Wireless Global Congress
Wireless Broadband Alliance

Network X by informa

WGC EMEA

OCT 12 – OCT 15

Wi-Fi Innovation: Connecting Our Digital World

VIENNA CONGRESS AND CONVENTION CENTER (VIECON)

#WGCEMEA | #wifirevolution | #lovewifi



Wireless
Global Congress
EMEA



Tiago Rodrigues

President & CEO, Wireless Broadband Alliance

Welcome Opening Address

Wireless
Global Congress
EMEA

WIRELESS BROADBAND ALLIANCE KEYNOTE SESSIONS



Wireless Global Congress
Wireless Broadband Alliance

WGC EMEA Sponsors

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Wireless
Global Congress
Wireless Broadband Alliance

Time	Presentation
9:00 AM	**Welcome Opening Address** Tiago Rodrigues – President and CEO, Wireless Broadband Alliance
9:10 AM	**Converged Venue Connectivity: From Strategy to Deployment** Sean O' Leary, Senior Director of Product Management, Boingo Wireless
9:30 AM	**The Now Meets the Future in Access. What AI demands of Wi-Fi, and what AI can do for Wi-Fi** Matt MacPherson – Wireless CTO, Cisco
9:50 AM	**Autonomous Intelligence for the Connected Home** Metin Taskin – CEO & Co-Founder, Airties
10:10 AM	**Wi-Fi's Next Era: Reliable. Aware. Intelligent** Dr. Necati Canpolat – Snr Staff Wireless Systems Architect, Intel Corp
10:30 AM	**No More Seams. The Story of Convergence** Dr. Derek Peterson – Board Advisor, Industry Expert
10:40 AM	**NETWORKING COFFEE BREAK**

