



Future Proof Building e Real Estate

Il contributo delle piattaforme digitali alle iniziative di decarbonizzazione del patrimonio immobiliare



November 21st 2025



OUR VISION

We make a connected world possible by working together as a global team to enable technology that transforms the future and **improves lives.**

OUR COMPANY

\$7B

REVENUE

5%+

SALES REINVESTED
INTO R&D

42k+

EMPLOYEES
WORLDWIDE

38

COUNTRIES

18k+

SUPPLIERS

72

MANUFACTURING
LOCATIONS

100k+

PRODUCTS

80+

YEARS OF
INNOVATION

OUR APPROACH

CUSTOMER
NEEDS
ASSESSMENT

➤ PRODUCT
DESIGN &
INNOVATION

➤ TESTING &
QUALITY
ASSURANCE

➤ SOURCING &
SUPPLY CHAIN
OPTIMIZATION

➤ DESIGN
VERIFICATION
& LAUNCH

➤ DELIVERY
EXCELLENCE

➤ TAILORED
CUSTOMER
SERVICE

OUR MARKETS


DATACENTER/
5G


HOME
APPLIANCE


AUTOMOTIVE


MEDICAL
/PHARMA


INDUSTRIAL


TELECOM


CONSUMER

OUR DIFFERENCE

QUALITY
ENGINEERING

GLOBAL
OPERATIONAL
EXCELLENCE

EXPANSIVE
KNOWLEDGE
NETWORKS

SOUND
ENVIRONMENTAL
PRACTICES

SUPERIOR
CUSTOMER
EXPERIENCE

WORLD-CLASS
MANUFACTURING
CAPABILITIES

DEEP
ENGINEERING
EXPERTISE

PRIVATELY
HELD

STABLE AND
TENURED
MANAGEMENT
TEAM

PRINCIPLE-
BASED
MANAGEMENT®

STRONG
FINANCIAL
FOUNDATION

SUPPLY CHAIN
INTELLIGENCE
AND AGILITY

COMMITMENT
TO DIVERSITY
AND INCLUSION

DIGITAL
TRANSFORMATION

OUR FOUNDATION

120k+

EMPLOYEES WORLDWIDE

60+

COUNTRIES

\$125B

ANNUAL REVENUE*

1 OF THE LARGEST
PRIVATELY-HELD
COMPANIES IN THE U.S.

90%

EARNINGS REINVESTED

10k

PATENTS GRANTED

KOCH

**Our revenues fluctuate with the price of commodities. They have been as high as \$125 billion.*

Largest Project Footprint

Molex CoreSync: the world's largest PoE installed base by sq.f. (> 8Mln)



2030: Obsolete offices risk

170 Million sqm

office stock at risk of becoming obsolete by 2030 in 16 European cities

6 London

office stock equivalent in London

MARKET	% OFFICE STOCK AT RISK OF OBSOLESCENCE
MILAN	86%
BARCELONA	81%
STOCKHOLM	81%
PARIS	80%
MADRID	77%
AMSTERDAM	77%
LONDON	76%
BRUSSELS	70%
FRANKFURT	70%
BERLIN	65%
LISBON	64%
DUBLIN	64%
MUNICH	60%
PRAGUE	47%
BUDAPEST	43%
WARSAW	40%

2030 risk: obsolete offices

CARBON

High building standards to meet ESG goals:

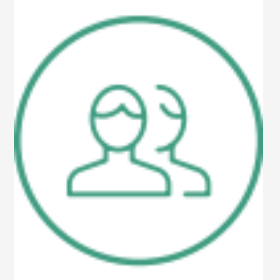
- energy efficiency
- carbon emission targets



COMMUNITY

Highest quality Grade A buildings in the best locations

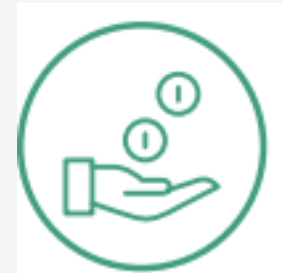
- to espouse corporate persona
- to attract the best talents



COST

Improving buildings according to market prices

Holding vacant space for long periods of time

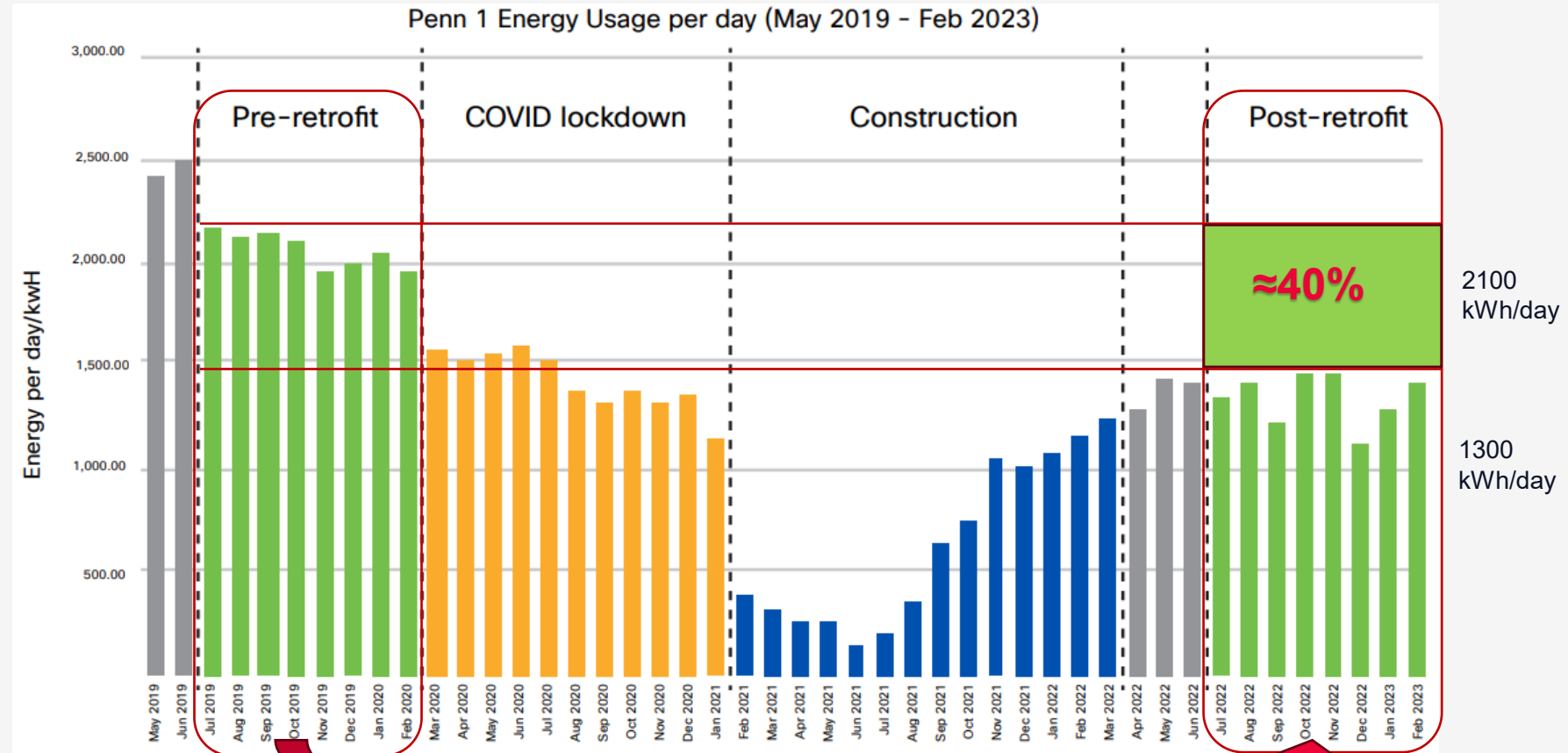


Driver 1: Energy Price Increase

- Real time control
- Efficiency



Penn 1
retrofitting:
energy saving



Driver 2: Future-Proof Buildings

- Sustainability & ESG
- Flexibility

➤ **Energy efficiency standards / Building Regulations** (lighting management system, energy metering kWh, etc)

