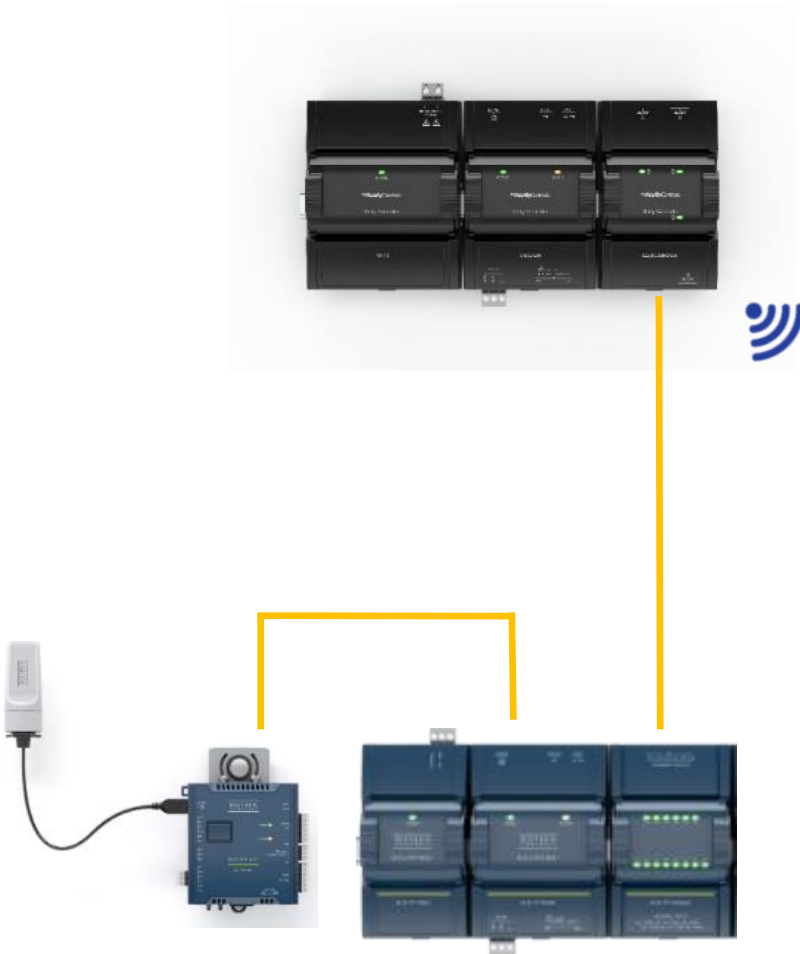
IoT Ready Infrastructure

IoT technology embedded in core products



Unifying systems, collecting data and hosting applications

- **One Platform for Lighting and HVAC:** Critical systems don't need complicated and custom integration, we do that for you!
 - BMS
 - nLight
 - Fresco
 - nLight AIR (Spring 2017)
- Fully software upgradeable over the life of a job
- Platform to host T3 and T4 Applications



