



# Possibilities

#CiscoLive

# Education Now

## Transforming Teaching in Times of Change

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DGTL-PSOIND-1101



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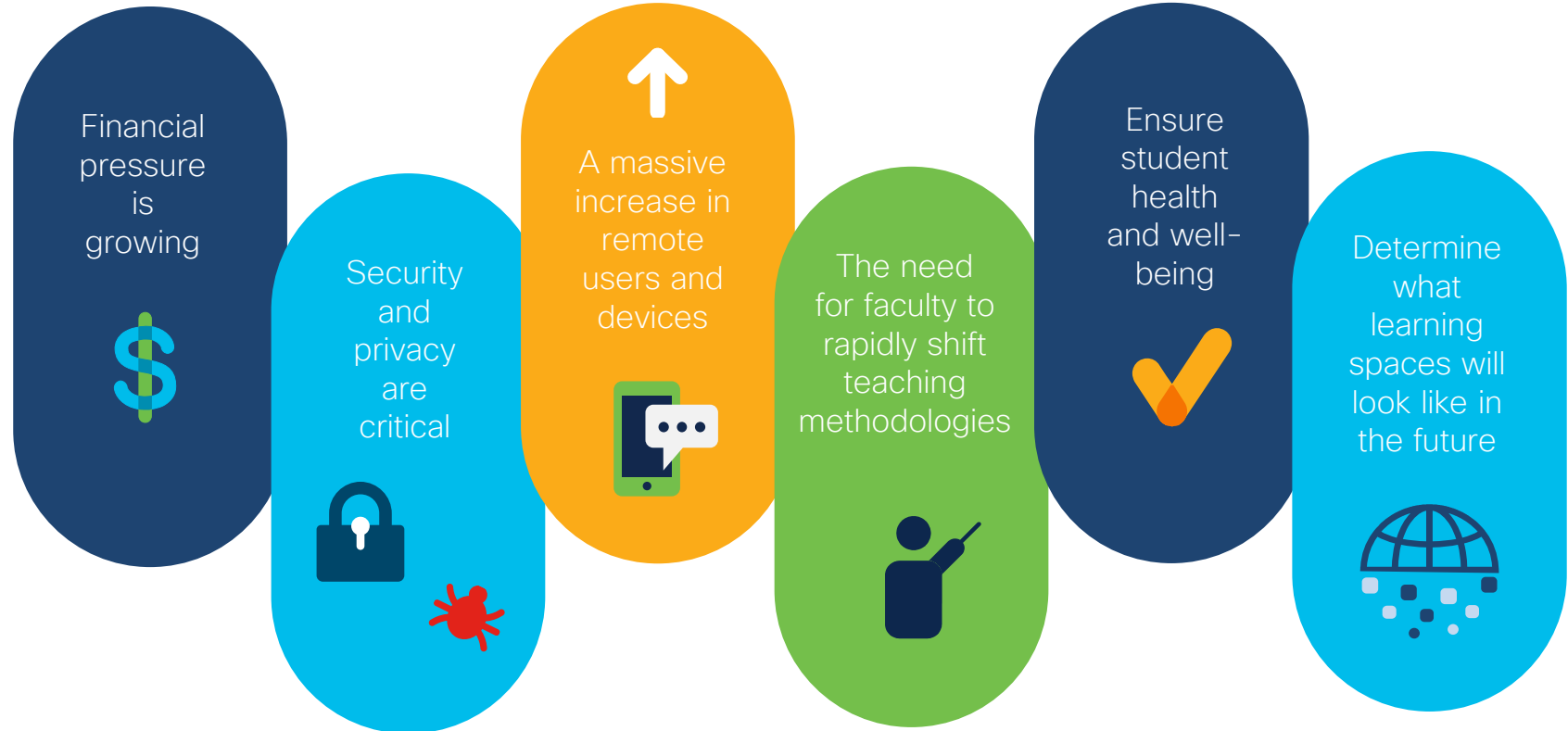


# Agenda

- Introduction
- Education challenges
- Administrative collaboration
- Distance learning
- Network, endpoint and web security
- Success in action
- Conclusion

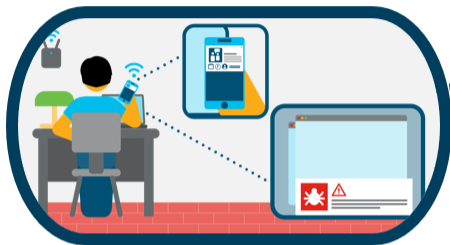
# Education challenges

# Challenges in education today

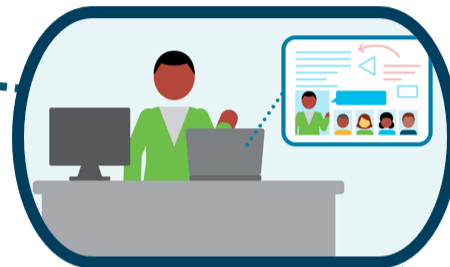


# What's needed?

Simple



Secure



Smart

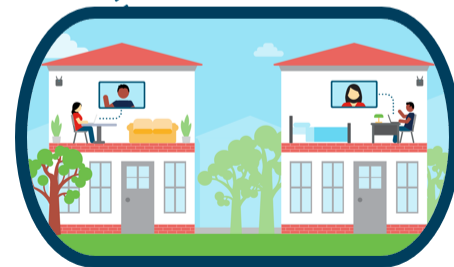


Seamless

CISCO *Live!*

A simple, secure, reliable platform  
for distance learning and  
administrative collaboration that is  
easy to deploy and easy to use.