➤ **Measurable performance:**
Smart Readiness Indicator (SRI) (comfort, energy efficiency, flexibility, interoperability, connectivity).

➤ **ESG & Building certifications:**
LEED, WELL, BREEAM (Molex contribution: up to 34/110)



Driver 3: New Working Models

Smart working, **digital collaboration**, hybrid working will support new digital offices and collaboration solutions.

- **People wellbeing**
- **Attract & retain talent**

Efficiency & Comfort

Functional
new layout

Smart
technological
equipment





Future Proof Buildings Technology Solutions



Smart Building: why is it important

SMART BUILDING

Mission: Design and operate workplaces that create safe and healthy spaces, promote productivity, support equal opportunities, and accelerate the transition to net zero



The productive workplace

For a digital environment where employees are empowered to perform at their best



The healthy workplace

To promote the physical, mental and social well-being of employees



The sustainable workplace

To achieve a net zero * and sustainably certified CRE portfolio

**up to -40% energy savings demonstrated*



The inclusive workplace

For a flexible and diverse workplace that supports employees with diverse capabilities

Net zero carbon

People Wellbeing

Attract & retain talent

Sustainability Certifications

Indoor air quality

Natural light and quality lighting

Ergonomics, workstation design and acoustics

Adaptive Layouts

Space Optimization

Why an IT-IoT- sustainability partnership

Three key areas of focus on smart building that add value at the CRE level

Workplace Experience



Enhancing the employee workplace experience (data based improvements in services, design and a culture of caring).

Efficiency



Driving Efficiency; Reducing the cost to serve **up to -40%** across portfolio, operating expenses, platform costs, and capital expenditures.

Future Proofing



Achieving net zero sustainability targets.

Defining the smart attributes of spaces to ensure they are **productive, healthy, sustainable, and inclusive.**



JLL Sustainability roadmap

JLL targets are aligned with the Science Based target initiative (SBTi) Net Zero Standard to support its commitment to achieving net zero emissions.

• **2018**
Baseline

Our emissions rose as we changed to a more accurate way of assessing.

• **2021**
Setting targets

JLL is the only real estate firm to join the first 7 companies setting science-based net zero targets.

• **2023**
Leading with our offices

We've reduced our office Scope 1 and 2 emissions by 35% since 2018, with a 12% reduction from efficiency measures.



Net zero transition planning

JLL is developing a net zero transition plan to strategically reduce our environmental impact across our business units and align with global sustainability goals.

• **2030**
Interim target

51% reduction of absolute scope 1, 2 and 3 emissions across JLL by 2030.

JLL's client emissions are the most challenging element of JLL's net zero commitment

• **2040**

Our ambition
Net zero

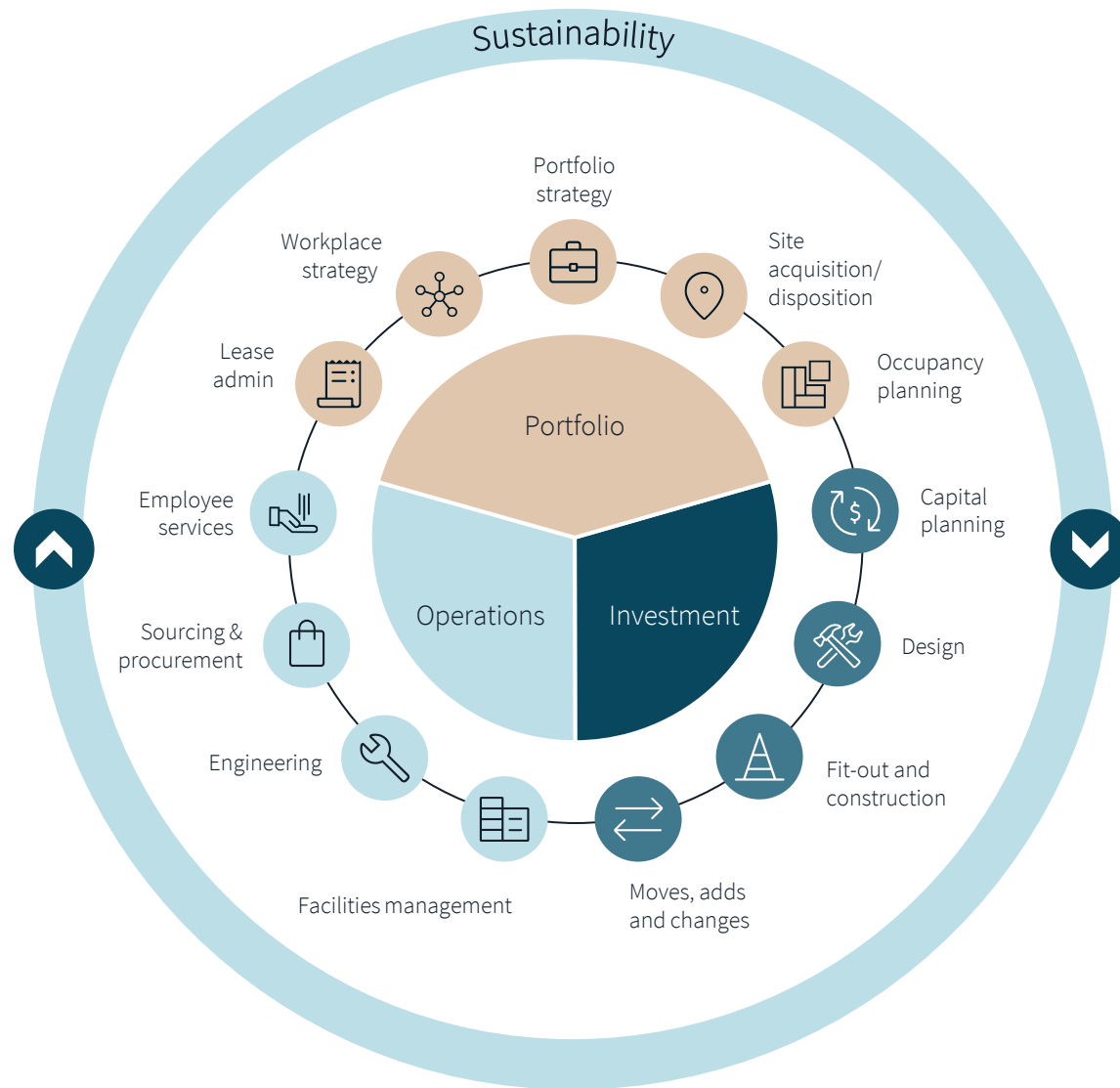
95% reduction of absolute scope 1, 2 and 3 emissions

