Delta Intelligent Building Technologies

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Our mission is to create and grow organizations and the people within them.



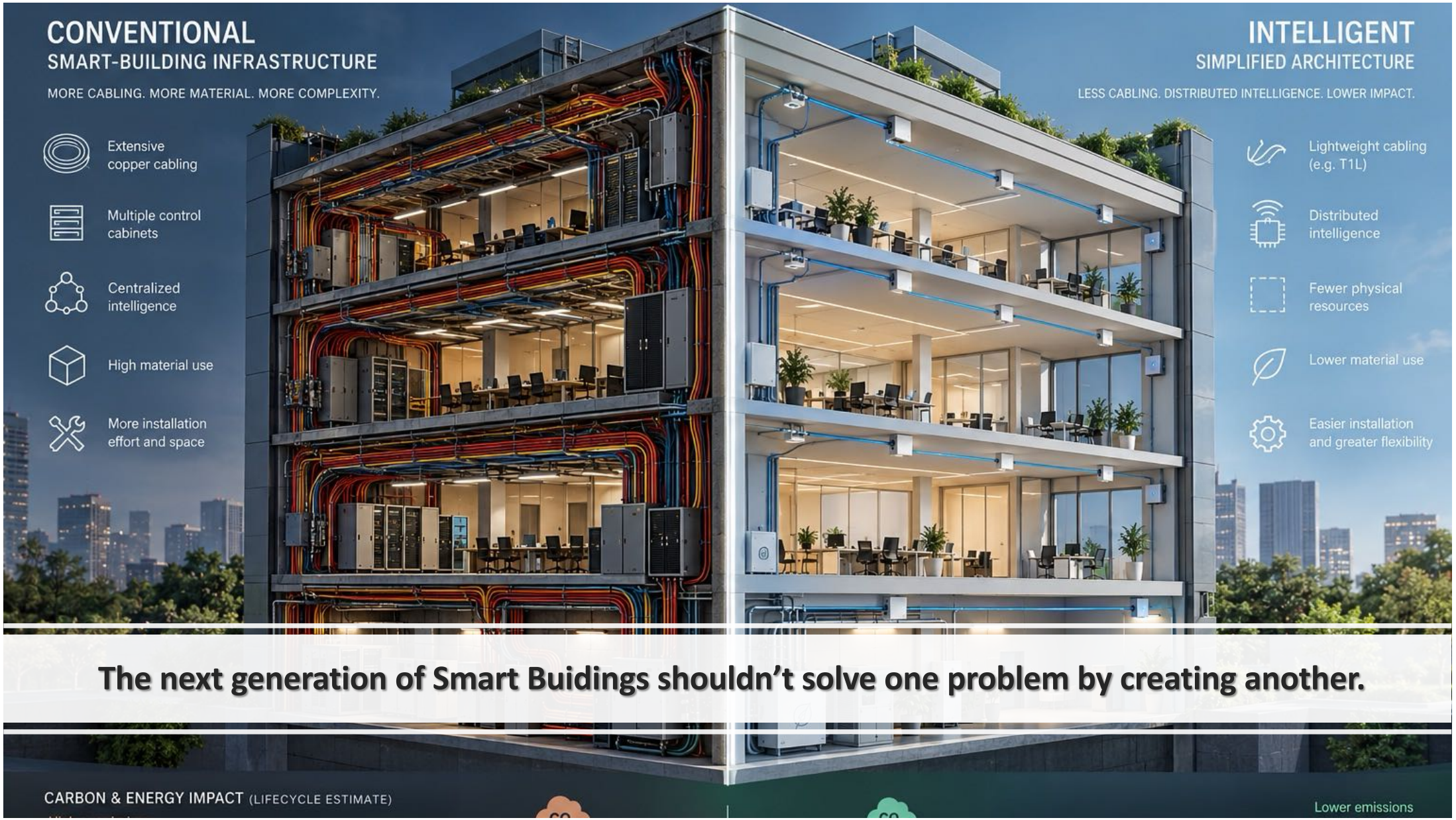
In pursuit of our Vision, we strive to:

- embody our Collective Vision as we go about our daily working lives
- build relationships with our employees, customers, distributors, and suppliers so they become proud partners and stakeholders in our venture
- meet or exceed our customers' expectations, and other relevant requirements
- continuously improve our products, services, processes, people, and the ways in which we interact with, impact, and care for the world around us
- establish and review objectives as part of our continual improvement efforts
- grow as an organization so that our positive impact on the world is greater with each year that passes
- Do it Right.



