

The background features a vibrant, multi-colored abstract design. On the left, there are overlapping, wavy, organic shapes in shades of red, orange, and yellow. On the right, a bright white light source emits a series of sharp, radiating lines in various colors, including blue, green, and yellow, creating a sunburst or starburst effect. The overall composition is dynamic and energetic.

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The bridge to possible

Smart Buildings & Beyond

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PSOGRN-1005



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Cisco Webex App

Questions?

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How

- 1 Find this session in the Cisco Live Mobile App
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Webex spaces will be moderated by the speaker until June 9, 2023.



<https://ciscolive.ciscoevents.com/ciscolivebot/#PSOGRN-1005>

Agenda

- Introduction to Sustainability
- Cisco Sustainable Solutions
- Smart Building Trends
- Smart Building Solutions
- Sustainability Journey Phases
- Sustainability Programs
- Conclusion

Sustainability Trends

Evolution of reporting standardization and carbon accounting

Increased importance of data in sustainability

Shift from setting goals to making plans

Circular transformation and digital migration

Emergence of nature-positive solutions that preserve connectivity between natural ecosystems and climate

Reducing Scope 3 GHG Emissions



Engaging 80% of our suppliers
to set a GHG reduction target

*FY22 progress: 78% have a
public target*



Collaborating with partners
to increase renewable
energy use



Improving product
energy efficiency



Embedding circular design
principles across our business

Scope 3 GHG
emissions account
for
99%
of our total
emissions*

* Cisco 2022 Purpose Report

Cisco Sustainable Solutions

Innovating new technologies to reduce emissions



Sustainable Data Centers

Optimize for efficiency, visibility, performance and cost



Smart Buildings & Workspaces

Energy efficient networks powering, connecting and securing the building



Internet for the Future

Converged infrastructure, simplifying network design, planning & management



Industry Solutions & Ecosystems

Integrated and Interoperable Sustainable Technologies

Scope 3 offender

Did you know?

Building operations and construction
accounted for an estimated

37% CO₂
emissions globally in 2021

Source: UN programme report



Smart Building Trends



HEALTH & WELLNESS

Increased focus on ensuring employees enjoy safe and comfortable accommodations like air quality, temperature, and ambient lighting are key to attracting and retaining top talent



RENEWABLE ENERGY

Technology is the 4th Utility in a building, as readily available as water, gas and power



ENERGY MANAGEMENT

Energy efficient, carbon-reducing designs that create an agile environment



CONVERGENCE

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



DATA

Enable flexible workspaces, hot desking with space utilization and insights for employees



Cisco Smart Buildings and Intelligent Workspaces



IT & OT convergence

Eliminating siloed networks, powering, connecting and securing the building while simplifying design and operations.



Sustainable design

Energy efficient, carbon reducing designs that create an agile environment while reducing energy loss with UPOE.



Data driven insights

Real-time visibility of energy consumption, and resource optimization to enable always ready instead of always on operations.



For Smart Buildings,
the network has become
the convergence point
for smart building
processes managing IT
and OT systems

UCS X-Series



PoE Consolidate Power
& Data Networks



Catalyst Access Points
& Switches

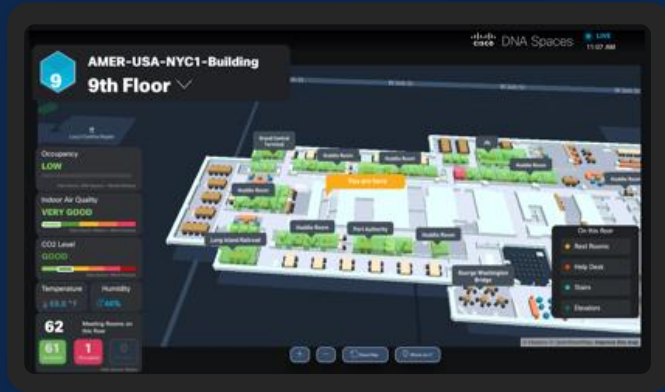
Meraki
Sensors for Energy Management



Cisco Spaces
Intelligent Workspaces



Digitizing our Real Estate



Cisco Smart Workspaces

Smart buildings cloud platform that ingests & consolidates the "data exhaust" from these various sensors



Meraki Cameras

Floor occupancy
(macro floor plate loading)



Cisco Wi-Fi Access Points

People count, people's physical location to track their journey through the office



