



# 协作空间转型-创建一个别样的工作空间

思科大中华区统一通信与协作事业部

郑纪运

2019.12

# 虚拟会议趋势



现代会议

虚拟，可视，无处不在\*  
(Wainhouse)



视频会议的增长

97%的用户使用视频会议比  
两年前更多\*  
(Wainhouse)



在大房间里无处不在

85%的大型会议室配有视频  
会议系统\*  
(Nemertes)



移动用户的增长

远程加入和与Web会议服务  
集成非常重要\*  
(Nemertes)

\*References in notes pages

# 标准化体验

无论您在哪里工作，无论您怎么工作都简单，快捷



# 一致的会议体验

无论使用哪种设备



会议室



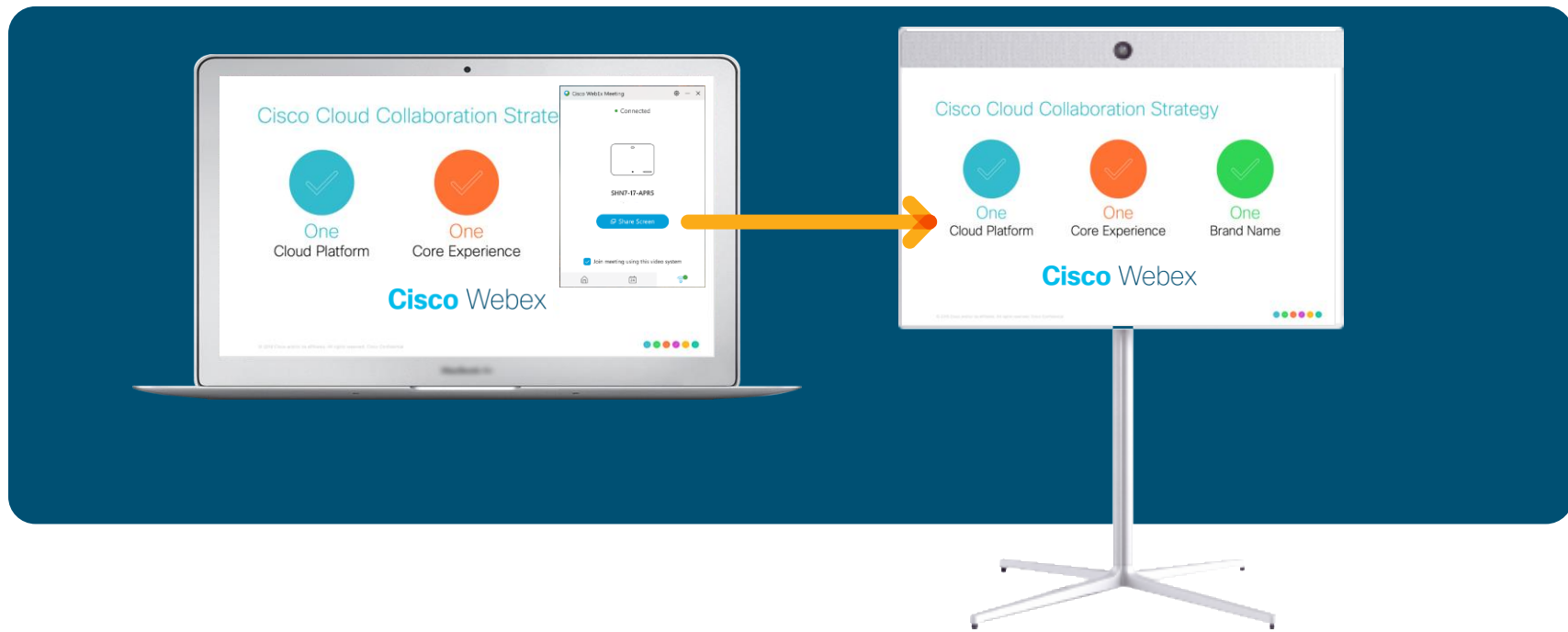
桌面



移动设备

# 直观而富有影响力的会议

直观而智能化的会议检测功能，连接到您的视频设备，使用Cisco Proximity进行无线共享和控制

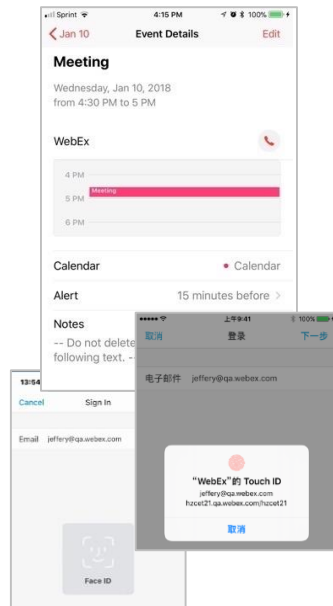


# 全新的移动会议体验

## 平等的参会模式

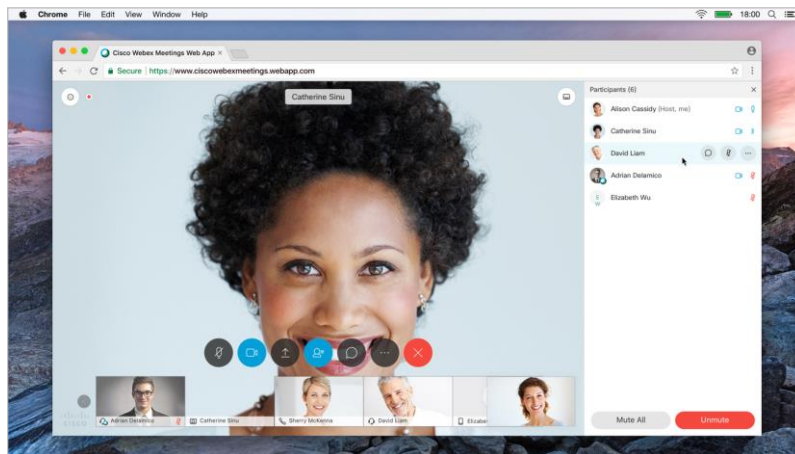
- 优化视图以缩小屏幕尺寸
- 支持会议控制和管理
- 简单的会议调度
- 适应嘈杂的环境
- 方便快捷的入会方式

*\* For Cisco Webex Meetings only*



# 任何人都可以轻松访问 业界最全面的会议Web应用程序

- 不需要下载应用程序或者插件
- 可以直接通过浏览器主持或者加入会议
- 完整的功能:
  - 视频和语音
  - 内容和程序共享
  - 直观而集中
  - 会议控件和聊天
  - 基于WebRTC技术





