

# Netzwerk Trends in der hybriden Arbeitswelt

Virtual Espresso Webinar



Aktiv mitmachen über  
**Slido.com**  
**#vEspresso**



👉 please utilise the Q&A function to get your question answered

The screenshot shows a Cisco Webex webinar interface. The main content area displays a slide with the following text: "Via webex", "Thema", "Virtual Espresso Webinar", "Mittwoch, 26. Januar 2021, 15:00 Uhr", and "Patrick Mosimann (CI)". The slide features a background image of coffee beans and a cup of coffee with latte art. The right-hand sidebar, titled "Ereignisdetails", shows the event title "Virtual Espresso: Thema", the date and time "25. Jan. 2022 21:30 -- 25. Jan. 2022 22:00", and the moderator "Moderator: Patrick Mosimann". A red arrow points to the "Fragen & Antworten" (Questions & Answers) icon in the sidebar. The top of the interface has a blue header with the Cisco Webex logo and a "Video" label.

👉 please utilise the Q&A function to get your question answered

The screenshot displays a Cisco Webex meeting interface. The top header is blue with the Cisco logo and 'Webex' text. Below the header, the word 'Video' is visible. The main content area shows a webinar slide with a background of coffee beans and a cup of coffee. The slide text includes: 'Via webex by CISCO', 'Thema Virtual Espresso Webinar', 'Mittwoch, 26. Januar 2021, 15:00 Uhr', and 'Patrick Mosimann (CI)'. On the right side, there is a 'Fragen & Antworten' sidebar. It contains tabs for 'Meine Fragen (0)' and 'Gruppenfragen (0)', an input field, an 'Absenden' button, and the text 'Von Ihnen gestellte Fragen sind hier aufgelistet.'.



# The Network. Powering Hybrid Work.

New Cisco Access Networking Innovations

Christoph Koch, CTO / Specialists Lead

Stefan Leemann, Head of Enterprise Networking

23. Februar 2022



Beitreten über  
**Slido.com**  
**#vEspresso**

# Digital trends shaping the future of business



## Hybrid work

Work from home | Work from anywhere | Work from office



## Industry 4.0

Automation | Internet of Things | AI/ML



## Hybrid cloud

Private cloud | Hybrid cloud | Public cloud

1



2



# Future of hybrid work must be inclusive

Enable productivity and resiliency  
by connecting everyone and everything



Empower PEOPLE

to safely and securely work  
from home, the office, and  
anywhere



# Video first



## HD Video-first interaction

- Inclusion ↑
- Meeting productivity ↑
- Human Engagement ↑
- Fatigue ↓

With Webex: Gesture and AI-enabled body language recognition

# Remote Work

## Back sound noise removal

- My Voice only ↑
- Peace of mind ↑
- Work from wherever ↑
- Distraction ↓
- Interruption ↓





# Polls & Quizzes

The screenshot displays a Webex meeting window titled 'Quarterly review'. The main area shows a grid of video thumbnails for participants: Barbara... (Host, me), Jacob Jones, Albert Flores, Devonne Lane, Bessie Cooper, Theresa Webb, Kathryn Murphy, Cody Fisher, Damon Russell, and Robert Fox. A Slido poll is overlaid on the right side of the meeting. The poll question is 'Which of these technology trends are you most excited about?'. The results are as follows:

Technology Trend	Percentage
Mobile payments	33%
Self-driving cars	42%
Machine learning	17%
Smart homes	8%

The poll interface also includes a 'Join at slido.com #eventcode' link and a 'Main stage' indicator.