Wireless Broadband Alliance

WGC EMEA 2026

Welcome Opening Address

VIENNA | 14TH OCTOBER 2026

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2026 Numbers

Wireless Broadband Alliance

21
Projects

+20%
Membership

+50%
OpenRoaming

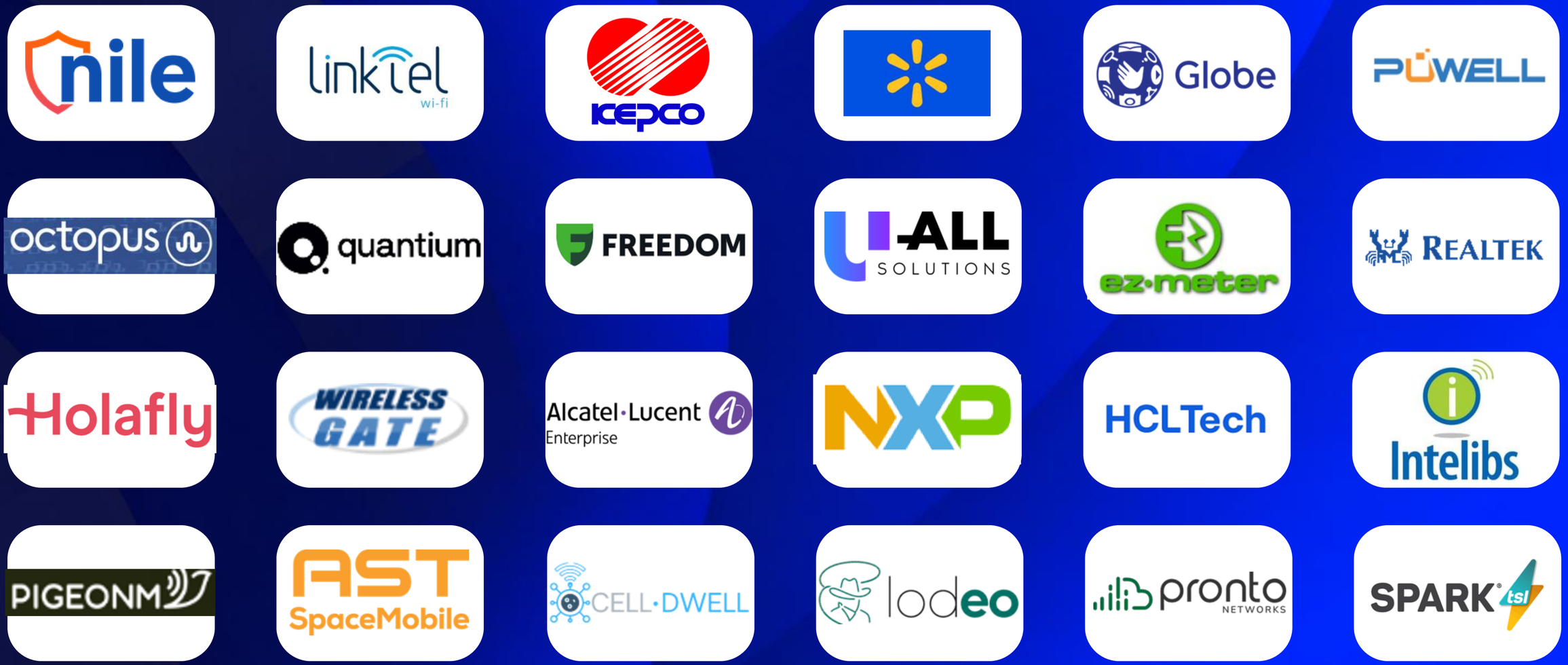
+120%
Market Exposure

+1,250
Unique Participants at WGC

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Welcome New members

Wireless Broadband Alliance



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Program Management Office (PMO) Deliverables

Wireless Broadband Alliance

2026 was a successful year for the programs & projects of WBA







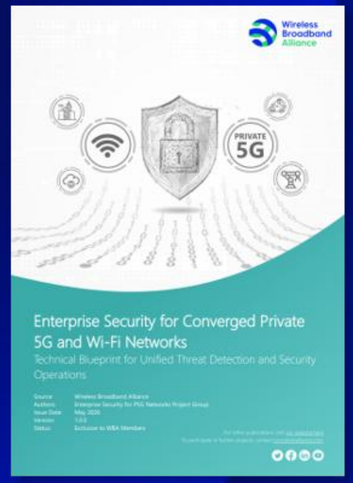


21 Projects

+150 Companies participating









60 Project Leaders

+400 Project Meetings

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21 Programs in 2026

Completed during Q1-Q3 2026

- Access Network Metrics – Phase 3
- Passpoint Features & Profile Format
- Wi-Fi Monetization & Business Models
- Wi-Fi HaloW APAC Trials
- Wi-Fi 7 MLO Trials
- Enterprise Security for Private 5G – Phase 2
- OpenRoaming for IoT & FIDO Alliance Trial
- 6G & Wi-Fi-R Requirements
- Registration Authority Practice Statement
- RADIUS Interoperability Requirements

Upcoming in Q4 2026

- Passpoint Quick Start Guide
- Emergency Warning Systems – Phase 2
- 5G & Wi-Fi Convergence
- WRIX-S Security and WRIX Pack
- EDCA Optimization Guidelines
- L4S & QoS Mechanisms Guidelines
- Operator Managed Wi-Fi Test Plan
- Wi-Fi Design Standard Framework
- Wi-Fi 8
- Post Quantum Cybersecurity
- MDU Smart Living

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Access Network Metrics
Real-time Wi-Fi QoS

Wireless Broadband Alliance

Real-time visibility into Wi-Fi performance for secure, seamless experiences

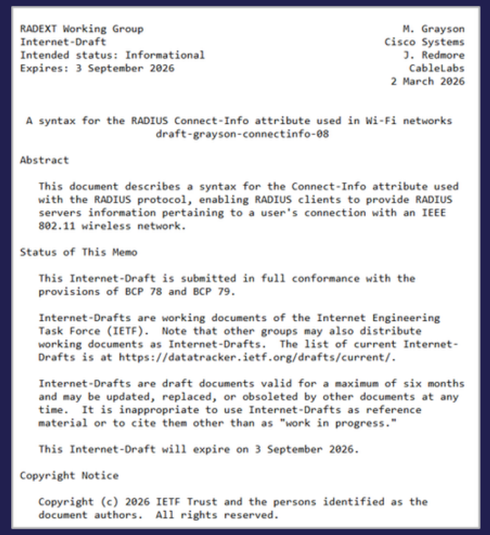
CONNECT-INFO
(RADIUS Attribute)

Real-time Wi-Fi metrics at authentification

Enables dynamic policy (devices & IDPs)

IETF review by Q3 2026

Foundation for smarter, adaptive networks



RADEXT Working Group
Internet-Draft
Intended status: Informational
Expires: 3 September 2026

M. Grayson
Cisco Systems
J. Redmore
CableLabs
2 March 2026

A syntax for the RADIUS Connect-Info attribute used in Wi-Fi networks
draft-grayson-connectinfo-08

Abstract

This document describes a syntax for the Connect-Info attribute used with the RADIUS protocol, enabling RADIUS clients to provide RADIUS servers information pertaining to a user's connection with an IEEE 802.11 wireless network.