<5% carbon removal offsets



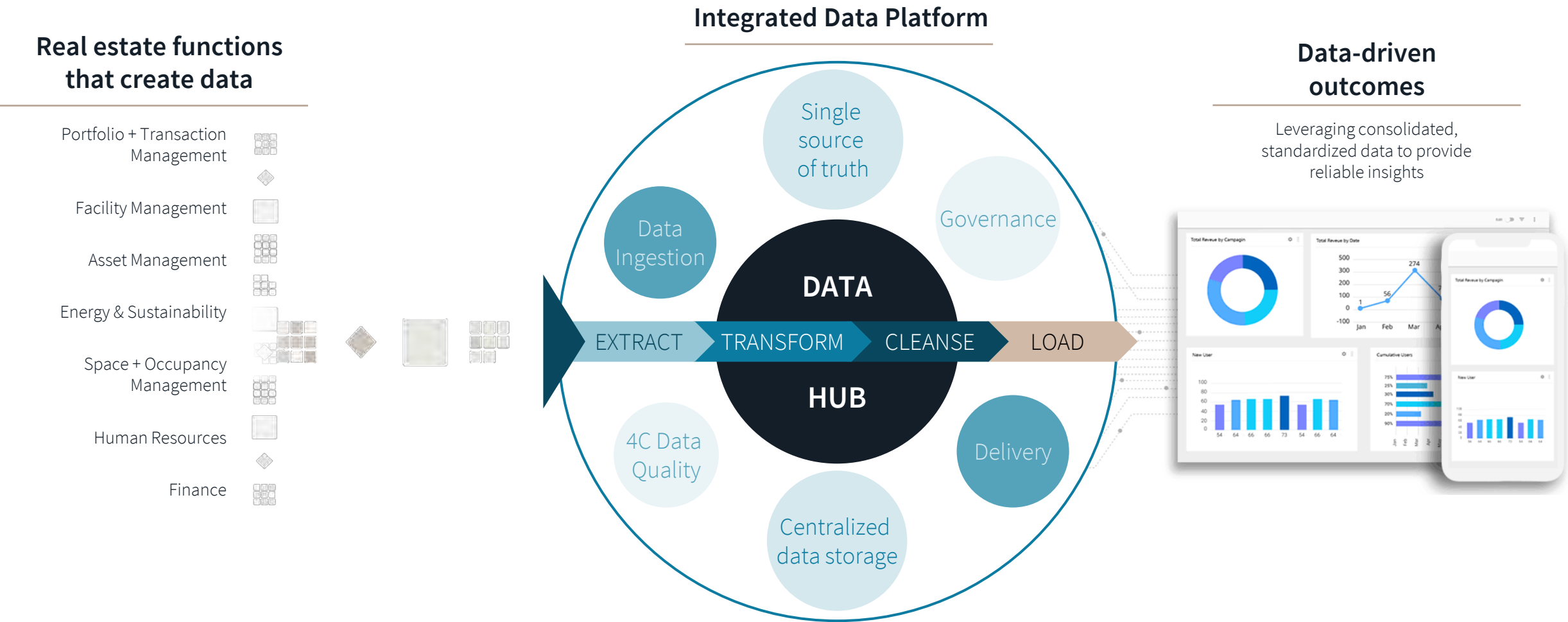
DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

JLL Embedding Impact across the real estate lifecycle



Integration of
sustainability at every
stage **catalyzes**
transformative **progress** –
globally & consistently

Disconnected vs. unified approaches



Technology Platforms enables Smart Building service delivery



Ecosystem-based approach

In an increasingly interconnected market, true innovation comes from the **collaboration** between different skills. The future of smart buildings is built by integrating **strategic consulting for real estate** sustainability, advanced **technologies** such as **AI sensors** and **IoT solutions**, and integrated systems for the management of digital infrastructure.

01

Confidential

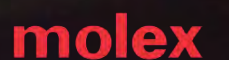


Tangible and measurable ROI

Thanks to **technologies** such as smart lighting, environmental sensors and continuous monitoring of consumption, buildings improve energy efficiency and environmental impact, increase **attractiveness** for tenants and achieve certified asset value.

02

Confidential



Operational sustainability and future-proofing

With **centralized management platforms** and **data-driven solutions**, buildings become more efficient, safe, and comfortable environments. Spaces designed to evolve over time, **improve the experience** of those who live in them and concretely support the environmental and social objectives of companies.

03

Confidential



Smart Building & LEED EBOM Certification – Target PLATINUM

Achieved
Certification



GOLD
60 - 79 POINTS

Target
Certification



PLATINUM
80+ POINTS



Explore our sustainability solutions and how to transform your real estate portfolio into a high-value, performance-optimized asset.



An inspiring p.o.v.

“
Business districts that
don't change are dead –
clinging to the status quo
isn't an option
”



ITALY
CONFERENCE 2025

City of the Future: Innovation, Inclusion
and Competitiveness for a New Urbanity

21 OCTOBER | ALLIANZ TOWER, MILAN

From event: “City of the Future: Innovation, Inclusion and Competitiveness for a New Urbanity”
Simon Chinn, Vice President, Research & Advisory Services, ULI Europe



JLL SEE A BRIGHTER WAY



BUSINESS OVERVIEW

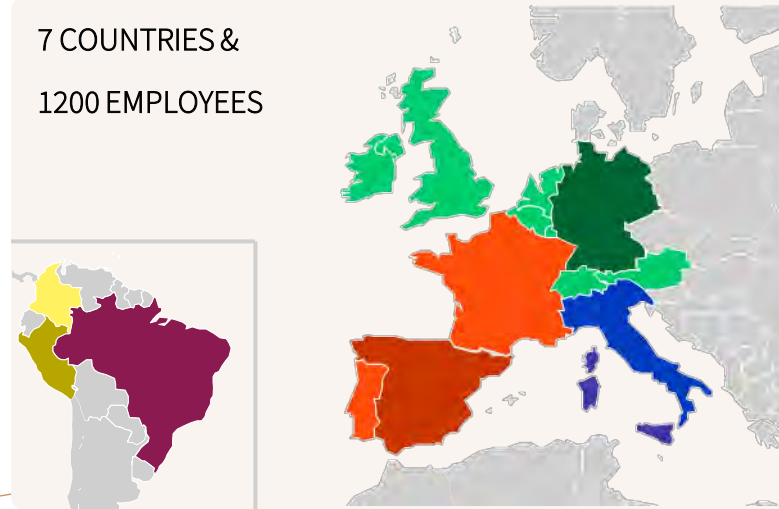
Italtel designs, implements, supports and manages ICT infrastructure and solutions:

- **Network Evolution:** IP Network, RON and 5G Network and applications
- **Digital Solutions & MS:** Managed Services, Hybrid Cloud, Cybersecurity, Collaboration, Analytics & Automation and IoT
- **Proprietary products:** Multimedia products and services

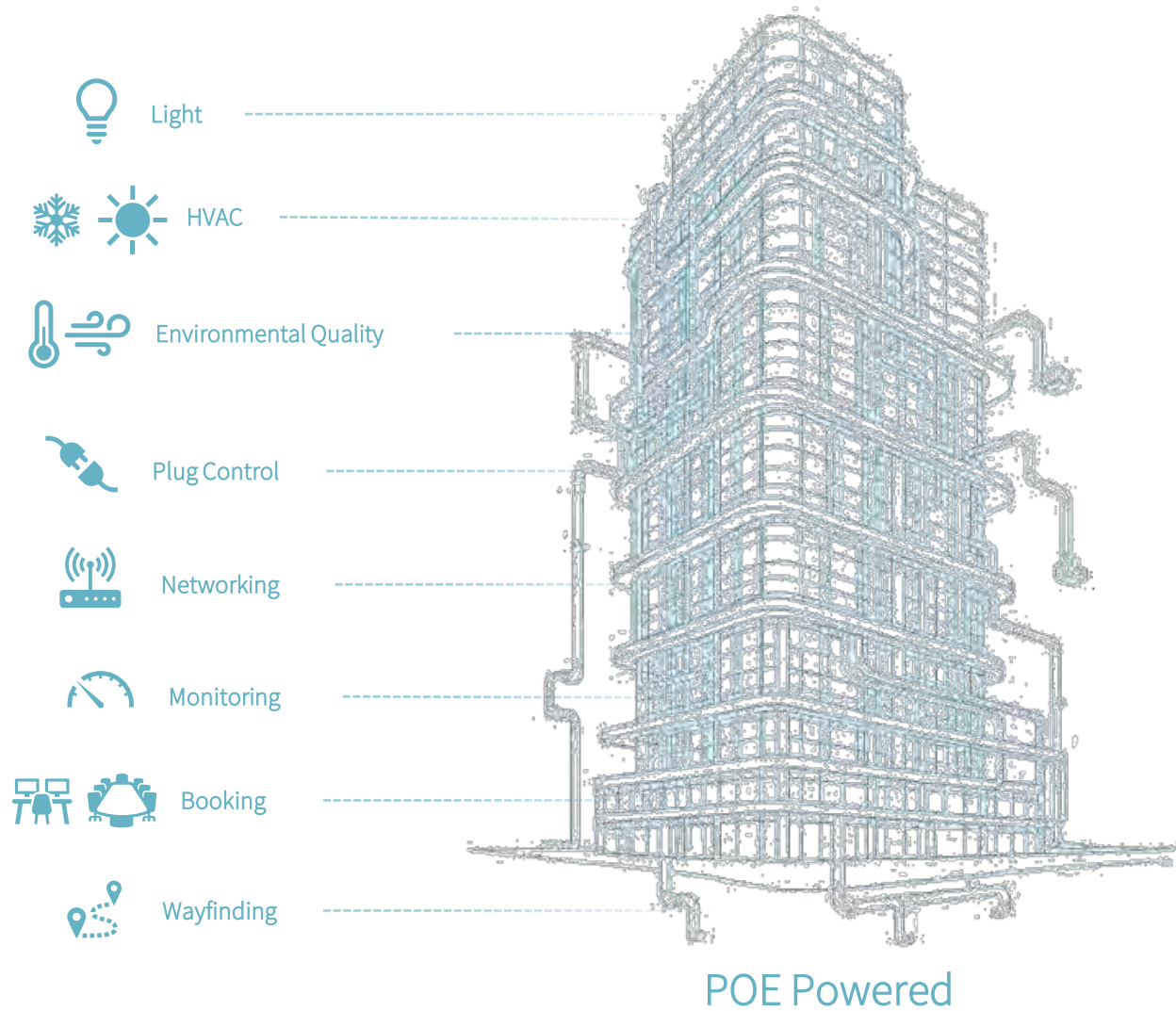
MAIN INDUSTRIES

Telco & Media		1	2		Public Admin.
Banking & Insurance		3	4		Industrial Enterprises
Energy, Utilities & Transportation		5	6		Digital Health

7 COUNTRIES &
1200 EMPLOYEES



Let the building (r)evolution begin!



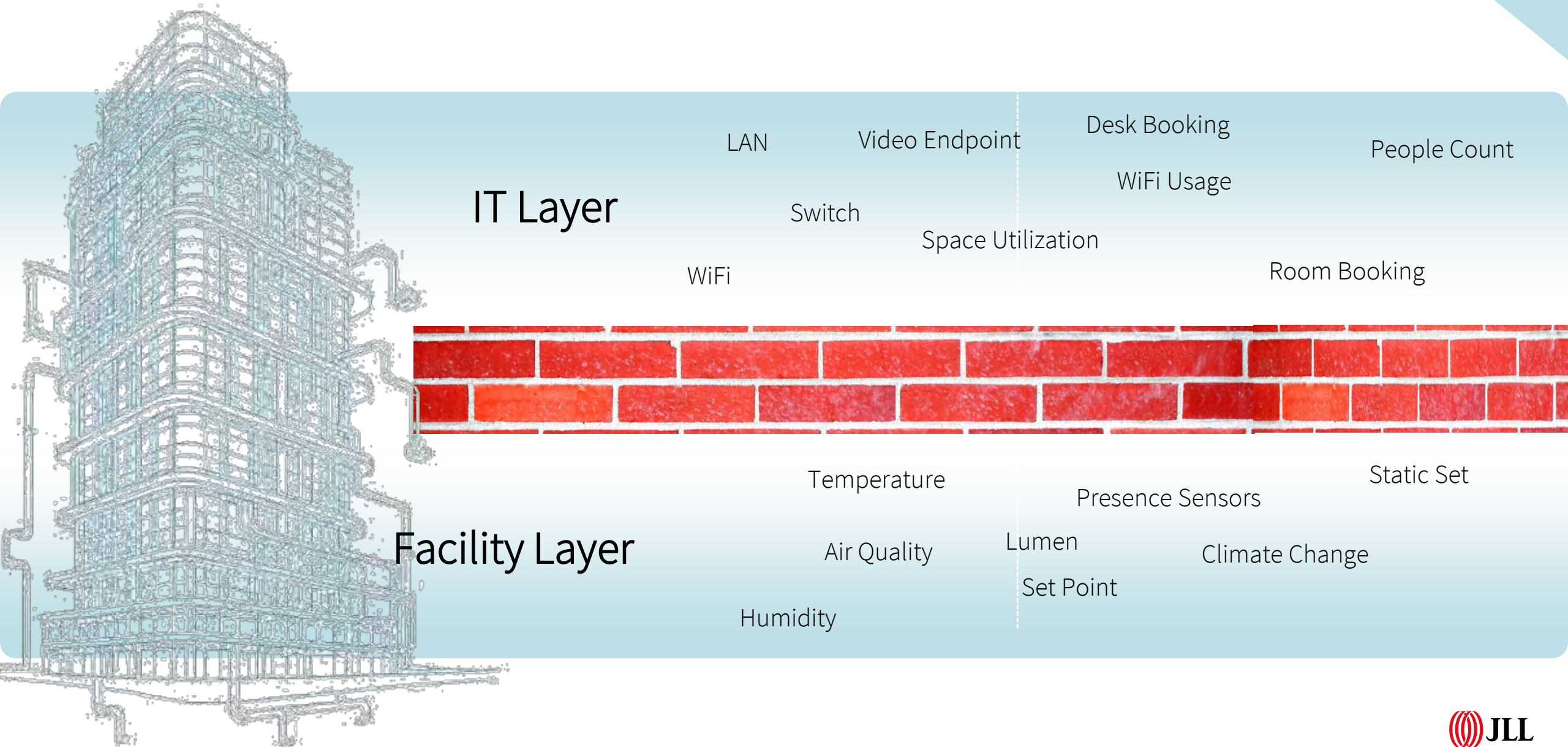
Italtel positions itself as a **System Integrator**, bridging the gap between the Facility world and the IT world.