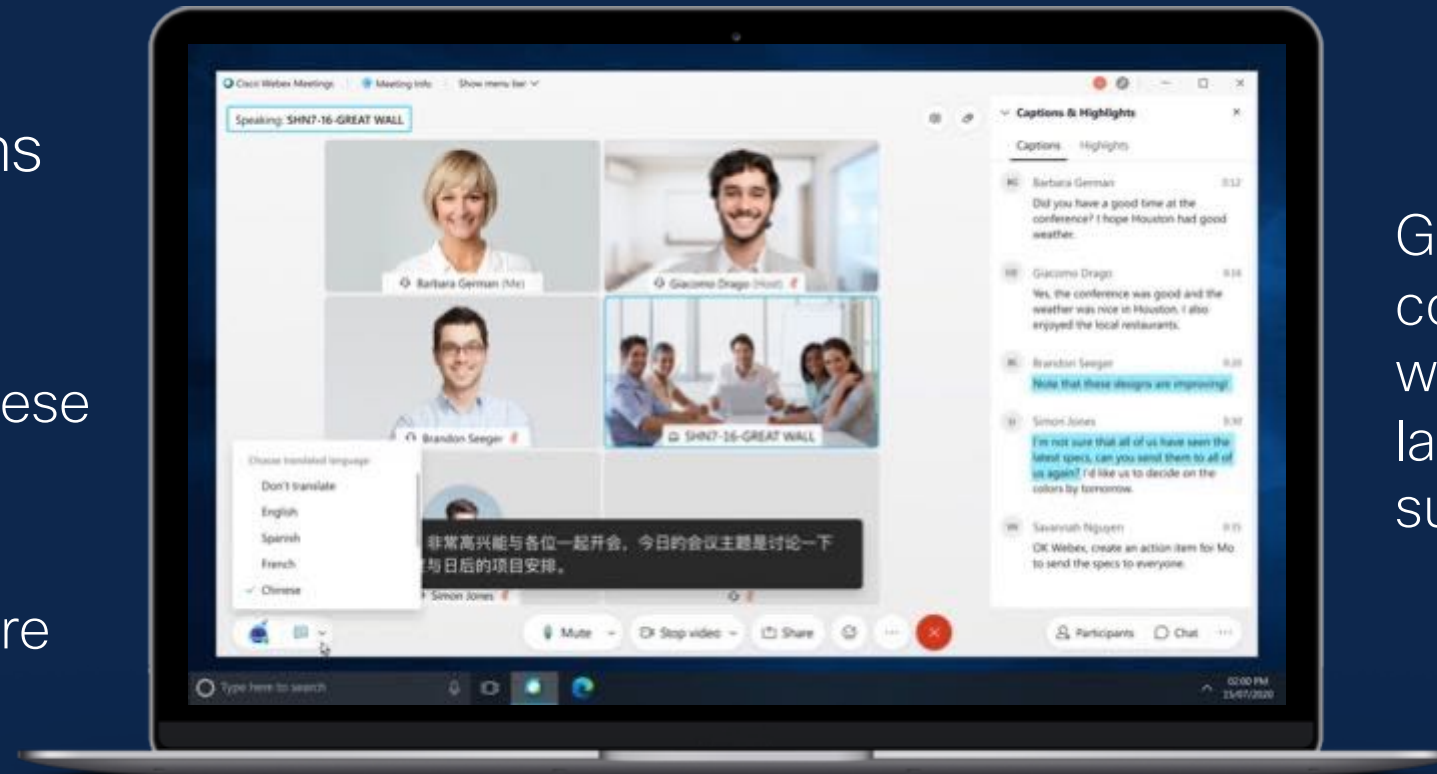
## Slido integrated with Webex as Embedded App

- **PRE**: Collect questions, crowdsource topics ↑
- **DURING**: Enhanced live Q&A and polls ↑
- **AFTER**: Collect feedback, reply to unanswered Qs ↑

# Translation

Real-time Translations with English to:

- Mandarin
- Spanish
- Arabic
- French
- Japanese
- German
- Portuguese
- Russian
- Dutch
- And more



