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#CiscoLive



The bridge to possible

# The road to Net Zero emissions

Advancing sustainable IT

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BRKGEN-1009



#CiscoLive

# 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 June 17, 2022.



<https://ciscolive.ciscoevents.com/ciscolivebot/#BRKGEN-1009>

# Agenda

- Committing to Net Zero
- The Circular Economy mindset
- Building our Sustainability Strategy for Cisco IT
- The role of remanufactured equipment
- Leveraging the Takeback and Reuse program
- Key Takeaways

# Committing to Net Zero

# Why now?



Urgent global problem  
How can IT help?



Customer, investor &  
employee pressure



Legislation, reporting  
standards, scrutiny



Business efficiencies  
& new opportunities

*“Transitioning to a net-zero world  
is one of the greatest challenges  
humankind has faced”*

United Nations

80%

Companies now  
reporting on  
sustainability

131 countries with a  
Net Zero target



Important purchasing  
factor for consumers

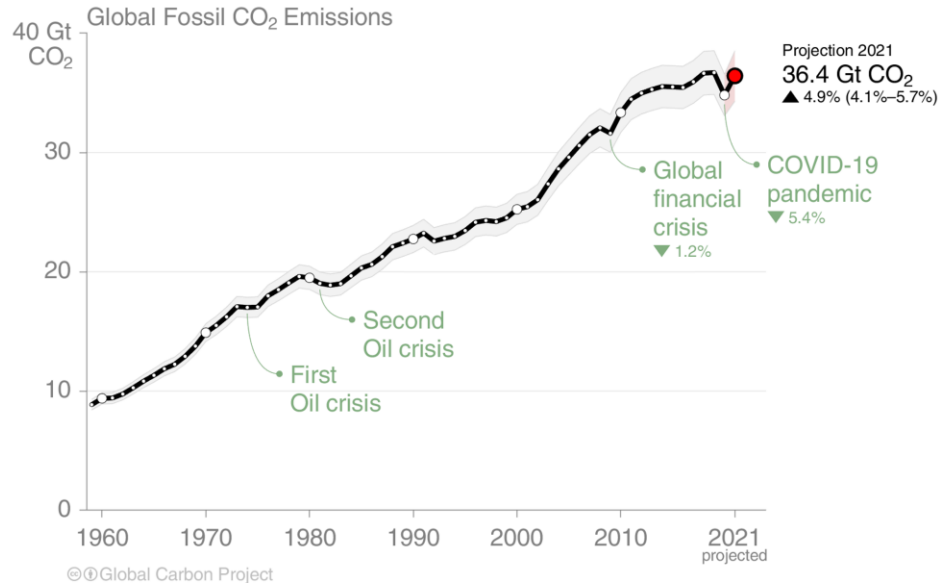
67%

Hiring criteria for 40%  
of millennials

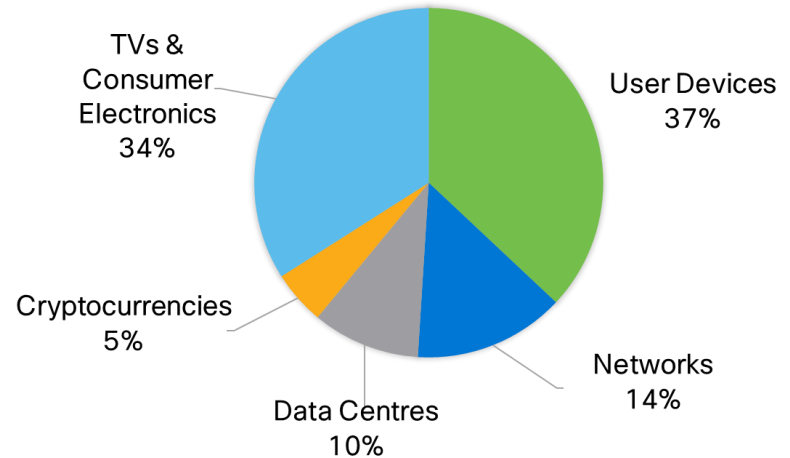


# Putting IT in perspective

Global GHG emissions  
60 Billion tonnes CO<sub>2</sub>e



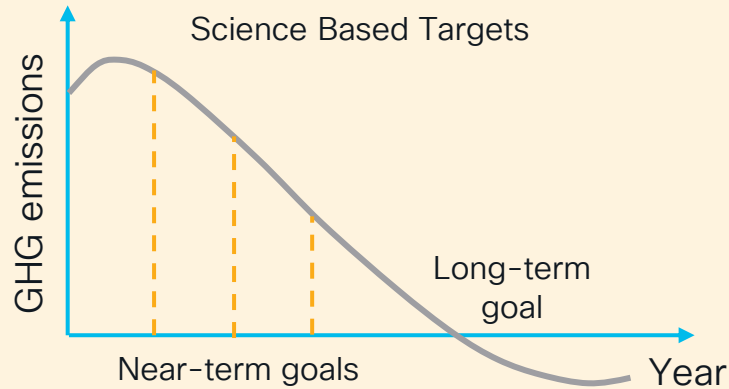
Digital = ICT + Entertainment & Media  
1.4 Billion tonnes CO<sub>2</sub>e (~2.5% Total)



Source: Berners-Lee (2020), Malmmodin (2018), Andrae (2019)

# Dual Responsibility

## Reduce emissions from digital



Sources Net Zero Std (SBTi, 2021), ITU-T L.1470 (2020)

2.5%



15%



## Reduce emissions in other verticals by using digital e.g.

  
Hybrid Work

  
Smart Grid

  
Smart Buildings

  
Connected Transport

Based on Exponential Roadmap 1.5.1 (2020)  
Smarter 2030 (GeSI 2015), Malmodyn (2015)

