The STELLAR FUTURE OF SUSTAINABILITY

STELLAR
LIGHTING SYSTEMS

Technical Introduction Deck v1.5

Private and Confidential

Create Savings
Through Energy Efficiency and
Cutting Edge Technology.

Provide real time actionable
intelligence that help our clients
make informed decisions or create
automation that keeps their
operations optimized for success.

Ensure a fast ROI through savings,
automation and monetization.

The Stellar Backbone

IoT & Data Intelligence - Powered by Sustainable Lighting

- Made in the USA Fixtures + sensors + Intelligence Platform
- Upgrade or Use Existing lighting fixtures = fastest, most cost effective IoT deployment platform
- Energy savings pay for hardware + software → ROI in months

Stellar's capabilities allow us to Turn every light into a smart data node.

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STELLAR
SUSTAINABLE LIGHTING

Inefficiencies in Facilities

Buildings Are Expensive to manage, Inefficient, and Data-Blind

- Lighting = 20–40% of facility electricity spend
- No real-time visibility into occupancy, air quality, assets, or energy use
- IoT/sensor installations are costly, disruptive, and wired
- Reactive maintenance, tenant complaints, missed rebates & compliance

Private and Confidential

Stellar Team

Leadership

Joey Genovesi - CEO

Jennifer Englert - COO

Caroline Genovesi
VP Finance

Marcelino Soraca
Head of Engineering

Chris Zerbo
Business Development
Midwest

Barbra Bombalier
Business Development

STELLAR
LIGHTING SYSTEMS

We are Stellar

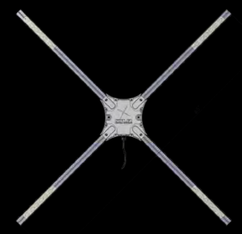
- IoT & Systems Automation company that started with the world's most planet-friendly lighting
- Designed, engineered, and manufactured in the USA — 80% recycled materials, 230+ lm/W
- Proven in City of Orlando pilot: 88% less energy, 50% more light, running 24/7 for 3+ years
- Expanded to warehouses with 4Roots Deployment saving them $30k/year on electrical consumption.
- Unique advantage: We manufacture our own sensors and lighting fixtures (that are everywhere) as the hardware backbone → dramatically lowering the cost of deployments & installation time.

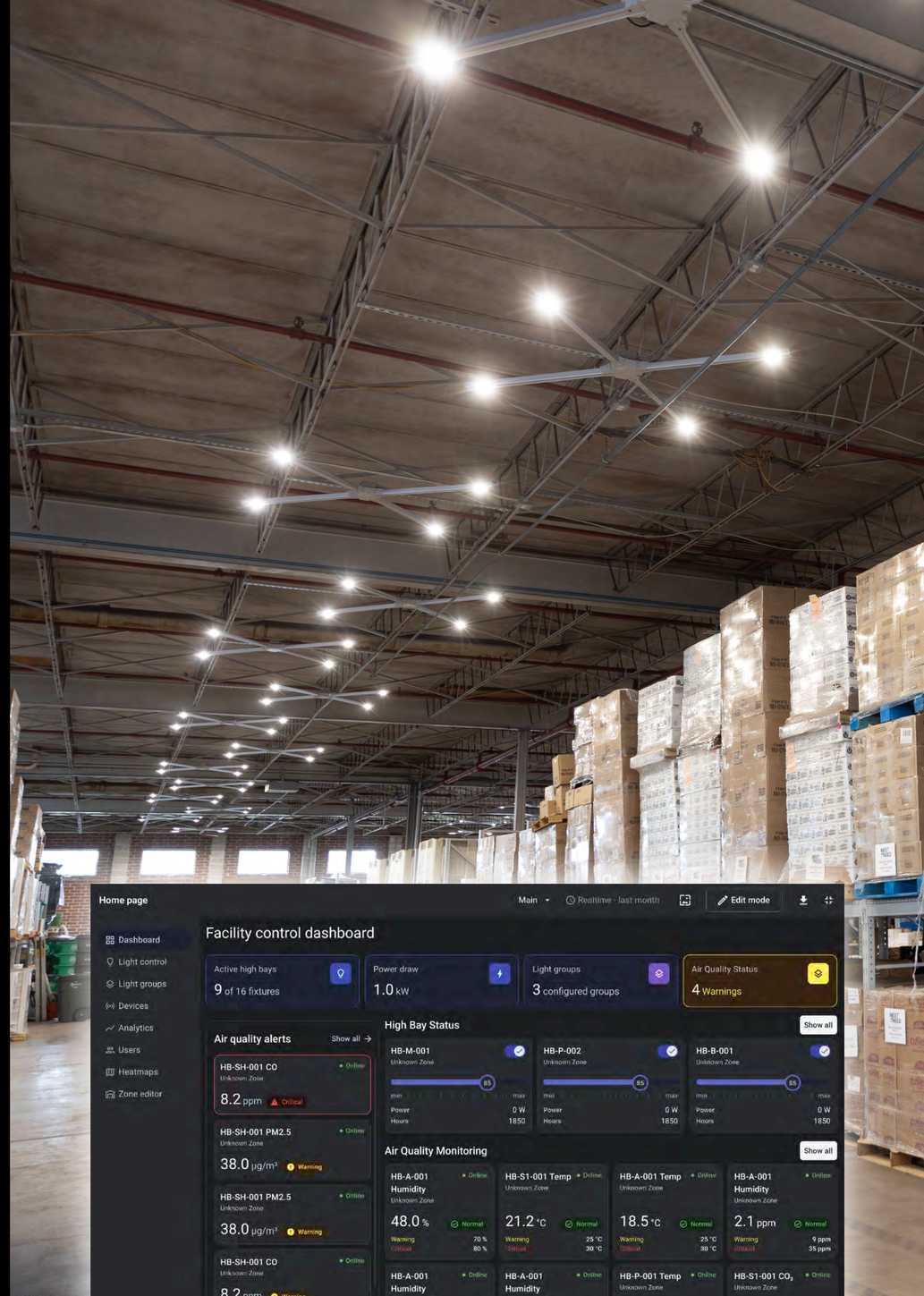
"Stellar helps the city achieve our LEED Gold status and is one more reason why we are the greenest city in the southeast"