DELTA
Delta Intelligent Building Technologies


Smarter Buildings.
Without the Carbon Trade-Off.
How smarter connectivity and distributed intelligence can deliver better buildings with less physical infrastructure.


CONVENTIONAL
SMART-BUILDING INFRASTRUCTURE
MORE CABLING. MORE MATERIAL. MORE COMPLEXITY.
Extensive copper cabling
Multiple control cabinets
Centralized intelligence
High material use
More installation effort and space
INTELLIGENT
SIMPLIFIED ARCHITECTURE
LESS CABLING. DISTRIBUTED INTELLIGENCE. LOWER IMPACT.
Lightweight cabling (e.g. T1L)
Distributed intelligence
Fewer physical resources
Lower material use
Easier installation and greater flexibility
The next generation of Smart Buidings shouldn’t solve one problem by creating another.
CARBON & ENERGY IMPACT (LIFECYCLE ESTIMATE)
Lower emissions

02

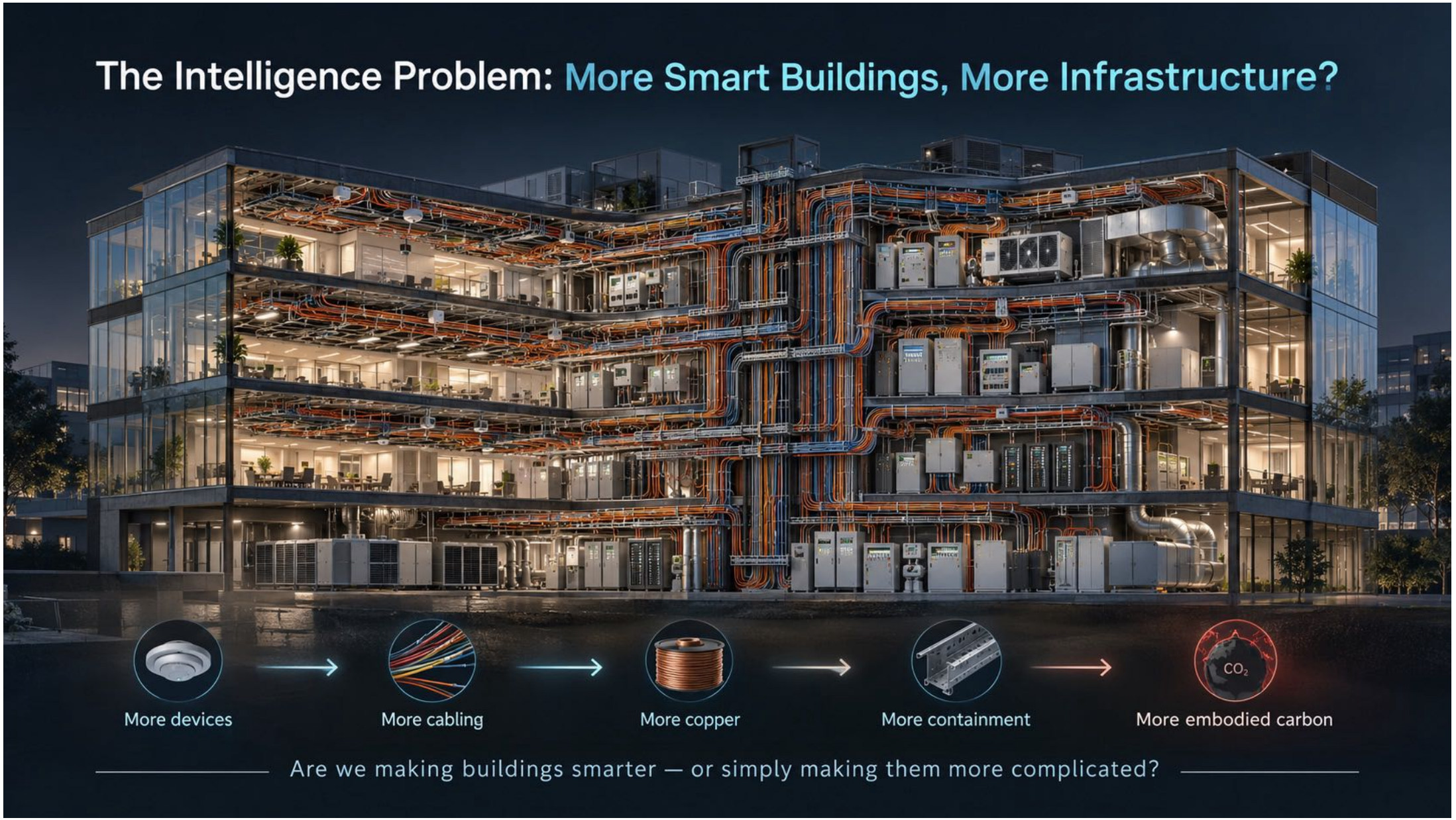
Buildings Are Getting Smarter.
But What Are We Building to Make Them Smart?