**Collaboration without compromise**



Supported

# Higher education business drivers today

**Connect** with and **engage learners** in new and different ways



Faculty

**Securely collaborate** with other researchers to drive the innovation required to address multiple waves of uncertainty



Researcher

Give every faculty member and student **secure access to the resources** they need to teach and learn effectively to drive continuity of learning



Provost

Continue **learning** and **collaboration** **any time** and in **any location**



Student

Provide infrastructure and technology to **securely enable distance learning, administrative decision-making, and innovation**



Chief Information Officer



# Schools business drivers today

Connect with and **engage learners** in new and different ways



Teacher

**Securely collaborate** with teachers, parents, and staff to ensure a secure, effective learning environment



Principal

Give every teacher and every student **secure access to the resources** they need to teach and learn effectively and to drive continuity of learning



Superintendent

Continue **learning and collaboration** any time and in any location



Student

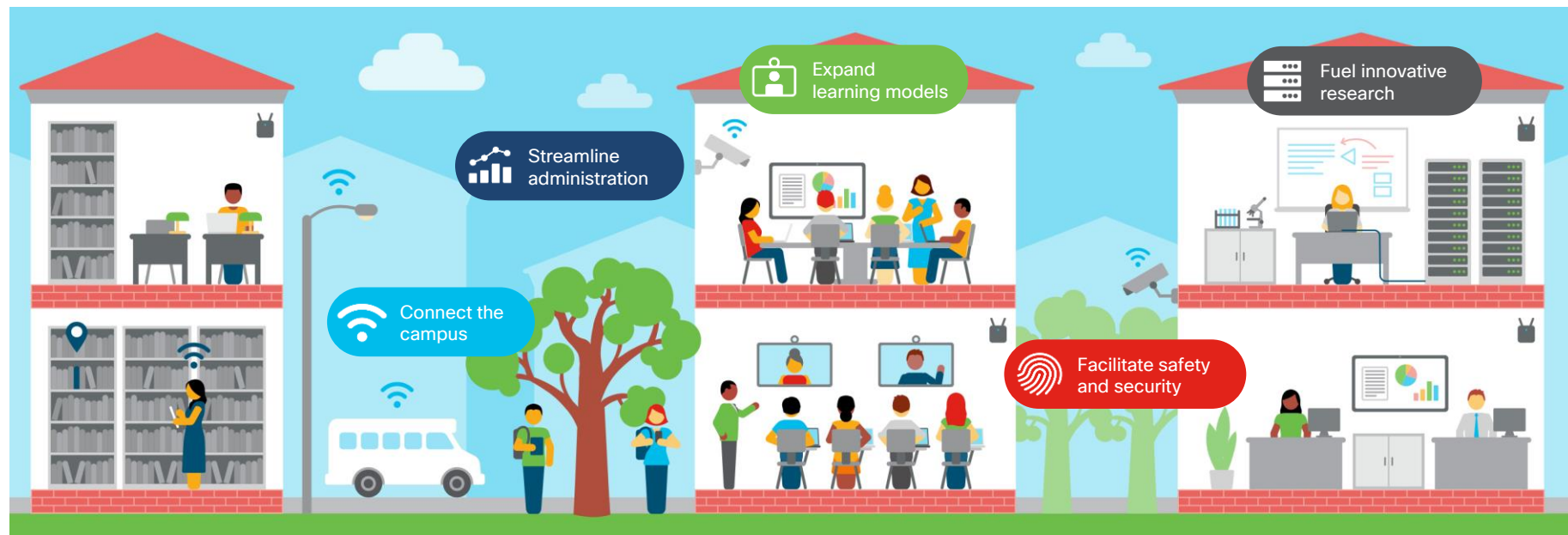
Provide infrastructure and technology to **securely enable distance learning, administrative decision-making, and innovation**



Chief Information Officer



# Cisco Education Portfolio Explorer



## Connect the campus

- Campus wireless and connectivity
- Mobile experiences and location services
- Smart campus and automation



## Streamline administration

- Data-informed operations
- Administrative collaboration
- Student engagement and retention services



## Expand learning models

- Active learning spaces
- Distance learning
- Faculty professional development



## Facilitate safety and security

- Network, endpoint, and web security
- Identity and access control
- Video surveillance and physical security