Build IoT Solutions

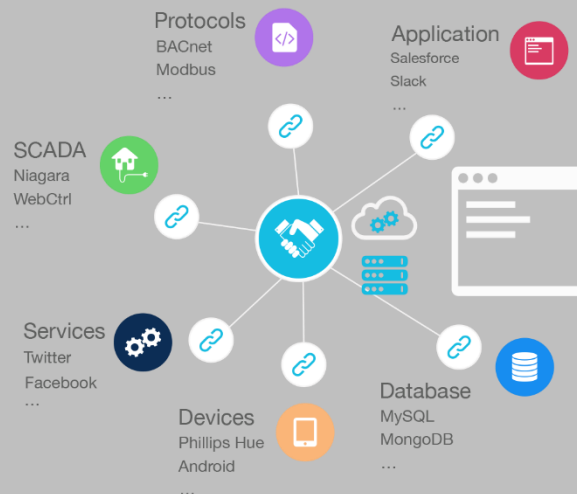


Integrated Development Environment
No code required



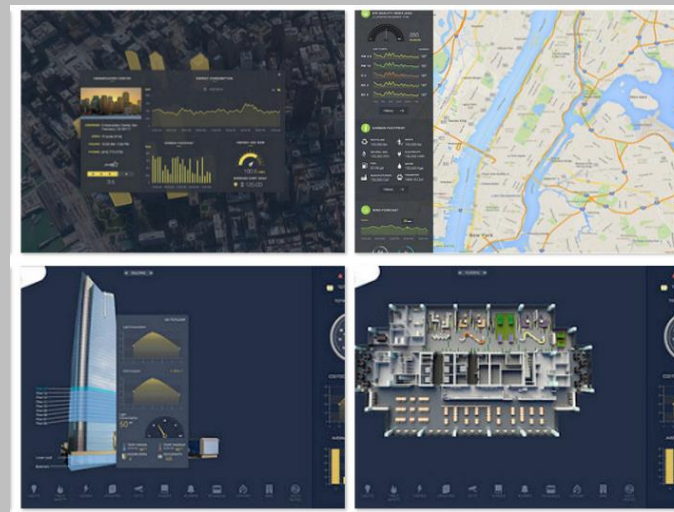
Connect Everything

DSLLinks



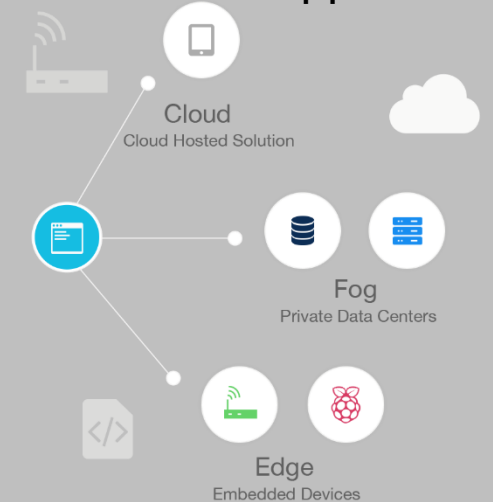
Visualize Anything

DGViewer



Deploy Anywhere

Distributed App Platform



IoT Horizontal Technologies – Precise Indoor Positioning



ByteLight

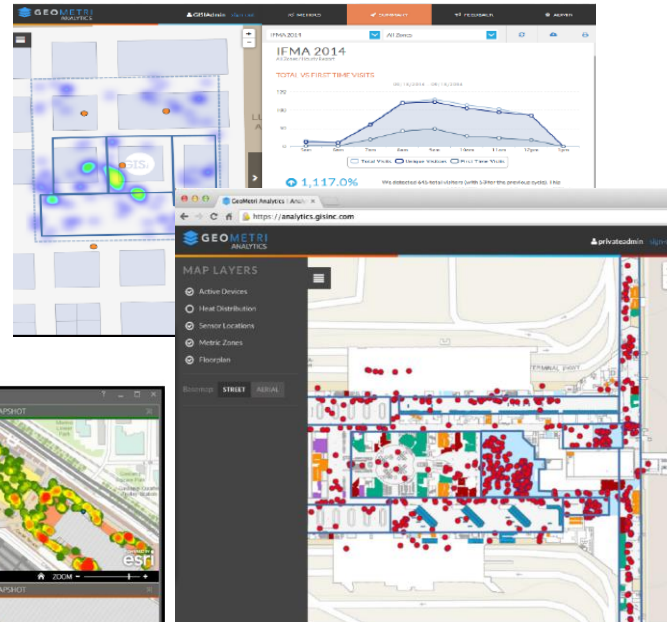
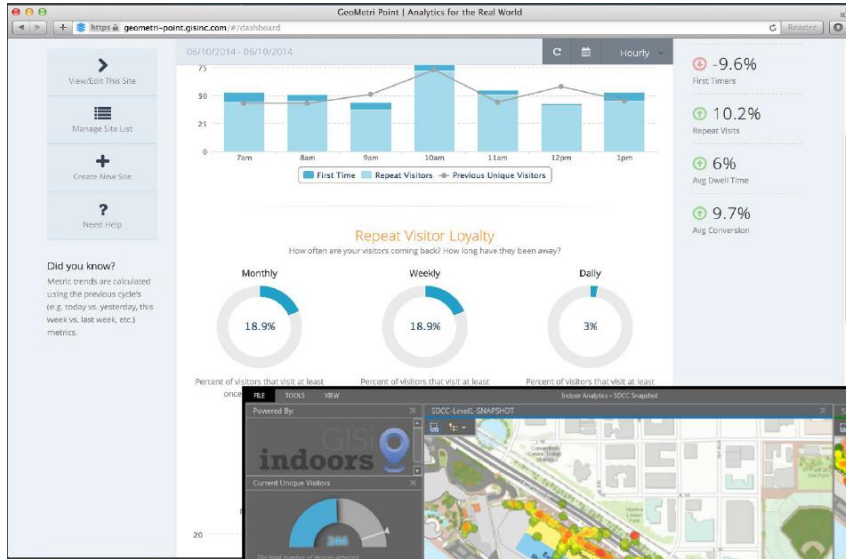
1. Intelligent LED luminaires