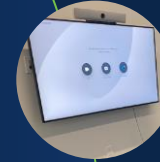
Air Quality

Molex sensors for air quality / CO2, humidity, temperature, VOC



Occupancy

Molex sensors for people count



Webex Room Devices

People count, Ambient Noise



Webex Navigator

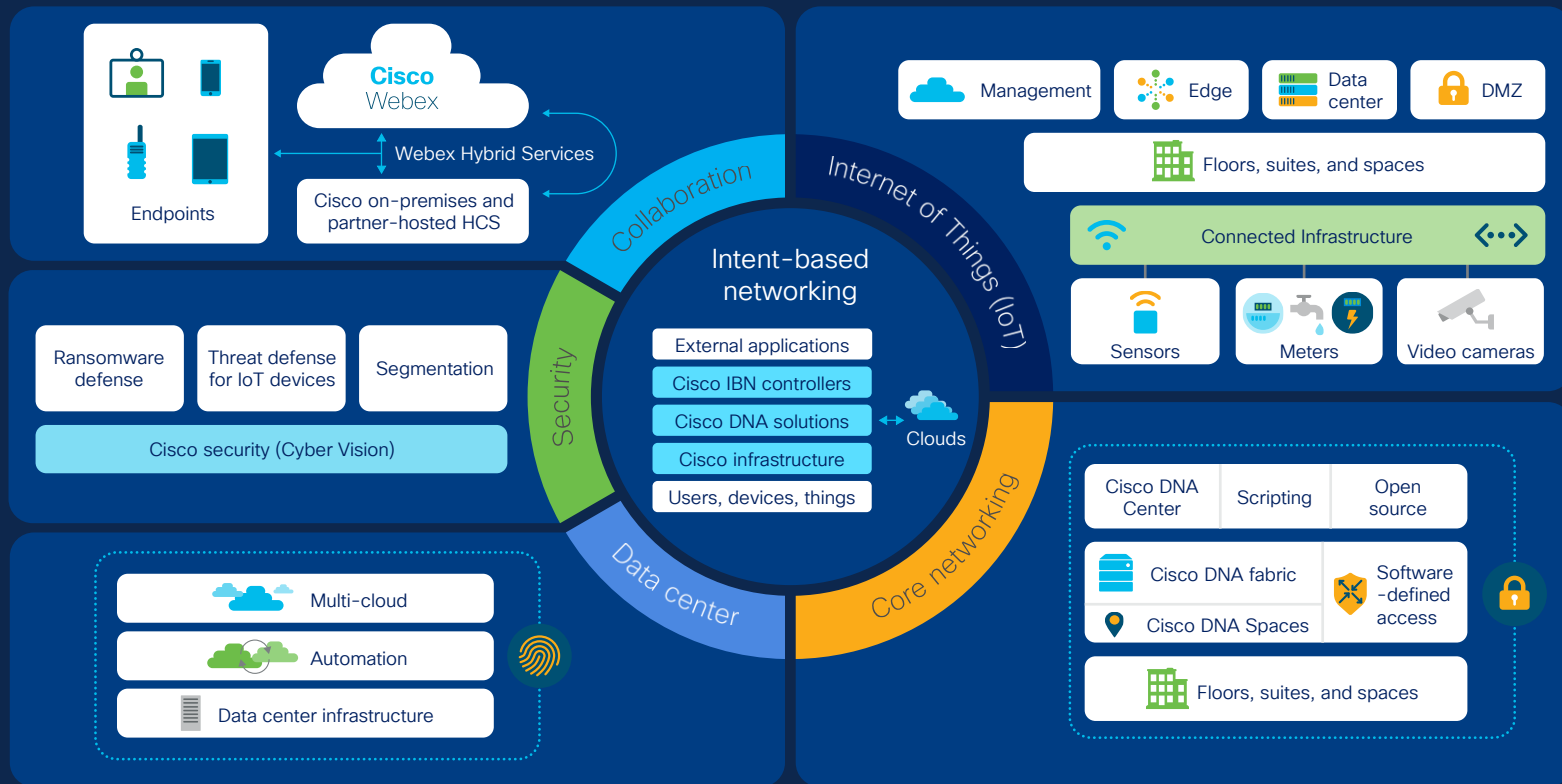
Temperature, Humidity, VOC (volatile organic compounds)



Shading

Mecho shading sensors for Lux level to help maximize daylight and manage visual comfort & heat load

Smart Building Solution Strategy



All Around the World with Smart Buildings

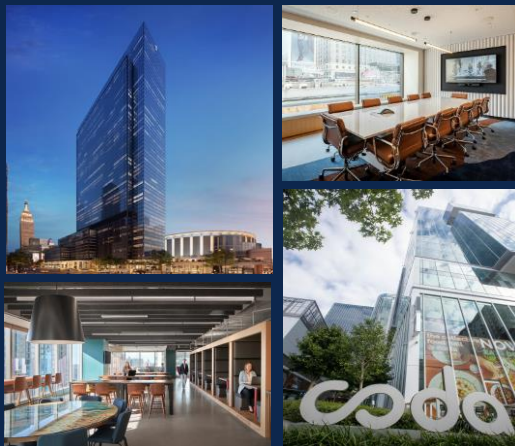
Singapore - Cisco Office



Retrofit existing space

- Leverage existing ports and Wi-Fi
- Upgrade to PoE switching infrastructure
- Add Endpoints: Cisco + Partners
- Maximum real estate utilization