## Fuel innovative research

- Research collaboration
- High-performance computing
- Research cloud security

**CISCO** *Live!*

<http://cisco.com/go/education>

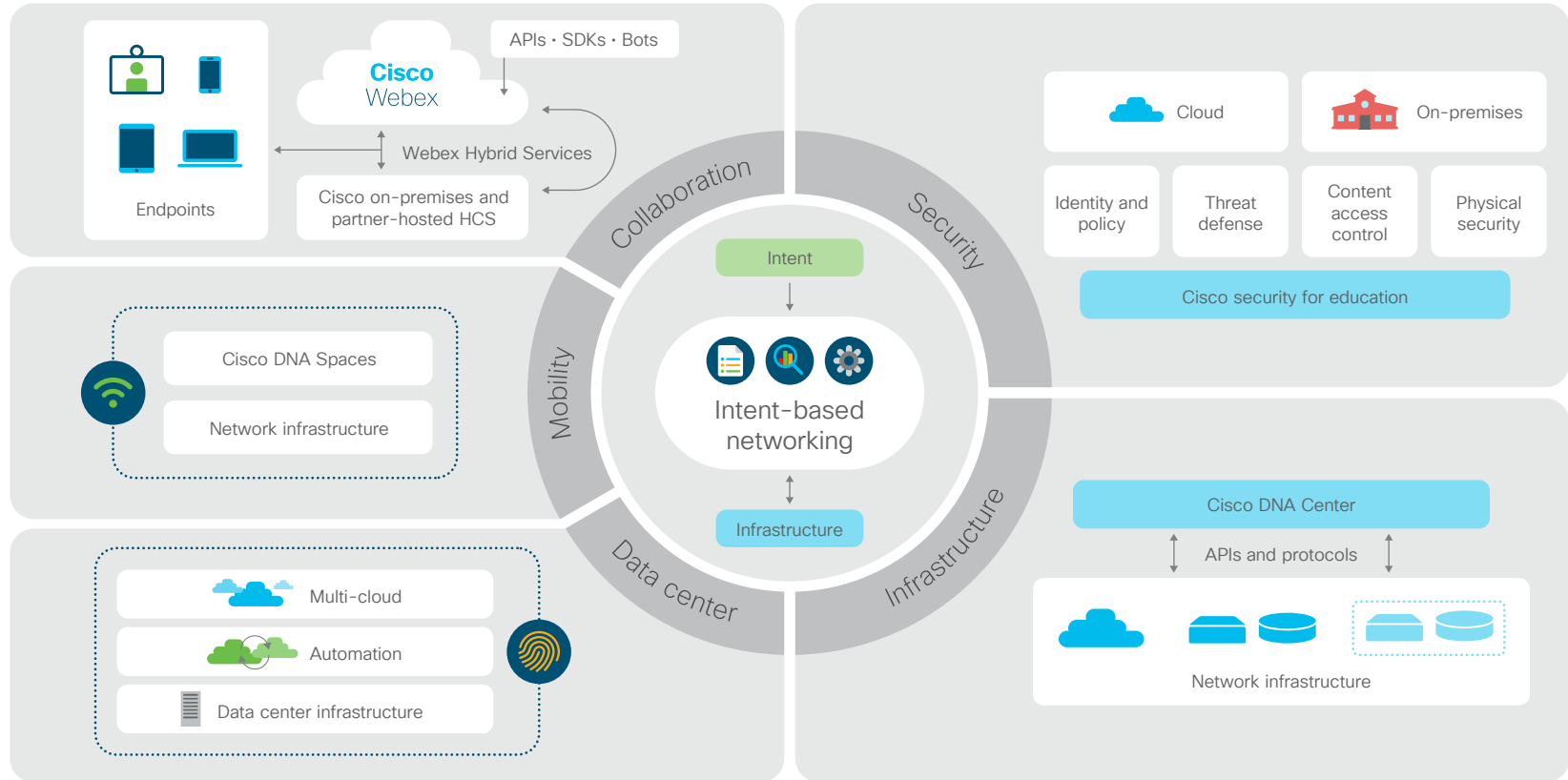
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# Education solution strategy