智能化设备适用于各种空间和工作方式





# 重塑会议体验

将Cisco Webex扩展到任何视频设备以获得集成体验



硬件 + 软件 = 重塑会议体验

# 智能化会议集成化终端- Room kit 系列

# 介绍思科全新一代**紧凑型**会议室解决方案



# 智能化全景——提供最清晰的沟通画质

自动判断与会者

选择最佳的捕捉范围



最佳全景

# 内容分享 (无线/有线)

自建模式/云端



4K 内容共享

30 帧/秒

# 小空间，大视野！

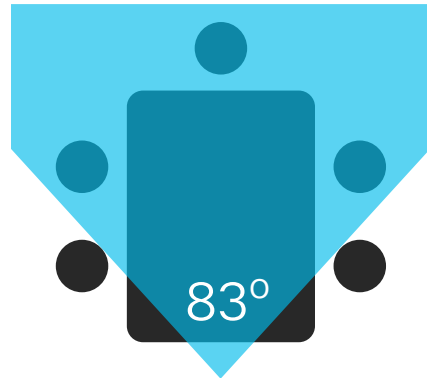


Room Kit Mini: 120° 水平广角

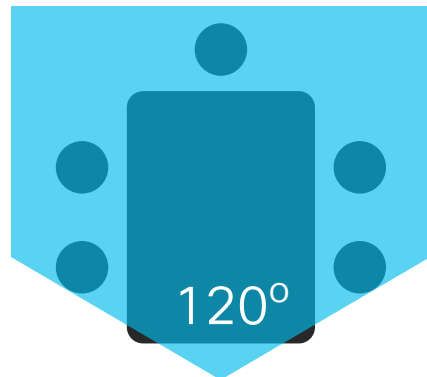
捕捉坐在屏幕附近的与会者

为小型会议室设计

大多数会议室中的镜头



Room Kit Mini



# 最佳音频体验

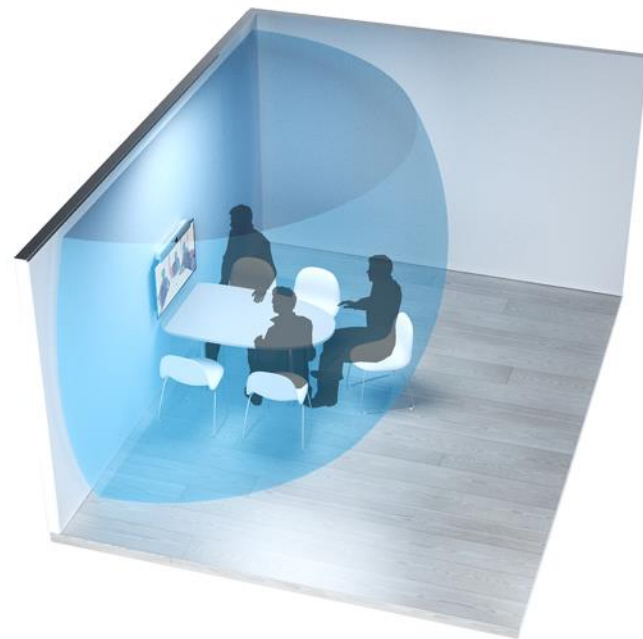


## 指向性麦克风阵列

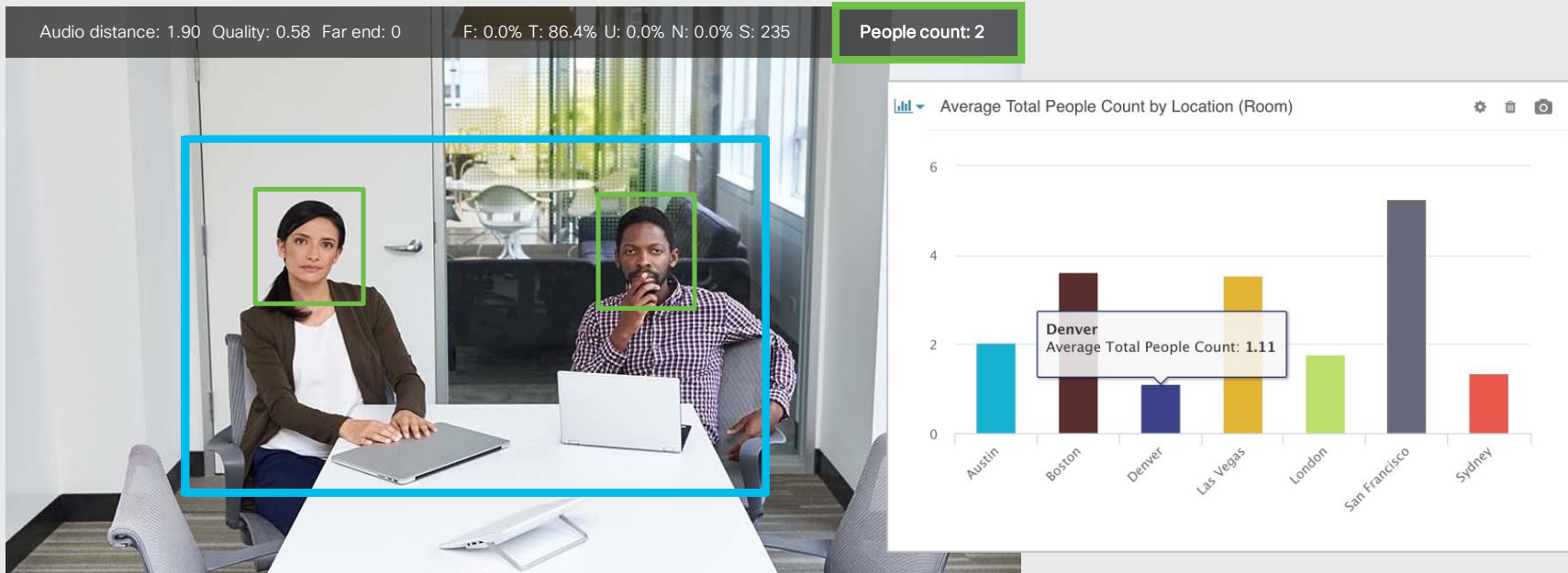
Beam forming – 波束成形技术  
120° 声音采集范围

降低背景噪音

内置高保真扬声器系统



# 诊断和分析能力 (依赖于ISV集成应用程序)





# 智能化一体机- Webex Room系列





# 智能电子白板 - Cisco Webex Broad 系列

# 今天的协作办公会议室

Attractive Portfolio of Core & Growth Businesses - ATK

FY11 Sales by Customer

Portfolio Attributes

- Leading positions in core markets
- Significant backlog
- Well aligned with customer priorities
- Primarily consumable products
- International & commercial opportunity

Successfully Diversifying ATK's Business Mix



One page week

As you see, 20 essential things you use the whole or most of week here



# Cisco Webex Board



# 三合一的协作产品



## 无线双流共享设备

Share your presentations and documents on the Cisco Webex Board's 4K UHD screen.



## 电子白板

Create, draw and whiteboard on a blank canvas or any document. The content is saved instantly in a Cisco Webex Teams space.



## 视频会议系统

Cisco Webex Board adjusts automatically to participants' position and speaking volume for an ideal meeting experience.