~Mayor Buddy Dyer on Rally Fellow Venture Stellar, State of the City Address 2023.

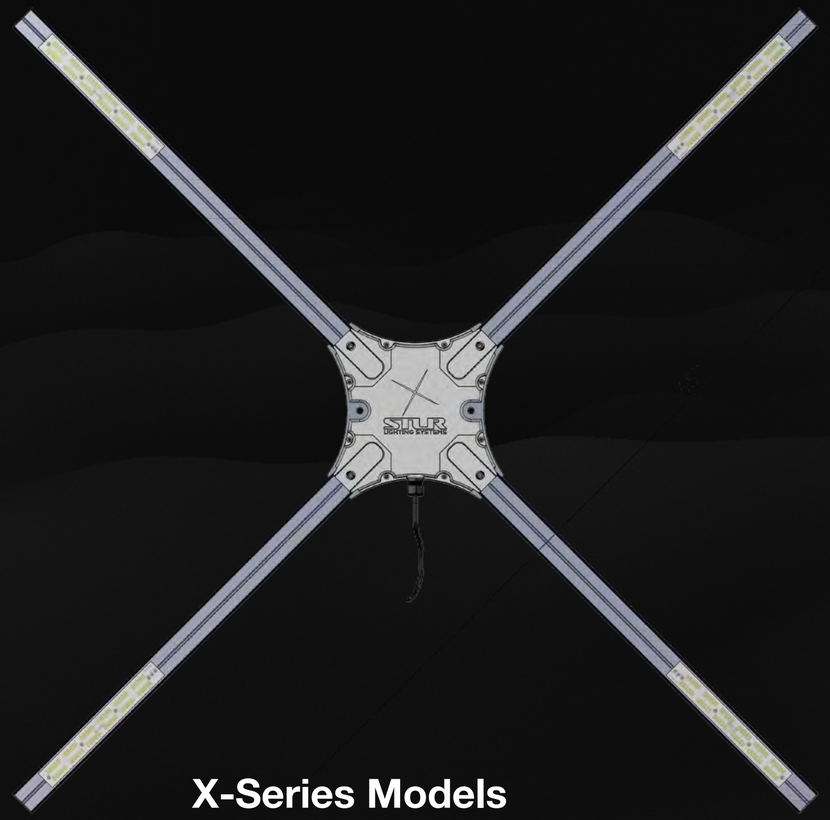
One Solution: Hardware + Software. Zero Compromise.