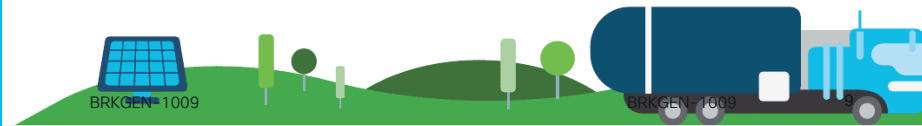
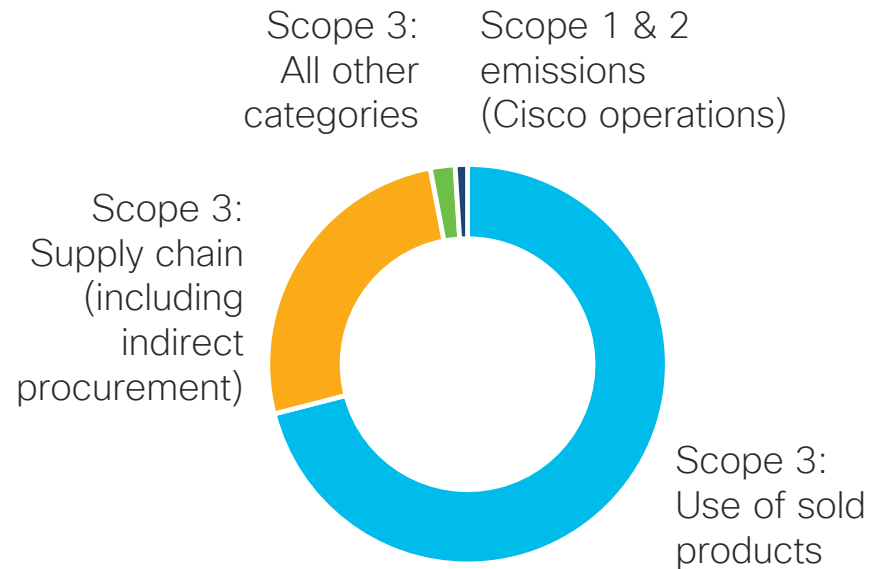
**Impact of New Technologies**  
e.g. AI, IoT, 5G, Big Data, Digitalization

Based on Frontier Technologies (ITU, 2020)