Status of This Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

Internet-Drafts are working documents of the Internet Engineering Task Force (IETF). Note that other groups may also distribute working documents as Internet-Drafts. The list of current Internet-Drafts is at https://datatracker.ietf.org/drafts/current/.

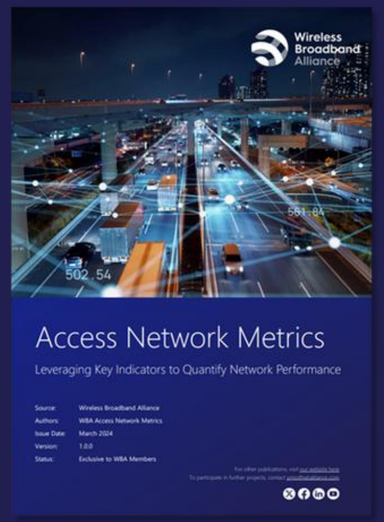
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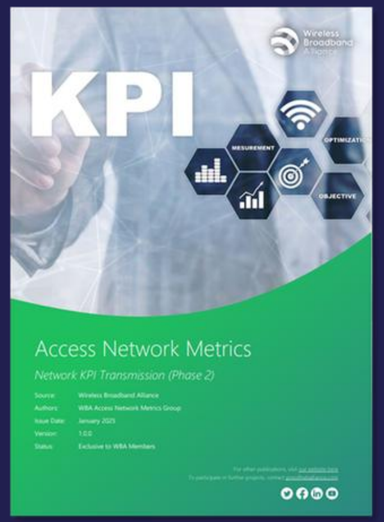
This Internet-Draft will expire on 3 September 2026.

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Real-time Wi-Fi 6 QoS metrics
Capture performance data at authentication for immediate visibility.

Dynamic policy enablement
Use metrics to enforce smarter access and security policies.

Standards alignment
IETF review result by Q3 2026 to drive industry adoption.

Stronger user experience
Build the foundation for adaptive, high-performing Wi-Fi networks.

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6G Framework: path for convergence

Wireless Broadband Alliance

Objective: make Wi-Fi integration on 6G framework easier – for augmenting coverage and capacity with seamless, secure Wi-Fi and real-time QoS

From WBA requirements to deployable convergence

1 Vision

6G & Wi-Fi position aligned through WBA



2 Requirements

6G & Wi-Fi work group requirements defined



3 3GPP & Coalition

Operators, vendors, cable, chipset & device ecosystem



4 2027 Execution

Concrete 3GPP inputs + operator PoCs / trials



Work done

- **WBA 6G & Wi-Fi requirements position established**
- **3GPP liaison / Madrid engagement used to build channel**
- **Technical anchor: non-3GPP access, Passpoint/OpenRoaming, Qos**

