

# EDGE ORCHESTRATION FOR SMART BUILDINGS

## About CTHINGS.CO

CTHINGS.CO®

At CTHINGS.CO, we are pioneers in Edge Orchestration and IoT technology. Our innovative Orchestra Platform paired with Edge IoT Gateways and Connectivity Cards enable real-time data processing, reliable connectivity, seamless integration, and powerful insights to drive efficiency and sustainability across various sectors. From smart cities to Industry 4.0, we empower organizations to embrace the future of technology with scalable, adaptable, and data-driven solutions.

## About INGY

INGY

Ingy helps organizations create smarter buildings by starting with smart lighting. We transform ordinary lighting infrastructure into a highly scalable, cost-efficient network of intelligent sensors that powers complete smart building functionality—without the complexity or cost of traditional deployments. Our advanced lighting control platform enables centralized management, automated scheduling, and intelligent zone control, while also unlocking building-wide capabilities such as occupancy analytics, asset tracking, climate monitoring, and seamless integration with Building Management Systems (BMS). By leveraging existing infrastructure, Ingy dramatically reduces smart building rollout costs and accelerates the path to more efficient, comfortable, and data-driven environments

## The Challenge

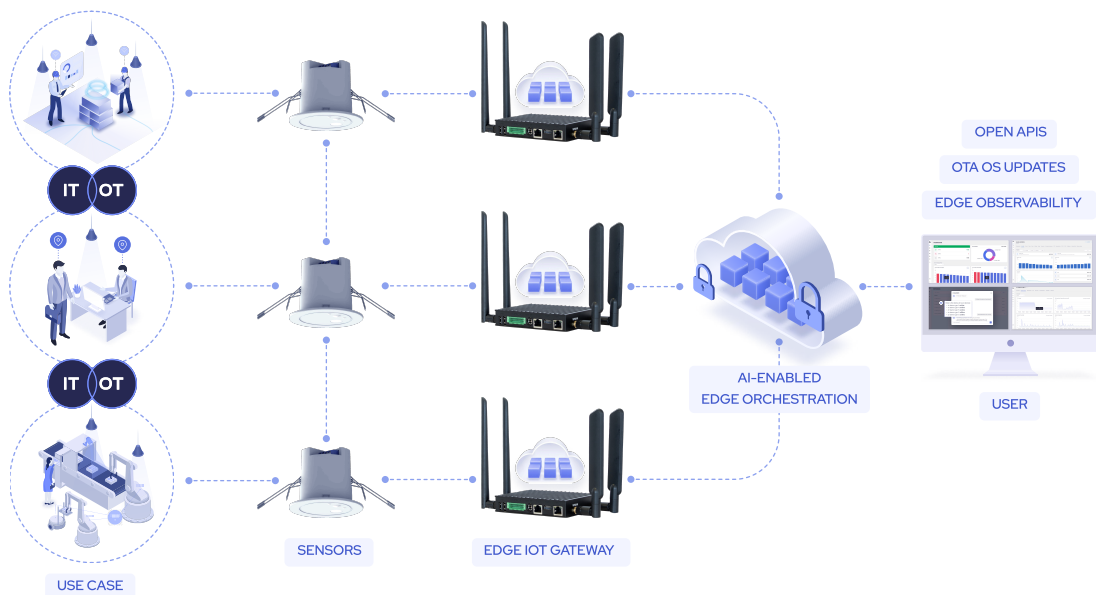


Organizations are under growing pressure to reduce energy costs, optimize real estate, and modernize buildings—yet most facilities still operate with limited real-time intelligence. **Lighting and HVAC run on static schedules, space is underutilized, and critical decisions are made without accurate occupancy or asset data.** At the same time, traditional smart building projects are **costly, complex, and slow to deploy**, requiring multiple standalone sensor systems, fragmented integrations, and high upfront investment. The result is wasted energy, excess square meters, operational blind spots, and a slow path to meaningful digital transformation—especially in large, multi-site environments where scalability, speed, and ROI are essential.

## The Solution








**INGY** provides the **sensing layer using lighting as the foundation.** The solution incorporating people counting offers a more cost-effective alternative to traditional systems by embedding smart building infrastructure directly within the lighting network. Its fully wireless architecture removes the need for dedicated cabling, resulting in significantly lower installation costs. Furthermore, the system utilizes distributed intelligence at each node, eliminating the reliance on expensive controllers. As this decentralized infrastructure scales across buildings and sites, secure coordination and lifecycle management become critical. **CTHINGS.CO provides secure, scalable edge orchestration,** enabling organizations to securely provision devices, manage updates, integrate sensor data, and maintain operational control from a single platform. This end-to-end approach eliminates the need for multiple systems, cuts rollout costs, and accelerates deployment, delivering **measurable improvements in energy efficiency, space utilization, asset performance, and operational resilience.**



## The Result



-  **Lower energy costs** with up to **40% HVAC** and **significant lighting energy reduction**
-  **Better space use** with up to **30% reduction** in m<sup>2</sup> per employee
-  **Smarter, more sustainable maintenance** with fewer service visits and **higher uptime** through automated fault detection
-  **Stronger performance** by reusing infrastructure and **lower installation costs** by up to **80%**
-  **Simpler integration and faster scaling** through secure edge processing and centralized orchestration across sites

CTHINGS.CO is a powerful partner for INGY. Their Orchestra Platform and Edge IoT Gateways add a new layer of real-time intelligence and seamless integration—helping us deliver scalable smart building solutions faster, smarter, and more cost-efficiently.



**BASTIAAN DE GROOT**  
INGY | Co-founder & CEO



Orchestra helps organizations turn their existing data into intelligence that can be acted on in real time. Together with partners like INGY, we are showing how smart building systems become far more powerful when they're orchestrated at the edge.



**ŁUKASZ BALAS**  
CTHINGS.CO | Chief Commercial Officer



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