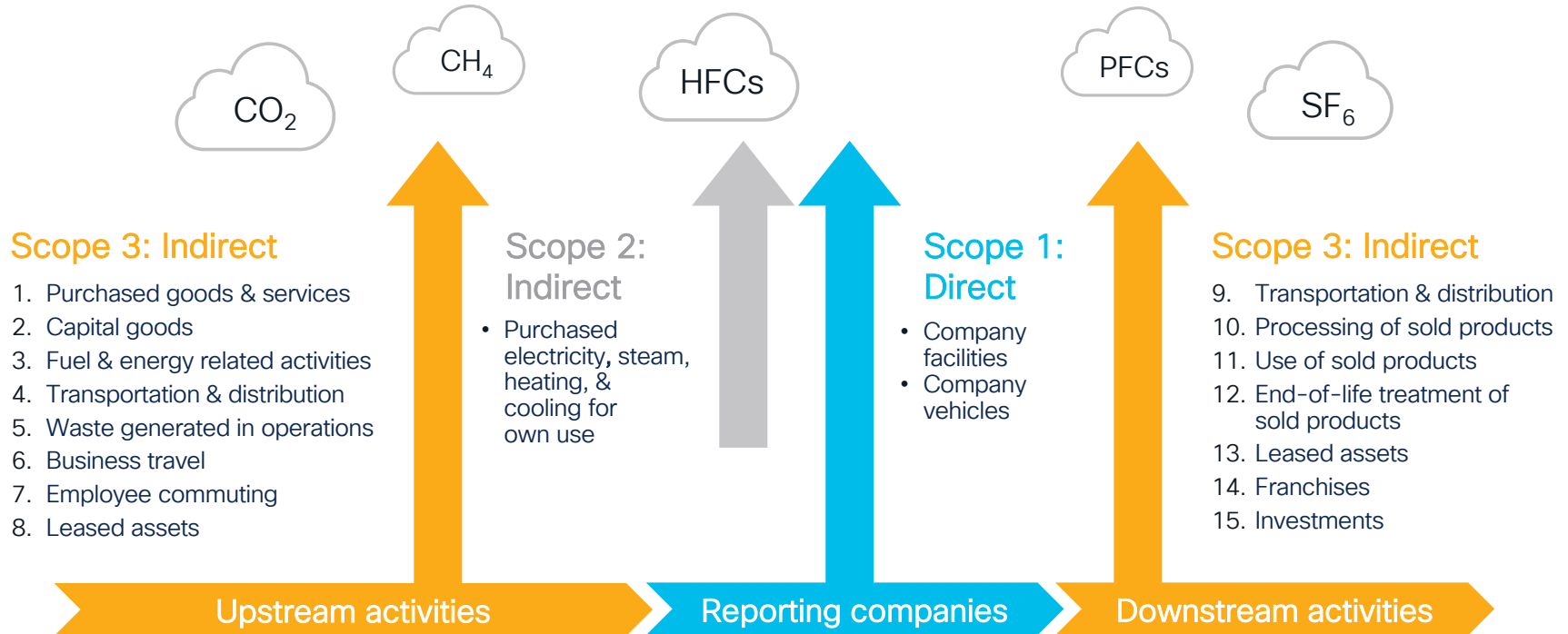


# Cisco's commitment

Net zero across all  
scopes of emissions  
by 2040

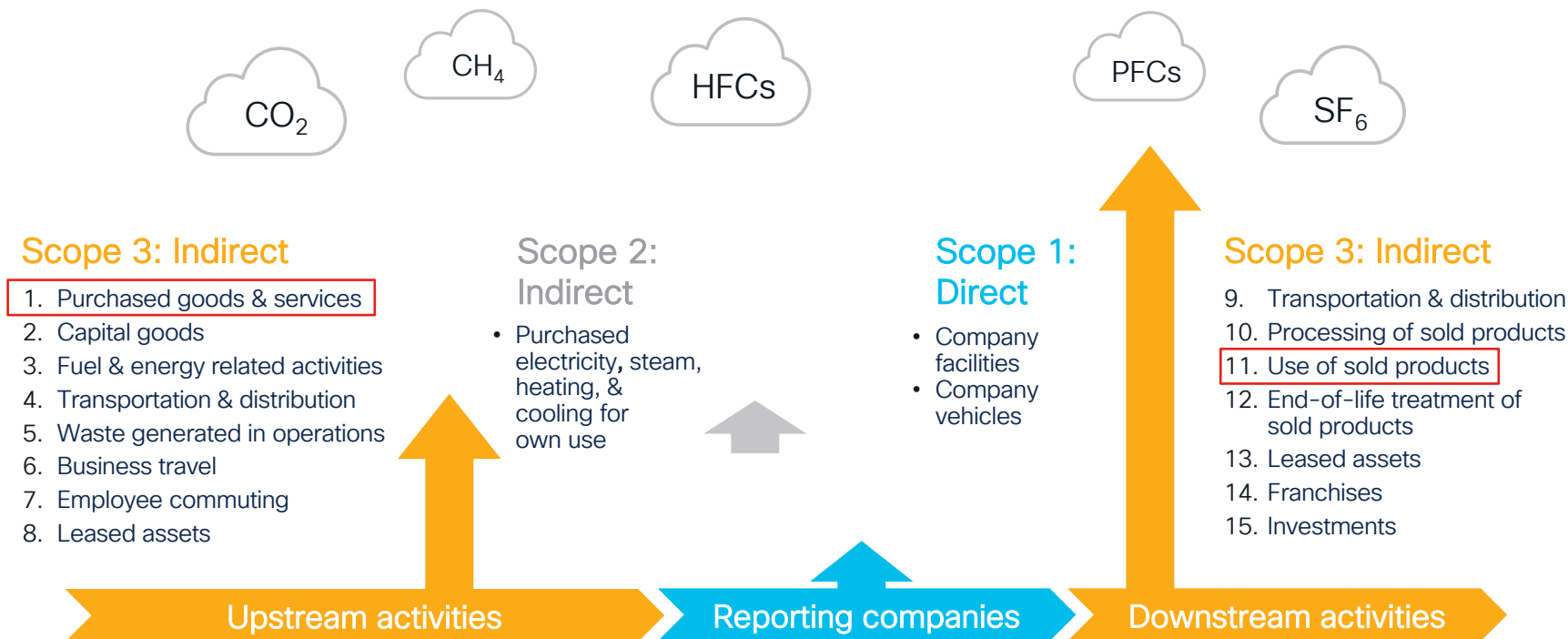


# What Are Scope 1, 2, & 3



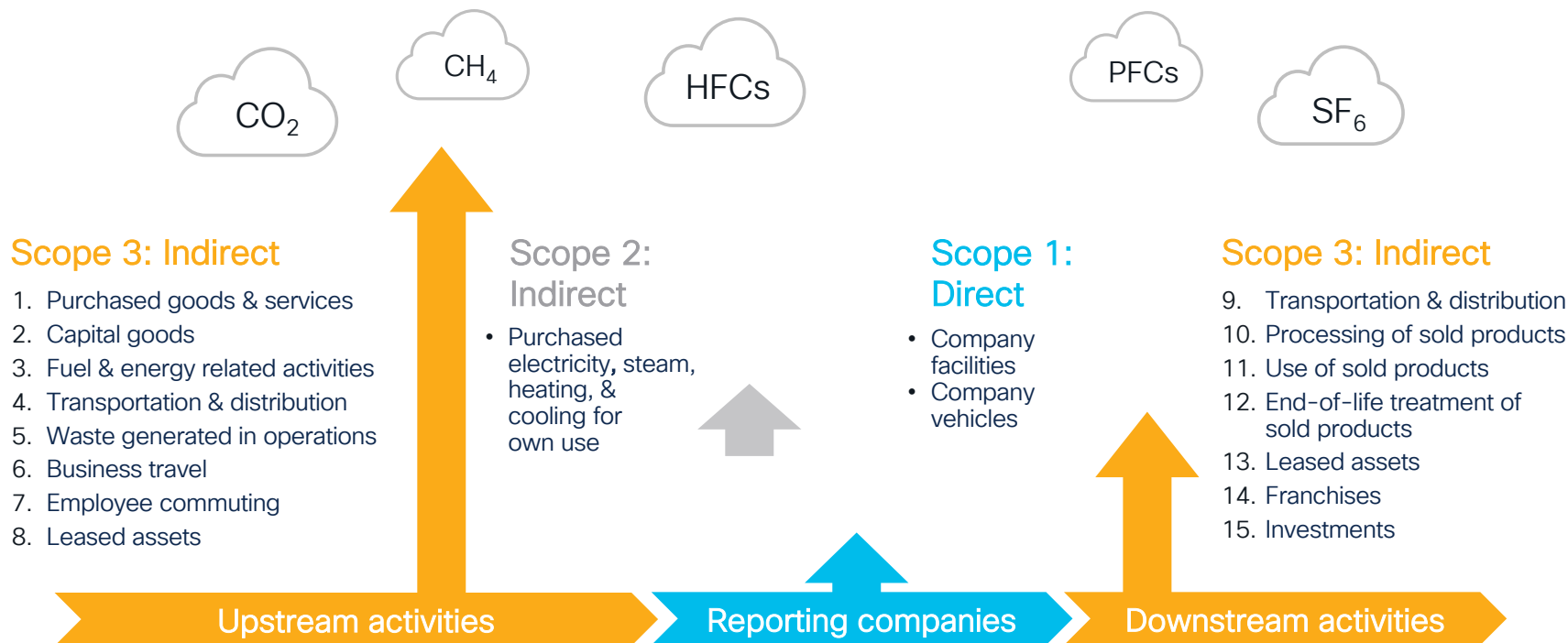
Based on: Greenhouse Gas Protocol, Technical Guidance for Calculating Scope 3 Emissions