# 智能化认知型协作



# 定义认知型协作

协作环境中的 人工智能-AI 和 机器学习-ML



计算机视觉  
Computer Vision

面部、手势以及  
对象识别



音频和语音技术  
Audio & Speech  
Technologies

噪音检测  
语音整合



多模式机器人和助手  
Multi-modal Bots &  
Assistants

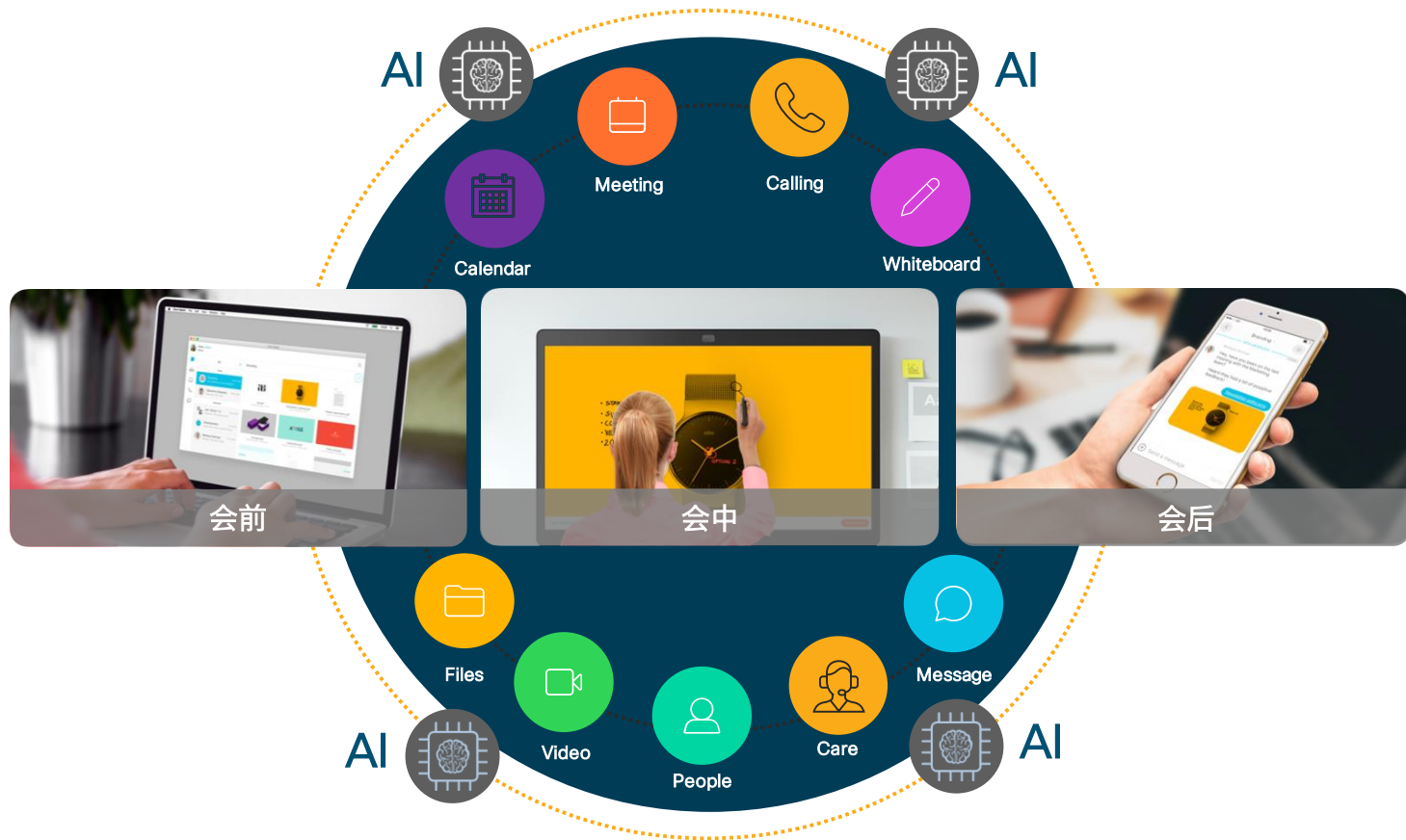
协作助理  
客户关怀助理



智能关系  
Relationship  
Intelligence

个人档案  
公司信息

# 我们的愿景，实现更美好的团队协作



# 协作技术的AI构建

高级机器学习  
Machine Learning

具备GPU  
加速的硬件

场景和物体检测

实时人脸识别

音频处理和  
噪声监测

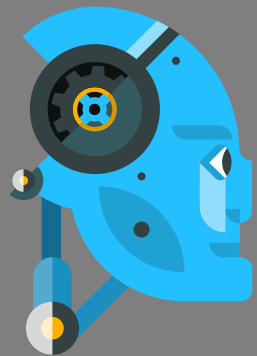
语音识别和  
语音合成

自然语言理解

对话式AI

# 机器学习与传统软件开发的不同

## 训练模型



Training Data →

Output →



## 机器学习

Live Data →

Model →



→ Output

微调 and 进一步训练模型

# 为所有人提供更智能，无缝的会议体验

在整个协作过程中，智能化无处不在

People Insights

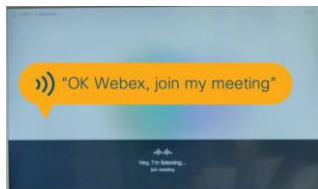
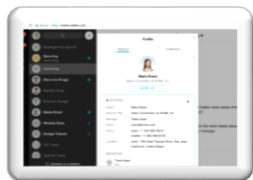
Proximity  
Pairing

Webex  
Assistant

In-Room  
Analytics

Recording &  
Diagnostics

Transcription  
Services



会前

会后

Facial Detection  
& Face Recognition

Webex  
Assistant

Intelligent Framing  
& Speaker Tracking

Noise Detection  
& Suppression

People Insights



- ))) schedule our next meeting
- ))) show the News
- ))) ask NOC to create a ServiceNow Ticket based on these issues

