

The Cisco Live! logo, featuring the word "CISCO" in a dark blue, sans-serif font, followed by "Live!" in a dark blue, script font.

CISCO *Live!*

The text "Let's go" in a large, dark blue, sans-serif font, positioned to the left of a bright white sunburst graphic that radiates across the right side of the image.

Let's go

#CiscoLiveAPJC



The bridge to possible

Hybridwork

Reimagining the future of workplace

Kabeer Noorudeen, Hybridwork Architect
BRKAPP-1697

CISCO *Live!*

#CiscoLiveAPJC

Cisco Webex App

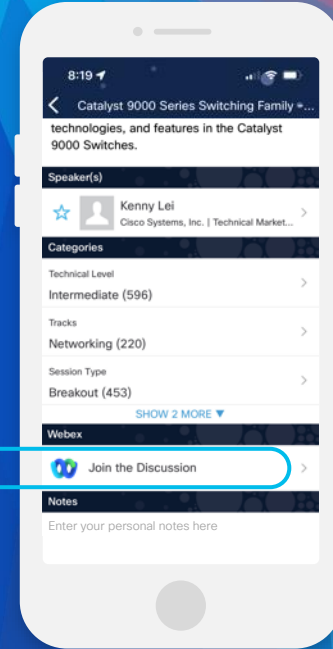
Questions?

Use Cisco Webex App to chat with the speaker after the session

How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click “Join the Discussion”
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until December 22, 2023.



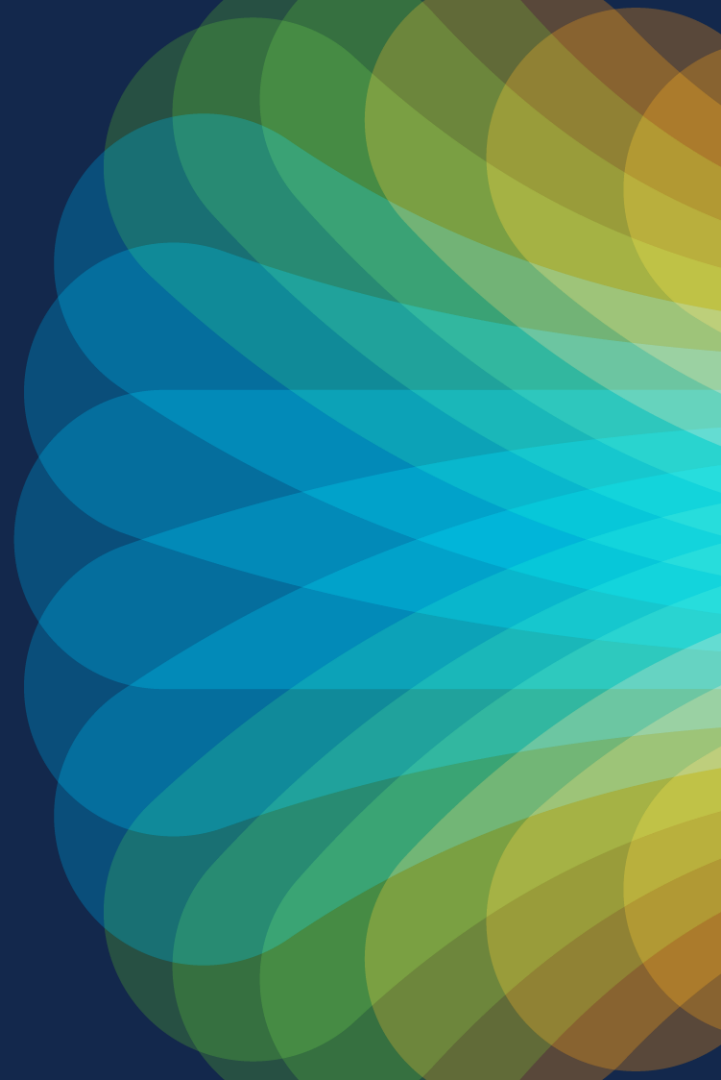
<https://ciscolive.ciscoevents.com/ciscolivebot/#BRKAPP-1697>

Agenda

- Trends in workplace
- Health/Wellness
- Hybrid/Agile workplace
- Digitise Real-estate
- Sustainability
- Enabling Technology



The Workplace



What we've learned in the last 3 years

- | “Work from home” is non-negotiable
- | Offices are becoming an event-based culture hub
- | Experiences between home and office must be seamless
- | Security is more important than ever
- | Immersive video is key to keep people connected & engaged



Is there a focus to return to office?

FORBES > LEADERSHIP > CAREERS

Why Return-To-Office Mandates Will Backfire

— Opinion

— Opinion

Return to office standoff: coming soon to a workplace near you

CNBC news | Technology | Workplace Matters

Google's return-to-office crackdown gets backlash from some employees: 'Check my work, not my badge'

BUSINESS • CAREERS

As People Return to Offices, It's Back to Misery for America's Working Moms

Flexibility makes us happier, with 3 clear trends emerging in post-pandemic hybrid work

Big test for return to the office starts now

The 'productivity paranoia' managers can't shake

FORTUNE

72% of companies have return-to-office mandates—but nearly half are seeing attrition spike