- Hard Tech – Super-efficient X-Series & Super High Bay fixtures (230–240 lm/W) + wireless Command & Sensor Modules
- Soft Tech – Stellar Command dashboard + Constellation digital twin + real-time analytics
- Lights pay for themselves through massive energy savings
- Sensors plug-and-play on the same fixtures → easy, low-cost IoT rollout





Stellar X-Series



X-Series Models
Parking Garage + Linear
Warehouse + Linear
High Bay (32ft) + Linear

Energy Efficiency: Provides brighter lighting while using less power, achieving up to 230 lumens per watt for maximum efficiency.Designed to make lighting industrial spaces brighter, safer, and more efficient.

Design Flexibility: Features easy, quick-connect installation, minimizing setup time and reducing labor costs. Adaptable to various warehouse layouts and heights for seamless integration.

Durability & Sustainability: Made from 80% recycled materials, with a 110,000 hour lifespan, reducing waste and maintenance needs. Engineered to withstand demanding industrial conditions, ensuring reliable long-term performance.

CIRCULAR ECONOMY

230+
LUMENS PER WATT

Super High Bay - SBH40

Stellar SHB40
Lumens: Up to 47,350
Watts: 175-205
LM/W: 233 (45% more efficient)
CRI: 80
CCT: 5000
LM80: 120,000 hours

Custom Optics for Aisle and Speedway
Wireless Module for Control
Integrated LoRaWAN Gateway
Integrated Motion Sensor
Smart Motion Sensor Ready
Passive Location Ready