Global team collaboration with native language support ↑

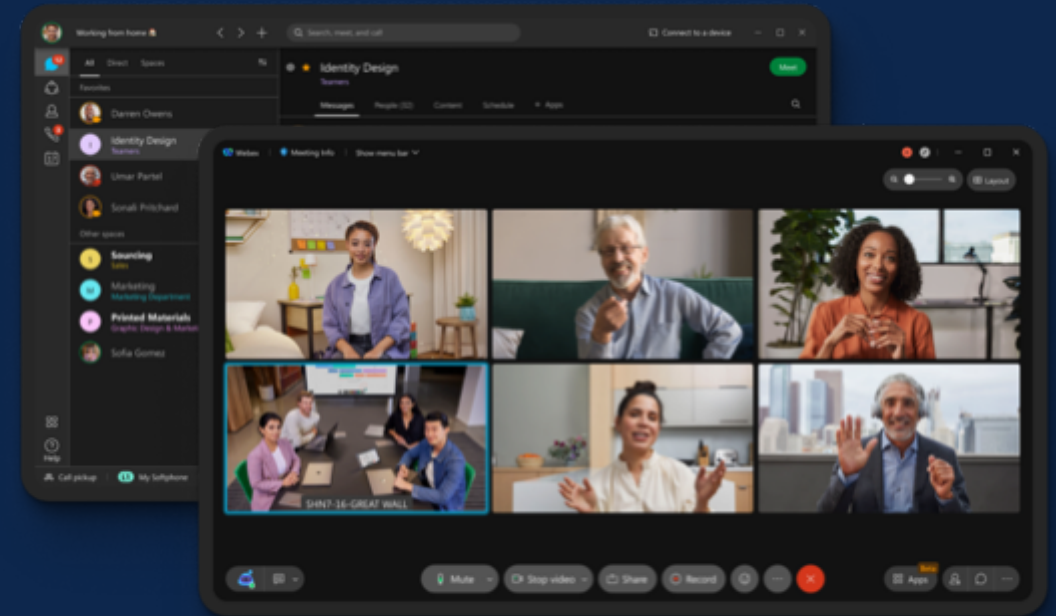
# One Pane of Glass

For the IT and for Facility



Control Hub to manage user, devices and services, troubleshoot and access analytics

For the End-User



Calling, Meeting, Messaging, Polling, Events all in 1 single app with bidirectional integration

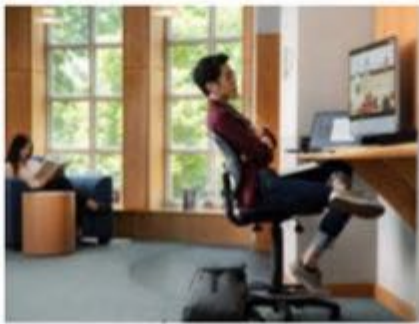
Effortlessly move between your virtual and physical worlds

# Intelligent Workspace – WHY?

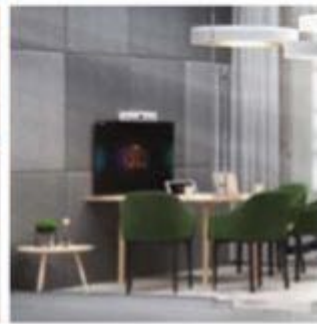
Desk



Huddle



Medium



Large



Ideation



Communication



Integration



# Future of hybrid work must be inclusive

Enable productivity and resiliency  
by connecting everyone and everything



Connect THINGS

with IT for automation,  
visibility, security  
and sustainability





Help customers **connect**,  
**secure** and **automate** to  
accelerate their digital agility  
in a cloud-first world



Connect



Secure



Automate

# Customer Focus, Connected Portfolio

## Cross-Architectures

### Connect

Technology that is connected provides business resiliency and flexibility



### Automate

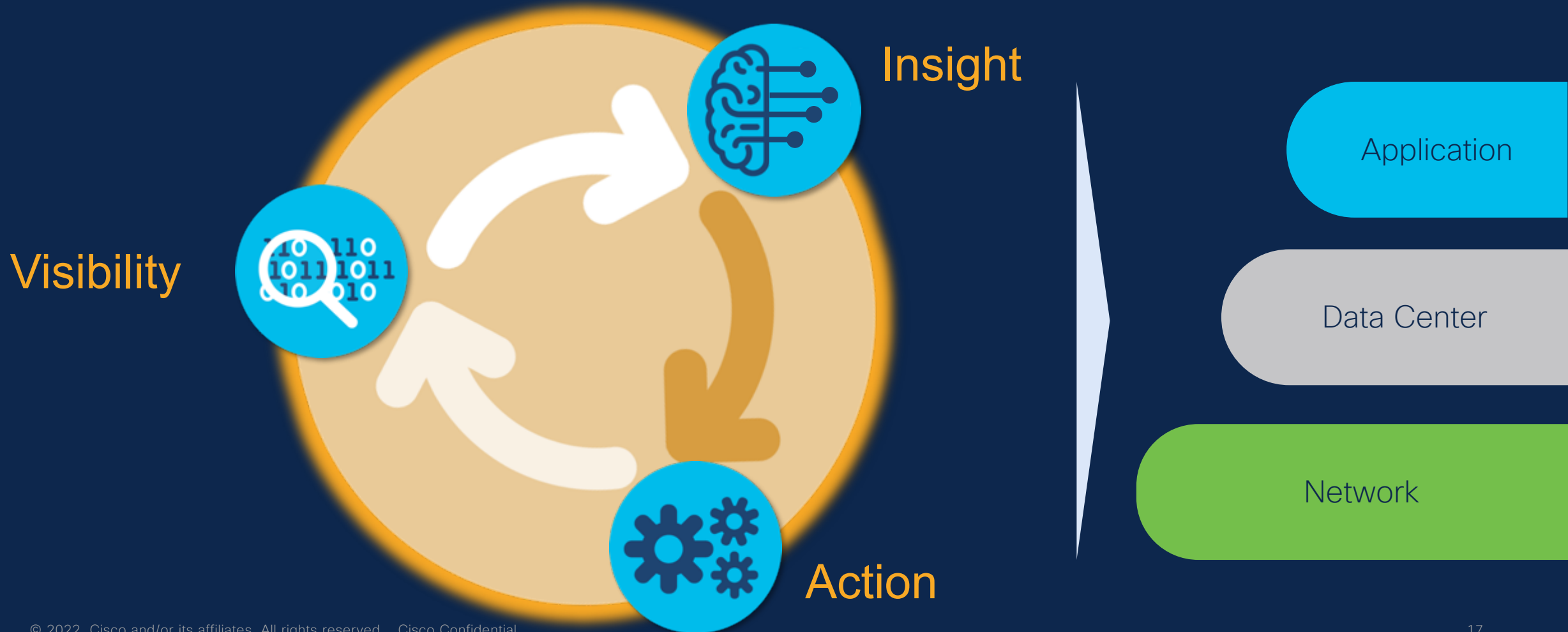
Platforms with closed-loop visibility, insight and action provide business agility