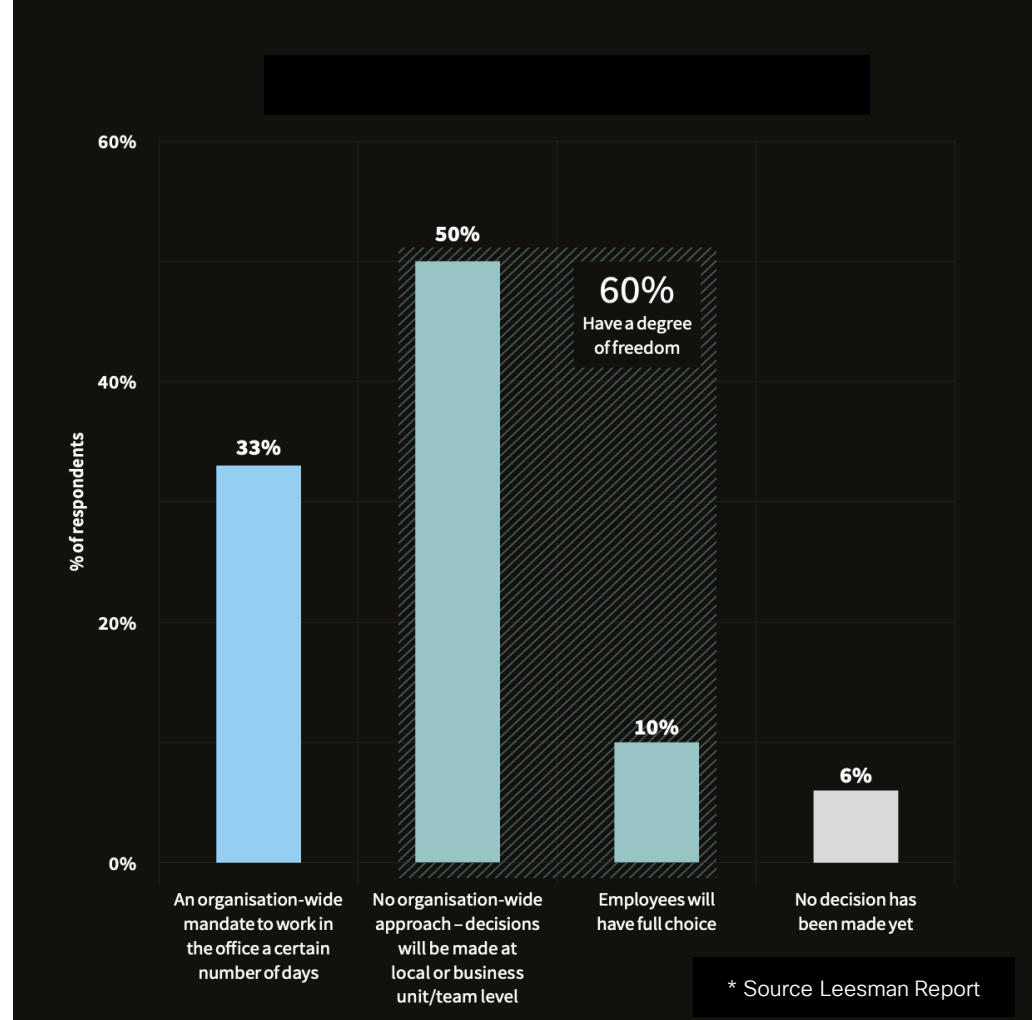
LIFE & WORK | WORK & LIFE

How Workers Really Spend Their Days

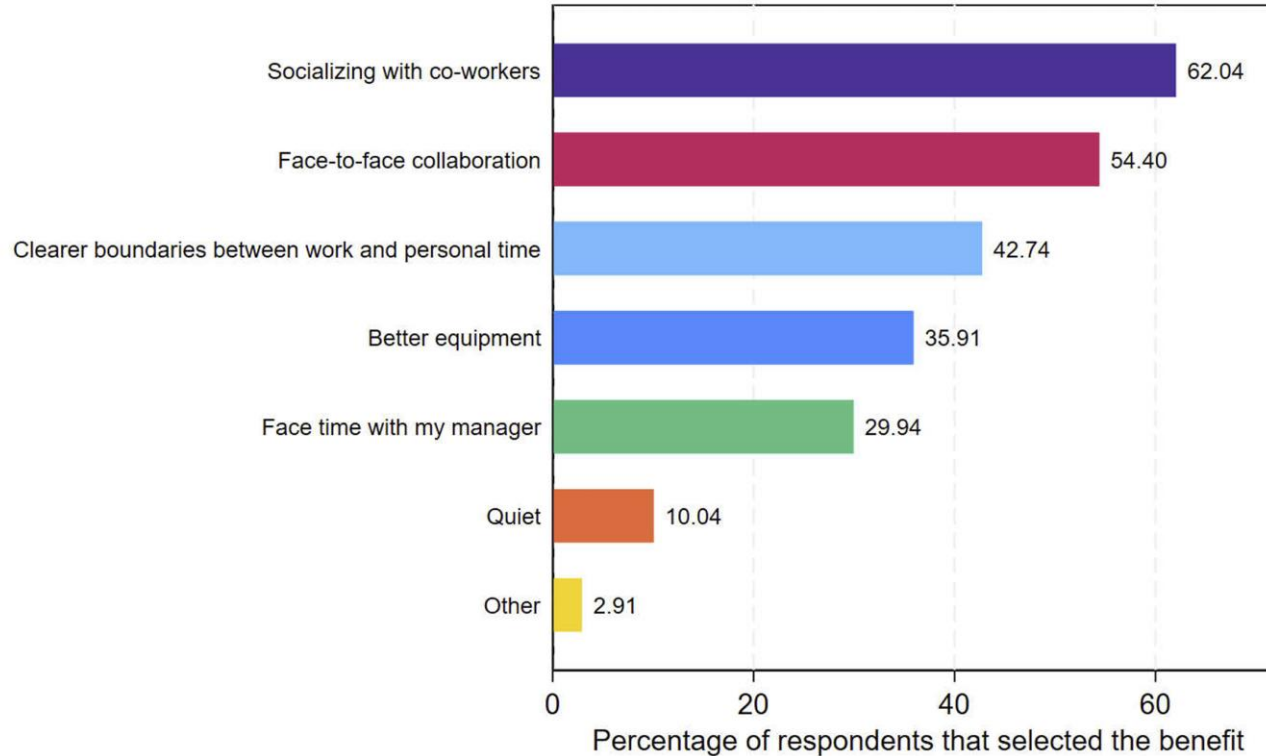
At the office, we kill time by surreptitiously staring at our phones. Working from home, we make breaks about more than mental distraction.

How Employers Are Enticing Workers Back To The Office

Optimize Space

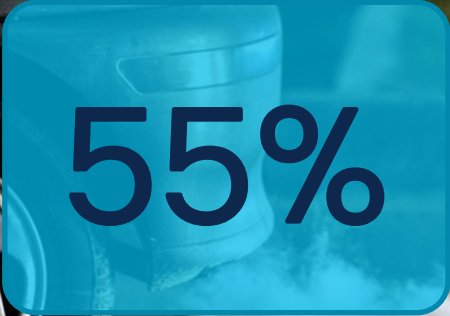


Top 3 benefits of working from the office



Source: The Future of WFH. Stanford University. May 2023.

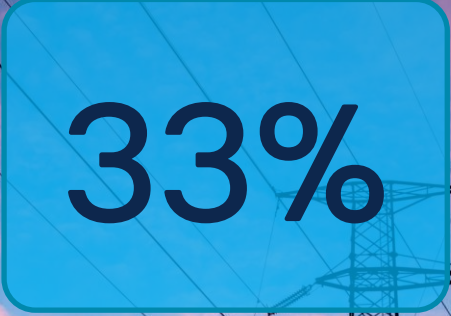
Sustainability in our Region (APJC)



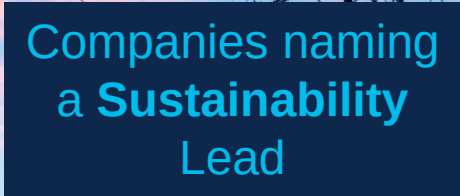
55%



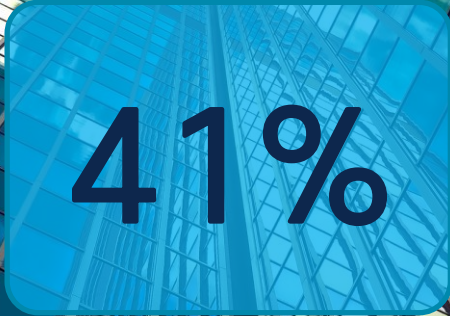
Companies
with **GHG**
Targets



33%



Companies naming
a **Sustainability**
Lead

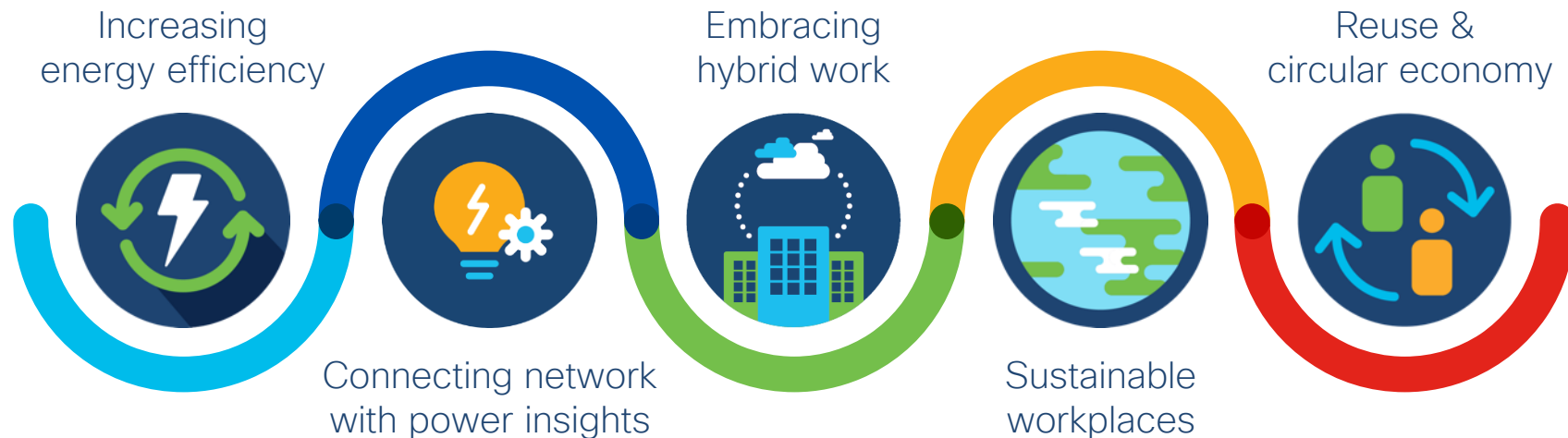


41%

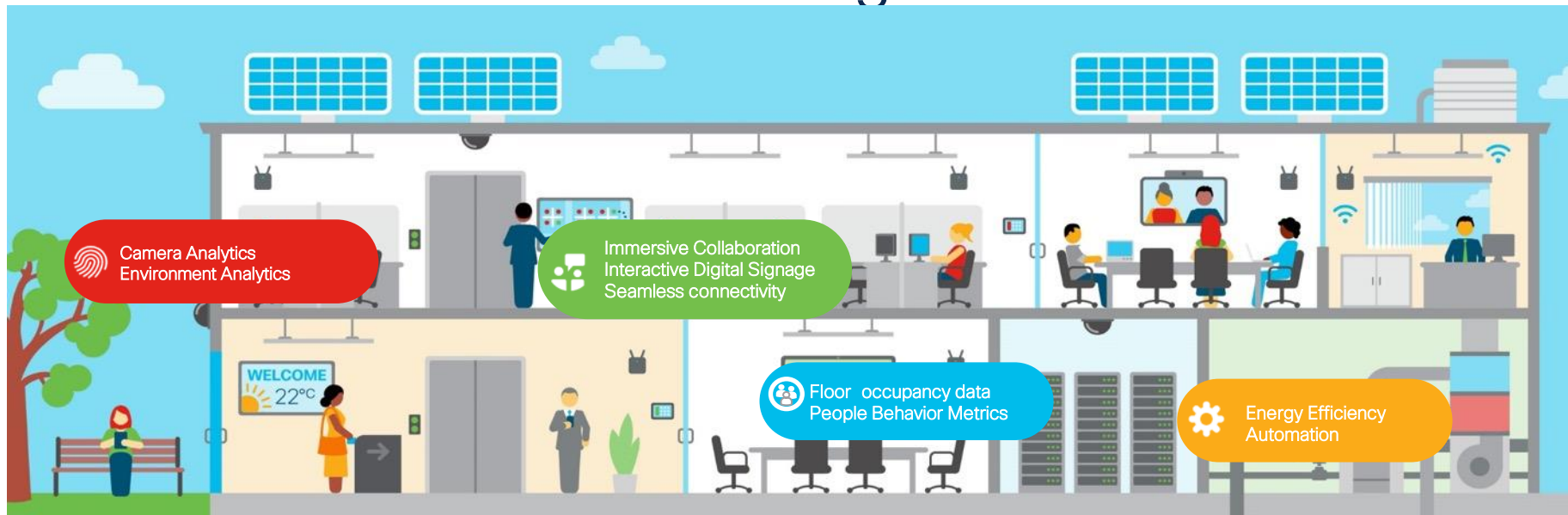


Companies
Setting **NetZero**
Targets

What is your Net Zero strategy?