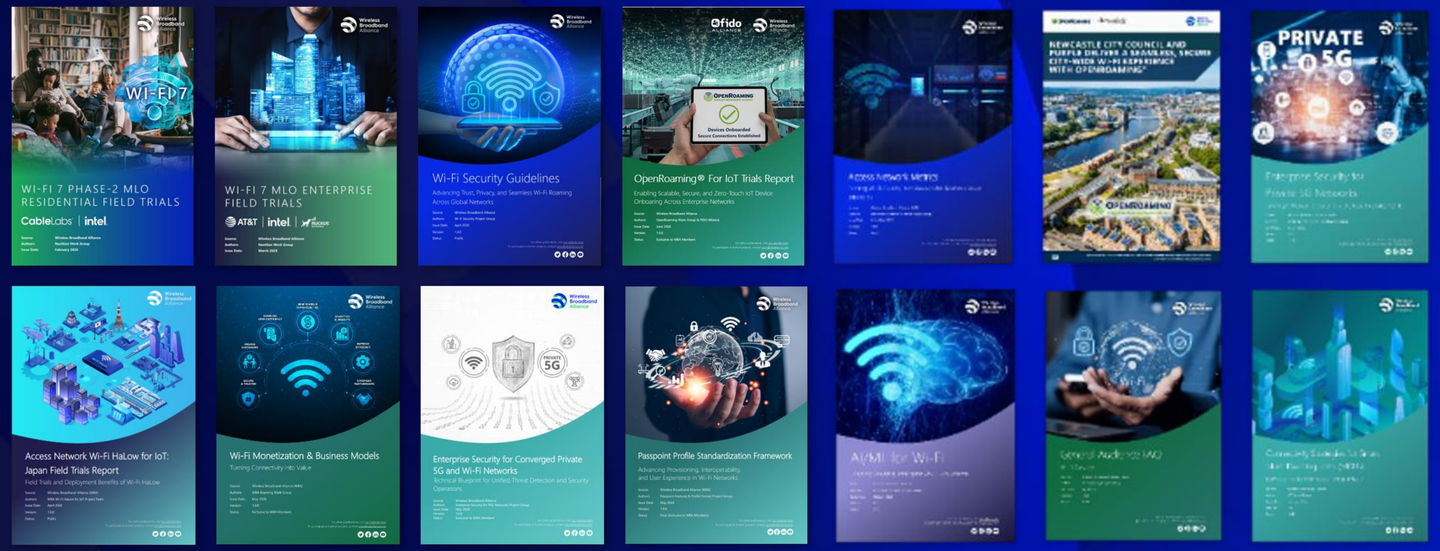
Next steps

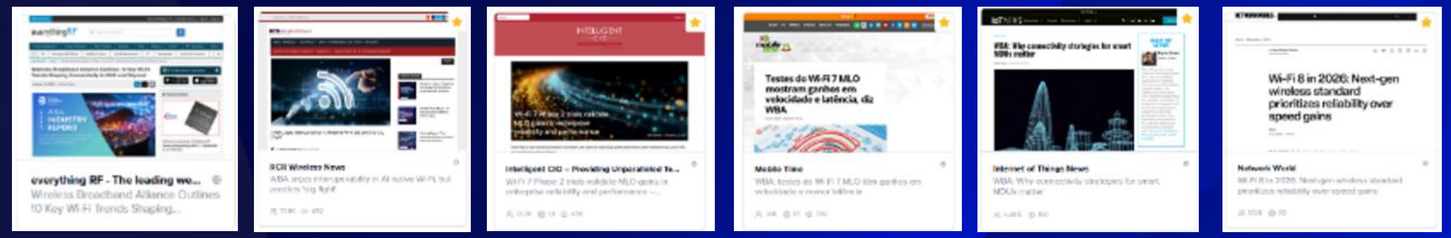
- **Convert requirements into concrete 3GPP inputs**
- **Align member coalition around SA2 / KI#11 work**
- **Launch 2027 PoCs: unified auth, policy/QoS, mobility**