# What Are Scope 1, 2, & 3 | Cisco



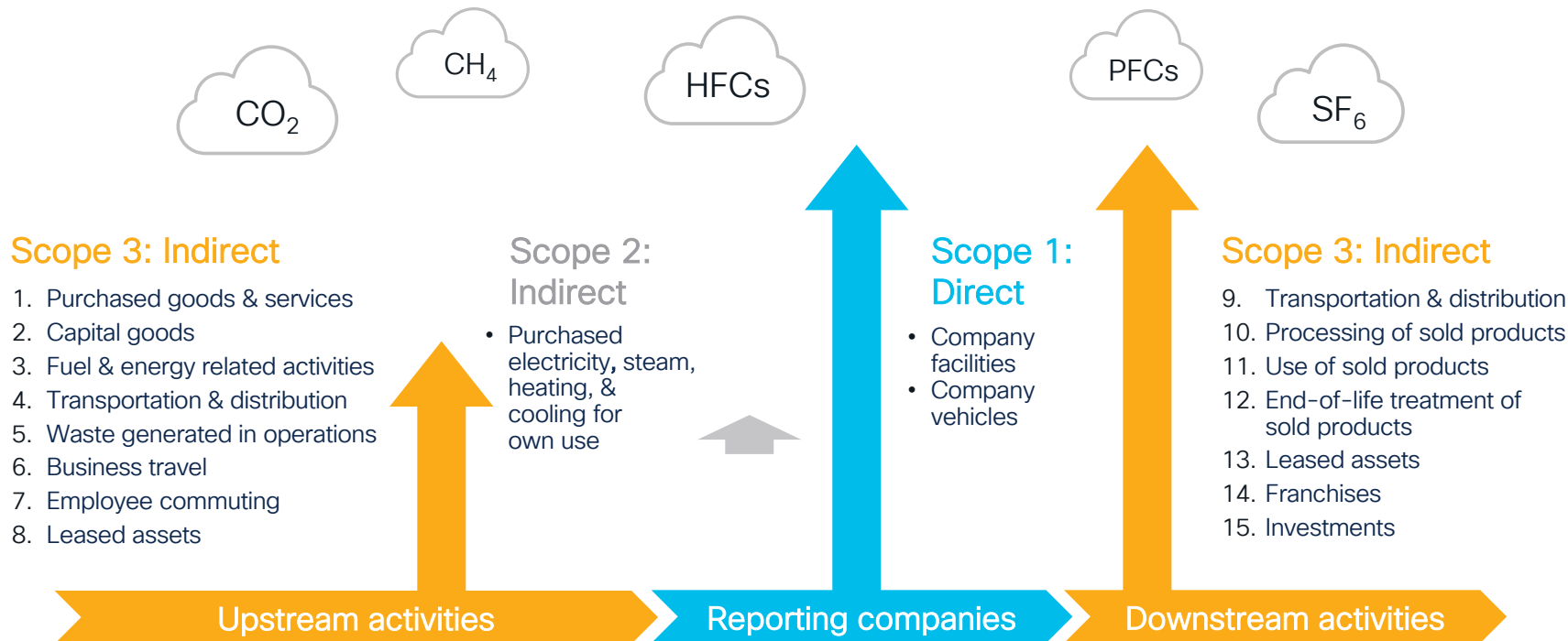
Based on: Greenhouse Gas Protocol, Technical Guidance for Calculating Scope 3 Emissions

# What Are Scope 1, 2, & 3 | Healthcare



Based on: Greenhouse Gas Protocol, Technical Guidance for Calculating Scope 3 Emissions

# What Are Scope 1, 2, & 3 | Utilities



Based on: Greenhouse Gas Protocol, Technical Guidance for Calculating Scope 3 Emissions

# What Are Scope 1, 2, & 3 | Energy



Based on: Greenhouse Gas Protocol, Technical Guidance for Calculating Scope 3 Emissions