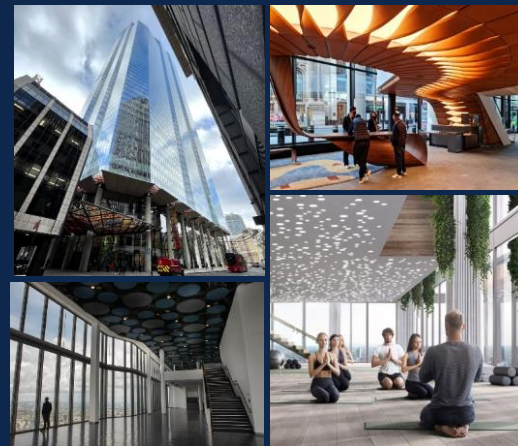
New York & Atlanta - Cisco Offices



Tenant build-out

- Converge building OT environment
- Reduced power consumption and costs
- Improved user experience
- Data and insights

London - 22 Bishopsgate



New build

- Smart BMS, HVAC, CCTV
- Converged IT, OT and energy management
- Visibility and automation drives power efficiency
- Reduce CapEx and OpEx

Expanding The Ecosystem with Cities

Canary Wharf



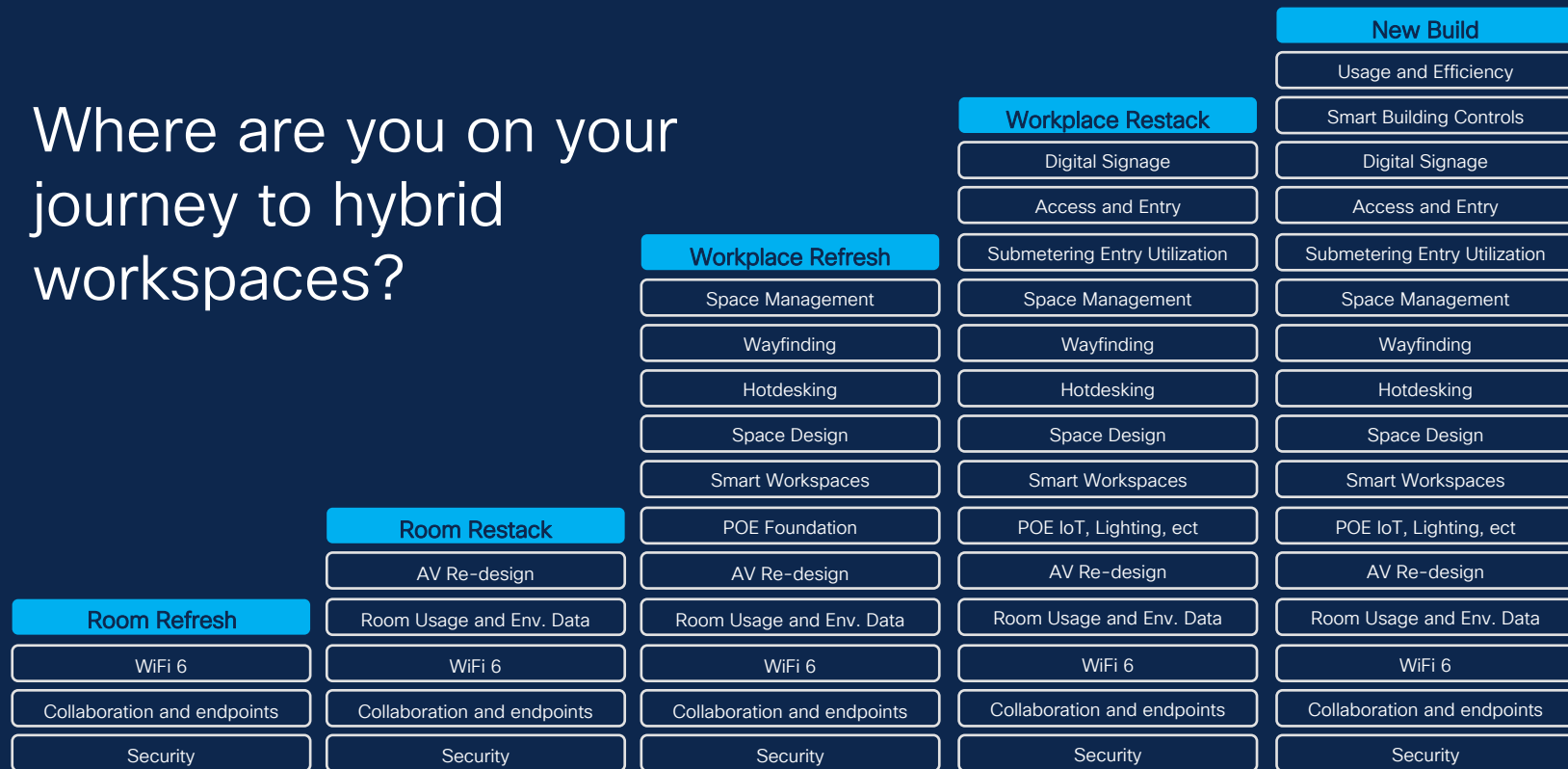
- 9 million SF multi-use space | 5G WI-FI 6
- 1,100 residential dwellings
- Retail, restaurants, hotels
- Natural living environments, parks
- Financial center, tenant / owner office space