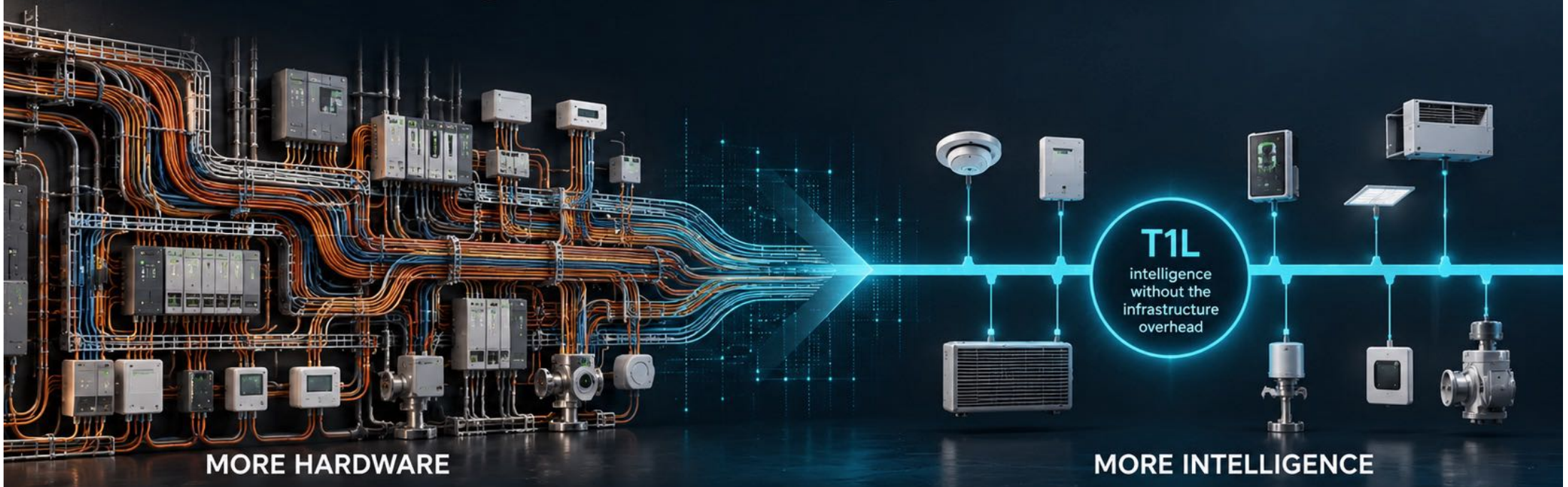
The intelligence of buildings is accelerating.
Our physical infrastructure shouldn't have to accelerate with it.

The Intelligence Problem: More Smart Buildings, More Infrastructure?



Are we making buildings smarter — or simply making them more complicated?

More Intelligence. Less Physical Infrastructure.