Smart & Sustainable Building Outcomes



 Health & Wellness

 Hybrid/Agile Experience

 Digital
Real-Estate

 Sustainability

Health & Wellness



Impact of a healthy Workplace



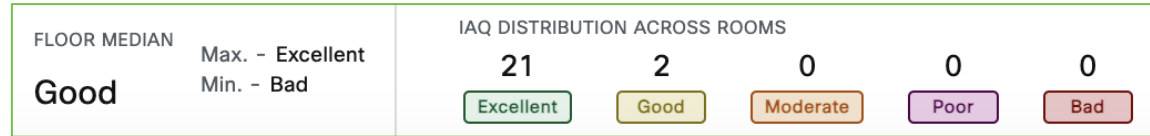
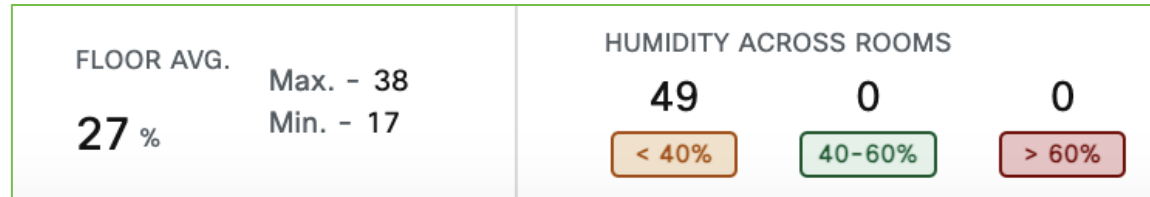
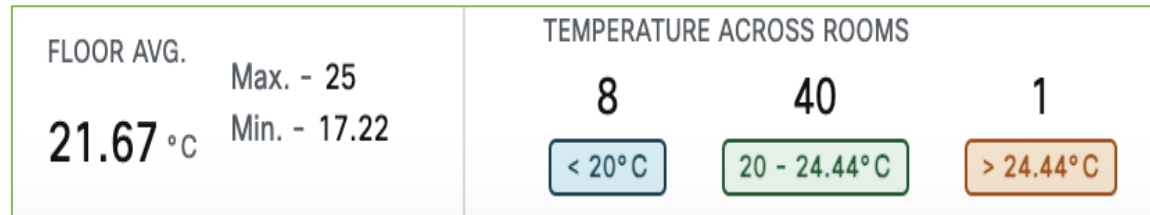
Functions IT/Workplace teams can impact positively

Feature	Importance	Satisfaction
Desk	88.0%	72.0%
Chair	86.5%	66.9%
Office lighting	65.2%	57.4%
Air quality	70.2%	39.6%
Noise levels	74.6%	30.5%
Temperature control	79.8%	29.1%
Quiet rooms for focused work	63.3%	28%

What is the comfort factor?

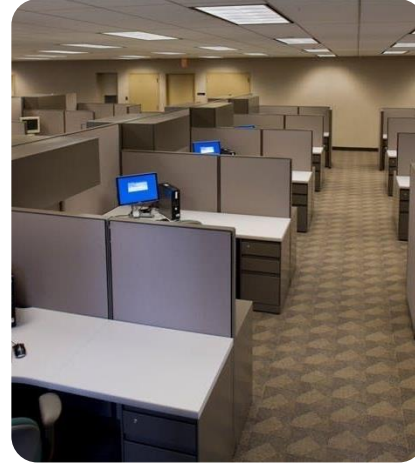
Build an environment that deliver the best employee experience:

- Use real-time environmental/real-time data to drive BMS outcomes
- Right Now, view of different spaces



Hybrid/Agile Experience

The experience is broken

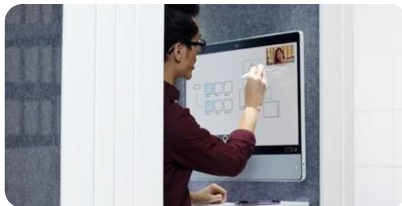


Hybrid workspaces design considerations



Hot desks

Rethink office desk allocation



Shared spaces

Focus rooms & huddle spaces



Meeting rooms

Small-medium meeting spaces



Ideation spaces

Co-create in-person and virtually



Conference rooms

Large meeting rooms & boardrooms



Learning spaces

Training, classrooms and auditoriums

Digitise the real-estate

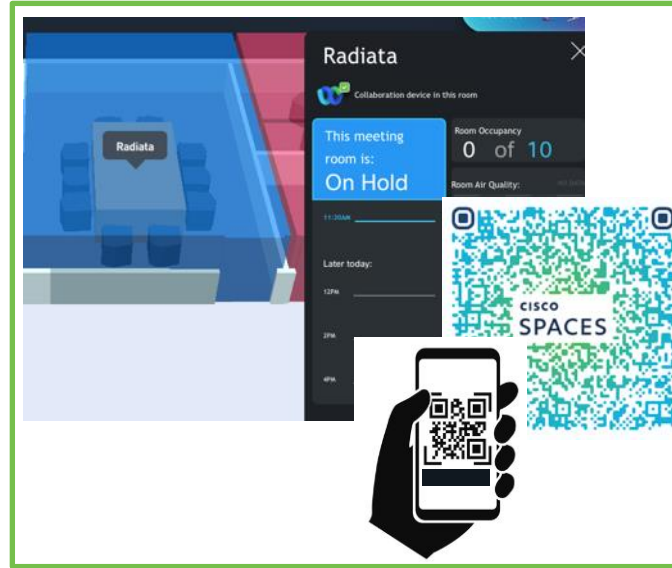
environmental metrics



Agile Use of Meeting space



1 Find a room on signage



2 Scan QR code opens an App Clip with the path and/or blue-dot



3 Go! Path finding to your meeting

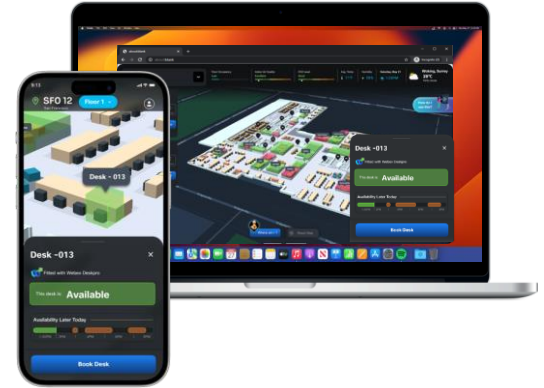
Plan your day



1 Login from
web or
mobile

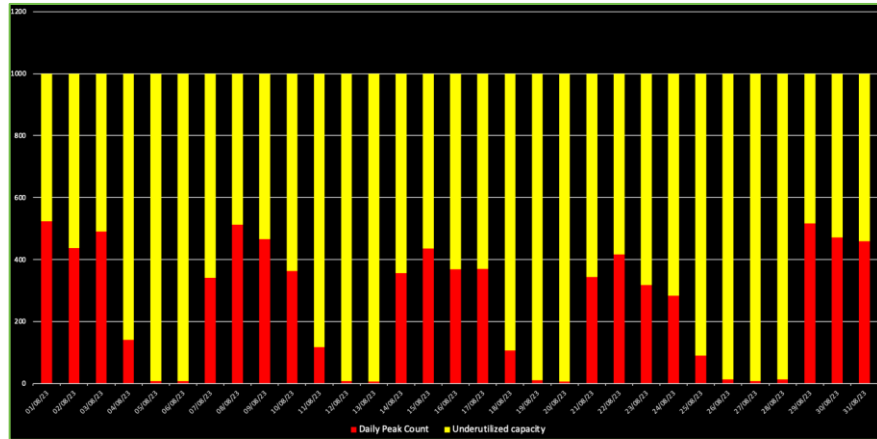
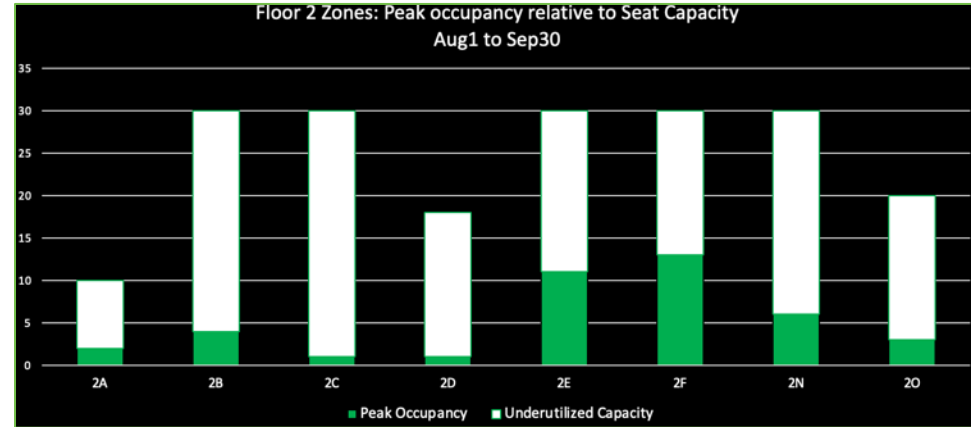


2 Visually
browse for a
desk



3 Book it!
And head to office with
confidence

Data driven workplace Strategy



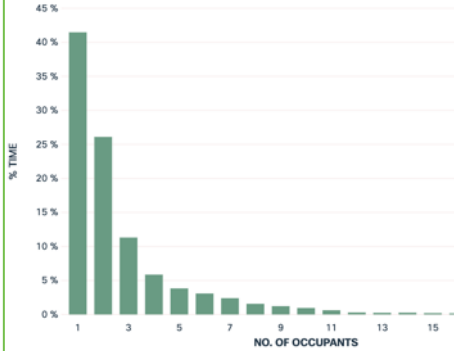
- Data will drive the right decision
- Understand building usage patterns
- Visualize floor wide usage pattern