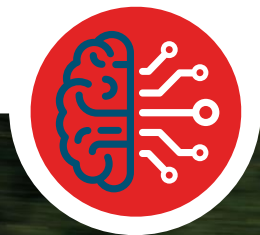


会中

# 计算机视觉

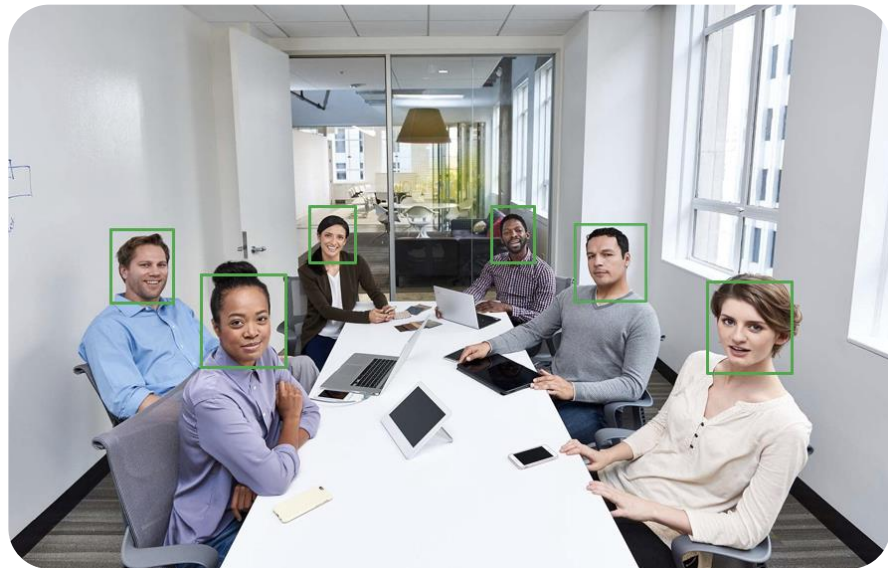


# 强大的AI人工智能平台





传感器



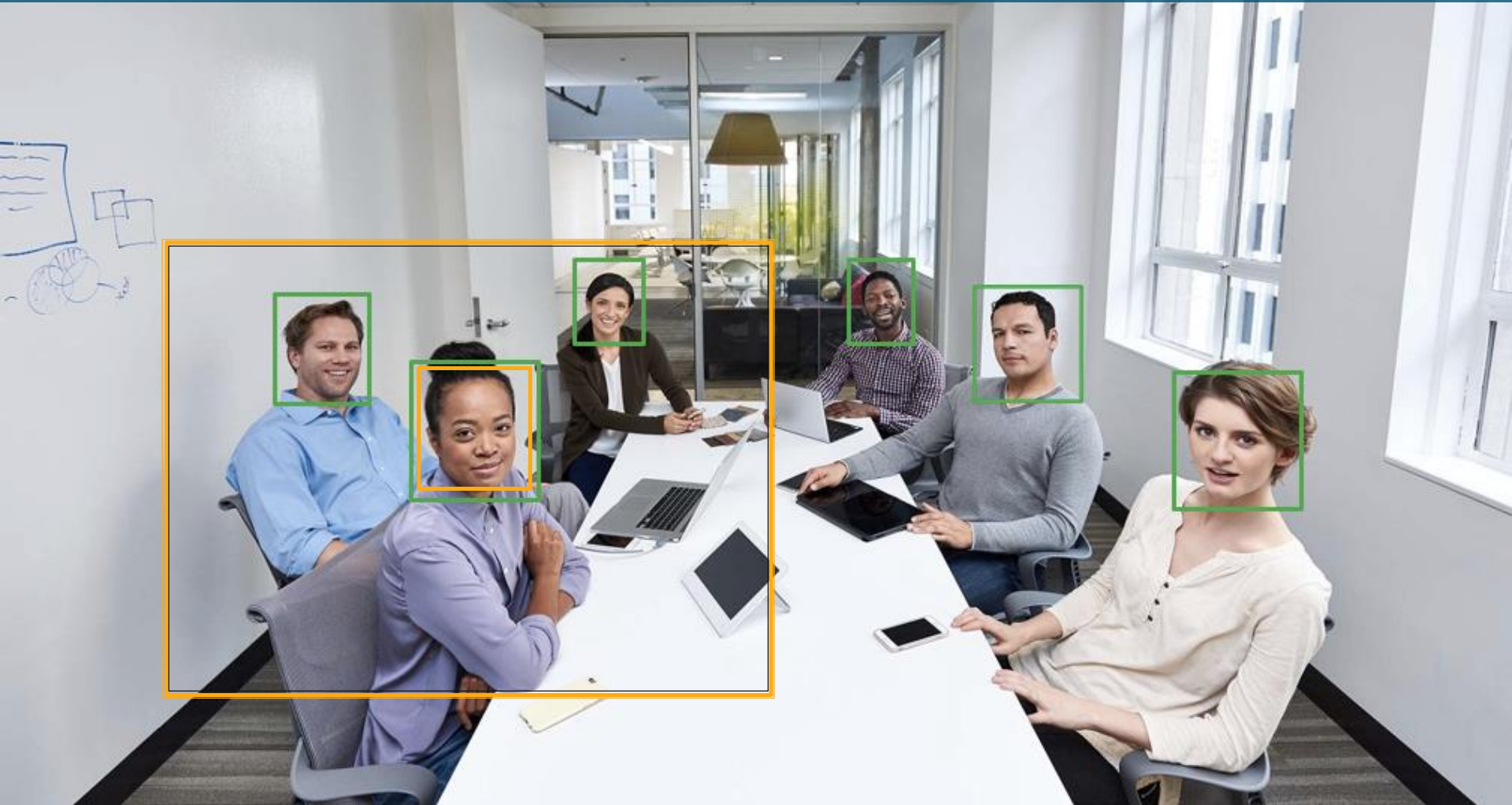
面部检测



Audio distance: 1.90 Quality: 0.58 Far end: 0

F: 0.0% T: 86.4% U: 0.0% N: 0.0% S: 235

People count: 6





John

Alicia

Addy

Rui

Andre

Dyan

# 思科终端了解你是何人



📍 Cisco Webex Room Kit

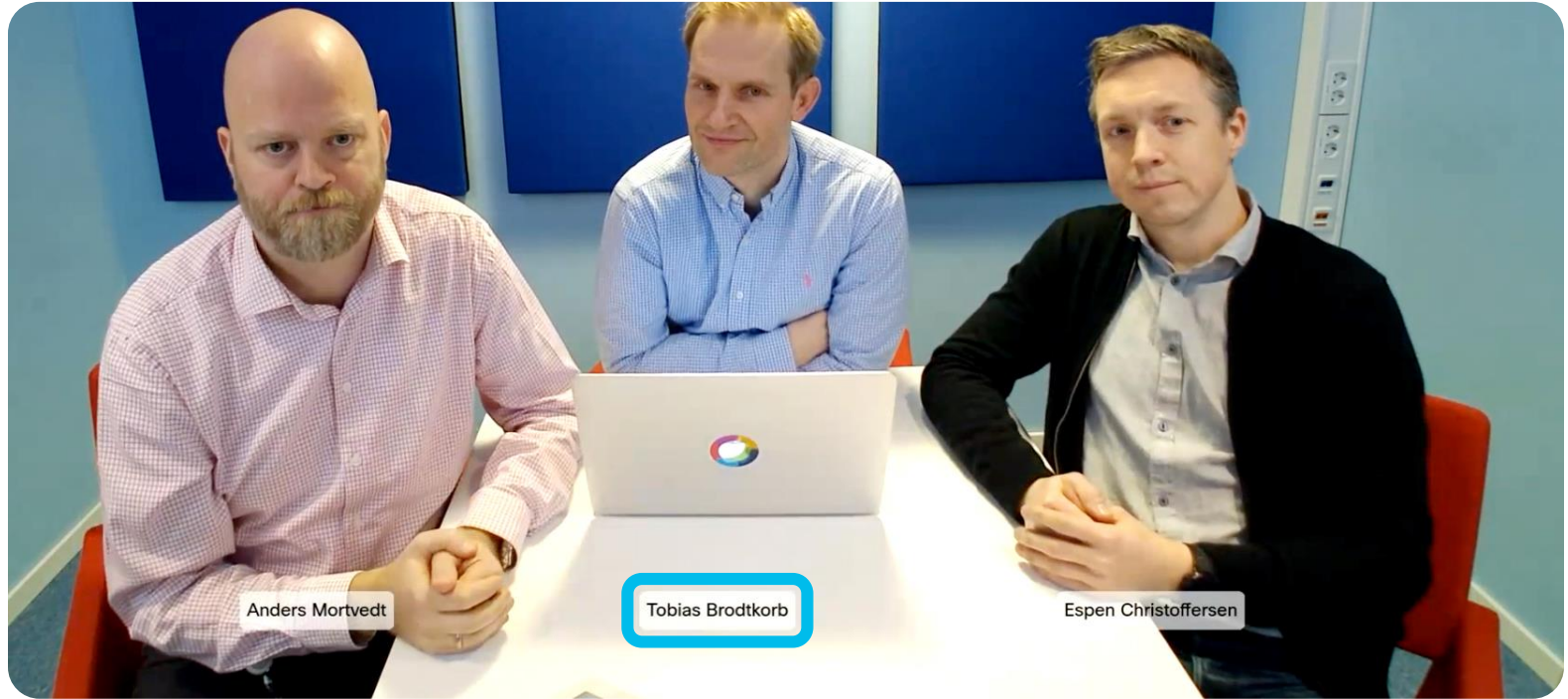
11:21

Hi Peter

Tap the touch panel, or start an activity from the Webex Teams app



# 及时了解发言者是谁



Anders Mortvedt

Tobias Brodtkorb

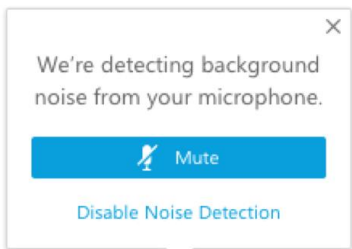
Espen Christoffersen

# 声文识别



# 会议中的噪音检测/抑制

## 检测和分类非人为噪声



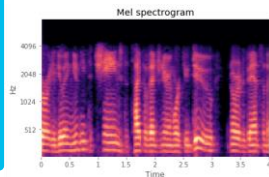
Alison Cassidy (Host, me)