LESS CABLING
Fewer physical connections

LESS MATERIAL
Reduced infrastructure burden

MORE INEXIBILITY
Distributed intelligence and easier scalability

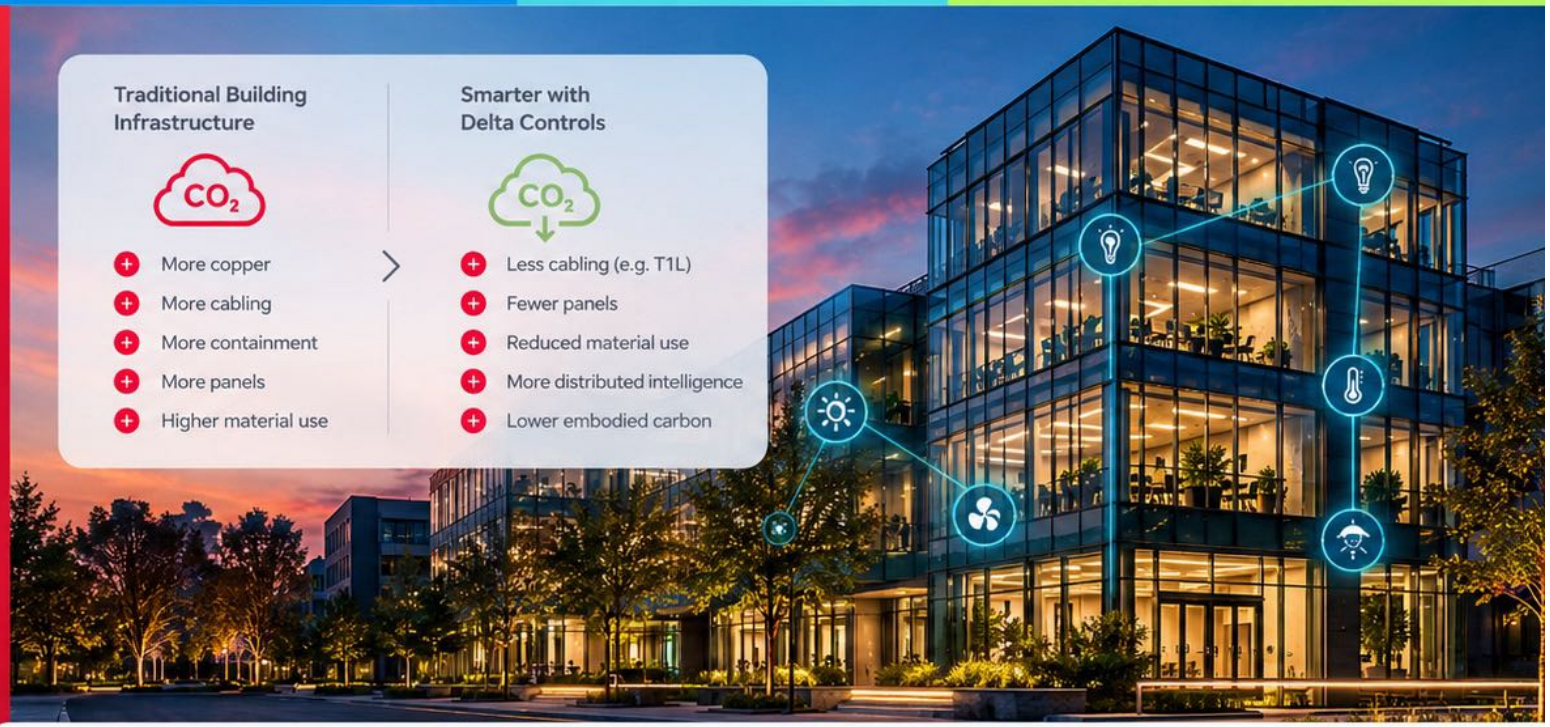
FEWER PHYSICAL RESOURCES → MORE DIGITAL INTELLIGENCE → SMARTER BUILDINGS

The Hidden Carbon.

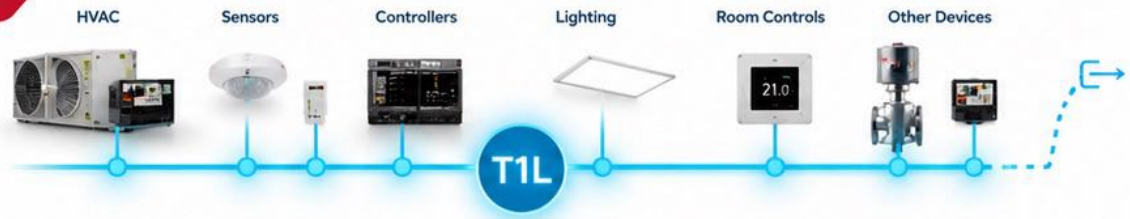
Smarter Buildings. Less Physical Infrastructure.