National Landing



- 12.3 million SF of office space
- 16,700 residential units
- 5,500 hotel rooms and 3 million SF of retail space
- Multitude of technology and defense demand drivers including the Pentagon and Amazon HQ2
- Vibrant transit oriented live-work-play environment

Where are you on your journey to hybrid workspaces?



← **Light Retrofit** →
Reuse existing power, ethernet, and walls

→ **Deep Retrofit** →
Reimagine the entire space

End-to-End Sustainability

Leverage Cisco's product lifecycle management programs

1

Cisco Refresh
program
21 years strong

2

Takeback and
reuse with
99.9% recycled

3

Green pay
providing
5% incentive

4

Partner
environmental
sustainability
specialization
program

5

Global public
funding for
sustainability
initiatives

Getting Started

- 1 Go to the Sustainability Zone in WoS
- 2 Schedule a Cisco smart building tour (virtual)
- 3 Accelerate your sustainability journey

Continue Your Sustainability Education



Visit the Sustainability Zone for in-depth demos on solutions and programs

Attend Sustainability-Focused Sessions

Visit the On-Demand Library for more sessions at www.CiscoLive.com/on-demand

Review our Sustainability Solutions eBook for more information



Read our eBook to
Learn More

Fill out your session surveys!



Attendees who fill out a minimum of four session surveys and the overall event survey will get **Cisco Live-branded socks** (while supplies last)!



Attendees will also earn 100 points in the **Cisco Live Challenge** for every survey completed.



These points help you get on the leaderboard and increase your chances of winning daily and grand prizes

Continue your sustainability education

Visit the **Sustainability Zone** for in-depth demos on solutions and programs

Attend Sustainability-Focused sessions

Visit the **On-Demand Library** for more sessions at www.CiscoLive.com/on-demand

Review our **Sustainability Solutions eBook** for more information



**Sustainability
Solutions eBook**

Read our eBook
to learn more



The bridge to possible

Thank you

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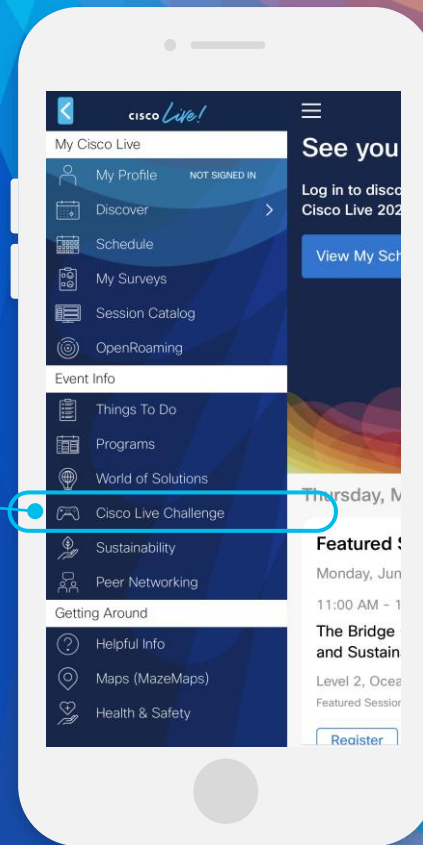
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- 3 Click on View Your Badges at the top.
- 4 Click the + at the bottom of the screen and scan the QR code:



The background is a vibrant, abstract graphic. It features a central bright white light source from which numerous colorful rays emanate, creating a sunburst or starburst effect. The rays transition through a spectrum of colors including yellow, orange, red, and various shades of blue and green. Overlaid on this are several large, semi-transparent, wavy shapes in similar color tones, giving the overall image a sense of motion and energy.

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