Technology is now a driving force in achieving new ESG goals, but it must be integrated into the facility domain.

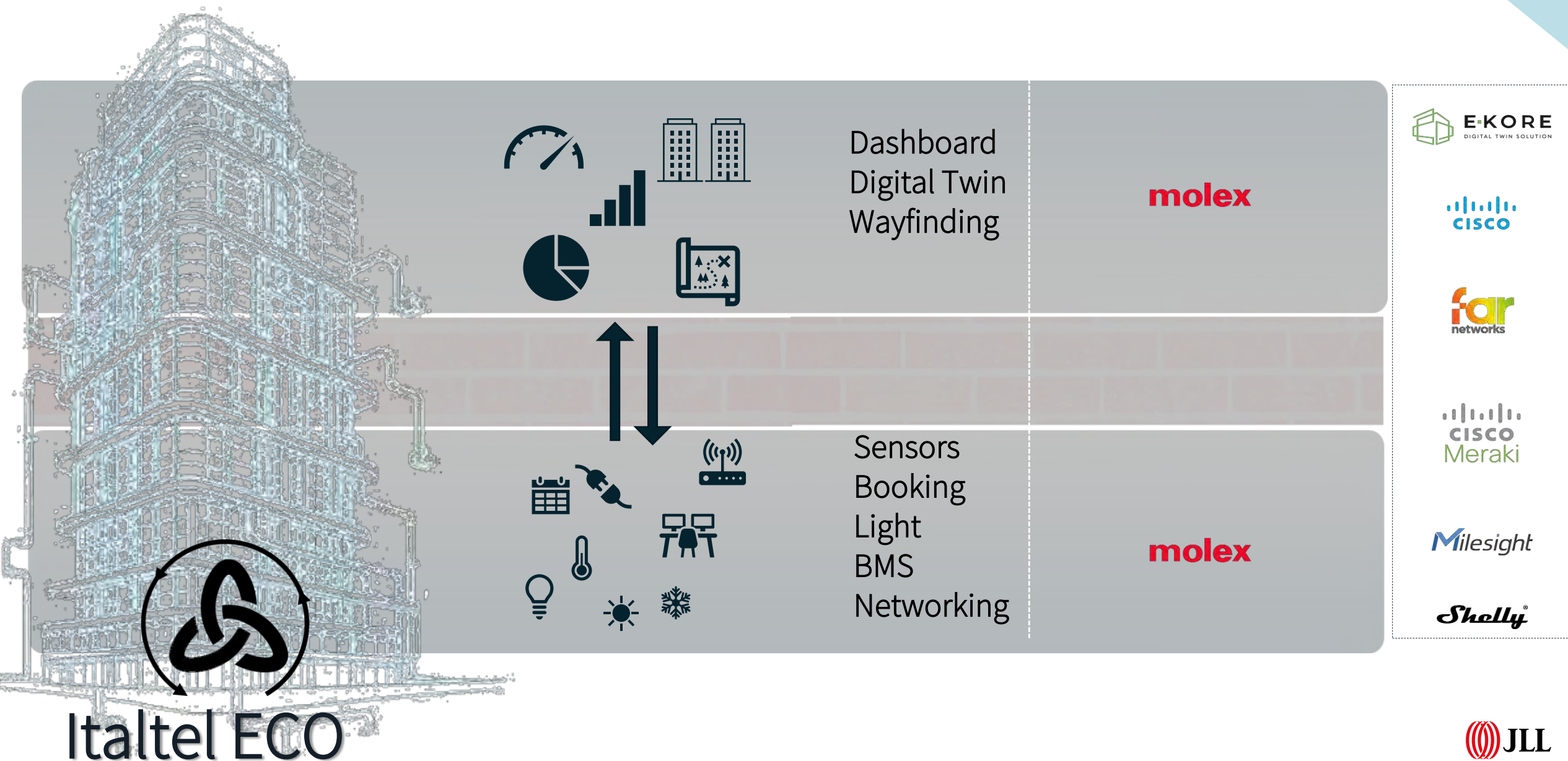
Italtel will be your trusted professional services partner, also able to supply the IT network equipments.

We'll make it happen!

From Separated Layers...



... to **One** Integrated Layer...



Dashboards' Examples



Way finding



Air Quality Temperature



Booking People Count Occupancy

Value Proposition

molex CoreSync



REDUCE ENERGY CONSUMPTION
AND CARBON FOOTPRINT



LOWER OPERATIONAL AND
MAINTENANCE COST



ESG FLEXIBILITY
WELL-BEING





molex | **CoreSync**

Intelligent Building Platform

- 1 Smart Lighting, Shading, Plug Loads Controls
- 2 Granular Presence: Occupancy/Vacancy
- 3 Temperature, Humidity, Relative Pressure
- 4 VOC, Smoke, CO, CO2, PM2.5, PM10
- 5 Power Monitoring, Space Utilization, Wellbeing
- 6 PoE Power Saving