Operational carbon gets the attention, but embodied carbon matters too. Every cable, panel and connection adds to a building's footprint.

With Delta Controls, intelligent, IP-connected solutions like T1L, Red5 and O3 Edge deliver more capability with fewer physical resources—helping you build smarter, more sustainable buildings.



A Lightweight Backbone for a More Sustainable Future.
Less material. More intelligence.



Less physical infrastructure.
More connected intelligence.

Key Benefits

- **Lower embodied carbon** — Fewer physical resources.
- **More capability per connection** — Intelligence at the edge.
- **Simpler, faster deployment** — Reduce installation complexity.
- **A more sustainable building** — Efficient. Intelligent. Future-ready.

Intelligent. Efficient. Innovative. Sustainable.

DELTA
Delta Controls

Connectivity Is Infrastructure.

The network isn't just something the building uses.
It becomes part of the building's physical infrastructure.

Traditional multi-pair network infrastructure

- Larger cable
- Multiple conductors
- Heavier infrastructure
- Larger containment requirement



Single-pair Ethernet / T1L

A lightweight way to connect intelligent building devices.

- Lightweight cable
- Long-distance connectivity
- Power + data possibilities
- Simpler deployment



Key Takeaways

Less physical infrastructure
Smaller cable and reduced containment

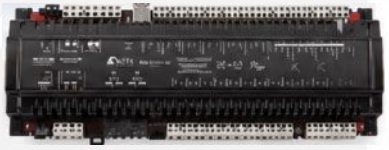
Longer distances
Connect more devices, more flexibly

Power and data
Enable intelligent devices with fewer connections

Simpler deployment
Reduced installation complexity

A smarter network reduces the physical infrastructure required to make buildings intelligent.

FROM HEAVY, COMPLEX INFRASTRUCTURE → TO A LIGHTWEIGHT, INTELLIGENT NETWORK → BUILT FOR SMARTER BUILDINGS



Intelligent. Efficient. Innovative. Sustainable.

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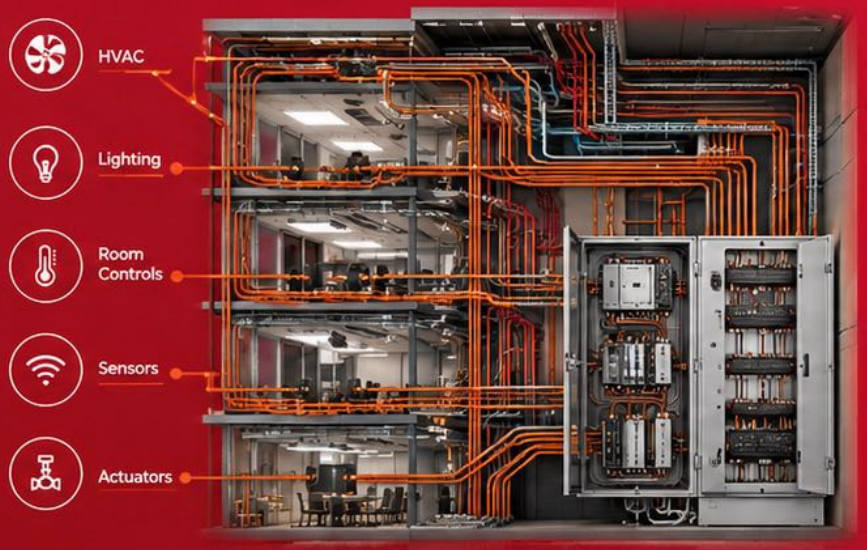
From Centralised Control...

Many devices. Long cable runs. Centralised panels.