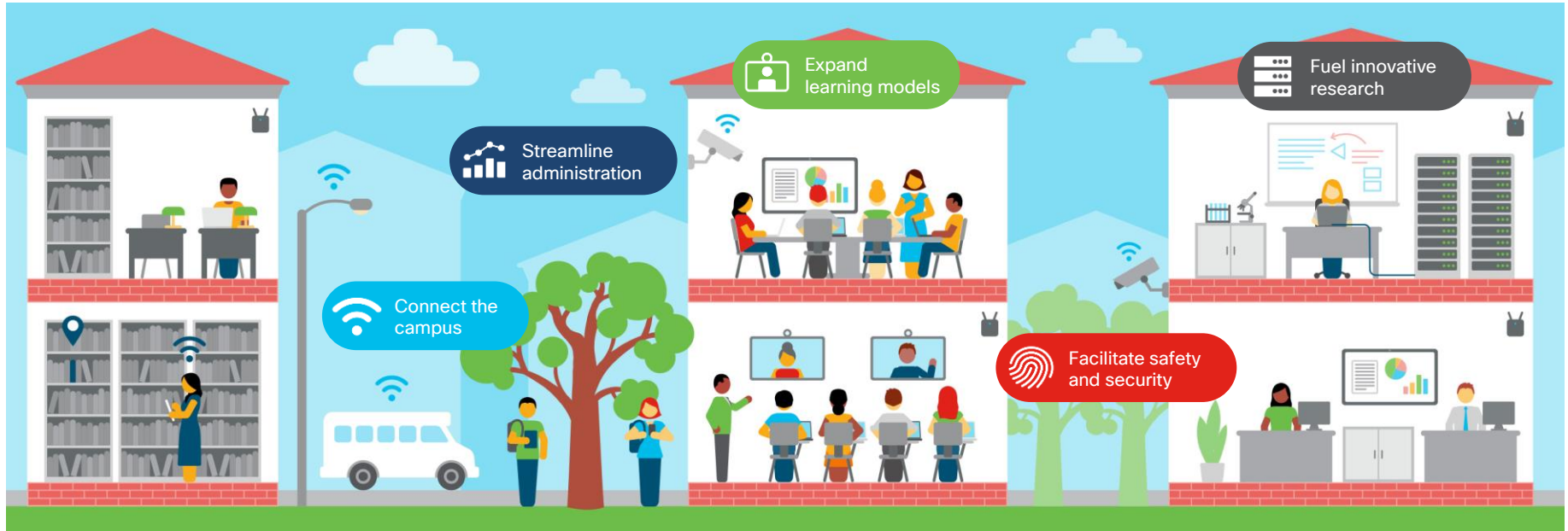
# Teach, learn, and collaborate anywhere and make sure you're secure

- Offer cloud-based online classes and cross-functional collaboration in any location
- Secure your connection through Cisco AnyConnect®.
- Block threats with Cisco Umbrella® as you scale cloud application use
- Integrate our cloud-based collaboration solutions with your learning management system with Cisco Webex® Education Connector

***“No matter what is happening in the world, we believe that it is critical to continue educating the leaders, dreamers, scientists, clinical researches, caretakers, and doctors of tomorrow. That’s why we are passionate about ensuring the continuity of learning through our Cisco education solutions portfolio.”***

Renee Patton  
Director for Healthcare and Education,  
Global Industries Solutions Group, Cisco

# Helping educational institutions today



## Connect the campus

Campus wireless and connectivity  
Mobile experiences and location services  
Smart campus and automation



## Streamline administration

Data-informed operations  
**Administrative collaboration**  
Student engagement and retention services



## Expand learning models

Active learning spaces  
**Distance learning**  
Faculty professional development



## Facilitate safety and security

**Network, endpoint, and web security**  
Identity and access control  
Video surveillance and physical security



## Fuel innovative research

Research collaboration  
High-performance computing  
Research cloud security



# Administrative collaboration

# Administrative Collaboration

Improve administrative processes, including more efficient staff collaboration with secure communication and retention programs.



Collaboration | Security



# Challenges and drivers



Rapidly develop  
new business  
models to help  
stabilize  
financial  
pressure

Improve quality  
and  
efficiency of  
communication  
to speed  
alignment



Drive cross-  
departmental  
collaboration to  
improve  
decision-  
making

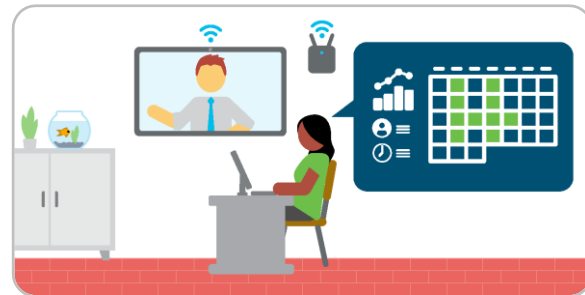
Drive  
continuity of  
learning and  
operations





# Administrative collaboration

Boost your administrators' productivity with collaborative, digital workspaces.