CIRCULAR ECONOMY

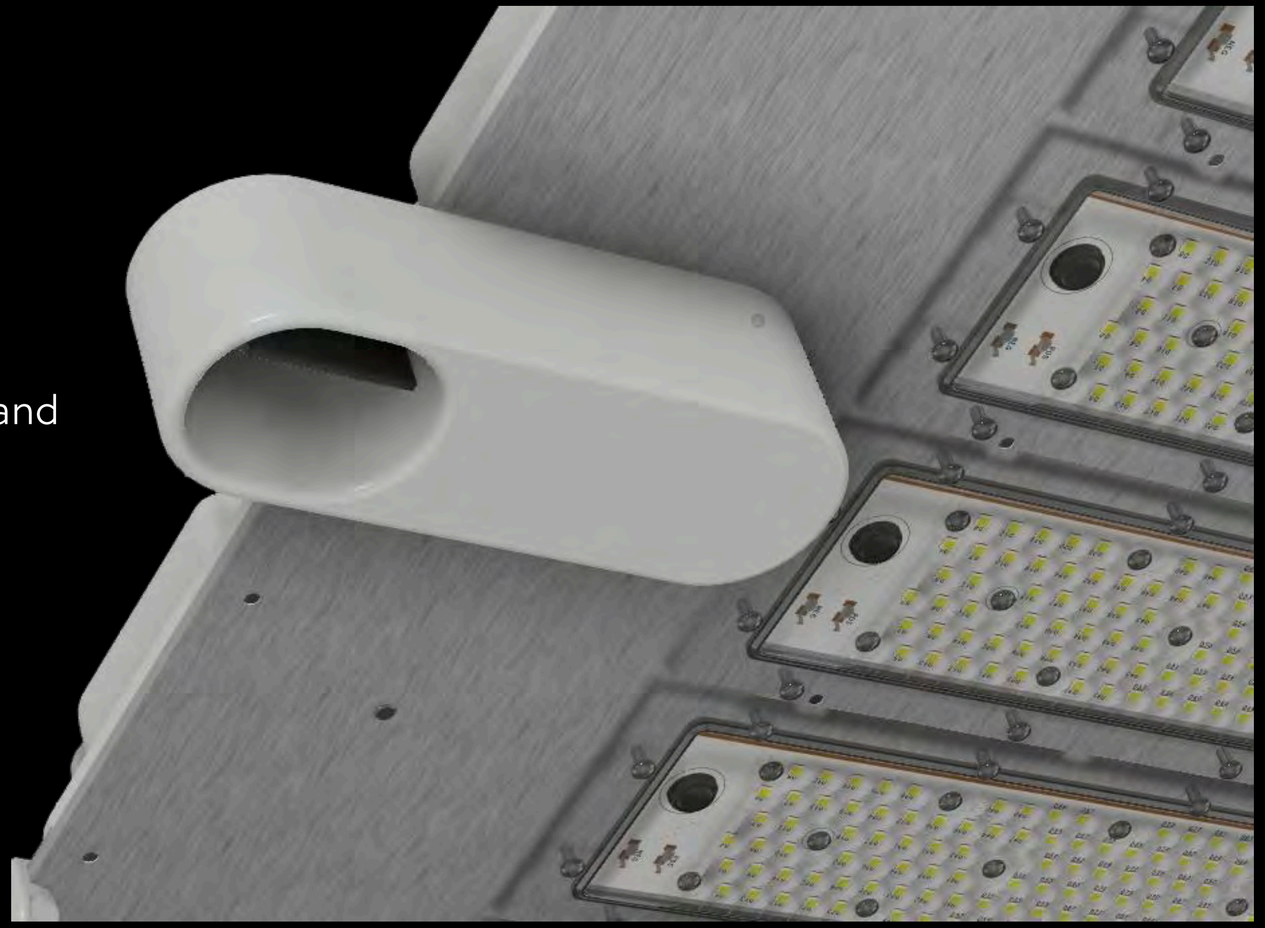
230+
LUMENS PER WATT

Stellar Sensor Array Module

Wireless Sensor Array Module
Plug and Play with Command Module
or Stand Alone with 10 year battery.

Open Source / API connect to any BMS.

- **Real-Time Analytics:** Edge-based analytics for low-latency anomaly detection and enhanced security.
- **Monitoring:** Tracks consumption patterns to reduce waste and lower costs, Real-Time Air Quality and sensor data.



Standard Sensor Package*:
Environmental:
- Temperature
- Humidity
- Barometric Pressure
- Gases: VOCs, VSCs, CO_2 + other gases