Understand the Impact of meeting space

Room Metrics: % distribution of occupancy

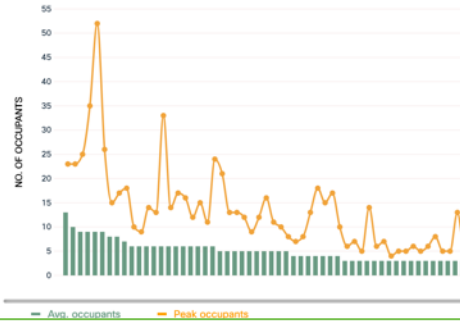
% breakdown of no. of people in all rooms in building Bloomfield



Room Metrics: No. of Occupants **ACT**

Avg and peak no. of occupants in each room when occupied

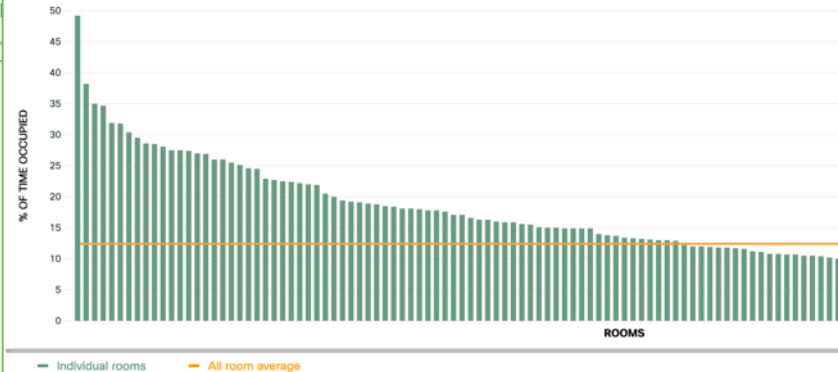
3 people



Room Metrics: % time Occupied **ACT**

% time each room was occupied during workhours(8am to 6pm during workdays)

12.4%

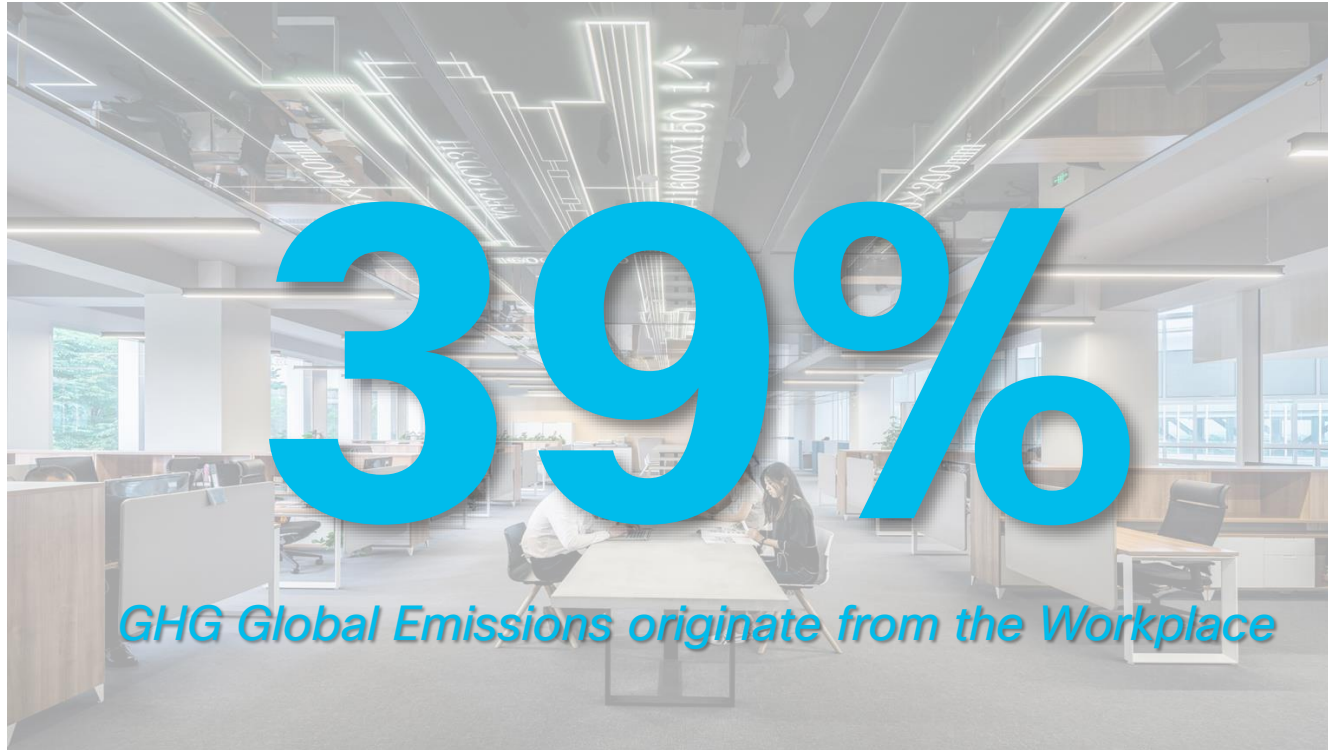


- What meeting spaces are making the biggest impact
- How long is a space getting used
- How many people are using the meeting rooms

Sustainability

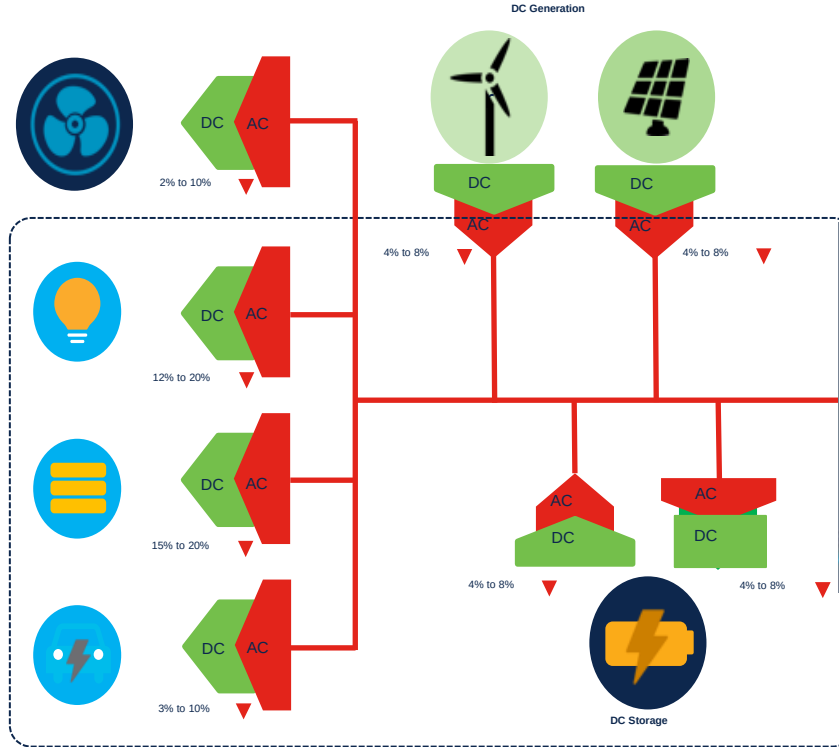
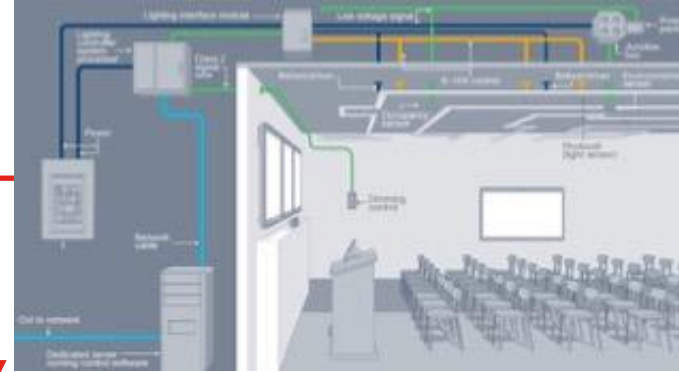
Smart Workplaces

A significant sustainability opportunity



The Traditional Approach to Power is Wasteful

Up to
20%
of power wasted in
conversion loss



Source: CSA Group

Sustainable Smart Building Foundation



Energy Management

Technology is the critical utility enabling energy efficient, carbon-reducing designs that is always available



Energy Distribution

Technology creates an agile environment to efficiently distribute, manage and optimize energy consumption.