## Industry drivers

- Administrative expectations of campus staff
- Need for consensus-building across campus leadership
- Crisis situational management
- Compliance requirements
- Need for staff training, video broadcasts, and use of technology in teaching and learning
- Time constraints around travel between campuses

## Business needs

- Make meetings more efficient and valuable, less time-consuming
- Improve attendance and engagement at meetings
- Reduce wasted time spent traveling to meetings
- Reduce meetings on same topic
- Improve cross-departmental collaboration
- Improve compliance metrics through better tracking

## Capabilities

- Conduct live video calls with any number of participants from any device
- Record meetings for review and missed participants
- Continue discussion after meeting in secure, private messaging space
- Conduct large-scale video broadcasts (including global)
- Broadcast messages across customized digital signage

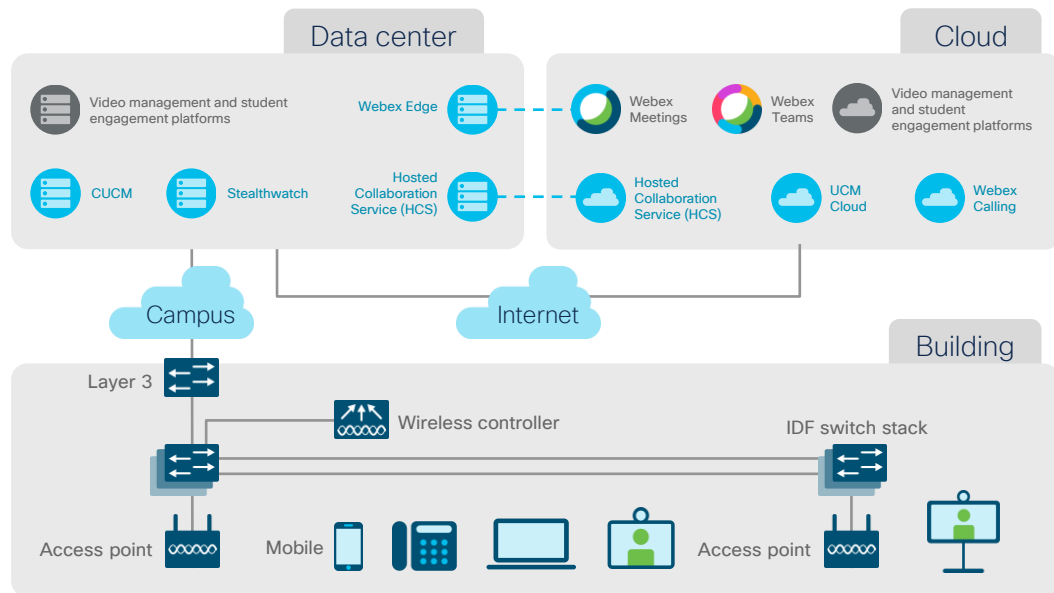
## Business outcomes

- Better administrative decision making across teams
- Streamlined staff training
- Improved meeting attendance
- Elimination of travel time to meetings
- Validated compliance metrics

## Stakeholders

- Chancellor
- President
- Provosts
- CIO
- CBO
- CFO

# Administrative collaboration



## Cisco products

Component
Webex Meetings
Webex Teams
Webex Room Kit, Room Kit Plus, Room Kit Pro
Webex Room Series
Webex Board
Webex Share
Meeting Server
Webex DX80
7800/8800 Series IP Phones
Webex Edge (optional)
Hosted Collaboration Service (HCS)
Webex Calling
Stealthwatch

# Distance learning

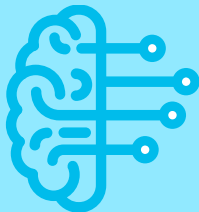
# Distance learning

Give students unlimited access to educational resources, no matter where they are.



Collaboration | Security

# Challenges and drivers



Implement new learning models to drive continuity of learning and flawless learning experiences



Deliver distance learning to reach new kinds of students both on and off campus

Engage virtual experts to enrich and expand learning and student services



Foster faculty collaboration and development to improve quality of learning for students

# Distance learning

Give students unlimited access to educational resources, no matter where they are.



## Industry drivers

- Revenue tied to student completion of degree(s)
- Reach students who may not be able to come to campus
- Some students not interested in frequent trips to campus for class
- Expand breadth of program and course offerings
- Reduce cost of delivering a course
- Serve a more diverse student body
- Improve institutional brand and reputation

## Business needs

- Leverage existing professor expertise across more students
- Reduce student time/cost to travel to campus through remote students
- Expand potential pool of students—remote, continuing education, economically or physically challenged

## Capabilities

- Scale live online courses from one to thousands
- Provide interactive chat, Q&A, and whiteboard during class
- View dozens of live students simultaneously
- Extend large lecture hall to remote lecture halls
- Record and archive course lectures
- Schedule professor office hours inside LMS
- Archive recordings and online chat with files inside LMS