### Secure

Trustworthy integrated solutions with built-in security to keep your users, applications and data secure

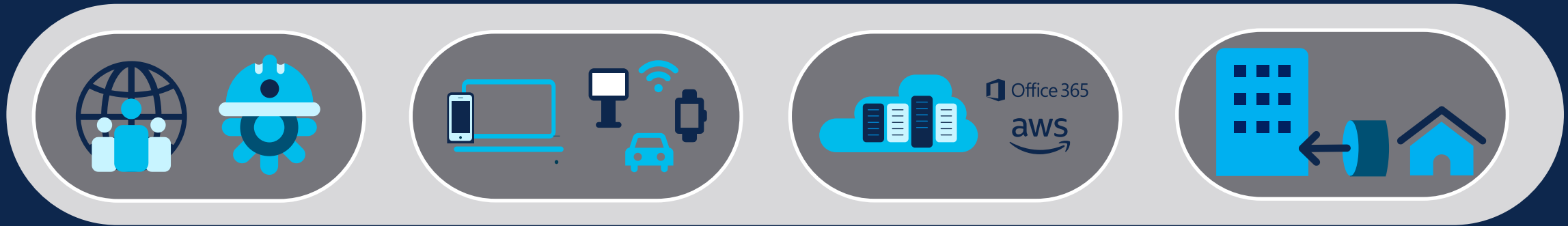
# Closed Loop Visibility, Insight and Action