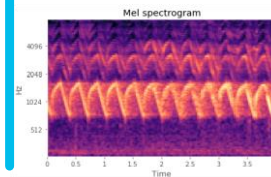
告警提示：“检测到噪音”  
告警信息“这个噪音好像是键盘”  
允许用户忽略到某些类型的噪音  
一旦检测到噪音可以自动静音



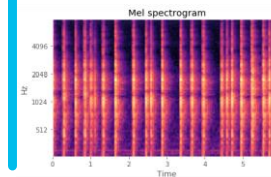
语音



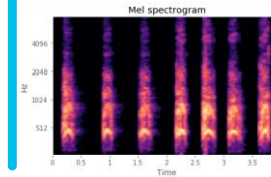
警笛



键盘音



狗吠



# 协作助手





# 智能会议助手 Webex Assistant





“Ok Webex, join the meeting”



# 关系智能化



# Evolution of people profiles help drive better engagement

## External Profile

—维数据  
静态/固定的信息



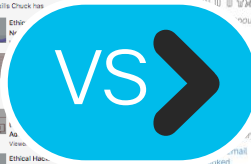
**Master Design Thinking - Earn a Design Thinking Certificate from Cornell, 100% Online, Apply Now!**

**Chuck Robbins** • 2nd  
Chairman and CEO at Cisco  
Los Gatos, California

**Highlights**  
6 Mutual Connections  
You both work at Cisco

**Articles**  
Leadership Discussion with John Chambers and Chuck Robbins

**Experience**  
Cisco  
8 yrs 4 mos  
Chairman and CEO  
Dec 2017 - Present · 1 yr 4 mos  
CEO  
Jul 2015 - Present · 3 yrs 9 mos  
SVP, Worldwide Field Operations  
Dec 2012 - Jul 2015 · 2 yrs 8 mos



**Chuck Robbins**  
Chief Executive Officer at Cisco Systems Inc.

**ADVISORIES**  
• Chuck is involved with these boards: Cisco Systems, Inc., BlackRock, Inc., Ford Foundation, U.S.-Japan Business Council  
• Chuck had the most articles in the past year (32) on 06/19/2018 (Business leaders speak out against child separation policy)  
• Chuck's company BlackRock, Inc. (Independent Director) had a recent news spike with 34 articles on 01/22/2019 (BlackRock plans environmentally conscious money market fund: filing)