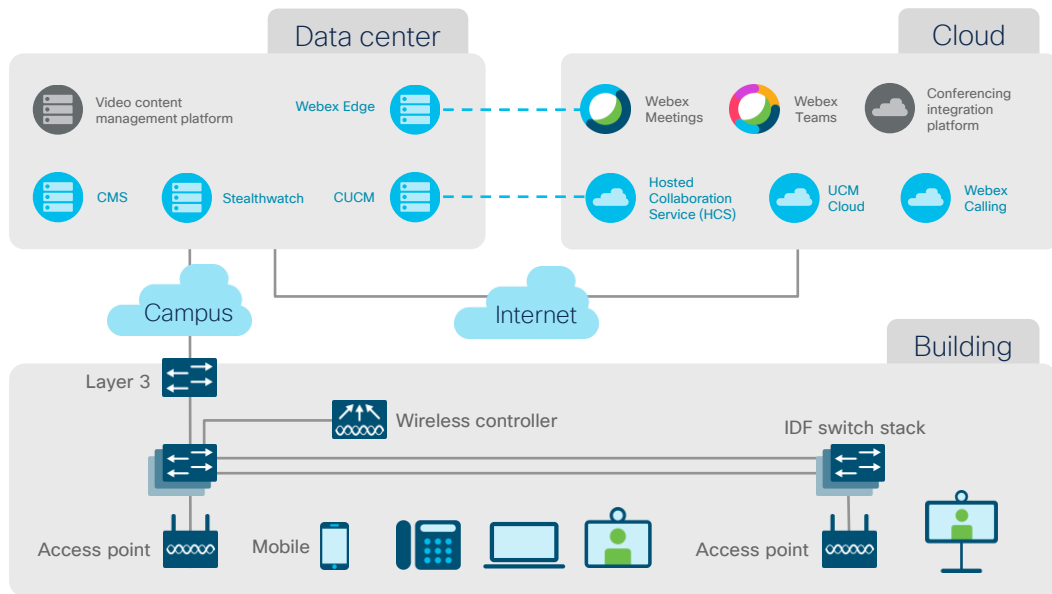
## Business outcomes

- Higher student engagement and satisfaction
- Lower instruction cost per student
- Attract students from other institutions
- Reduced inter-campus transportation

## Stakeholders

- Chancellor
- President
- Deans/provost
- Chief academic officer
- CFO
- CIO

# Distance learning



## Cisco products

### Component

Webex Meetings

Webex Teams

Webex Education Connector (for LMS)

Webex Room Series

Webex Board

Webex DX80

SpeakerTrack, PresenterTrack

Webex Edge (optional)

Stealthwatch



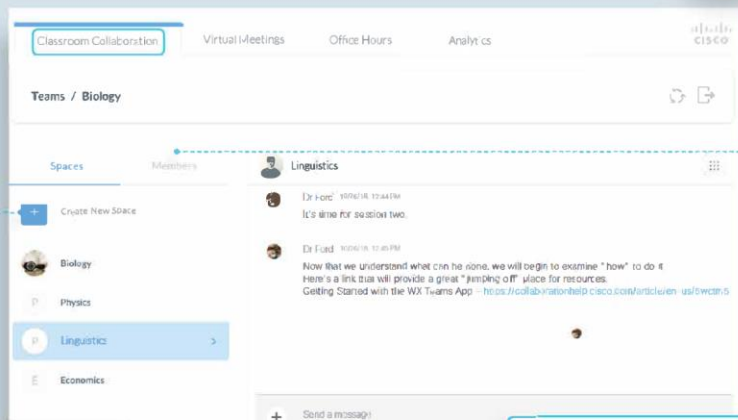
# Education Connector for Teachers

## Classroom Collaboration



Meet where you teach with the Cisco Webex Education Connector integration.

Seamlessly integrate Webex Teams and Webex Meetings into your learning management system.



Invite students from the **Members** tab where they can message over desktop, tablet or phone

## Learning Management System (LMS) Support:


- Canvas
- Moodle
- Blackboard Learn
- Blackboard SaaS
- D2L Brightspace
- Sakai
- Schoology (coming soon)

## Connect your LMS:

<https://www.educonnector.io>

## Learn more:

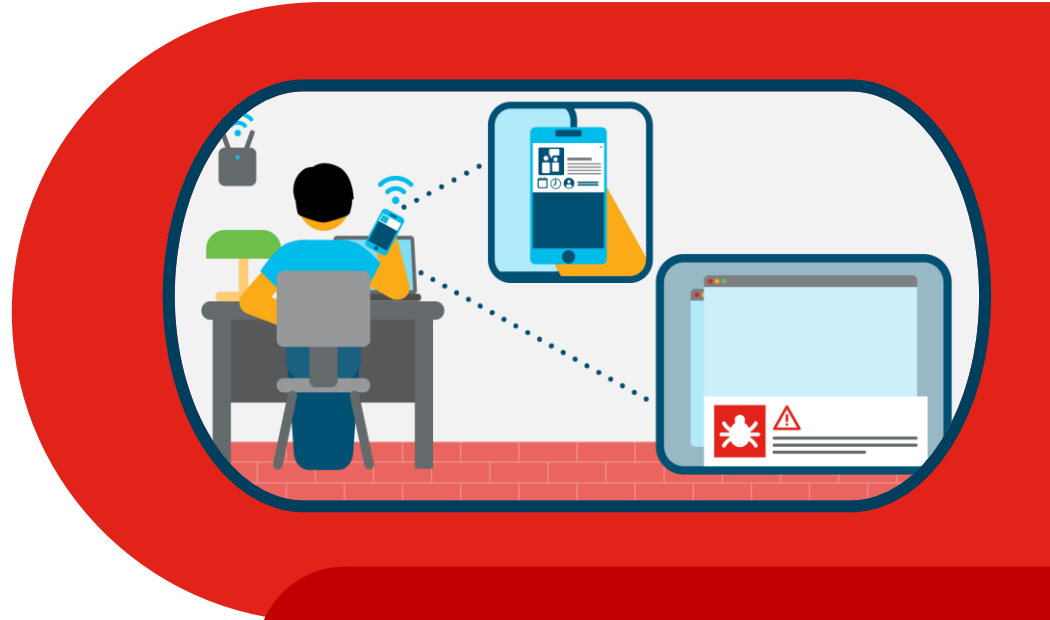
<https://apphub.webex.com/meetings/applications/cisco-webex-education-connector-for-learning-management-systems>