- Particulate (PM2.5 Optical)
- Ambient Light (for smart dimming)

Motion:
- Inertial Measurement Units (vibration, sway)
- Long Range IR Motion Sensor (movement)

*Sensor array can be customized to clients needs.

STELLAR LIGHTING SYSTEMS

Stellar Command:
Your Facility at Your Fingertips

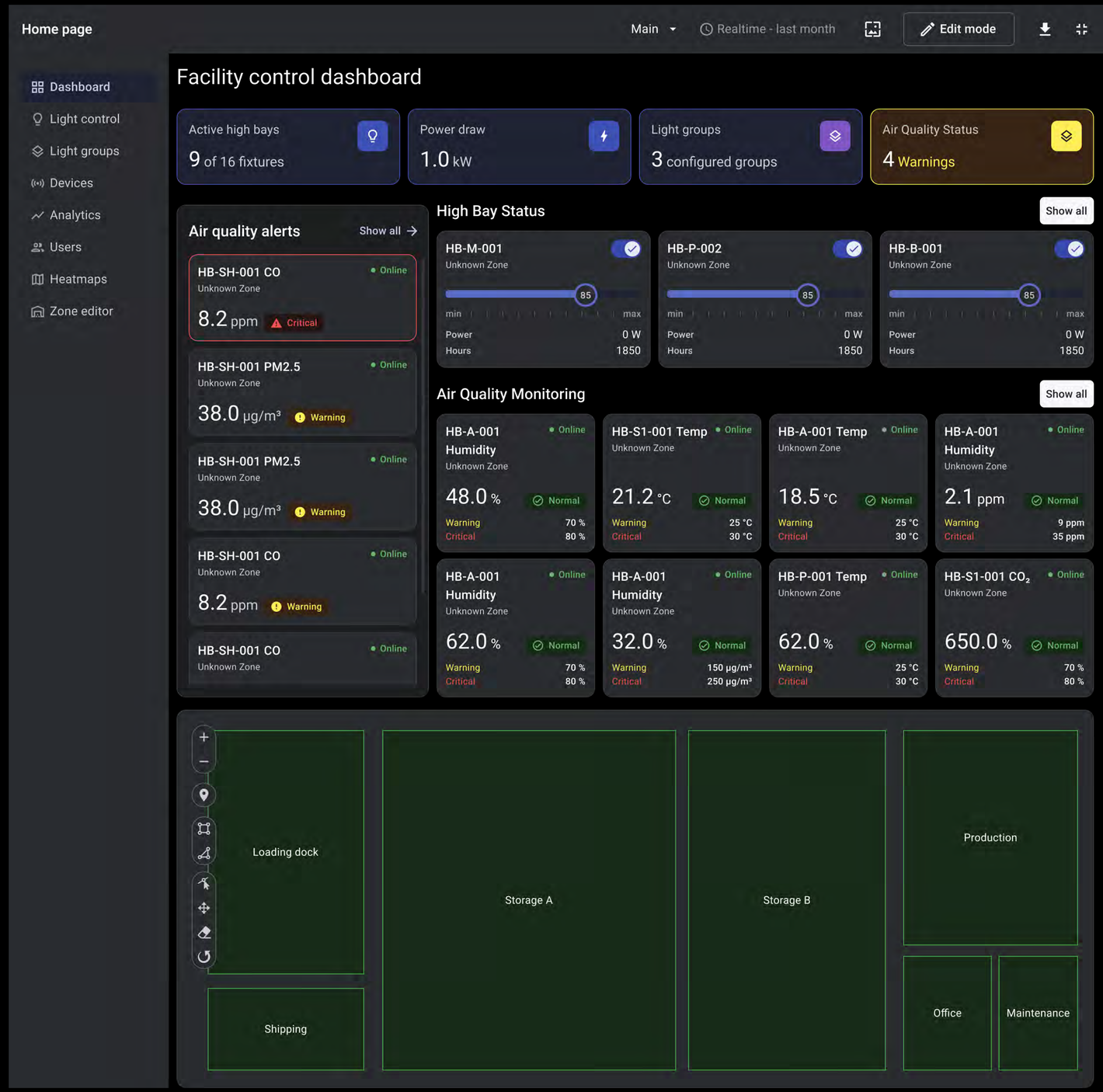
- Real-time interactive floor plans, energy dashboards, and alerts
- Fixture-level control: dimming, schedules, daylight harvesting, demand response
- Air-quality, temperature, humidity, occupancy, and power monitoring
- Tenant portals for transparency and satisfaction