Monitoring & Analytics enable AIOps





# What customers are asking for...



## Any User

- ✓ Employee
- ✓ Contractor
- ✓ Partner

## Any Device

- ✓ Corporate-Issued
- ✓ Bring-Your-Own
- ✓ IoT

## Any App

- ✓ Data Center
- ✓ Multi-Cloud
- ✓ SaaS

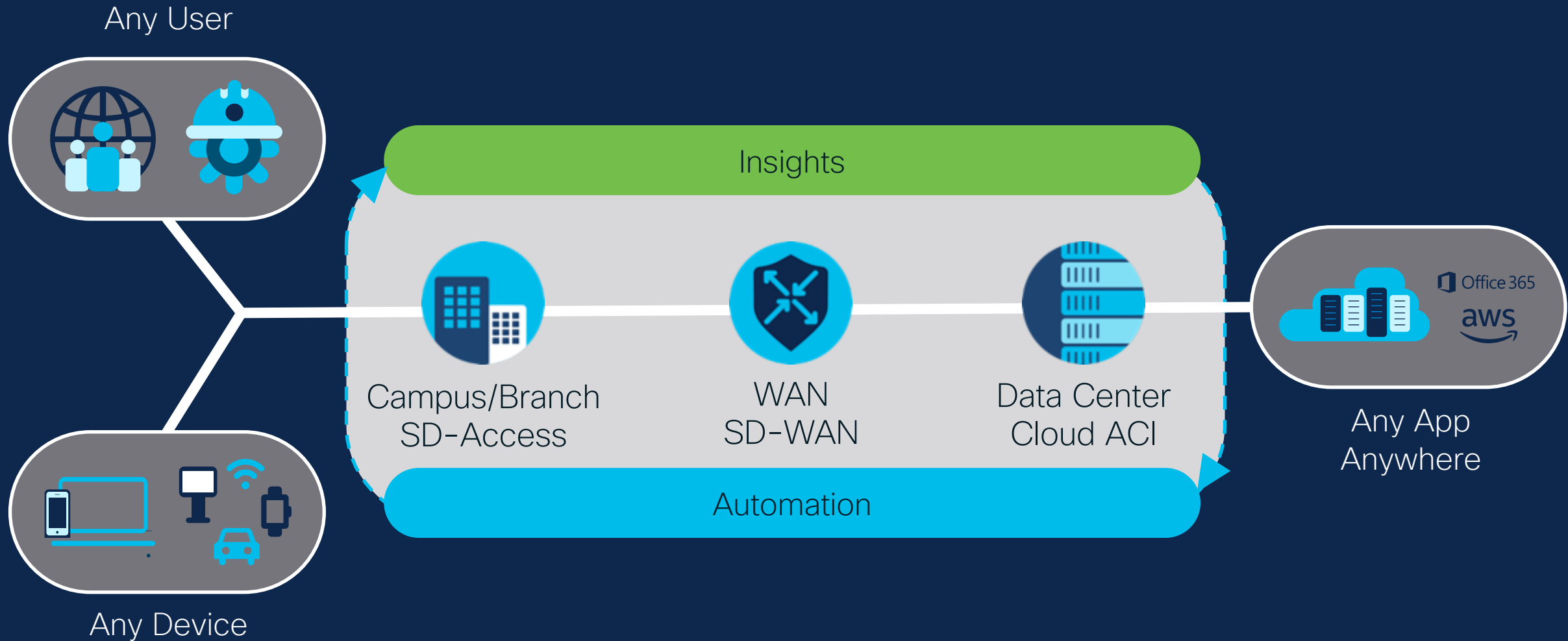
## In Any Location

- ✓ On-Premises
- ✓ On-VPN
- ✓ Off-Network

# Cisco Strategy



# Multidomain Architecture for Intent-Based Networking (IBN)



# Future of hybrid work must be inclusive

Enable productivity and resiliency by connecting everyone and everything



Empower **PEOPLE**  
to safely and securely  
work from home, the  
office, and anywhere



Connect **THINGS** with  
IT for automation,  
visibility, security  
and sustainability

and the **NETWORK** is at the core of this unification

# Cisco uniquely positioned to lead hybrid work



Cisco SD-WAN, Meraki Systems Manager, Identity Services Engine, DUO, Umbrella, AMP, ThousandEyes

## Enabling products

**Remote Worker:**  
AnyConnect VPN | Duo  
**Home office endpoints:**  
Meraki Z3/C | Catalyst ISR 1100 |  
Catalyst 9105

AnyConnect VPN  
DUO  
Umbrella  
Secure Endpoint

Catalyst 9000 Wireless and Switching  
Meraki Wireless and Switching  
Cisco DNA Spaces  
Catalyst 8000 Edge

# Unparalleled experiences: speed and intelligence

## Wireless access

Freedom to connect everyone and everything



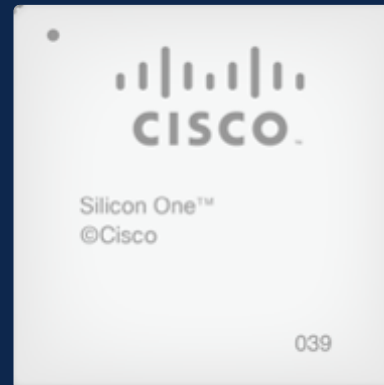
Wireline performance at gigabit speeds

Minimize complexity and time to evaluate choices

More quickly realize productivity gains

## Switching backbone

High performance to meet required speed, scale, and capacity



Address growing demands of wireless and IoT

Reaching 100G in access and 400G in core

## Platform agility

Access management regardless of employee location



Seamless onboarding, greater visibility

Consistent identity and policy regardless of access technology or user location

# Smart and sustainable: safety & net-zero goals

## Wireless access

Environmentally aware



Air quality



Humidity & Water



Temperature

Sensors with insights

Location insights to track people and things

Environmental monitoring via APs and sensors:  
humidity, temperature and carbon emissions

## Switching backbone

Reduce power consumption  
while scaling



# 20%

## Energy savings

Power-efficient technology | Silicon One in core

90W UPOE across all ports

## Platform agility

Visibility and analytics  
to support business goals



Manage building health and capacity at scale;  
notifications for IT to protect workforce