# Network, endpoint, and web security


# Network, endpoint, and web security

Create a safe and secure learning environment by blocking cyberthreats that try to access your network and disrupt learning –on campus or off.




Collaboration | Security

# Challenges and drivers



Protect data  
from cyber-  
attacks

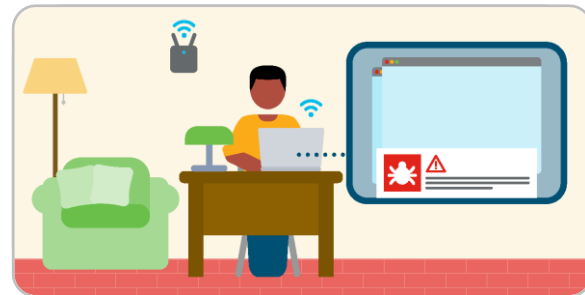
Securely manage  
the multitude of  
faculty, staff, and  
administrative  
devices  
connecting to the  
network



Detect and  
remediate online  
threats to reduce  
harm to  
institutional  
reputation

# Network, endpoint, and web security

Create a safe and secure learning environment by blocking cyberthreats that try to access your network—on campus or off.



## Industry drivers

- Cyber crime is on the rise; universities are target-rich environments
- Nation actors steal university data with coordinated attacks
- Colleges and universities required by law to protect student personal data
- University research data highly valuable
- Reputational damage caused by security breaches

## Business needs

- Effectively and efficiently deploy, manage, secure, and maintain a BYOD environment for students, and sometimes staff, as well as university-owned devices
- Protect university research data while allowing inter-campus projects
- Protect personal student data
- Protect core school or university administrative assets
- Reduce institutional risk of loss

## Capabilities

- Allow student BYOD to be on-boarded effectively
- Detect network traffic anomalies
- Detect malicious behavior from encrypted transmissions without compromising security
- Defend highly sensitive administrative or research devices
- Enable new threat detection quickly
- Extend data protections and monitoring to any campus services, anywhere

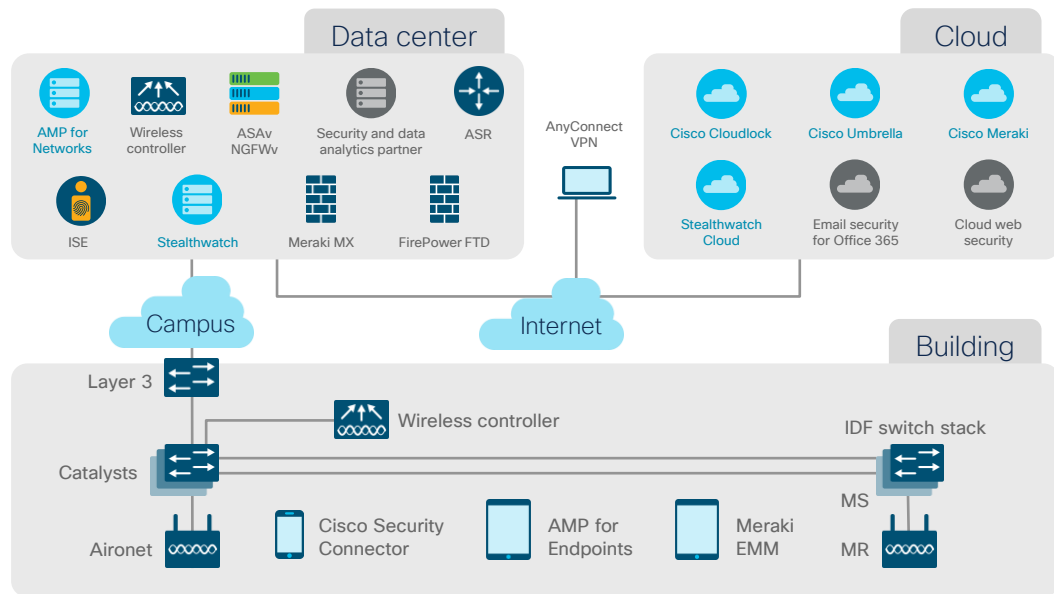
## Business outcomes

- Reduce campus legal issues due to information theft, online crime, etc.
- Increased student availability and use of learning technology in the classroom
- Reduced institutional risk of loss
- Reduced ransomware threat
- Protected school or university reputation
- Increased government/corporate research funding opportunities
- Reduced campus legal issues due to information theft
- Reduce risk of network downtime