- + Ultra-accurate Visible Light Communication (VLC)
- + Consistent Power & Placement for BLE Beacons
- + Integrated Wireless Controls for Energy Savings, Code Compliance, & Asset Management
 - + Can be integrated into custom fixtures
 - + Zero Planned Maintenance

2. Flexible Mobile Device Software/API

- + Selects from all available location data to generate the most accurate “Blue Dot” position
 - + Simple feature-rich APIs provide location and geo-fencing calls to IOS & Android applications
 - + Secure & Scalable Cloud Services

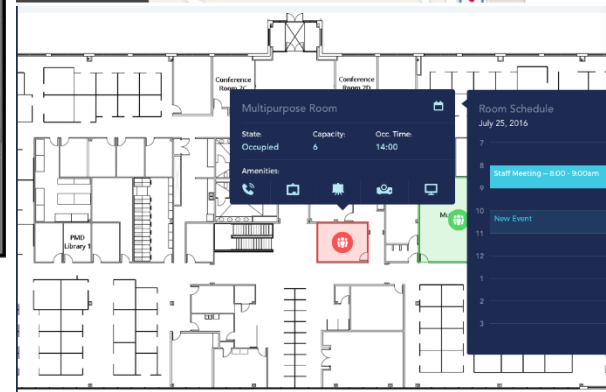
IoT Horizontal Technologies – Spatial & Behavioral Analytics