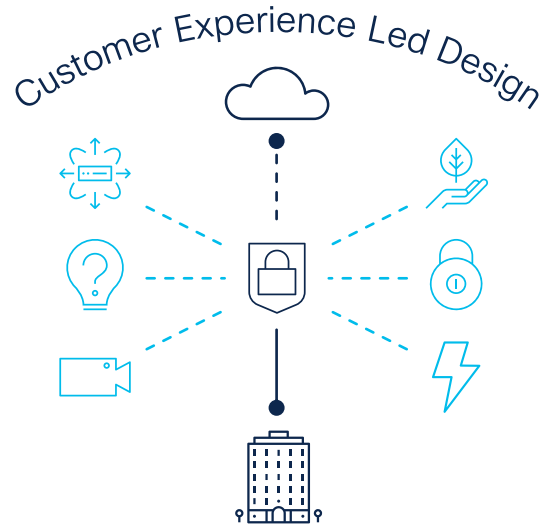
Convergence

Eliminating siloed networks; powering, securing the building and simplifying design and operations

Converged Network

Integrated

- BMS, HVAC, CCTV
- Security and access control
- Fire and safety systems
- Energy management
- Smart blinds
- Landlord Network



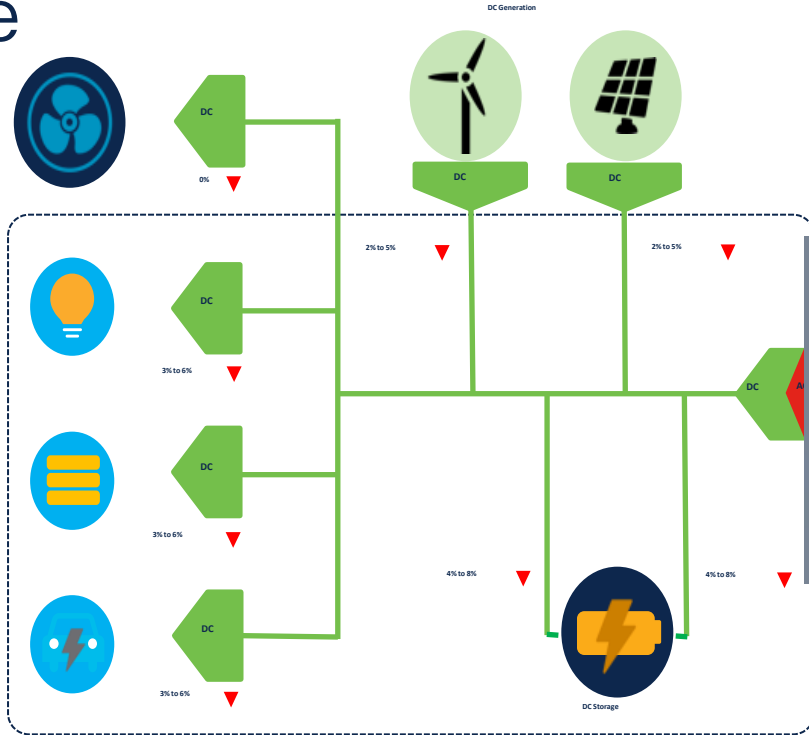
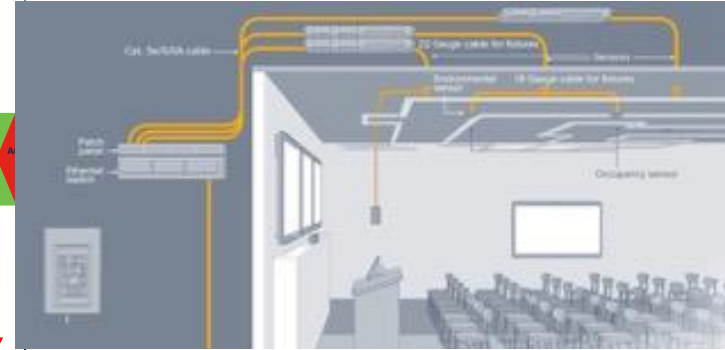
Delivered

- Visibility and Intelligence
- Automation and Control
- Holistic Cyber Security
- Simplicity and Flexibility
- Efficiency and Experience

Power over Ethernet Approach Reduces Energy Wastage

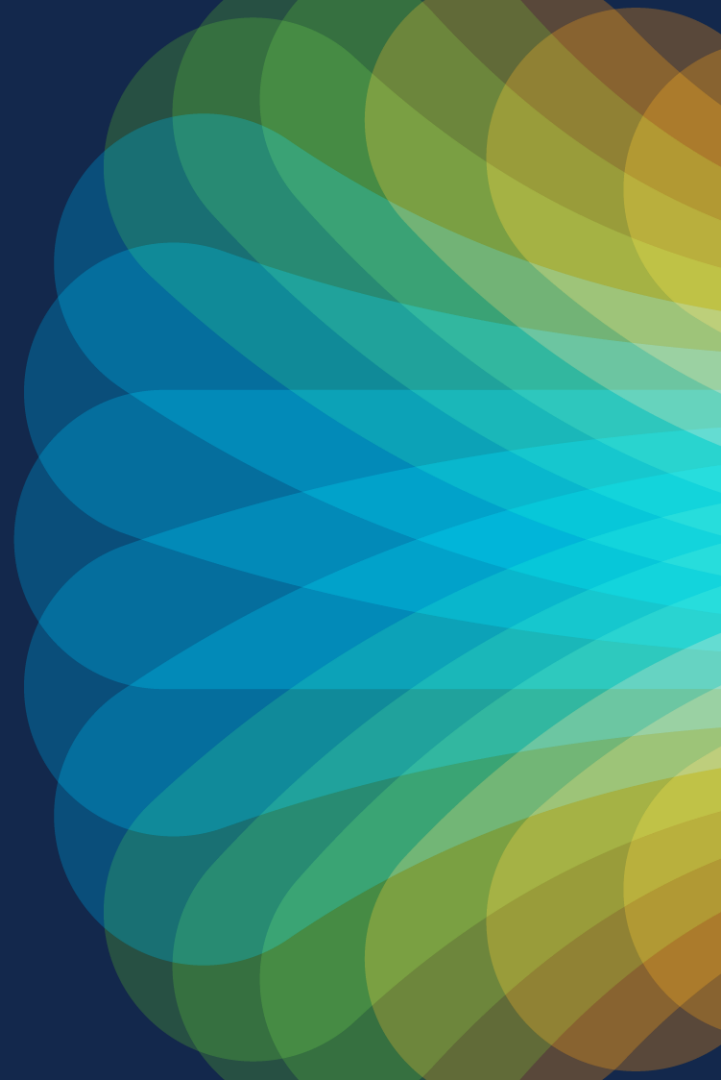
45%+

Reduction in
Energy Wastage



Source: CSA Group

Smart Workplace Enabling Technology

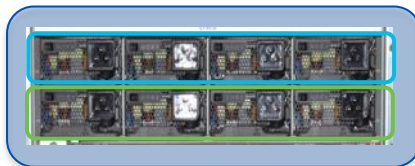


Catalyst 9000 Switches Powering Smart Buildings

Power Efficiency

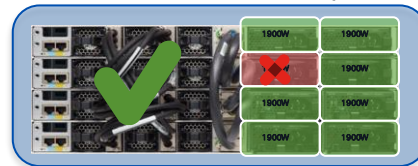


Platinum Rated
DC+AC PS
POE Port Density



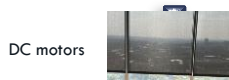
StackPower
N+1, N+N

Power Resiliency



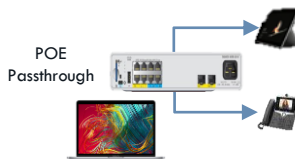
1

High Power
PoE End-points



2

Shades/Blinds
Standup Desk



3

Power everything
on the desk



4

Daisy-chaining
(Cost saving with
90W)

Catalyst 9300/9400 UPOE+® 90W switch



C9200CX HVDC SKU

Industry's highest POE Port-Density

Upto 240 Ports of UPOE+/90w on 9400
Upto 288 Ports on a 9300 Stack
Compact/fanless hvdc ready

Fast PoE

- Provides faster Power recovery in unplanned switch reloads

Perpetual PoE

- Uninterrupted Power for POE endpoints on planned switch reloads

Intelligent Load Shedding

- Intelligent load shedding of POE Power at insufficient power supply
- Slot Priority for module shutdown at insufficient power on modular SKU's

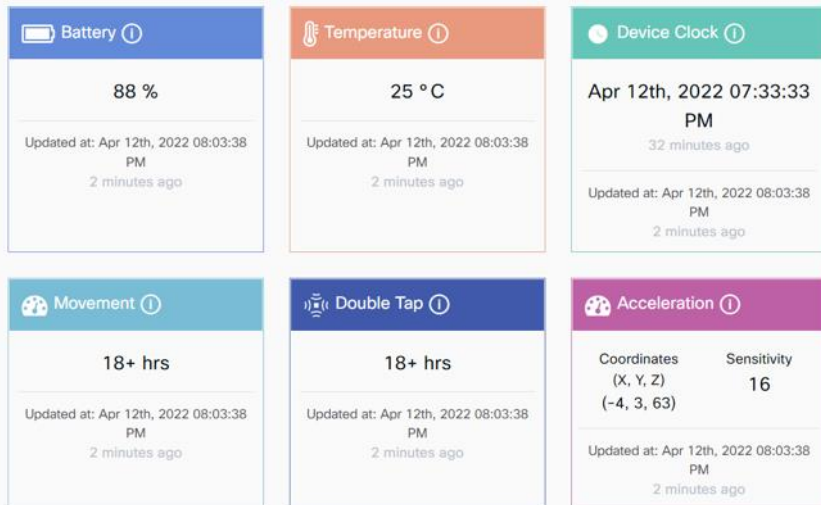
Efficient Energy Distribution & Management