BUILT ON POE
INFRASTRUCTURE

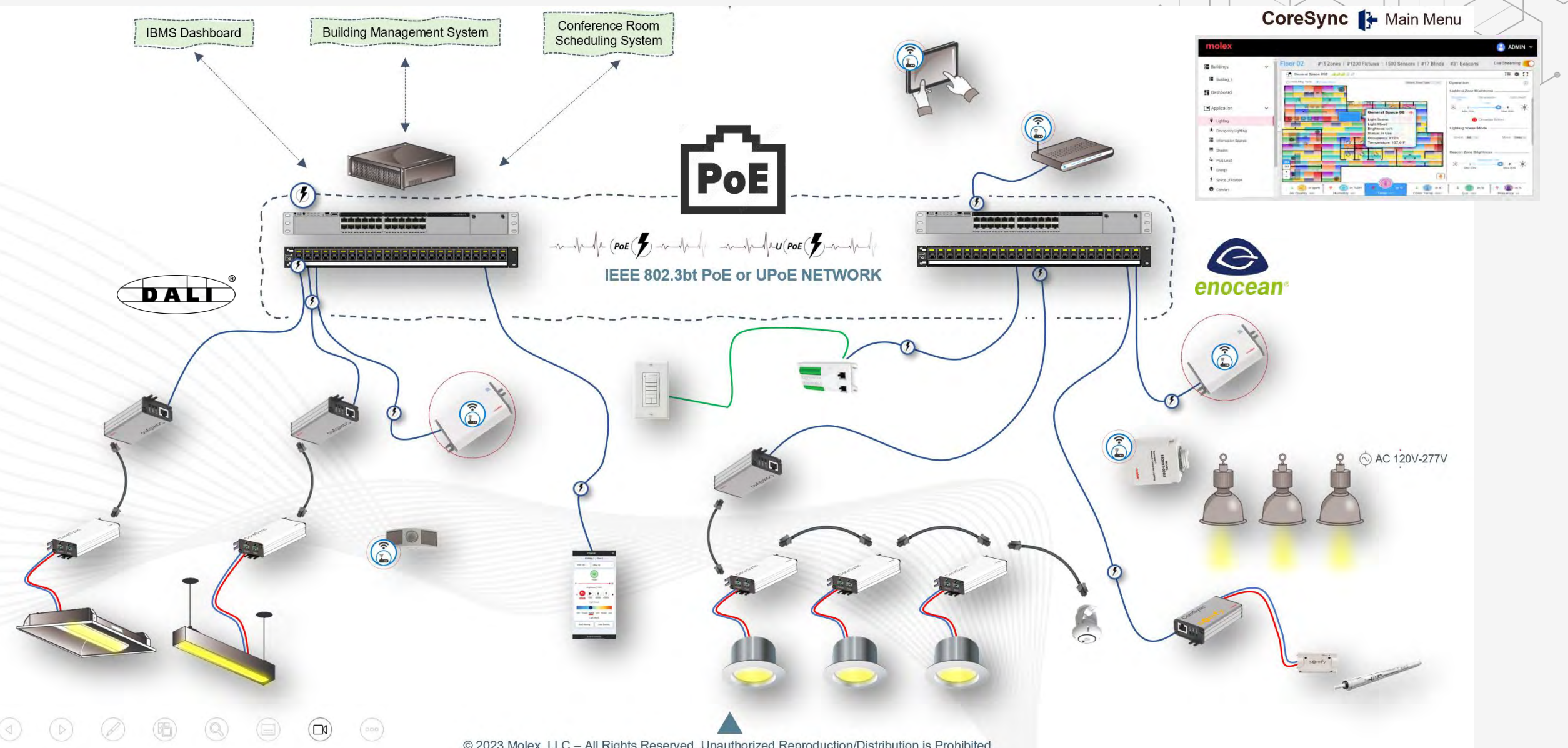
HUMAN CENTRIC
LIGHTING
CIRCADIAN CYCLE

SINGLE PANE OF
GLASS SMART
BUILDING
DASHBOARD

INTEGRATION WITH
BMS/AV

INSIGHTS

CoreSync – High Level Physical Architecture



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Modern workplace / historic city setting



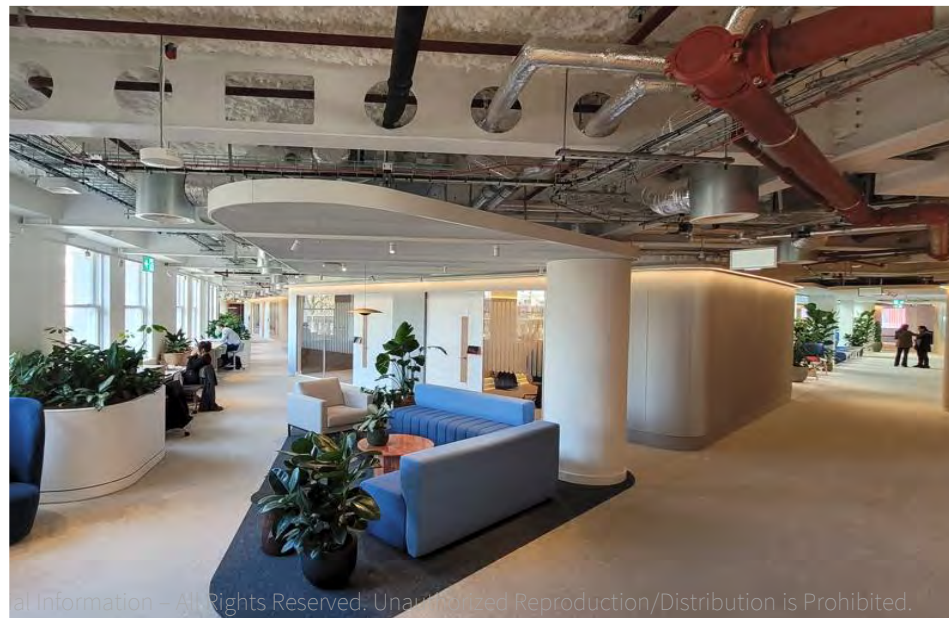
London City: the most connected, sustainable, and collaborative work environments ever created