**Increase** the energy efficiency of the technology that powers the internet

**Accelerate** the use of renewable energy

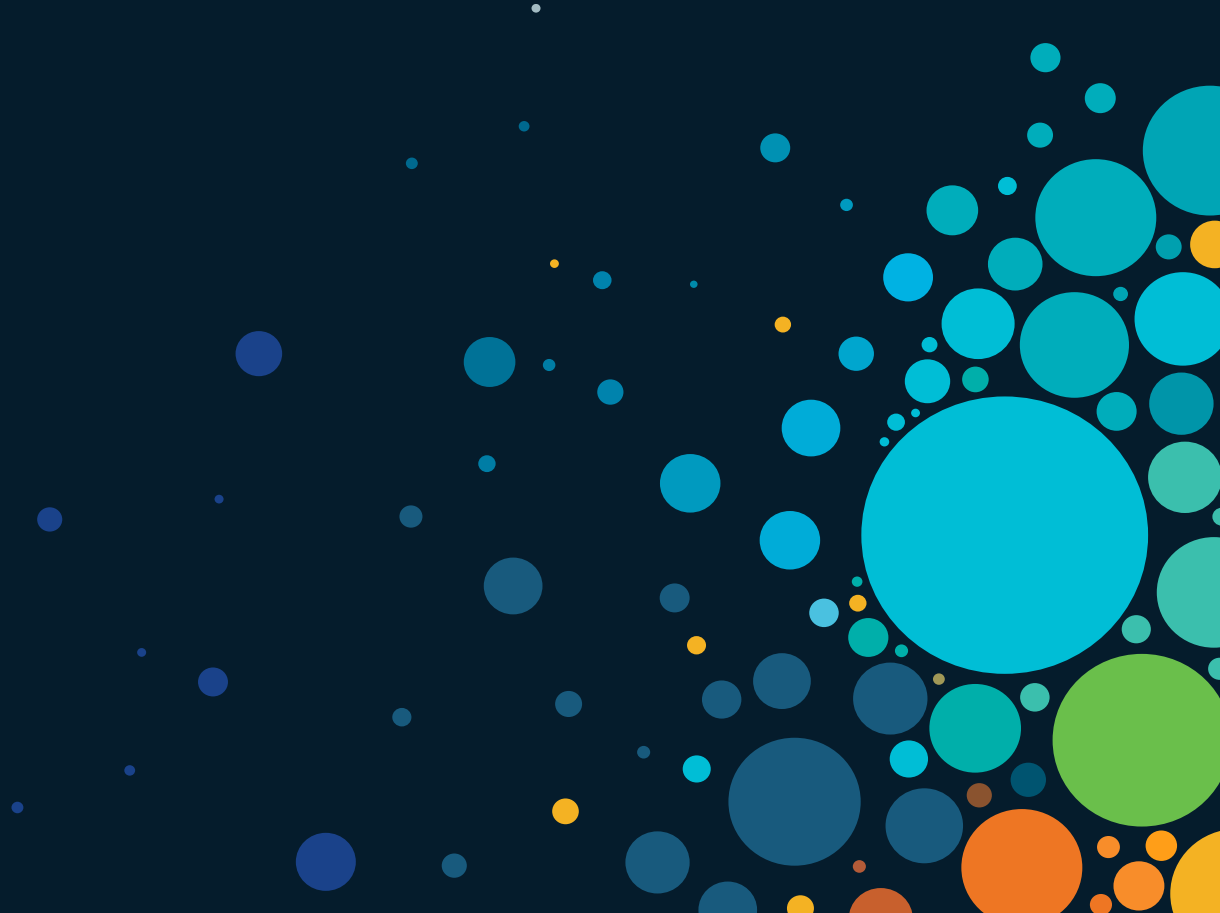
**Net Zero**  
for all scopes of  
GHG emissions  
by **2040**

**Embrace** Hybrid Work

**Invest** in innovative carbon removal solutions

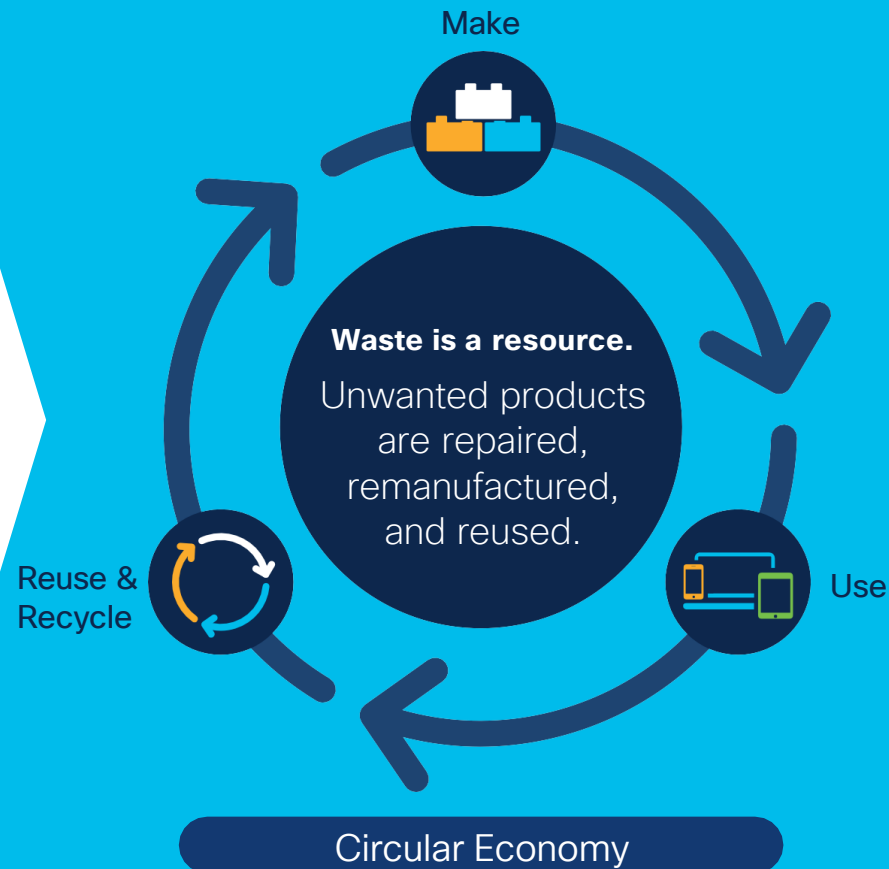
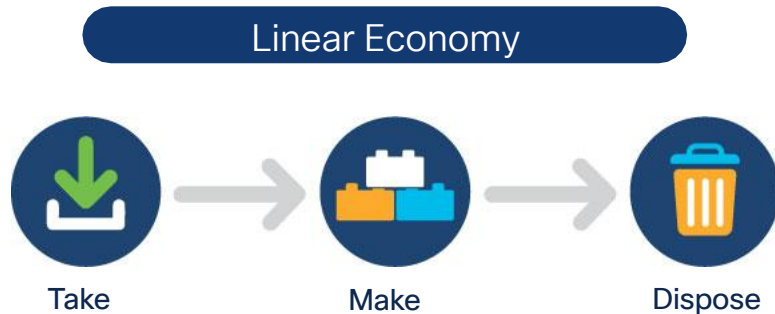
**Embed** circular economy principles across our business