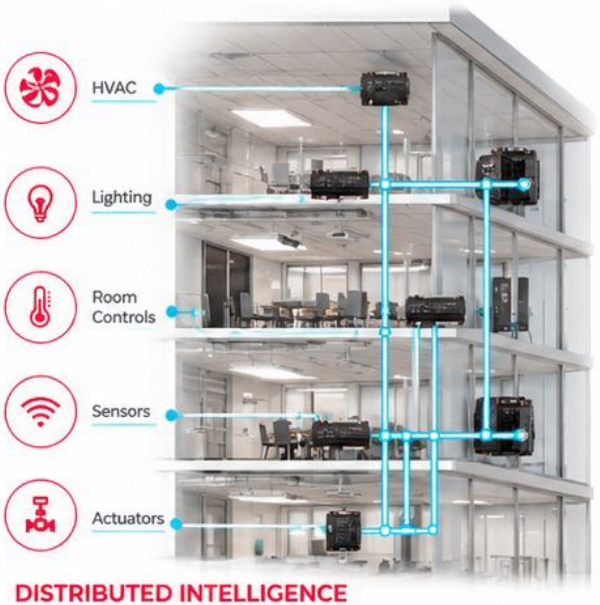


CENTRALISED CONTROL

- Long cable runs
- Many connection points
- Large panels and containment
- More physical infrastructure

...to Distributed Intelligence.

Move intelligence closer to where the work happens.



DISTRIBUTED INTELLIGENCE

- Less cabling
- Shorter control paths
- Scalable architecture
- Greater flexibility

Key Benefits

Less cabling
Fewer physical connections

Shorter control paths
Intelligence at the edge

Scalable architecture
Easier to adapt as buildings change

Greater flexibility
Support a wide range of building applications

Distributed intelligence enables smarter, more efficient buildings with less physical infrastructure.



Intelligent. Efficient. Innovative. Sustainable.

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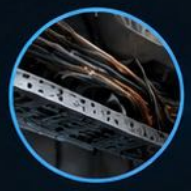
Existing Buildings.
Bigger Opportunity.

80% of the buildings that will be in use in 20 years already exist.

The faster path to smarter, lower-carbon buildings is retrofit.