Smarter power usage and power  
utilization insights

# A day in the life—“enterprise campus”

## Enabling technologies



Julie Smith  
Engineer  
Acme Automotive  
Hybrid Worker

2 days  
in office

### Safe workplace

Going back to the office

DNA Spaces health status; Catalyst and Meraki Wi-Fi 6E access points, smart cameras, environmental sensors



### Smart workspaces

Able to work from anywhere

Cisco DNA Spaces room availability and , capacity' Meraki and Catalyst access points, Meraki cameras and sensors



### Trusted access

Data and application security from anywhere

DNA Center: AI-trusted analytics, CleanAir Pro, IPSec branch connectivity; Meraki: Air Marshal WIPS, AutoVPN



### Create, manage, collaborate... work

Having an uninterrupted and high-quality work experience

DNA Center: AI-enabled RRM, 6GHz spectrum, high performance switch Meraki Health and dashboard



### Environmentally conscious

Create a sustainable workplace

Catalyst 9000X with UPOE+, partner ecosystems, MT wireless sensors





# A day in the life—“enterprise operations”

## Enabling technologies



Sam Jackson  
Plant Manager  
Acme Automotive  
Hybrid Worker

4 days  
in office

### Safe workplace

Going back to the office

DNA Spaces health status; Catalyst and Meraki Wi-Fi 6E access points, smart cameras, environmental sensors



### Smart workspaces

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### Factory automation

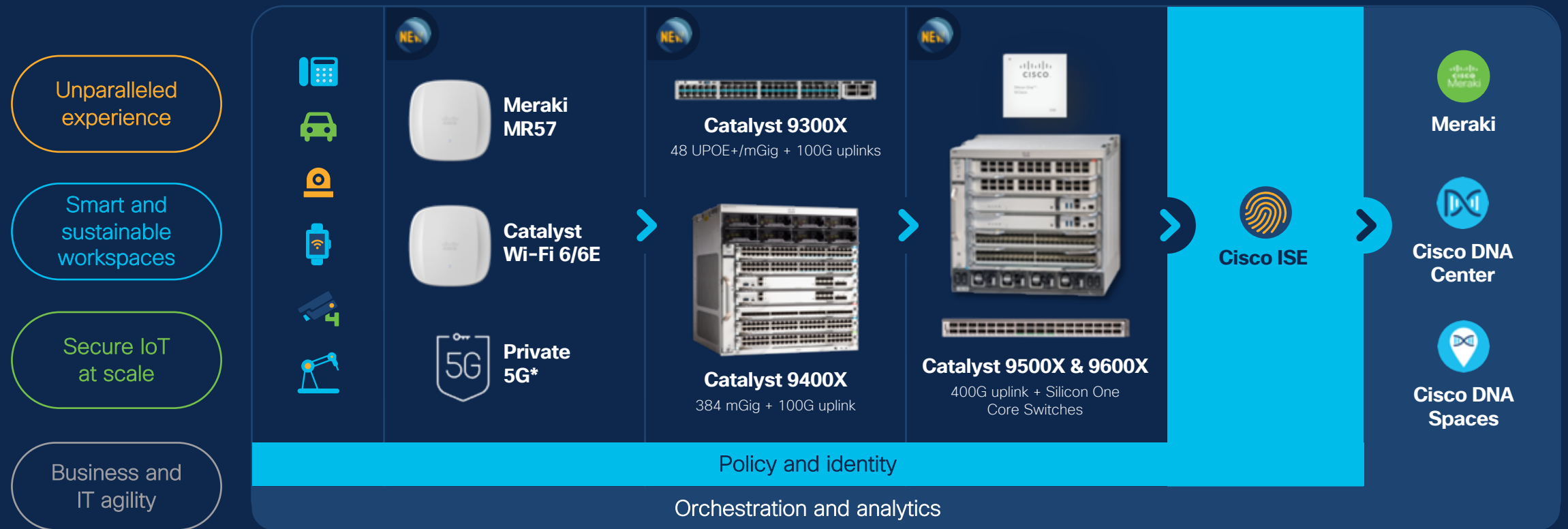
Having connectivity choice and flexibility for IoT/OT

Catalyst and Meraki Wi-Fi 6E access points, Private 5G, ultra-reliable wireless backhaul



# New Cisco Wi-Fi 6E, Private 5G and Catalyst 9000X

Enabling better business outcomes end-to-end with simplicity and choice



## Cisco access networking stack

# Cisco Wi-Fi 6E access points

New innovations for your hybrid work environment



**Cisco Catalyst**  
9136AX series

## Environmentally conscious

The Catalyst 9136 works for you with built-in sensors automatically measuring indoor environmental quality and determines power consumption based on load management.