Heat mapping

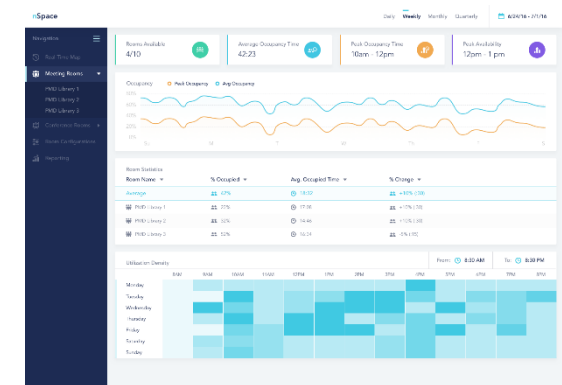


Dwell Time



Space Utilization

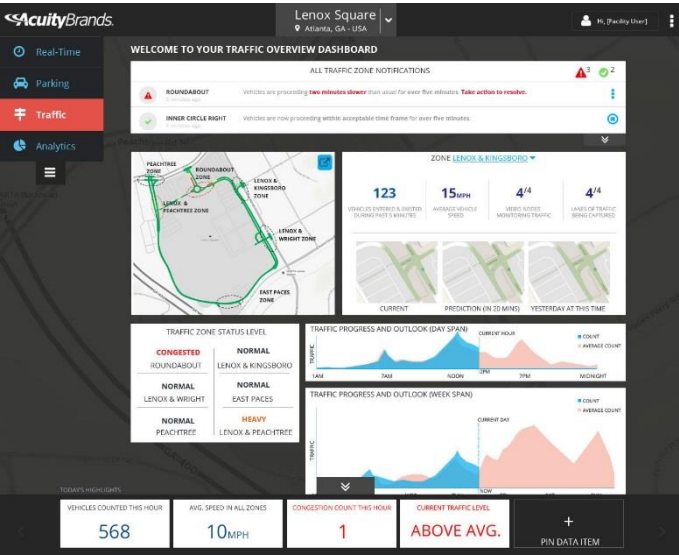
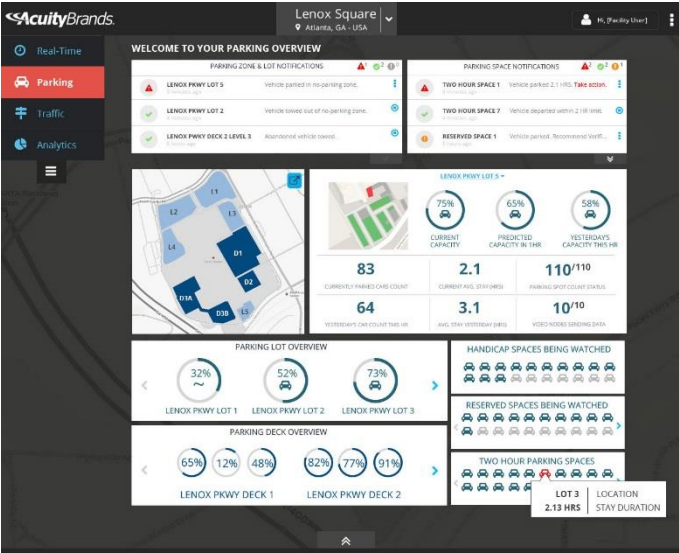
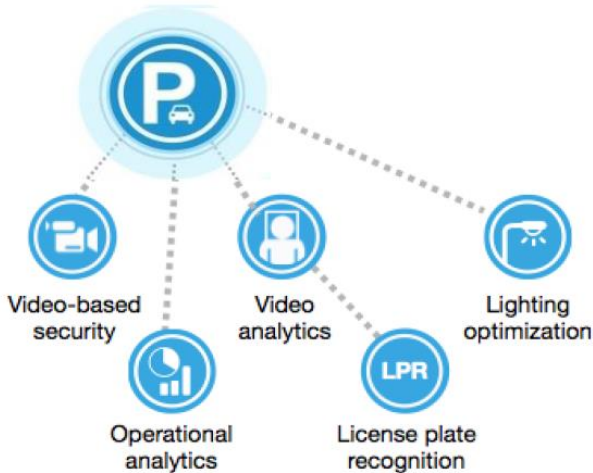
Path Analysis