WAPs for your IT/OT Converged Network

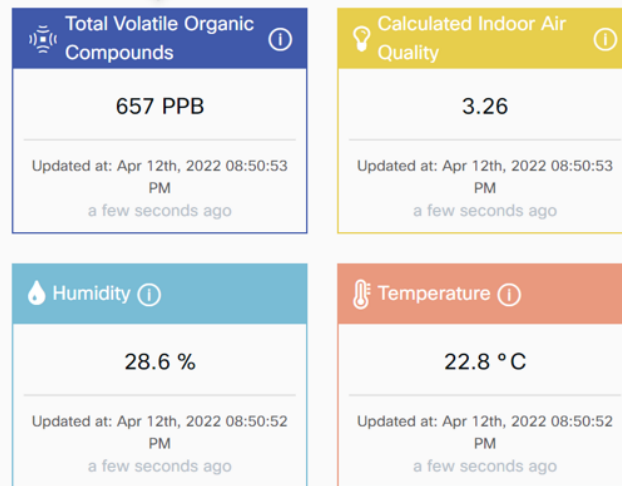
IoT BLE Device Sensor Telemetry

✓ Sensor Information



AP Environmental Sensor Telemetry

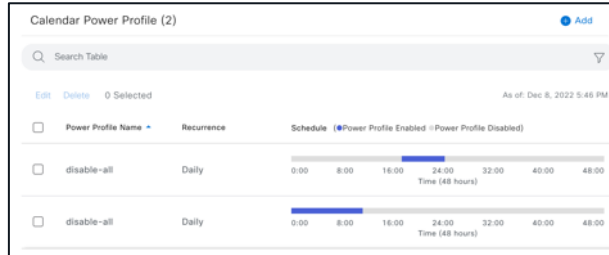
Approximate measurement of TVOC in PPB



AP Power Optimizations

AP Power Save Mode Lower AP Power Usage

- Power Profile to lower the power consumption
- Calendar profile to schedule power profile
- AP/WLC support for AP Power Save Mode telemetry



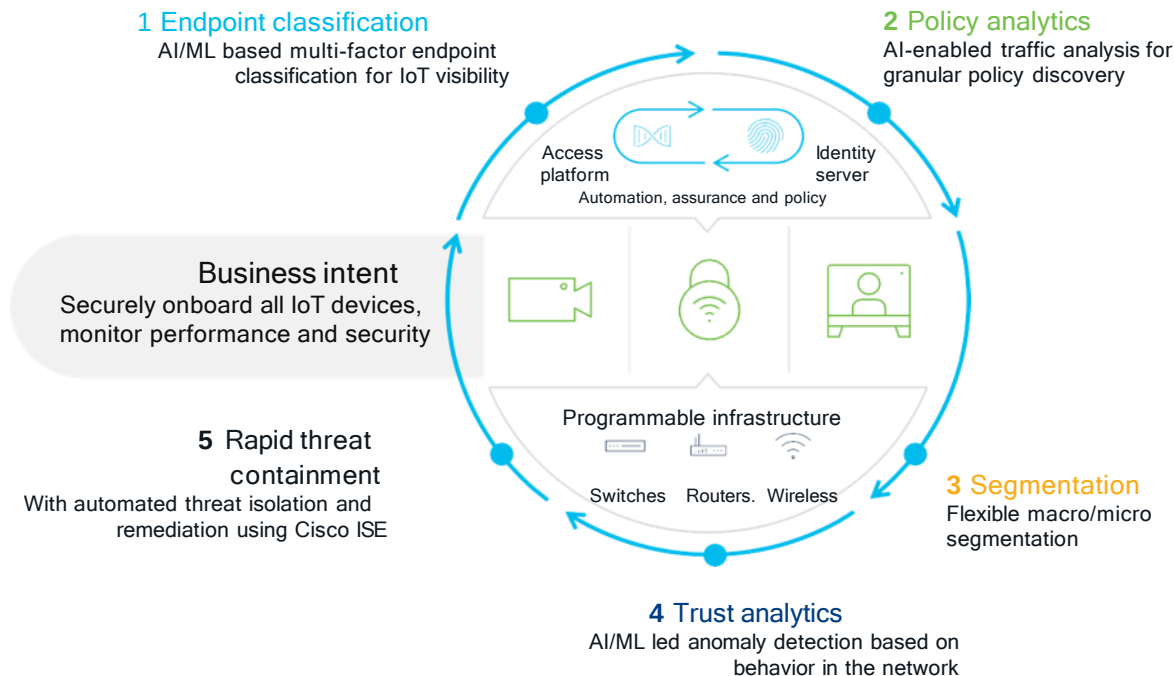
Port Scheduling

Control over when to shutdown WAPs

- Shutdown specific PoE ports during nonbusiness hours
- Ex: Disable 2.4G radio -> use power for 6G radio



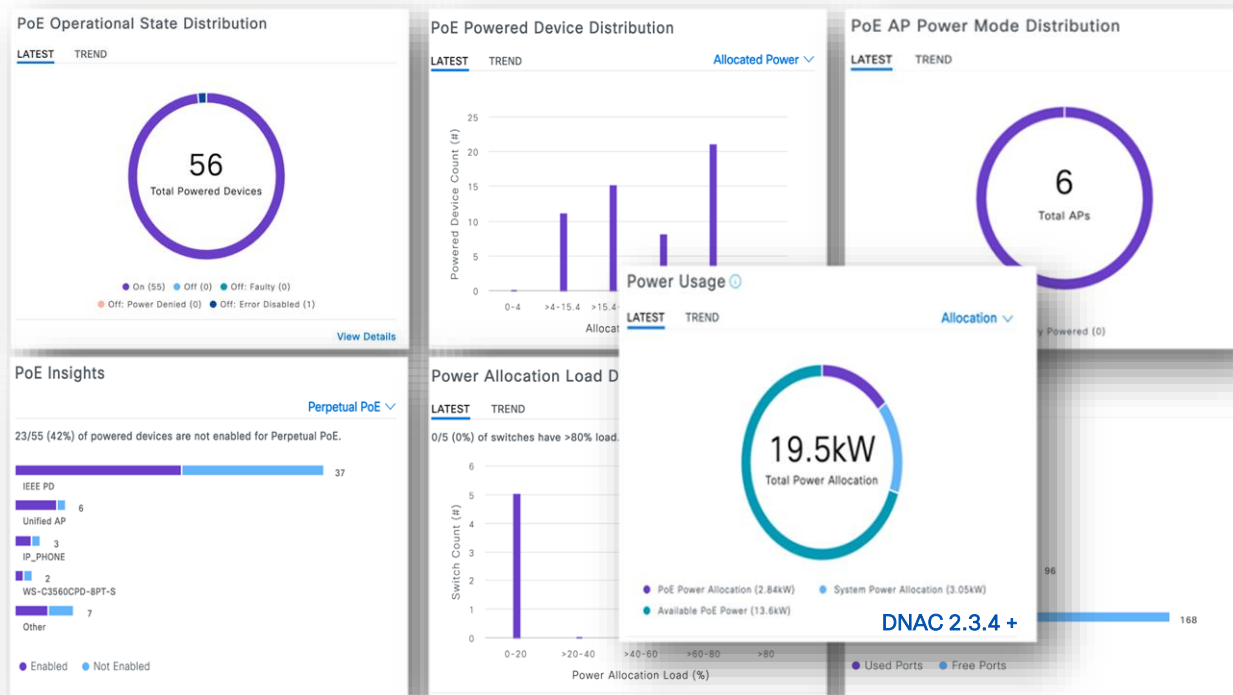
Zero Trust Architecture



Power Telemetry with Cisco DNAC POE Analytics

- Contextualized POE Dashboards
- System+ POE Power Usage data
- IEEE based Endpoint Grouping
- On-Prem Power Analytics