## Automated connections to 6GHz

If you have a Wi-Fi 6E device, you want to connect to the 6GHz spectrum. Band Steering systematically joins Wi-Fi 6E clients to the 6GHz spectrum.

## Avoiding interference

Even on a brand-new spectrum, there can be interference. Cisco CleanAir Pro mitigates wireless interference and strengthens performance protection.



**Cisco Meraki**  
MR57 series

# Cisco Catalyst 9000X switches

Extending Catalyst leadership

Access



Cisco Catalyst 9300X



Cisco Catalyst 9400X

Core



Cisco Catalyst 9500X  
with Silicon One



Cisco Catalyst 9600X  
with Silicon One

Cisco Catalyst 9000X series

Transform the workspace for hybrid work

Powerful platform to meet the bandwidth, speed, capacity, and scale required for today's hybrid work

Secure the network from inside to outside

Leverage enhanced computational power and advanced AI/ML to apply continuous Zero Trust security anywhere it's needed

Future proof design for working smarter not harder

Converged switching/routing capabilities, enhanced app-hosting and more config automations for a smarter, more agile campus and branch

# Cisco Silicon One

Meet the first unified switching and routing silicon architecture powering the future of hybrid work

## Industry-leading

12.8-Tbps system on chip



12.8-Tbps bandwidth



8.1 Bpps



8-GB HBM for deep buffers



10 million IPv4 or 5 million IPv6 route scale



## High performance—enterprise first 400G

Enabling the highest bandwidth fixed systems and modular line cards with up to 2.6x higher bandwidth than any other routing/switching silicon



## 4x lower power consumption

First 7-nm ASIC providing lowest power consumption with up to six times less silicon and four times lower power than any other solution



## Future proofing programmability

Full P4 programmability for faster feature delivery and future-ready deployments

Introducing 11 devices in less than two years demonstrating our unmatched pace of innovation

# Cisco Catalyst IE9300 Rugged Series

Extend Catalyst 9000 to the industrial edge

Unrivalled  
performance  
at scale

Unprecedented  
visibility into assets  
and applications

Industry leading  
OT security



Catalyst IE-9310-26S2C | Catalyst IE-9320-26S2C

26 SFP + 2 Combo GE ports

Ruggedized industrial rackmount switches running IOS XE

## Unrivalled performance at scale

Highest switching capacity, fiber port density with true backplane stacking, and network automation with Cisco DNA Center and SD-Access

## Unprecedented visibility into assets and applications

Cyber Vision and Endpoint Analytics for assets, NBAR/SD-AVC for applications, and NetFlow and telemetry for network health

## Industry leading OT security

Link-level encryption with MACsec, security posture evaluation with Cyber Vision, and zero-trust security with multi-level segmentation and threat defense