IoT Horizontal Technologies – Edge Video Analytics



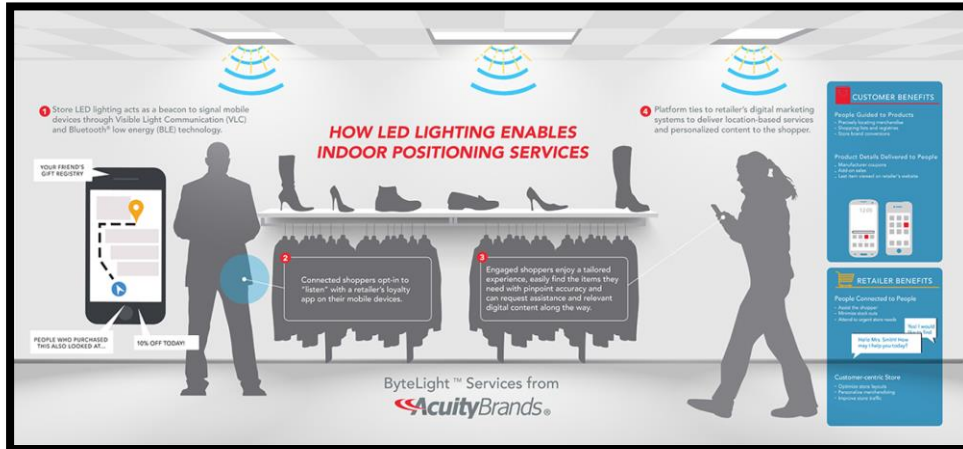
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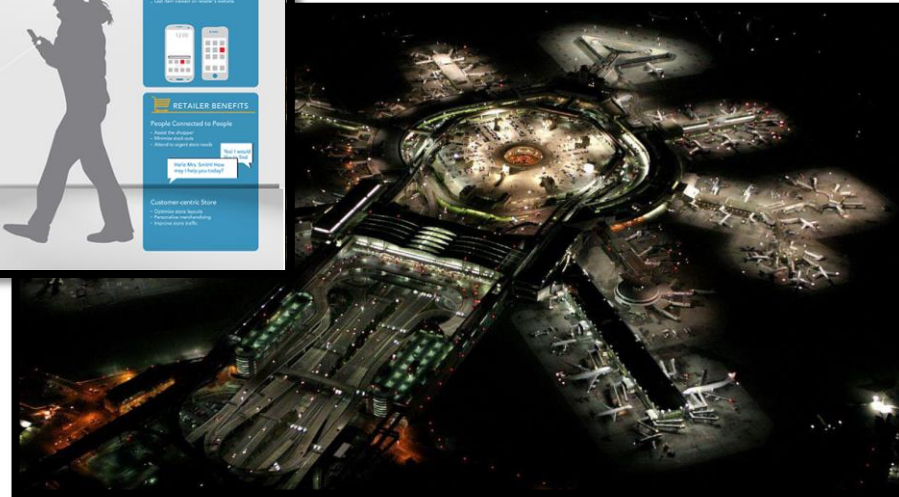
Acuity Brands IoT Vertical Solutions