Multi-floor renovation



4,000 m²



molex

JLL

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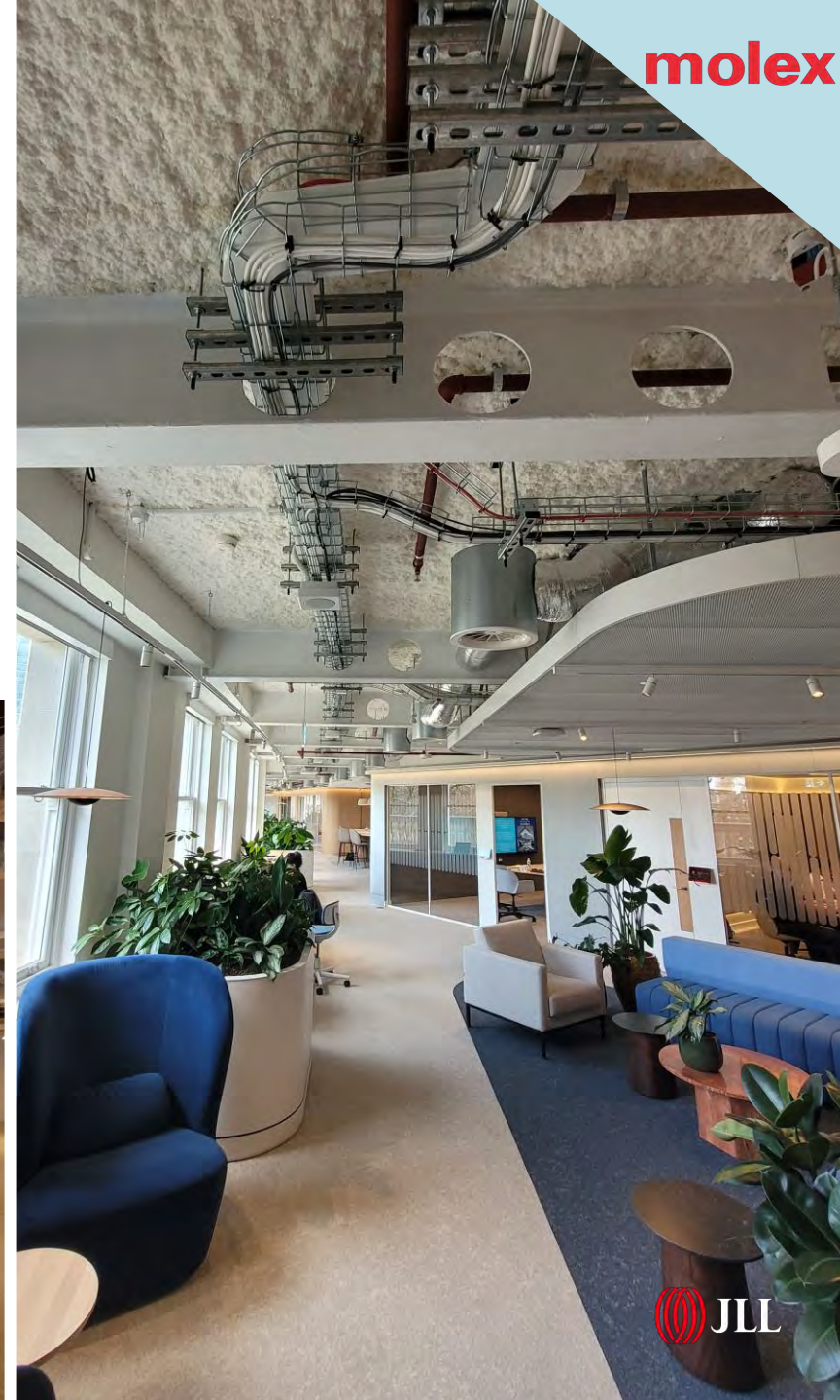
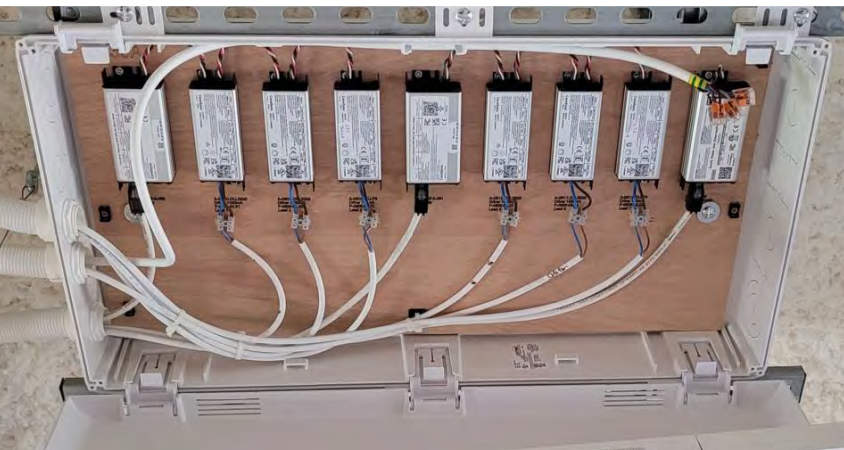
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A modern workplace in a historic city setting

Molex PoE foundation

100% low-voltage: lighting, shading, IoT sensors powered by Molex

- sustainability goals (**LEED Gold**)
- health and wellness objectives (**WELL Platinum**)



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CISCO LONDON OFFICE



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Modern workplace / historic city setting



London City: the most connected, sustainable, and collaborative work environments ever created



Multi-floor renovation



4,000 m²

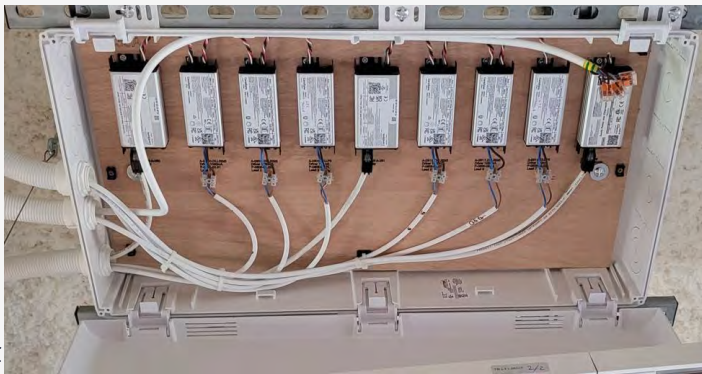


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Molex PoE foundation

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- sustainability goals (LEED Gold)
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ULTRA-ENERGY EFFICIENT PASSIVE BUILDING OFFICE

BOSTON, USA

molex

Winthrop Center: 80K sqm

The world's largest Passive House office space

WELL Gold + **LEED Platinum** status



Moxex main benefits:

- indoor air quality
 - natural smart lighting control
- to reduce stress and increase performance.

moxex

© Moxex, LLC



CAMPUS, UAE



Highlights

- 140.000 sqm Total built-up area, Dubai
- 75.000 sqm Offices / 3.500 workstations
- Sustainability, efficiency and comfort
- LEED **Gold** certification
- 20% Clean Energy
- 1.400 tones of CO2 savings / year



molex

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Ethernet cable, smaller and lighter than traditional mains power, reduces the amount of required material (-80% weight)

PoE



When it is not needed PoE ports are turned off to save power → LEED certification