# The Circular Economy mindset





# How we define circular economy



# Circular economy strategy: five focus areas



**Circular Design:** Design products and packaging with circularity in mind (e.g., design for reuse, repair, recycling, and resource efficiency)

**Circular Operations:** Reduce consumption and use renewable sources across our value chain

**Circular Consumption:** Manage our equipment for multiple lifecycles and deploy new business models to facilitate this approach

**Circular Solutions:** Shape and pioneer technology solutions and services to enable circular economy value creation for customers

**Ecosystem Leadership:** Advance circular economy through industry innovation, collaboration, and public policy

# Make: Circularity in our products and packaging

## No Paint Project

Eliminating oil-based wet paint on Catalyst 9K will save approximately **300 tons of CO2e** and **200 tons of hazardous VOCs** (Volatile Organic Compounds) over 5 years.



## Fiber-Based Packaging

New Webex Share packaging **eliminates plastics**, using molded pulp trays and paper to wrap cords and accessories.



## Design for Reuse, Repair, & Recycling

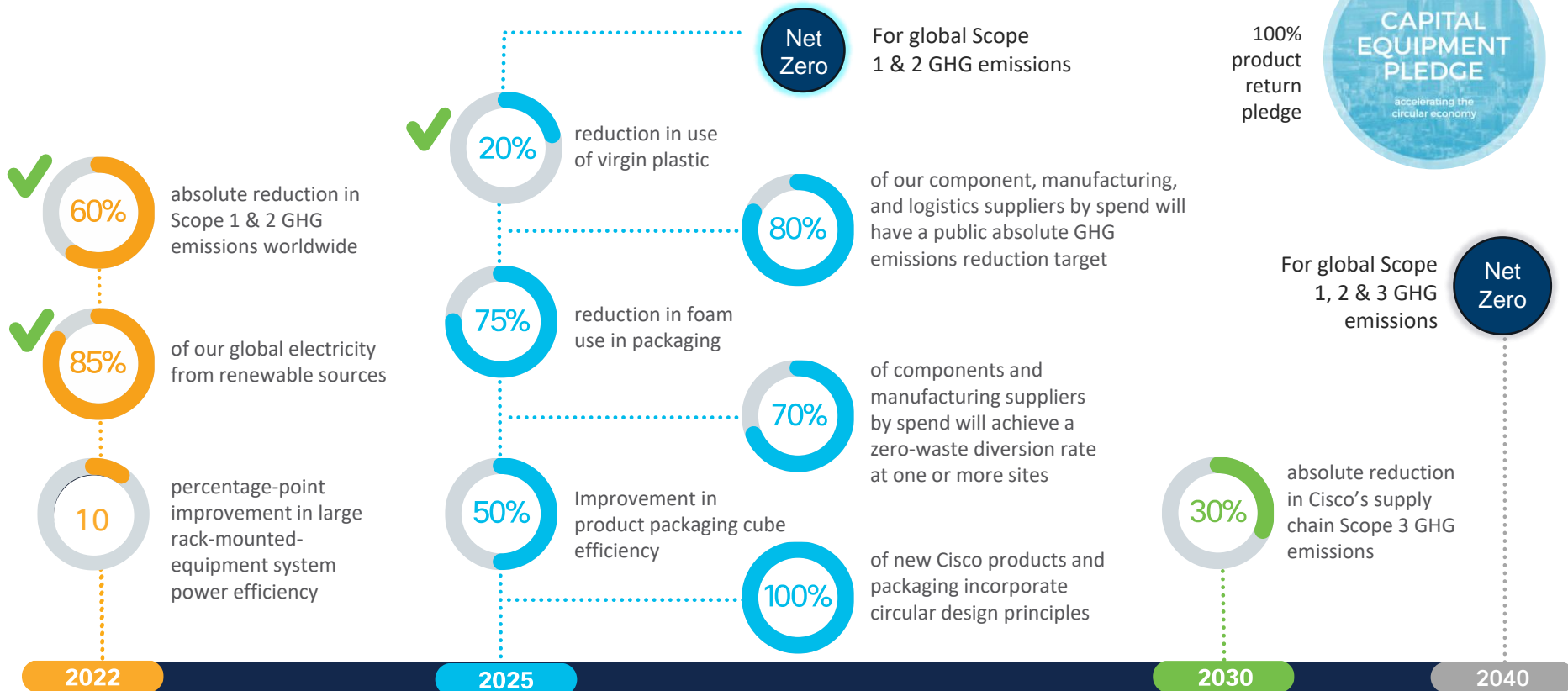
UCS-X servers are engineered to be quickly **assembled and disassembled**. The latest generation uses recycled plastic parts, recycled foam packaging, no wet paint, and has a **62% reduction in powder coat** compared to the prior generation.

## Product Modularity

This **“futureproof”** IR1101 router can adapt to 5G by switching out a small module.