Same UADP ASIC



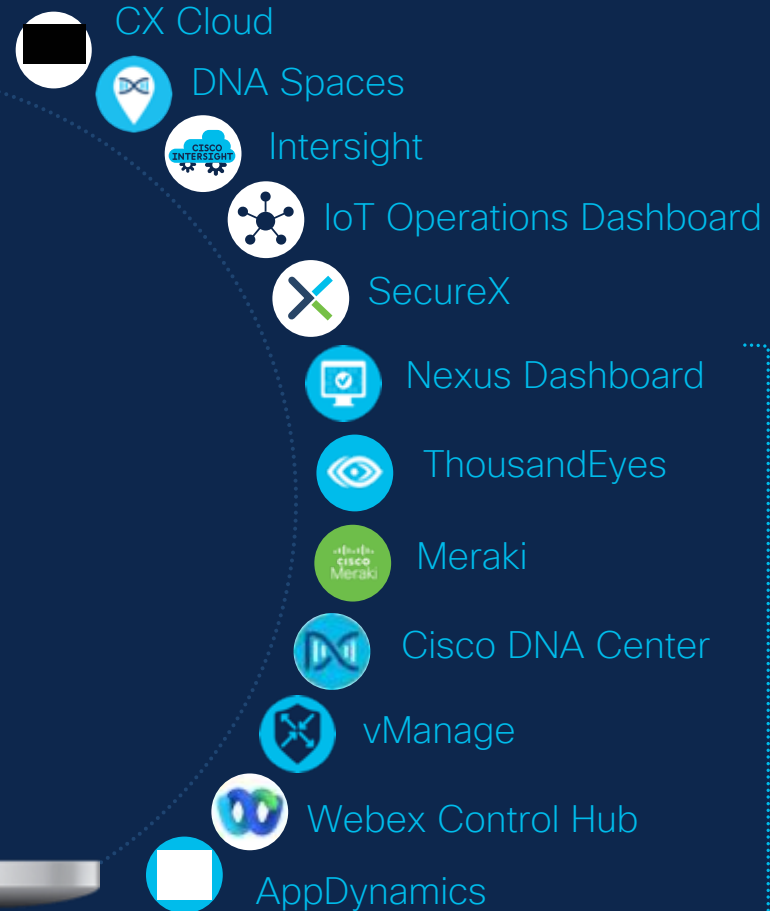
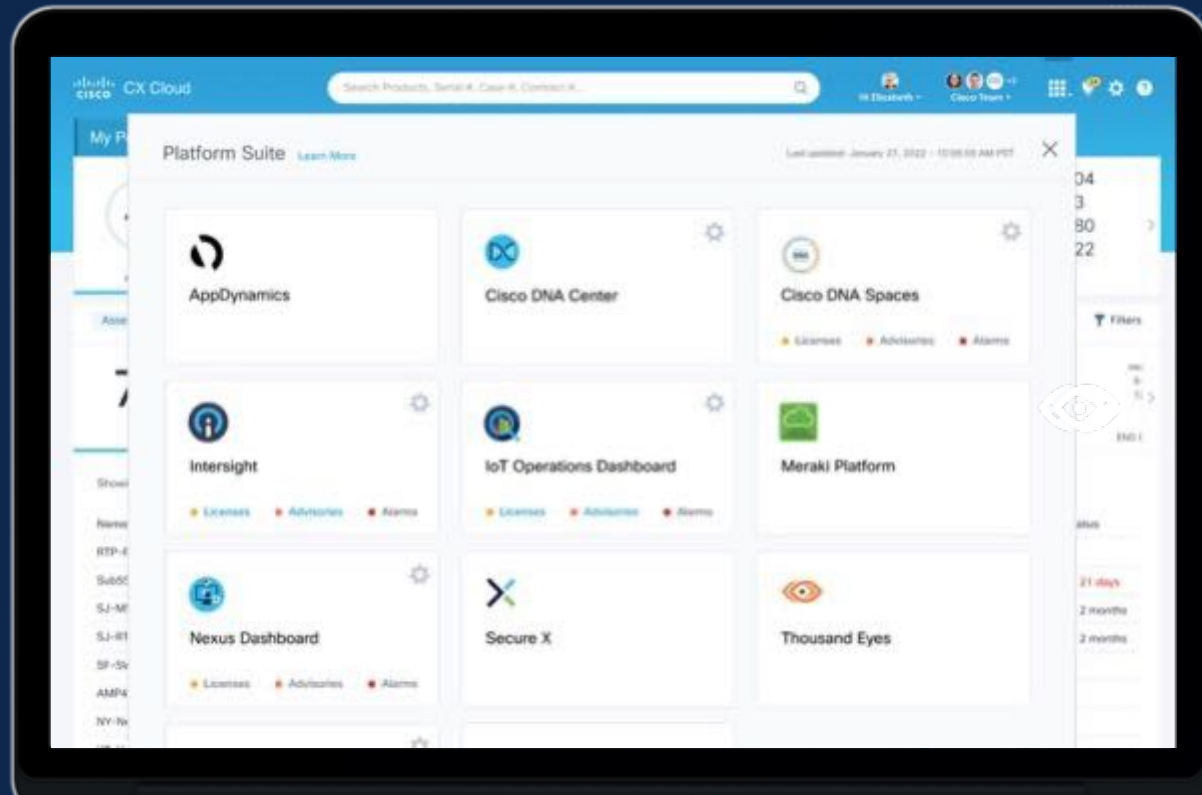
Same IOS-XE software



Same Cisco DNA Center Management

# Cisco Platform Suite

Brings together Cisco platforms for a simpler, more unified IT experience



Coming soon

- Launchpad
- Single sign-on
- Health status indicators
- API key exchange

# Cisco uniquely positioned to lead hybrid work



Networking | Security | Collaboration | Visibility & Analytics



Fragen?



# OUTLOOK Upcoming Virtual Espresso

- Blog:  
<http://cs.co/vEspresso>
- Topics:
  - 09.03.2022: Switching Innovations
  - 23.03.2022: WiFi Innovations
  - 06.04.2022: Routing Innovations



dankä villmal  
grazie mille  
merci beaucoup  
grazia fitg  
thank you