Ultra Power Saving

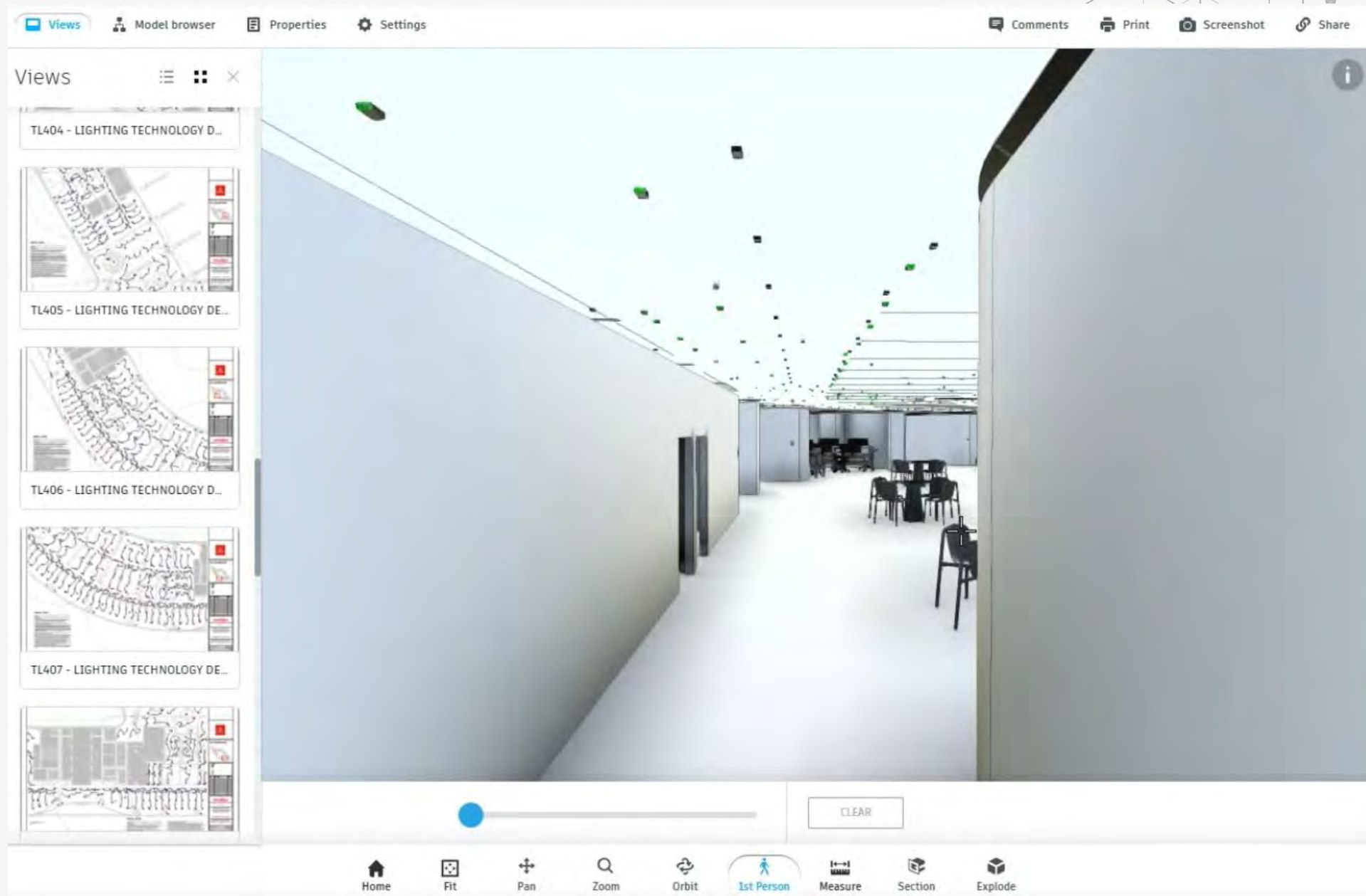
3rd party integrations (Cisco, BMS, etc) via BacNet, Rest API

Interoperability

PoE can achieve the best in class energy saving: 2,7 time better CO2 saving vs Dali design

CO2 saving

BIM Model – digital twin



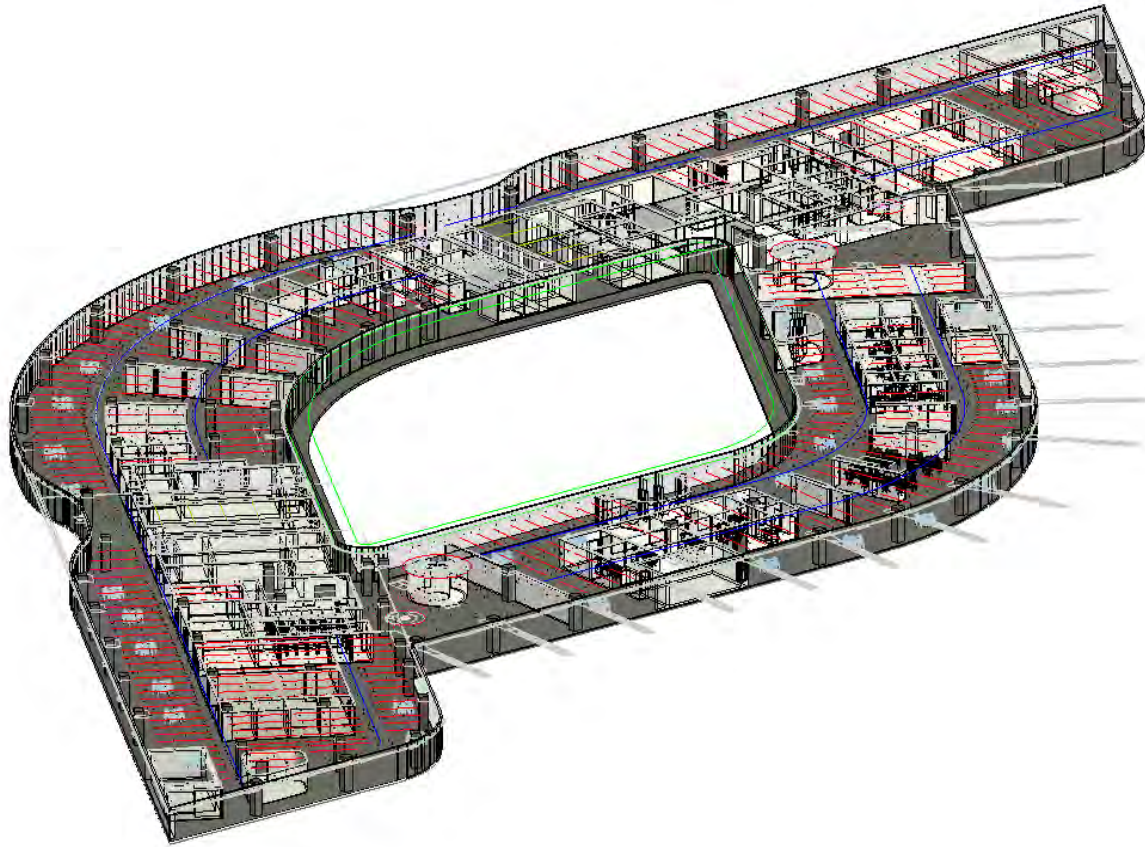
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Preliminary Assessment

Typical floor



**Installation,
commissioning
and maintenance**



**Energy, material
and components**



**CO2 Emissions and
environmental KPI**

Preliminary Assessment



Installation,
commissioning &
maintenance

-50% Installation time

-80% Maintenance time



Energy, material
and components

-80% Weight (Kg)

-26% Length (m)

-75% Copper

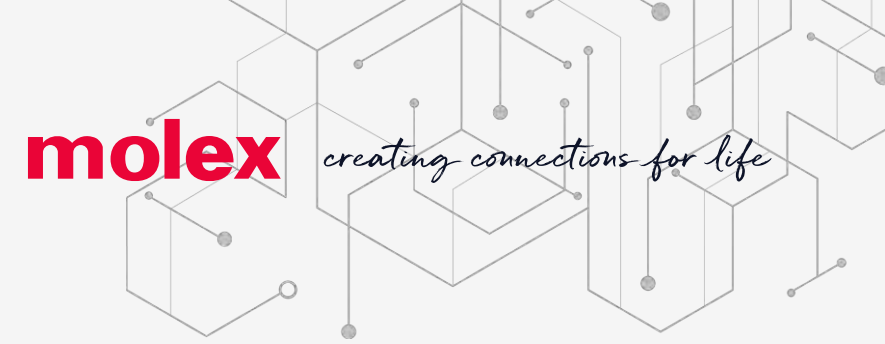


CO2 Emissions and
environmental KPI

-33% KgCO2 / \$
Carbon Intensity

-40% Kwh/year
EUI

2,7
time better CO2 Saving
PoE vs Dali



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Grazie

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creating connections for life

- Single Pane Of Glass – Smart Building Dashboard
- <https://www.youtube.com/watch?v=XVO5oB9weW4>