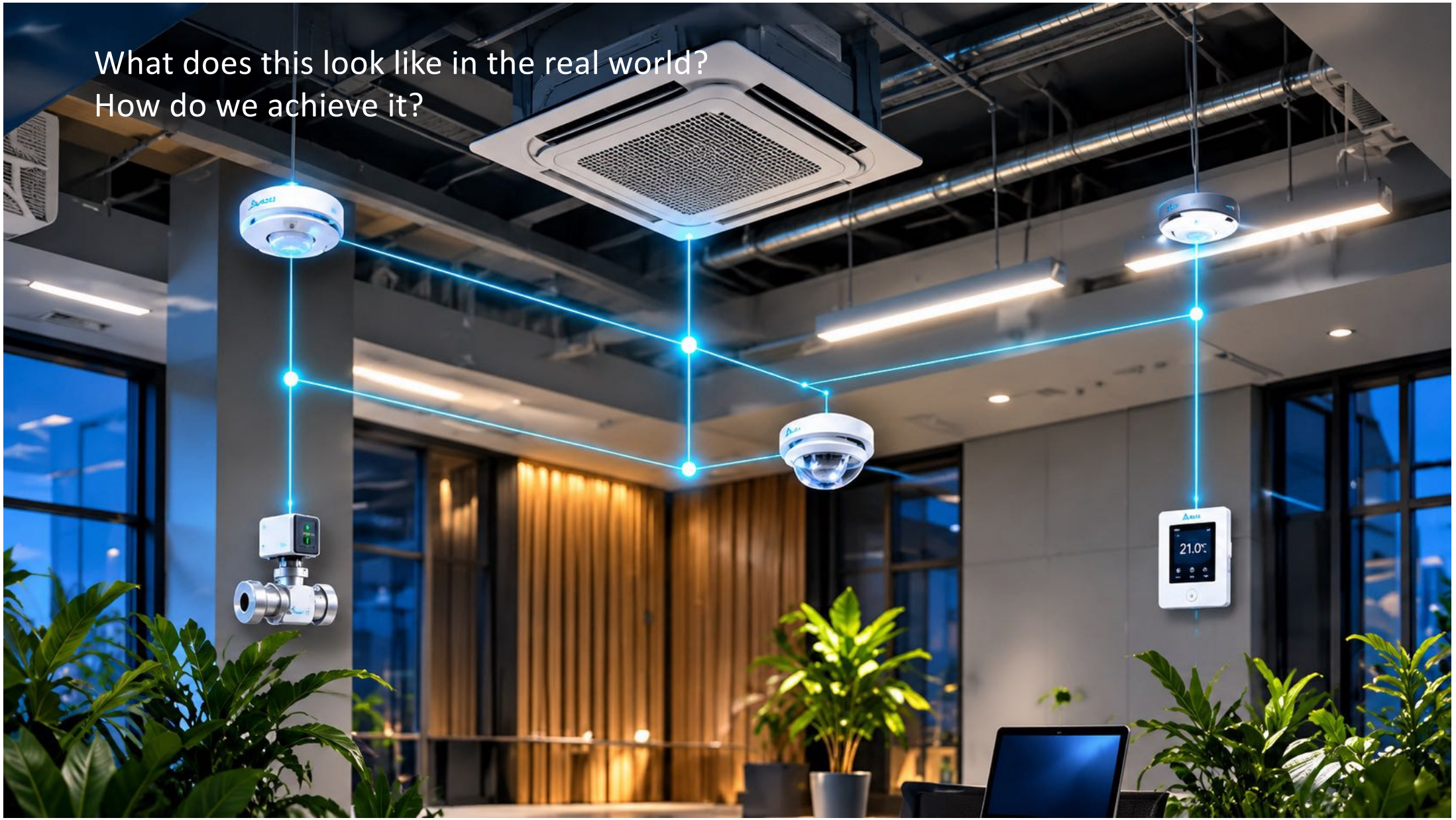


KEEP
existing cabling where possible

ADD
T1L controllers to utilise existing infrastructure

EXTEND
with BLE and EnOcean wireless to avoid recabling rooms

ACHIEVE
new-build smart functionality with less material, less disruption and lower carbon

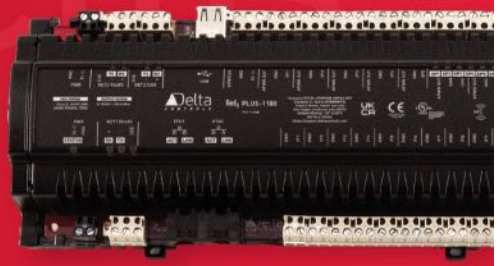

What does this look like in the real world?
How do we achieve it?
21.0°C

Red5 PLUS

Systems

Securing The Future of Your Facility

Flexibility, foundation and future embodied in the next generation of Delta Controls DSC Controller: the Red5 PLUS. A modular format offering faster processing and increased memory, these IoT system controllers use traditional area and subnet architecture along with GCL+ Programming.



Unleash the power of your BMS with secure, scalable integration, with expandable I/O, and advanced IoT features.



Key Features

- BACnet/SC for Secure Remote Access.
- Interoperable Open Protocols for Integrated Ecosystems.
- Native BACnet advanced IoT Controller withNode Red Support and Loadable Python Modules for maximum system integration and interoperability.

Red5 EDGE

The Leading Edge of Building Technology

Meet the next generation of Delta Controls native BACnet controllers with secure and scalable IoT connectivity. Red5-EDGE offers faster processing, increased memory, enhanced security and endless possibilities. Red5-EDGE reduces installation costs by saving you time with updated workflows and reduced site visits.

With it's open protocol integration, embedded web server, BACnet/SC and expandable I/O, Red5-EDGE is a powerful, fully programmable BACnet building controller that comes in a variety of I/O configurations. It has native support of BACnet Ethernet/IP, MS/TP, MODbus, LINKnet and our new Red5BUS.

Key Features

- Native BACnet for System Interoperability.
- High-speed Ethernet/IP w/Dual Port Daisy chain Topoltogy.
- Multiple IO footprints incl. Universal Inputs and Expandable Universal I/O.

Breathe new life into your building with a robust, powerful controller that sets the standards for today's building controls technology.



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T1L:
A Different Way to Think About Building Connectivity.