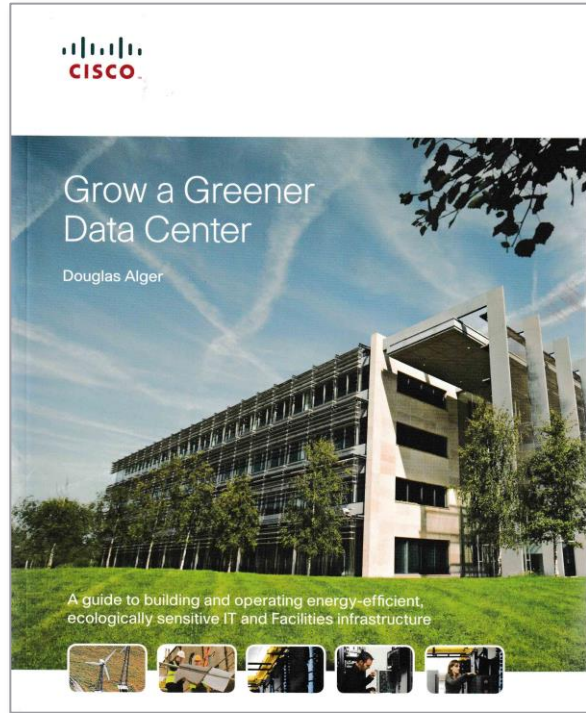
# Cisco's public sustainability commitments





So, what about IT? Where do you start?

.... haven't we all been doing this for years?



## “Grow a Greener Data Center”

by Doug Alger, Cisco Press, 2009

- Explores how to green each phase of your DC project
- Offers green strategies for all DC technologies
- Presents IT and facilities design strategies that can save \$'s
- Reveals financial incentive programs to help pay for green Data Center initiatives
- Outlines Data Center efficiency metrics
- Highlights the lessons of dozens of case studies
- Addresses broader green business practices



# Building an IT Sustainability Strategy



## Research Industry, viewpoints and standards

- ✓ Books, videos, scientific papers, specialist training & certification
- ✓ Supplier briefings, peer discussions, analyst reviews
- ✓ UN SDG, IPCC, ITU, GeSI, SBTi, GSMA, CDP, GRI, SASB, TCFD



## Understand your company emissions

- ✓ What commitments do you have? Where do you report?
- ✓ Who completes the report? How do they do calculations?
- ✓ What best practices exist? Who can you partner with?

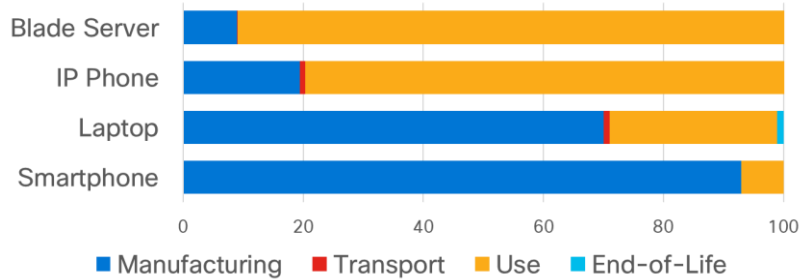


## Build your IT Strategy & agree goals

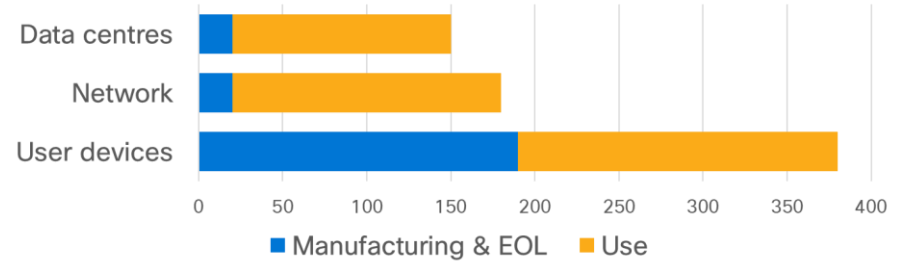
- ✓ What does your IT dept own? Establish frames of reference
- ✓ Engage IT service owners Define objectives & strategy
- ✓ Calculate baseline, set goals, measure progress

# Carbon Footprint

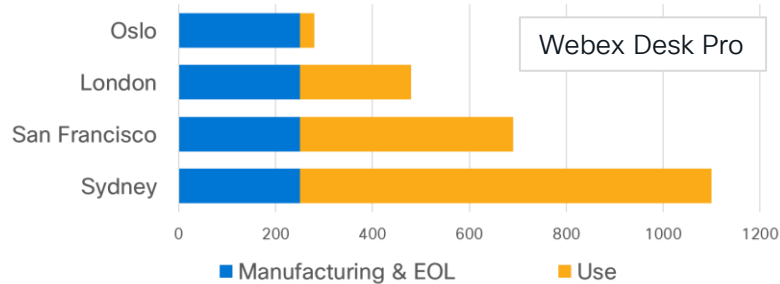
## What it is?



## How many are there?



## Where it is?



## Systems thinking





# What did we include in our sustainability framework?

## Circularity Principles

Focus on key stages of our IT Service Lifecycle

## Company Alignment

Aligned with corporate strategies and initiatives

## Supported by Culture

Unleash employee passion, innovation & creativity

## Special Areas of Focus

Provide focus on short term company goals

# Cisco IT Sustainability Framework

## Align & Support Company Sustainability Goals & Initiatives

•Net Zero Targets •Energy efficient products •Renewable Energy •Hybrid Work •Carbon Removal •Circular Economy •Reporting

### Sustainable by Design



Design principles / Best practices



Life Cycle & System Thinking



Review impact with clients

### Responsible Procurement



Preferred Suppliers



Supplier Code of Conduct



Supplier scorecard

### Optimization of Operations



Holistic view / Service reviews



Maintenance / Extend Life



Asset utilization / Remove excess

### Increase Asset Recovery & Reuse



Consider during design



Leverage Cisco best practices



Asset traceability

### Energy Management



Source renewables



Maximize efficiency



Monitor use

## Employee Culture

•Events & Education

•Site Green Teams

•Innovation Challenge

•Cisco Greenhouse

•External Speakers

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# The Role of Remanufactured Equipment