Air Quality Monitoring

HB-A-001 Humidity • Online
Unknown Zone
48.0 % — Normal
Warning 70 %
Critical 80 %

HB-S1-001 Temp • Online
Unknown Zone
21.2 °C — Normal
Warning 25 °C
Critical 30 °C

HB-A-001 Temp • Online
Unknown Zone
18.5 °C — Normal
Warning 25 °C
Critical 30 °C

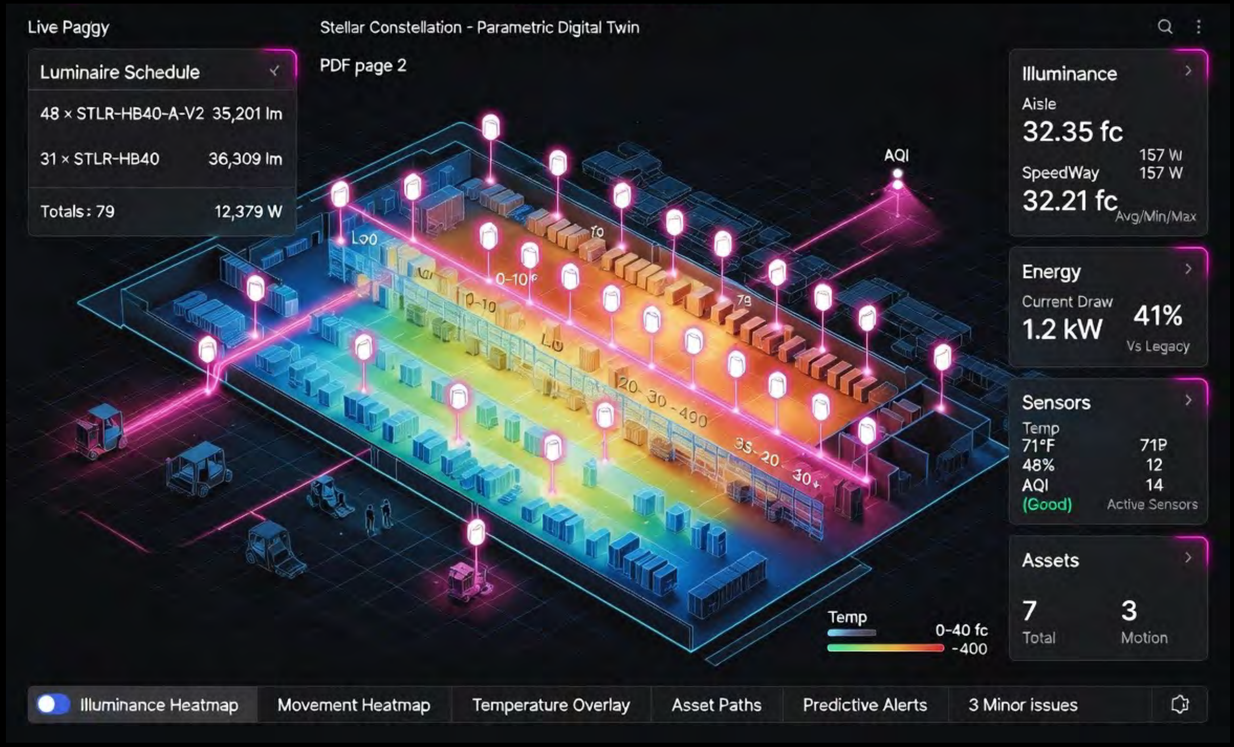


Stellar Constellation: Real-Time Passive Asset Intelligence

- Zero-setup digital twin of your entire space
- Automatically tracks IoT devices, pallet jacks, carts, and assets in 3D
- Heatmaps, historical paths, predictive maintenance alerts
- 70–90% real-time operational intelligence
- Works with ANY LoRaWAN IoT Device

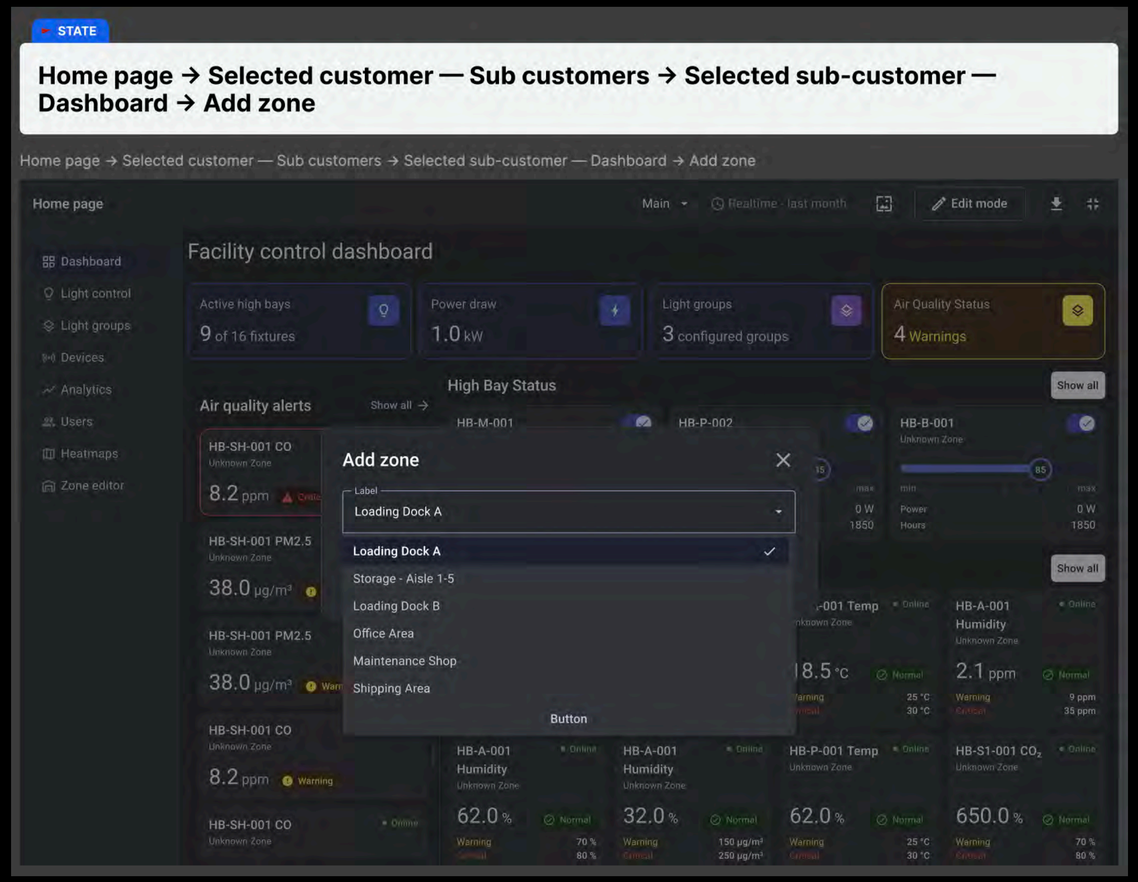
Sneak Preview

*Stellar Constellation is in pilot testing and is expected to be available Mid to Late 2026