One lightweight backbone.
Many intelligent devices.

CON-T1L brings Single-pair Ethernet (10BASE-T1L) to building automation, enabling IP connectivity over a single twisted pair. It bridges the gap between high-performance networking and existing wiring infrastructure—without disruption or excessive costs.



CON-T1L

Key Features

- **Future-proof Retrofits**
  Reuse legacy twisted pair wiring to achieve Ethernet-level speed and reliability—no rip-and-replace required.
- **Fast, Future-Proof Upgrades**
  Adds IP networking to older wiring layouts, giving buildings a modern BMS without overhauling the entire infrastructure.
- **Plug-and-Play Simplicity**
  No configuration or addressing required - just connect and go!
- **Designed for Retrofit & Beyond**
  Perfect for unitary controllers and retrofit scenarios where distance and cable type are limiting factors or simply to bridge the gap between older technology and new controllers.



Bring Your Building to the Future—Without Rewiring It.

ONE LIGHTWEIGHT BACKBONE.
MANY INTELLIGENT DEVICES.



Less physical infrastructure.
More connected intelligence.

Key Benefits

- **Less cabling** — Fewer physical connections
- **Greater flexibility** — Easier scalability as buildings evolve
- **Simpler deployment** — Reduce installation complexity
- **Future-ready** — Enable intelligent retrofits and new builds

Intelligent. Efficient. Innovative. Sustainable.

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O_3 Edge

Think. Sense. Speak.

Delta Controls' award-winning O3 Edge standalone multisensor uses industry leading sensor fusion technology to deliver the most accurate view of an interior space available on the market. Integrating temperature, humidity, motion, sound, and light sensing in a single device, the O3 Sense uses machine learning to provide fast, accurate feedback on the monitored space.



Key Features

- Measure occupant located/situated temperature precisely with combined.
- IR and traditional sensors.
- Accurate occupancy detection using sound and motion.
- Communicate with occupants via RGB light ring, integrated speaker or the Seymour Connect app.
- Integrate via the IR blaster, optional on board I/O or EnOcean connectivity.



Standalone Controller, Multisensor, 2 Uniputs, Programmable.

eZNT-Wi

Wi-Fi BACnet. Thermostat.

The eZNT-Wi is a fully programmable, Dual band Wi-Fi enabled BACnet thermostat that combines built-in room sensing with application-level control in a single, wall-mounted device. Designed for retrofit and light commercial applications, eZNT-Wi upgrades legacy, non-communicating thermostats into connected, intelligent zone controllers without requiring new network infrastructure.

With native BACnet/IP over Wi-Fi, customizable user interfaces, and support for advanced control strategies, eZNT-Wi delivers improved comfort, energy performance, and operational visibility in a compact, installer-friendly form factor.



Key Features

- **Supports Dual Ban 2.4 / 5GHz**
  Native BACnet/IP communication over Wi-Fi enables fast deployment without new cabling, making eZNT-Wi ideal for retrofit applications. Dual band 2.4/5GHz provides a 5GHz option for less interference and better performance in dense Wi-Fi environments.
- **Fully Programmable Control**
  Fully programmable and available in multiple I/O configurations (T100, T331, T304), the eZNT-Wi features universal inputs, analog outputs, and binary outputs to support a wide range of applications including VAV, fan coil, unit ventilator, chilled beam, and radiant systems.
- **Customizable User Interface**
  Large, easy-to-read LCD with RGB backlighting and configurable button layouts allows the thermostat to match occupant needs, décor, and branding.



Wi-Fi enabled zone control for retrofit and light commercial applications.

Upgrade legacy thermostats. Improve comfort, efficiency and connectivity.

The Opportunity **Isn't Just Carbon**



Three Things We Should **Start Doing Differently**

01

THINK WHOLE-LIFE

Don’t measure building efficiency only in operational energy.

02

MAKE CONNECTIVITY PART OF THE DESIGN

Network architecture affects material, installation and lifecycle impact.

03

PUT INTELLIGENCE CLOSER TO THE EDGE

Distributed intelligence can reduce the need for heavy physical infrastructure.




MORE INTELLIGENCE.
LESS PHYSICAL
INFRASTRUCTURE.
That’s the opportunity.

Thank You