**BIOGRAPHY**  
Charles H. Robbins is an American businessman. He is the chairman and chief executive officer of Cisco Systems, the American manufacturer of networking hardware. Robbins was born in Grayson, Georgia. He was educated at Rocky Mount High School in Rocky Mount, North Carolina. In 1987, he received a bachelor's degree in math from the University of North Carolina at Chapel Hill. For his latest after-education, he worked for an association headquartered in North Carolina National Bank. Robbins Read more

**PUBLICATIONS AND VIDEOS**  
youtube.com  
Cisco CEO Robbins Sees High Degree of Optimism Among CEOs  
youtube.com  
Cisco CEO on Tech Industry, Tariffs, Cybersecurity  
youtube.com  
Cisco Partner Summit Recap: CEO Chuck Robbins Discusses

**RECENT NEWS ABOUT CHUCK**  
cnc.com Mar 11, 2019  
OPEC's supply cuts have some traders exploring optimism in oil  
cnc.com Mar 11, 2019  
NASA increasing funding, looking to colonize moon by 2028 - CNBC  
cnc.com Mar 11, 2019  
'Here are the 'headwinds' Coca-Cola CEO James Quincey sees for the company  
cnc.com Mar 11, 2019  
'Cautiously comfortable,' says Bloomer Brands CEO  
cnc.com Mar 11, 2019  
'Here are the 'headwinds' Coca-Cola CEO James Quincey sees for the company  
cnc.com Mar 11, 2019  
Sen. Murkowski on America's energy future  
cnc.com Mar 11, 2019  
'Here are the 'headwinds' Coca-Cola CEO James Quincey sees for the company  
cnc.com Mar 11, 2019  
Chuck Robbins on Q2 results, SG, China trade and much more Spirit Airlines  
cnc.com Mar 11, 2019  
Chuck Robbins on the Q2 results, SG, China trade and much more Spirit Airlines

**MEETING HISTORY**  
Missing your meeting history? Confirm that your calendar accounts are linked

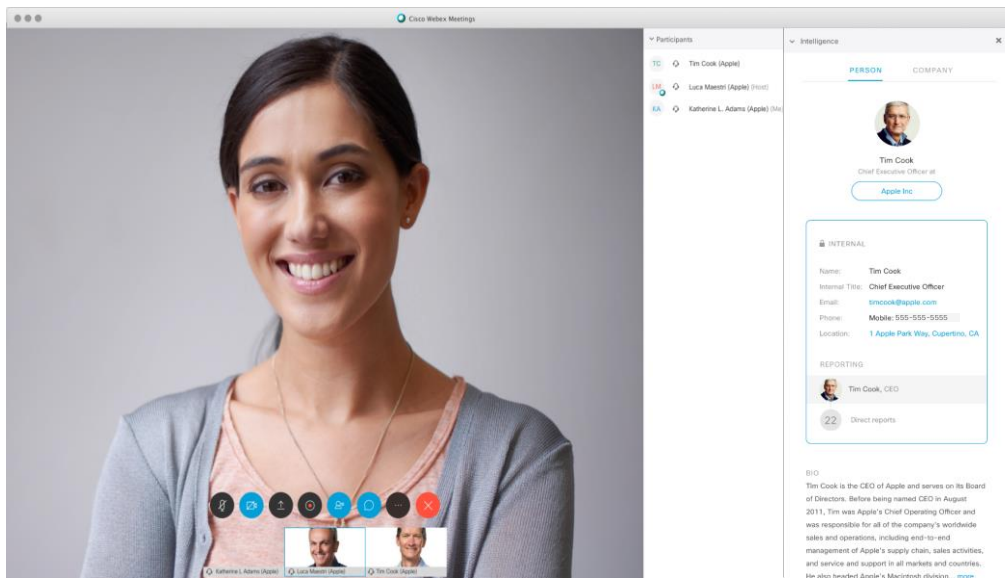
**NEWS ACTIVITY LAST 12 MONTHS (show summary)**  
Mar 9 2019 2 articles  
americamilitary.com  
Cisco CEO suggests fears of 'China shock' are 'F.T.  
socialworker.com  
Look who's ready to fight

**SOCIAL** @chuckrobbins

## People Insight

多维，动态  
深入情景

# Personalization: Webex 人物洞察



4 了解会议中相关公司和人员的更多信息



3 自己管理个人信息-您可以随时编辑/开启/禁用个人信息显示



2 在您的会议中, 查看同事在企业通讯录上的详细信息



1 Webex从公开的资源中收集信息, 并为您构建丰富的个人资料