Turn Sensors Into a New Profit Center

- Provide the tools and data tenants need to run smooth operations
- Charge tenants modest fees for personalized dashboards & data
- Example per 100k sq ft warehouse: $712/month ($8,544/year) from occupancy, AQI, temperature, and energy reports
- First 20 warehouses = $170k+ annual recurring
- Scales to millions portfolio-wide with zero extra hardware cost



Scaling Backing & Execution Confidence

Financial & Operational Readiness for Rollout

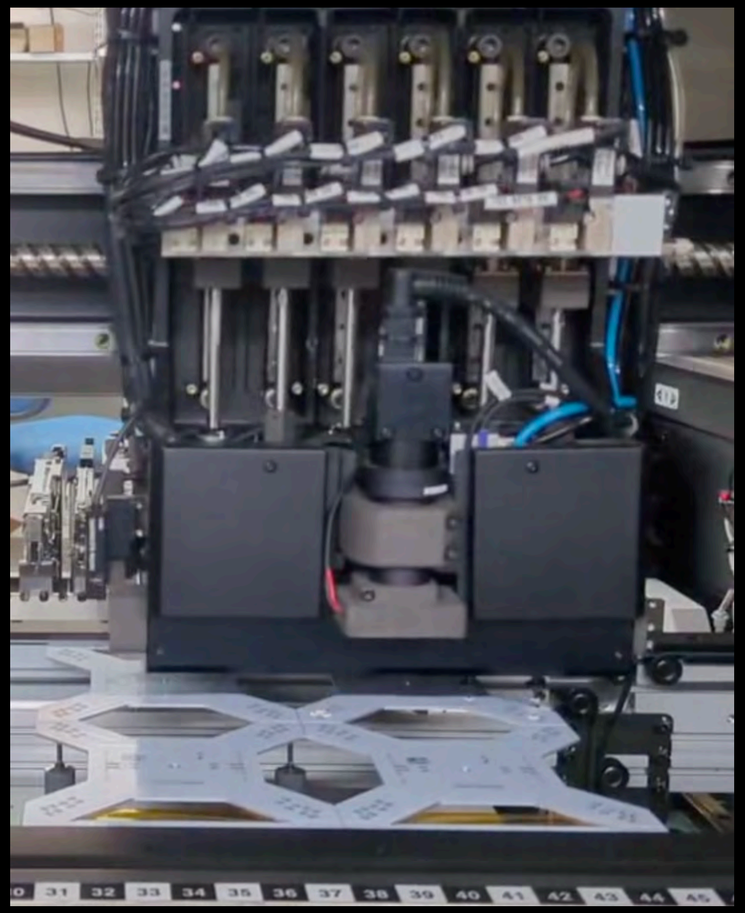
High-Level Scaling Investment Framing

- Manufacturing: Phased capex for shifts, automation, and line additions (2026–2030)
- SaaS: Ongoing cloud/infrastructure upgrades + team growth
- Total planned scaling investment: Multi-million dollar commitment over 5 years

Key Proof Points of Readiness

- Current capacity: 24,000 units/year — already covers pilot + early FL phases
- Lead-time mitigation: Standing inventory for LEDs (9-week risk solved), boards (1 week), sensors (3–4 weeks buffered)
- Buffer discipline: 30% above forecast at every stage
- SaaS foundation: ThingsBoard Professional Edition — proven, scalable, no hard device caps
- Team foundation: Management, engineering, and line workers in place; scaling headcount planned in lock-step with demand
- Execution track record: Pilot 70 units ready in weeks; modular design ensures fast production ramp

Stellar has the current capacity, inventory strategy, SaaS backbone, and planned investment roadmap to deliver your Florida phases on time in 2026–2027 and support national rollout over 5 years — with zero risk to your ESG, rebate, and operational timelines. We are fully backed and ready to move.



STELLAR
LIGHTING SYSTEMS

The intelligent IoT backbone powering planet-friendly efficiency, actionable intelligence & real ROI.

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