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Marketing Deliverables

2026 Increased WBA Industry Outreach and Engagement





~4k
Articles in Media

600M
Reach of Articles

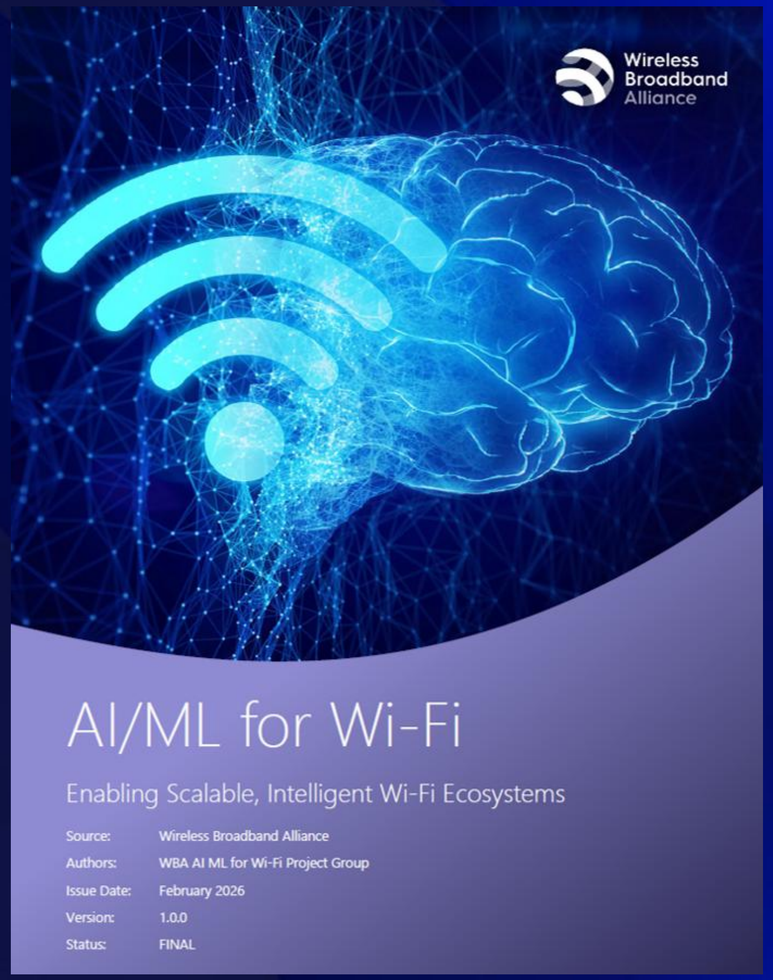
~5k
Document Downloads

+230K
Website Sessions

+1.3K
New Social Media Followers

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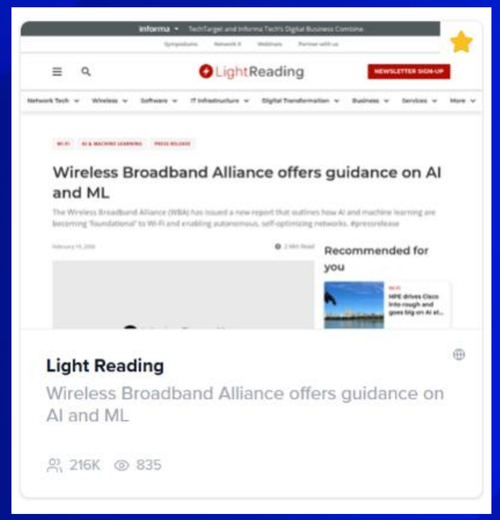
Marketing Highlights