Smart Retail



Smart Airports



Smart Office

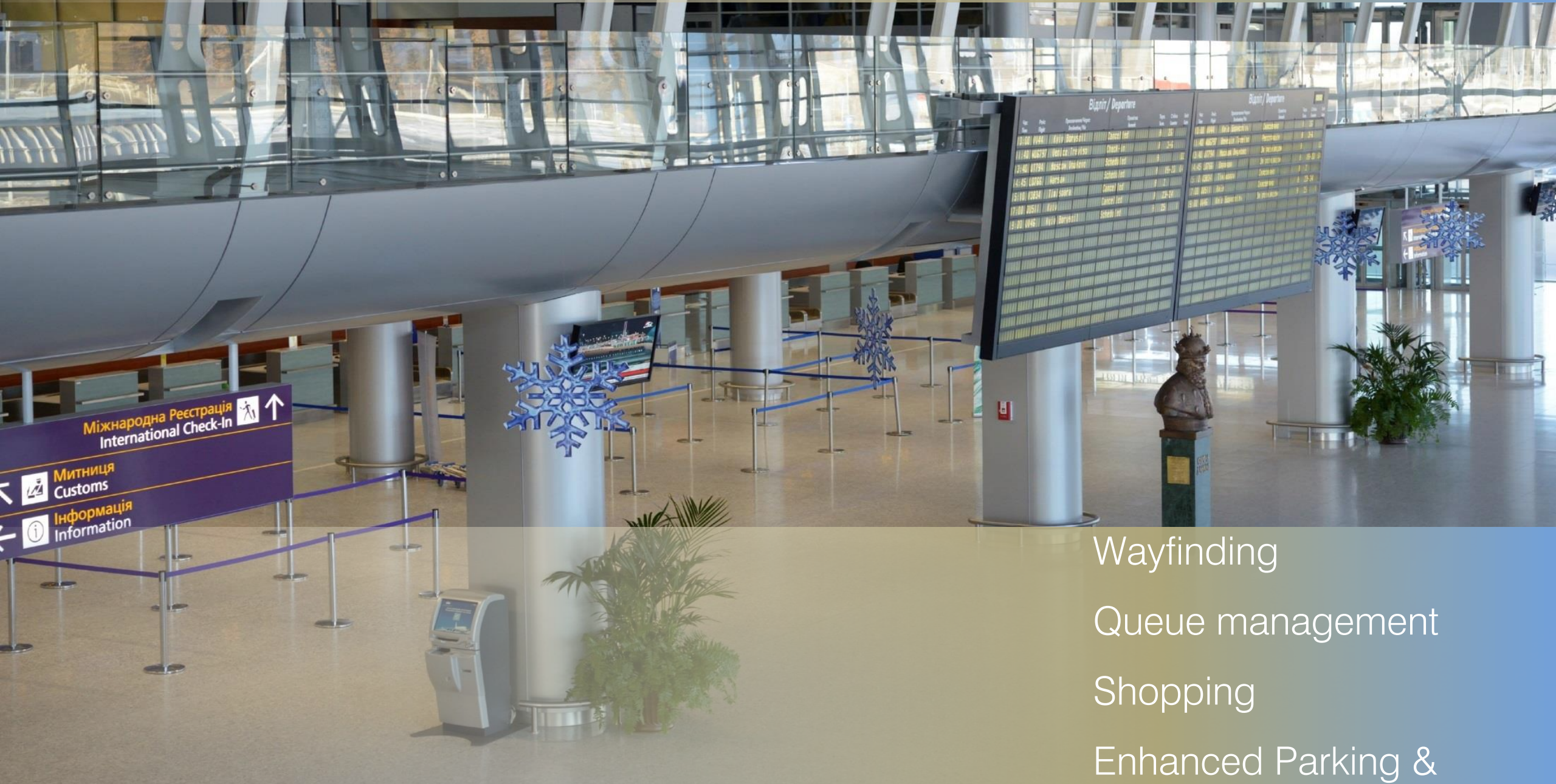


Smart Retail



Shopper
Engagement
Checkout & Store
Metrics
Employee
Optimization
Enhanced BOPUS

Smart Airports



Wayfinding

Queue management

Shopping

Enhanced Parking &

Smart Office

Metering &
Dashboarding

Space Utilization

Search & Find People &
Rooms

Emergency Response

Future Possibilities!



Smart Education



Dynamic Lighting
Automated Glare Control
Enhanced Outdoor
Security
Emergency Response


Smart Healthcare



Wayfinding & Navigation
Asset Tracking &
Tractability

Visitor/Patient Tracking
Enhanced Parking &
Security

Smart Warehousing



Dynamic Pick n' Pack
Routing
Asset Track &
Traceability
Employee location &
Optimization
Automated Materials
Handling

Smart Campus



Intelligent Lighting
Optimized Parking
Enhanced Security
Traffic & Pedestrian
Analytics

One Framework, Many Benefits

An ideal choice for commercial buildings and properties, retail stores and malls, higher education campuses and cities to deploy IoT solutions. The IoT leads to revolutionary applications that can dramatically improve the way people live, learn, work and play.