# What is Cisco Refresh?

- Genuine pre-owned Cisco equipment
- 7,000+ SKUs
- Remanufactured to like-new condition
- Fully warrantied
- Deeply discounted
- Smart Net eligible
- Keeps millions of pounds of equipment out of landfills annually
- Requires significantly less raw material, power, and water to manufacture



# Benefits

- The only brand of pre-owned Cisco equipment authorized and certified by Cisco
- You gain peace of mind, knowing you are buying genuine products
- No compromise in quality, performance, support, or value



**Price** Help maximize limited budgets

**Availability** Meet timelines with immediately available equipment

**Certification** 100% Cisco compliant

**Fully Warrantied** Same Cisco warranty as new equipment

**Fully Licensed** Licensed Cisco IOS

**Extend Life** Supported products for older installations

**Support** Eligible for Cisco support including SMARTnet

**Optimum Performance** Latest proprietary hardware and software upgrades

**Sustainability** Compliance with corporate green initiatives

Sold through Cisco Authorized Resellers. Financing available through Cisco Capital.

# Case study: Global SP Customer

- Has its own CO2 footprint under control
- Targeting Net Zero in 2040 with its ecosystem and customers
- Cost savings ambition defined through energy efficiency, renewable energy, circular economy approach, and eco-design
- Employees understand how they contribute to operational targets
- Refurbished customer equipment is a key component of revenue ambition

## Goals for 2025

30%

decrease in GHG emissions (compared to 2015)

50%

renewable energy in their mix

30%

of mobile phones sold will be collected for reuse or recycle

20%

of network and IT purchases will be refurbished equipment

# Leveraging Takeback and Reuse



# Product Takeback: simple, secure, sustainable



## Product Takeback & Reuse

Free removal and transport of equipment at customer end-of-use. All returned equipment is stored in a secure location and data is cleared from returned hard drives to protect data security. And we reuse and recycle 99.9% of what is returned to us.



### Cisco Returns Program

*Available in U.S.*



### Send IT Back Mobile App

*Available in EU, UK, and U.S.*



### Customer Recycling Solutions

*Available globally*

<https://cisco.com/go/producttakeback>

# Key Takeaways

1. The time to act is now
2. IT has dual responsibilities
3. Research your companies' commitments
4. Understand Circular Economy Principles
5. Develop an IT framework to align objectives & provide focus
6. Leverage Cisco Refresh and Product Takeback Programs
7. Share what you learn.

# Technical Session Surveys

- Attendees who fill out a minimum of four session surveys and the overall event survey will get Cisco Live branded socks!
- Attendees will also earn 100 points in the Cisco Live Game for every survey completed.
- These points help you get on the leaderboard and increase your chances of winning daily and grand prizes.



# Cisco Learning and Certifications

From technology training and team development to Cisco certifications and learning plans, let us help you empower your business and career. [www.cisco.com/go/certs](https://www.cisco.com/go/certs)

## Pay for Learning with Cisco Learning Credits

(CLCs) are prepaid training vouchers redeemed directly with Cisco.



## Learn

### Cisco U.

IT learning hub that guides teams and learners toward their goals

### Cisco Digital Learning

Subscription-based product, technology, and certification training

### Cisco Modeling Labs

Network simulation platform for design, testing, and troubleshooting

### Cisco Learning Network

Resource community portal for certifications and learning



## Train

### Cisco Training Bootcamps

Intensive team & individual automation and technology training programs

### Cisco Learning Partner Program

Authorized training partners supporting Cisco technology and career certifications

### Cisco Instructor-led and Virtual Instructor-led training

Accelerated curriculum of product, technology, and certification courses



## Certify

### Cisco Certifications and Specialist Certifications

Award-winning certification program empowers students and IT Professionals to advance their technical careers

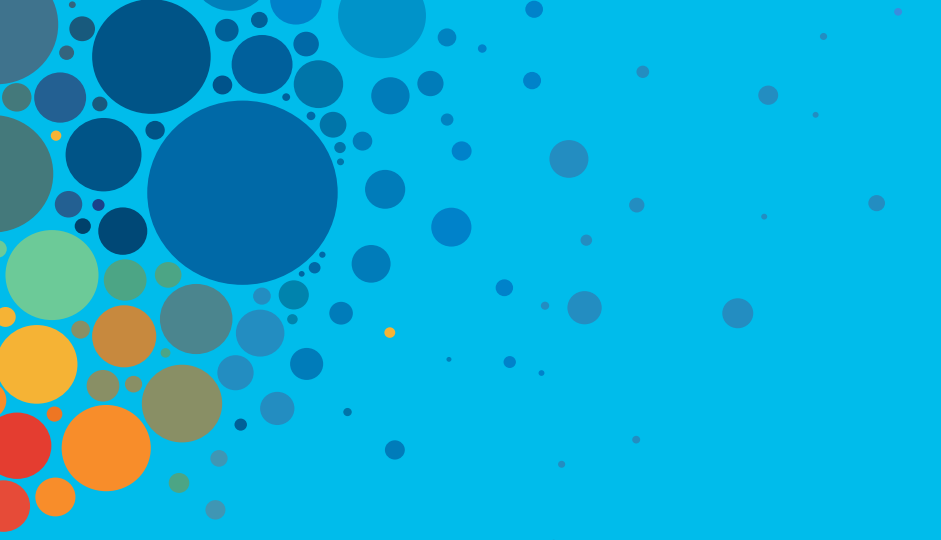
### Cisco Guided Study Groups

180-day certification prep program with learning and support

### Cisco Continuing Education Program

Recertification training options for Cisco certified individuals

Here at the event? Visit us at **The Learning and Certifications lounge at the World of Solutions**



# Continue your education

- Visit the Cisco Showcase for related demos
- Book your one-on-one Meet the Engineer 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](https://www.CiscoLive.com/on-demand)



The bridge to possible

# Thank you

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