Catalyst 9300/9400 UPOE+® 90W switch



AI Powered devices with embedded sensors



Room Kit EQX



Board Series



Room Bars & Room Kits



Desk Series



People count



Lighting levels



Room acoustics



Humidity



Ambient noise



Overall noise



Temperature



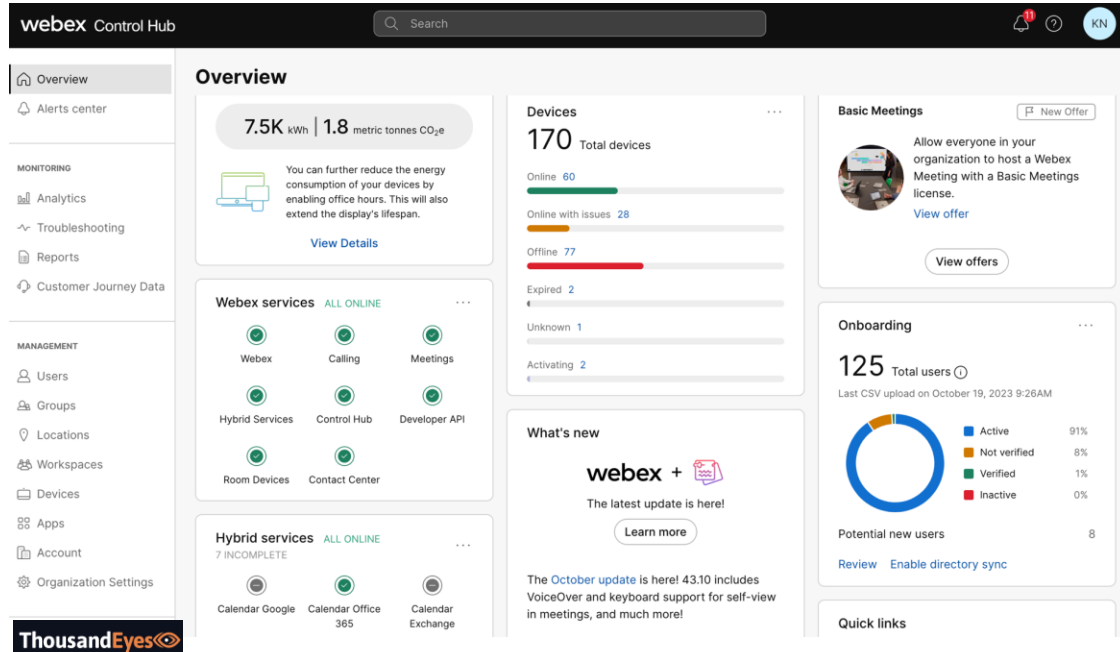
Air quality

Workspace, device and third-party peripheral health status and network insights

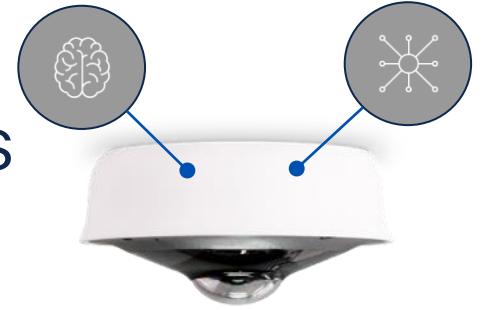
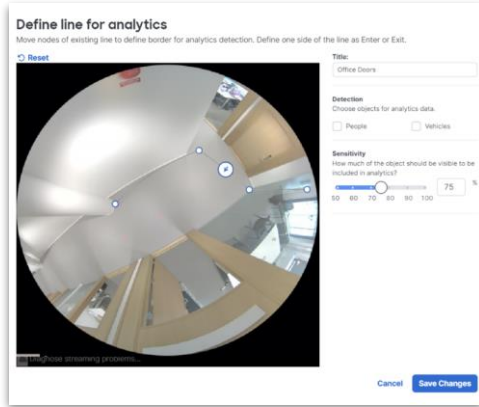
ThousandEyes

Control Hub

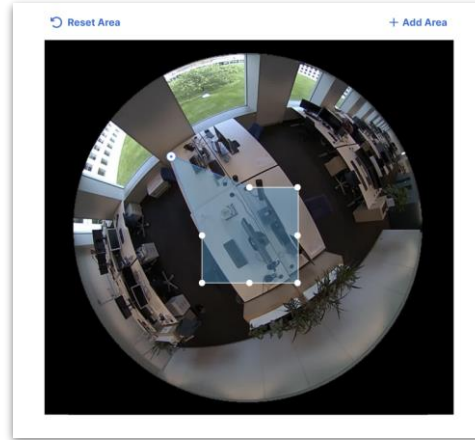
- Control Hub is the central interface to administrate your Cisco devices
- Setup and Configuration: Guidance through your setup, security posture, easing feature enablement
- Monitoring: See your deployment growth in real time, ensure your service quality is trending positively and understand your Devices experience.
- Troubleshooting: View detailed analysis of user experiences for your participants – historically and in real-time, pinpoint network issues



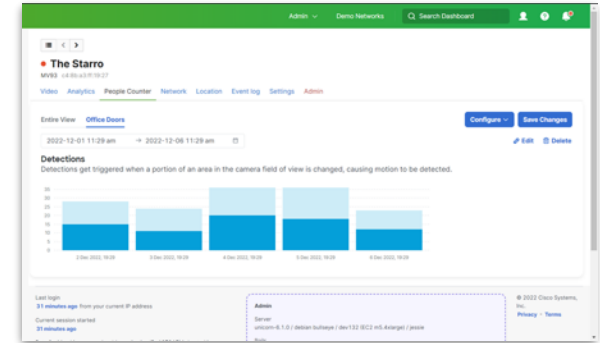
Cisco Meraki Vision Smart Cameras



Line crossing configuration for entry/exit analytics



Area configuration for determining occupancy



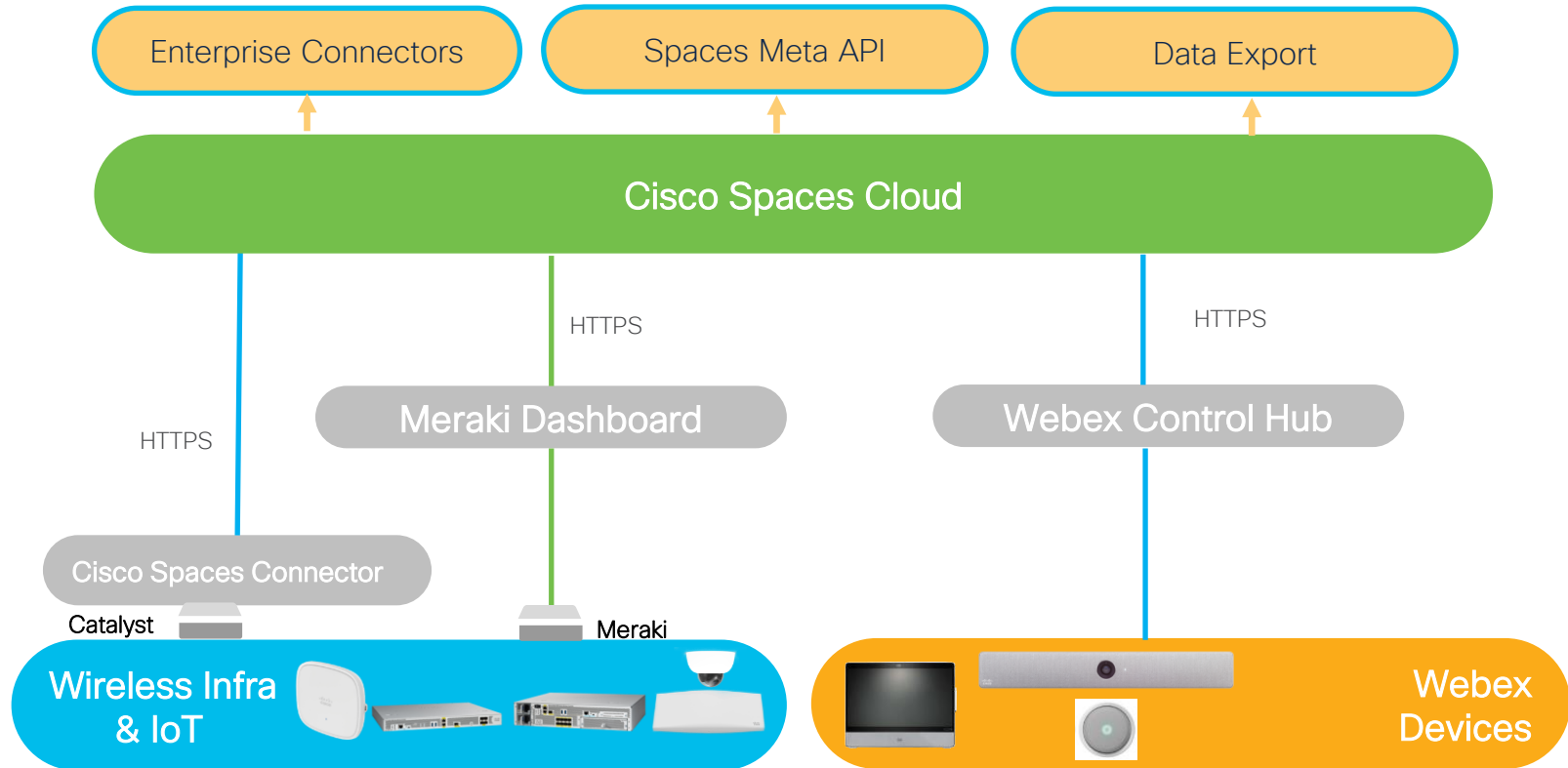
Analytics dashboard for presence detection trends