+300
Pieces of Coverage

+300K
Estimated Views

+45M
Audience







Marketing Highlights

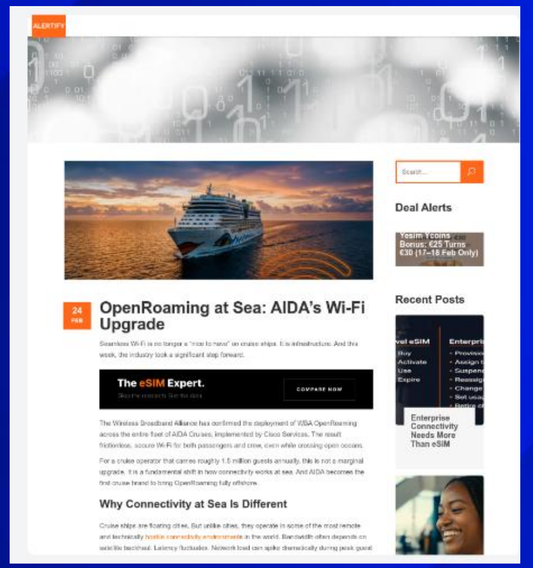
AIDA Cruises Deploys OpenRoaming

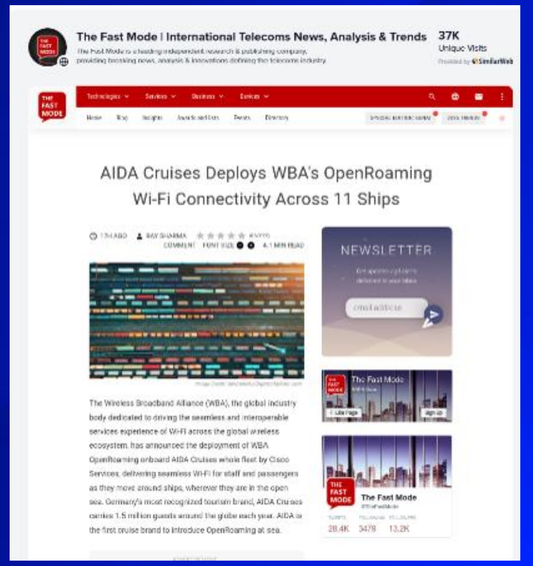


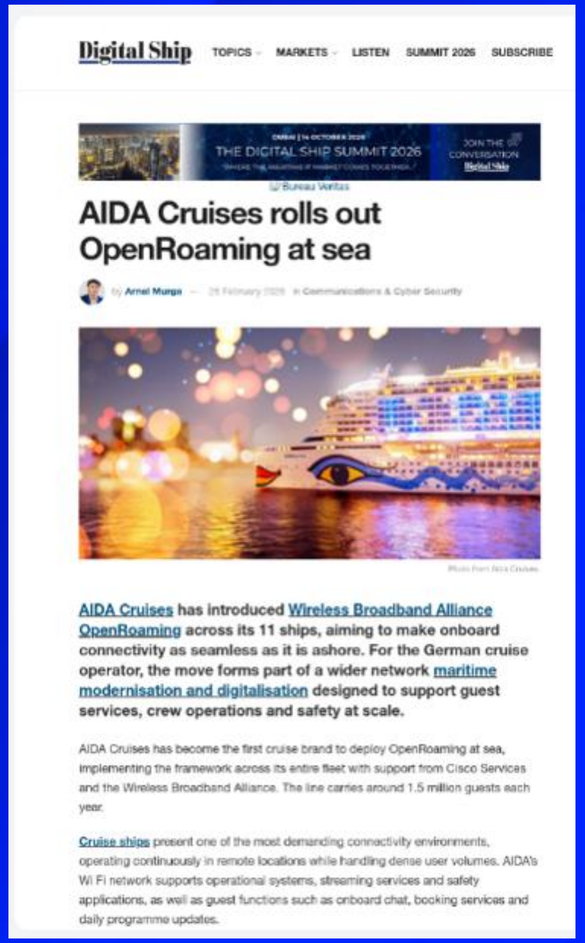
+300
Pieces of Coverage

+380K
Estimated Views

+58M
Audience







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Event Deliverables











+1,250
WGC UNIQUE ATTENDEES

4.5
SATISFACTION SURVEY RECORD

44
WGC SPONSORS

+110
SPEAKERS

17
EXTERNAL EVENTS PARTICIPATION

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World Wi-Fi Day 10th Anniversary

Wireless Broadband Alliance



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Wireless Broadband Alliance

OUR VISION

“Drive Seamless, Secure and Interoperable Wireless Experiences”

JOIN AND BE PART OF THIS REVOLUTION

ESTABLISHED **IN 2003**	230+ MEMBERSHIP **COMMUNITY**	PROJECTS & **PROGRAMS**	3 ANNUAL **EVENTS**	PROMOTION & **GO-TO-MARKET**	THOUGHT LEADERSHIP **& MARKET RESEARCH**

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WGC EMEA 2026

Thank You

TIAGO RODRIGUES
PRESIDENT & CEO
TIAGO@WBALLIANCE.COM

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Wireless Global Congress EMEA



Sean O’ Leary

Senior Director of Product Management, Boingo Wireless

Converged Venue Connectivity: From Strategy to Deployment



The networks we build transform the way people live, work and move through the world.


Connectivity is
limitless.