Create Smarter, Efficient Buildings

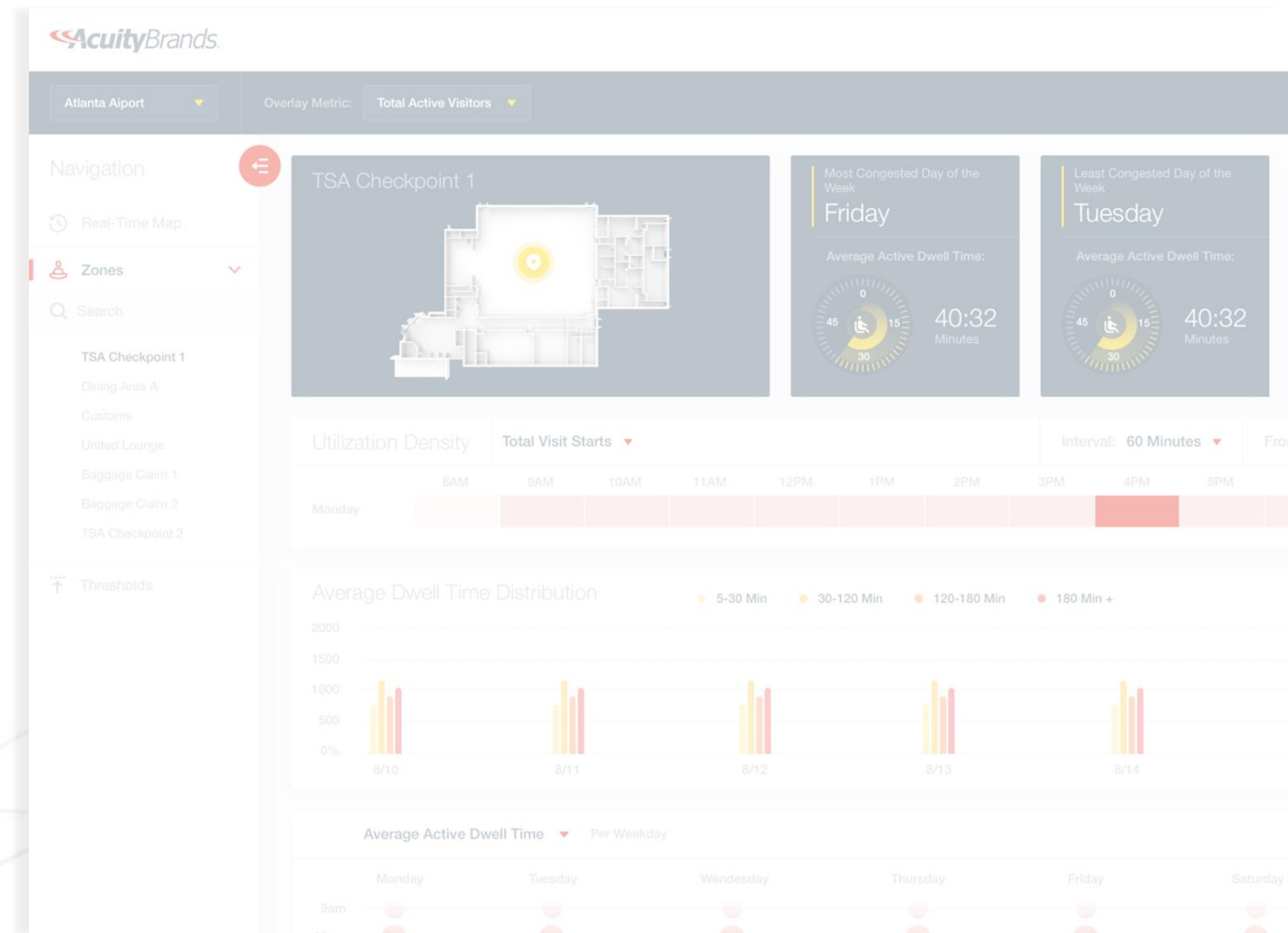
- Connect with building automation systems
- Analyze and reduce energy use
- Track and maintain assets

Interact with People

- Indoor way finding
- Room availability
- Omnichannel marketing

Evolve to Smart Cities & Campuses

- Parking management and availability
- Traffic analytics and management
- Security and safety alerts



Questions?