Workplace MT Sensor

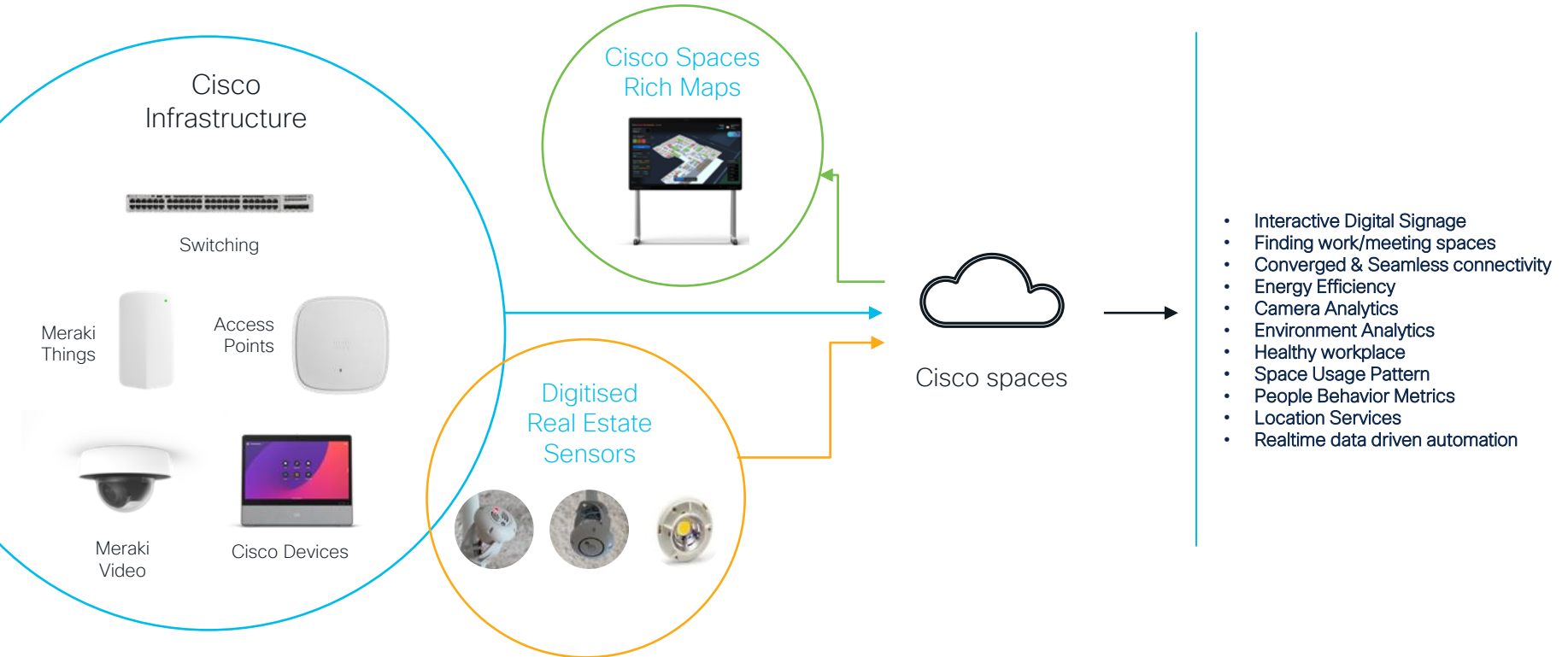


- Proactively measure indoor air quality (IAQ), including CO2, temperature, humidity, organic compounds, and particulate matter.
- Promote visibly healthy spaces with a customizable LED indicator.
- Quick, easy, tamper-resistant installation in any indoor space.

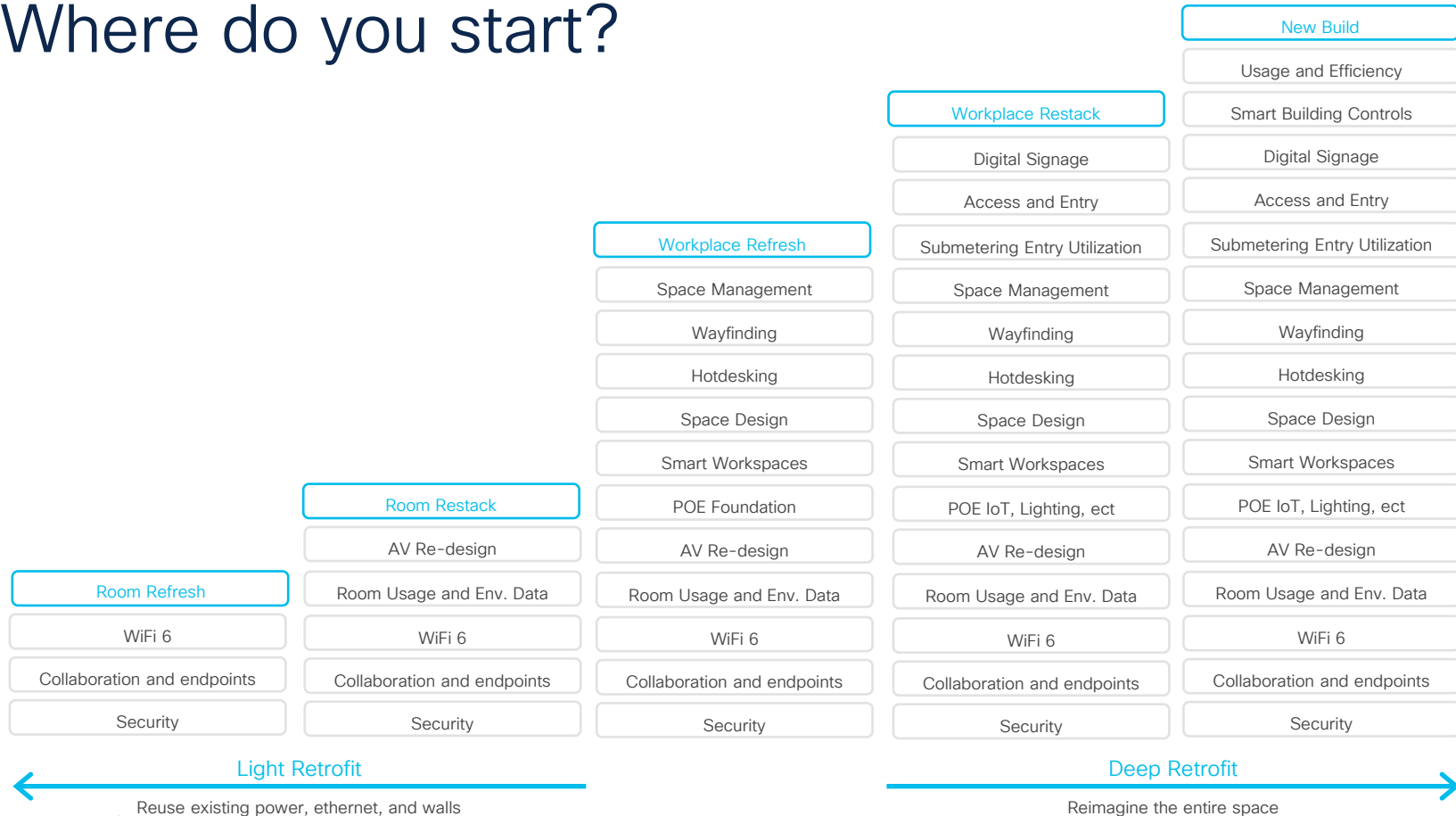
Devices Integration to Cisco Spaces



Cisco Smart Building Dataflow

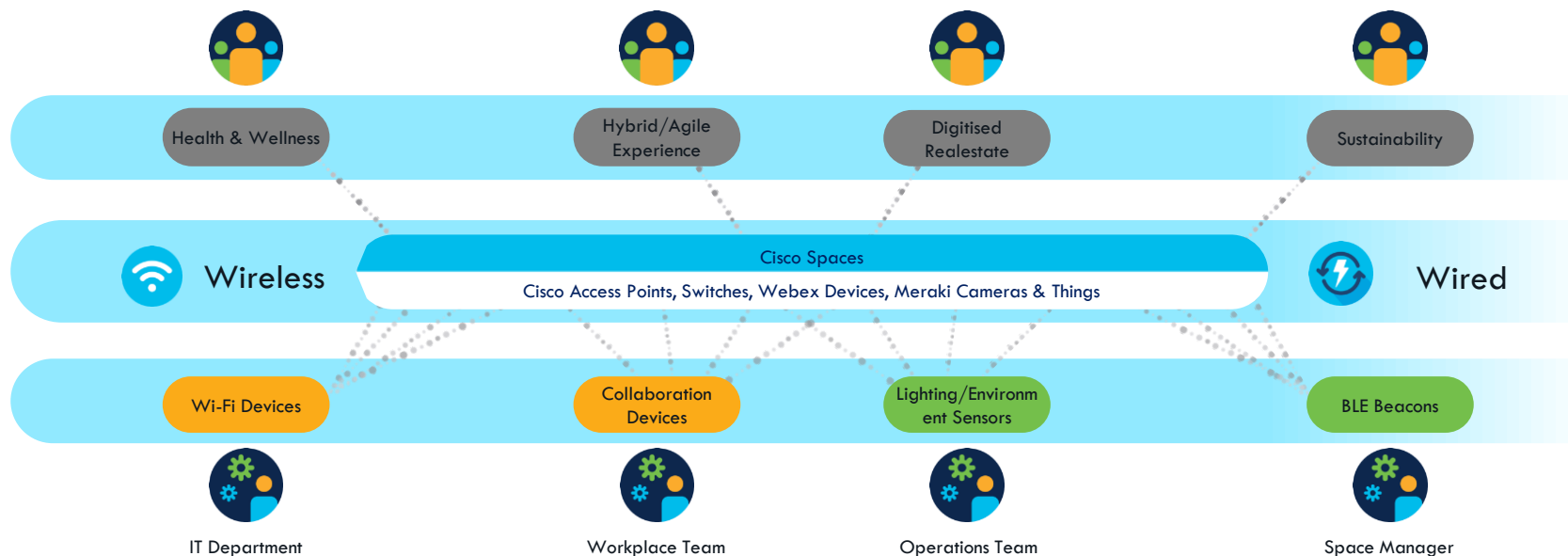


Where do you start?



Securely Connect Everything

Converged Network | Lower TCO | Ease of Management | Data driven Automation





Did you know?

You can have a
one-on-one session with
a technical expert!

Visit Meet the Expert in The HUB
to meet, greet, whiteboard & gain
insights about your unique questions
with the best of the best.



Meet the Expert Opening Hours:

Tuesday	3:00pm – 7:00pm
Wednesday	11:15am – 7:00pm
Thursday	9:30am – 4:00pm
Friday	10:30am – 1:30pm

Session Surveys

We would love to know your feedback on this session!

- Complete a minimum of four session surveys and the overall event surveys to claim a Cisco Live T-Shirt



Continue your education



- Visit the Cisco Showcase for related demos
- Book your one-on-one Meet the Expert meeting
- Attend the interactive education with DevNet, Capture the Flag, and Walk-in Labs
- Visit the On-Demand Library for more sessions at www.CiscoLive.com/on-demand



The bridge to possible

Thank you

CISCO *Live!*

#CiscoLiveAPJC