## Stakeholders

- Chancellor
- President
- Provost
- Deans
- CIO
- CFO
- CISO

# Network, endpoint, and web security



## Cisco products

Component
Umbrella
Cloudlock
Adaptive Security Appliance (ASA) 5500-X Series with Firepower Services
Firepower Series
Firepower Threat Defense (FTD)
Firepower Management Center
AnyConnect VPN
Stealthwatch, Stealthwatch Cloud
Advanced Malware Protection (AMP) for Endpoints
Security Connector (CSC) for iOS
Email Security for Office 365
Virtual Solutions: Adaptive Security Virtual Appliance (ASAv), Next-Generation Firewall Virtual (NGFWv)
Meraki Security (MX) Series
Meraki Enterprise Mobility Management (EMM)



The background is a solid black field. It is populated with a large number of small, light blue squares and dots. These elements are scattered across the frame, with a higher density in the upper-left and lower-right corners, creating a sense of digital activity or data points.

Success in action





# Success in action

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See how educational institutions securely enable distance learning, administrative collaboration, and cybersecurity

# Shawnee Mission School District

Johnson County, Kansas  
31,800 students and instructors

Shawnee Mission School District is using collaboration technology to securely empower teachers, connect classrooms, engage parents, and enable the next generation to learn and think differently with digital experiences.



Use cases:

- Administrative collaboration
- Distance learning
- Network, endpoint, and web security

*“We want to provide students the opportunities they need to be the people they want to be. The Webex tools that we use provide them chances to see things that maybe they wouldn’t see otherwise”*

*– Drew Lane, Executive Director of Information & Communications Technologies, Shawnee Mission School District*

## Education customer story



### Challenges

- Traditional, centralized IT model
- Lack of collaboration capabilities
- Inefficient meetings tools
- Limitations to learning caused by outdated technology

### Solution

- Cisco Webex Meetings
- Cisco Webex Board
- Cisco Webex
- Cisco Unified Communications Manager
- Cisco IP Phone 8800

### Outcomes

- Change management program facilitated for employees
- Maximized staff resources
- Personalized and individualized real-time learning
- Higher parent and student engagement inside and outside school hours
- New opportunities for teachers to expand the classroom and continue educating as distance learning grows in importance

# Open Access College

📍 Australia  
👤 200 staff and 2,500 students

Open Access College provides lessons remotely not only to cut costs, but also to create an agile, more connected learning environment.



Use cases:

- Administrative collaboration
- Distance learning

“*Though digitization, we’re able to innovate and be more agile in the way we deliver education to remote areas.*”

– Julie Taylor, Principal, Open Access College

**CISCO** *Live!*

## Education customer story



### Challenges

- Improve access for students no matter where they are
- Enhance education delivery and improve the learning environment
- Better enable staff and administrative collaboration
- Need to lower costs



### Solution

- Collaboration solutions enable distance learning and administrative collaboration
- Networking solutions to provide the foundation of the network securely

### Outcomes

- Increased agility to meet future course enrollment needs
- Reduced annual phone costs by more 96% with connected network learning
- Achieved a tenfold increase in enrollment over five years for statewide language classes

# Lewisville Independent School District

 Lewisville, Texas  
 59,000 students and staff

Lewisville Independent School District worked to safeguard students and staff at scale.



Use cases:

- Network, endpoint, and web security

“ The combination of Umbrella and Firepower NGFW enable us to proactively block threats we weren’t blocking before, troubleshoot faster and easier, and know with unprecedented specificity how we’re protecting our students against threats, so they can concentrate on acquiring the skills and knowledge they’ll need after graduation. ”

– Chris Langford, Director of Network, Infrastructure, and Cyber Security

## Education customer story



### Challenges

- Safeguard students and staff members from unsuitable content and threats
- Provide enterprise-level security on a school-friendly budget
- Improve security visibility and ratings

### Solution

- Cisco Umbrella
- Cisco Firepower 4150 Security Appliances
- Cisco AMP for Endpoints
- Cisco Identity Services Engine (ISE)
- Cisco Cloud Email Security
- Cisco Stealthwatch

### Outcomes

- Cut remediation time by 50 percent
- Improved BitSight score by 110 points
- Significantly decreased command-and-control and phishing traffic

# Conclusion

# Keep in touch



## Cisco Education

Explore solutions, case studies, videos, and more

[cisco.com/go/education](https://cisco.com/go/education)



## Education Portfolio Explorer

Discover how technology architectures work together to deliver use cases

[cs.co/educationportfolio](https://cs.co/educationportfolio)

Thank you





# Possibilities

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