130+

Airports and transportation hubs

90+

Sports and entertainment venues

100+

U.S. military bases


Cybersecurity
AI
Resilience

BOINGO

25 years of leading through change


1
2
3
4
5
6
7
8
9
*
0
#
Rcl
Sto
Snd
Pwr
Fcn
End
CLR
CALIFORNIA
MOBILE PHONE

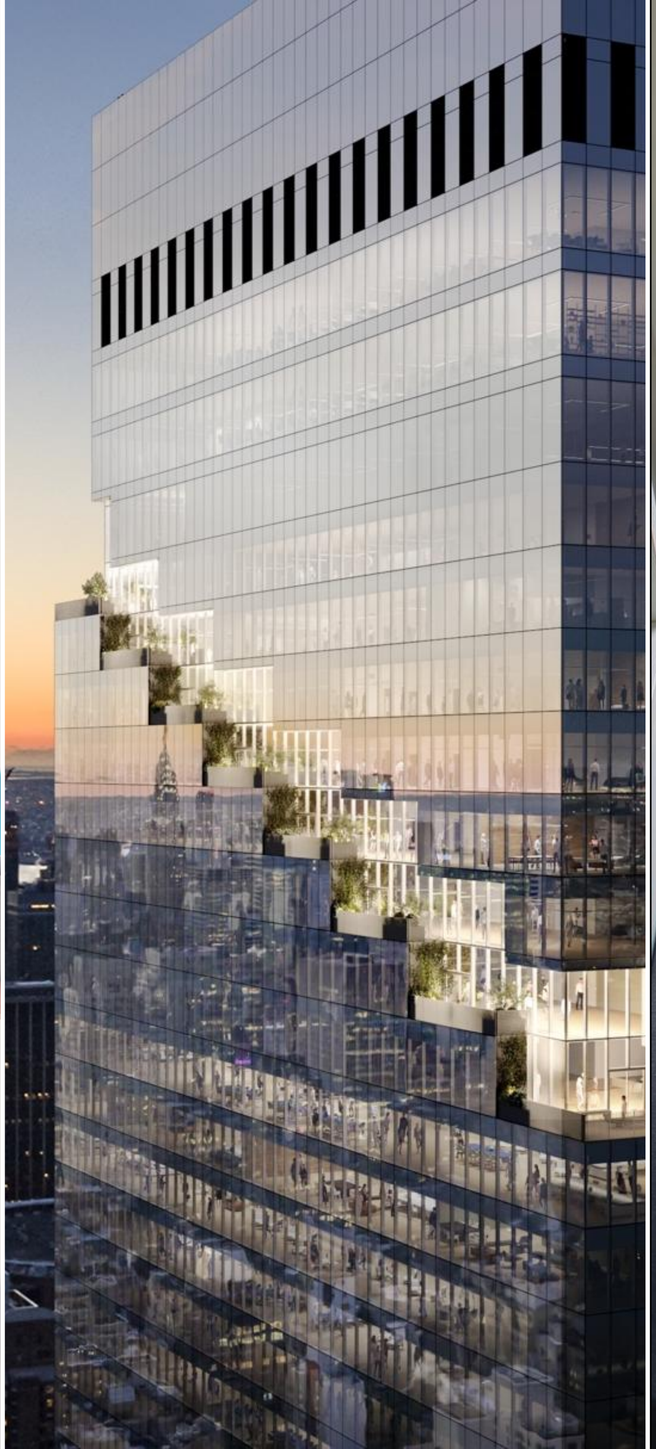


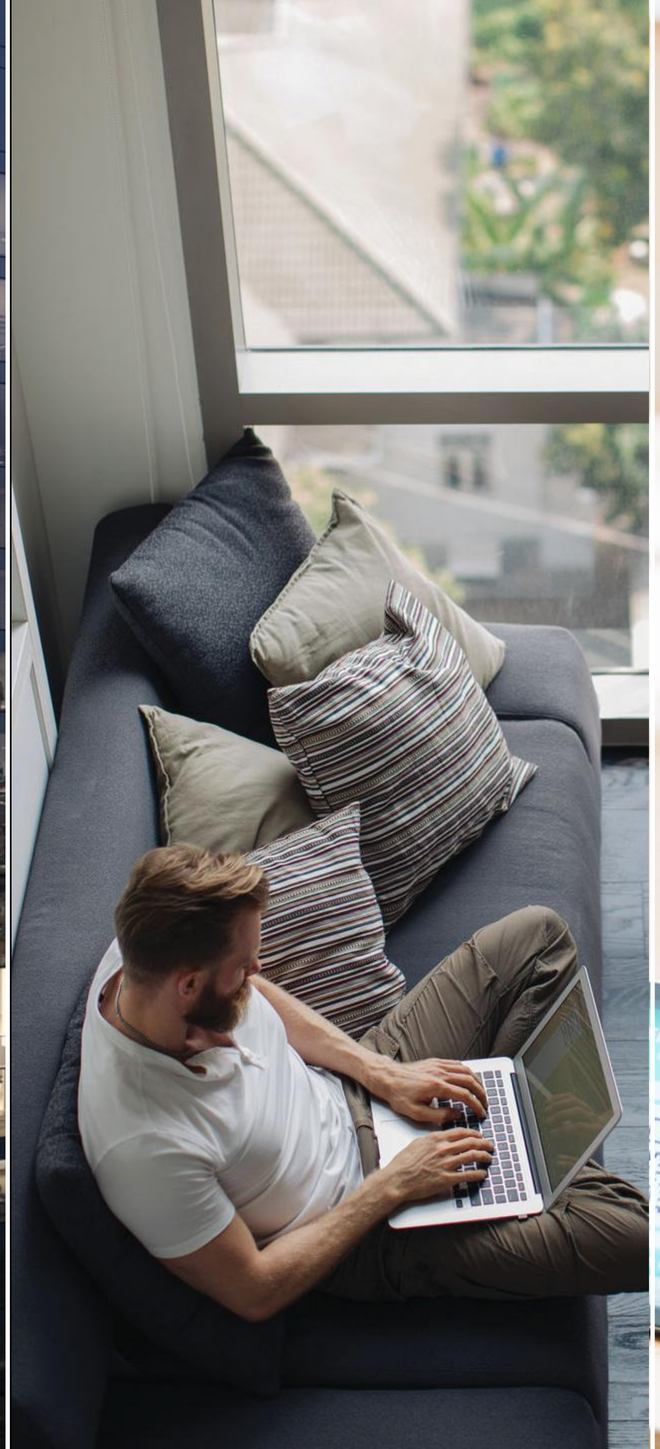

5G
Wi-Fi
Private Networks

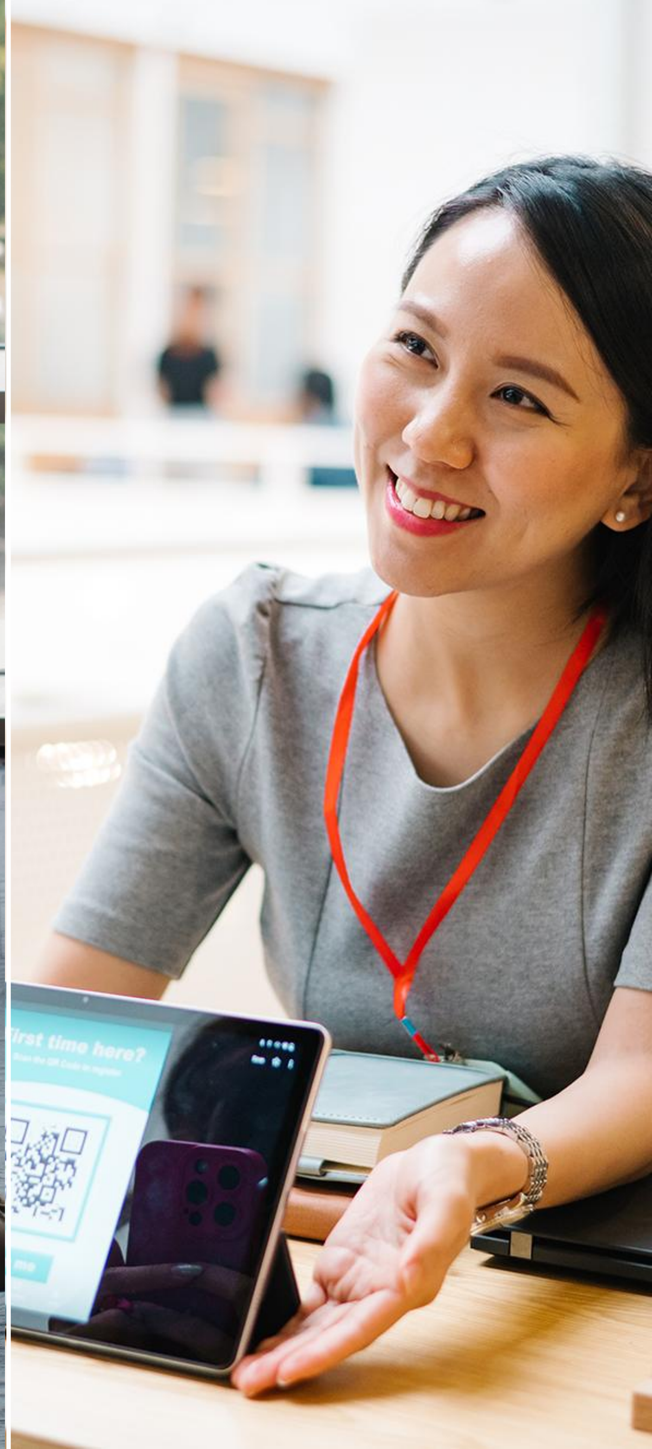


Interoperability is how we scale.







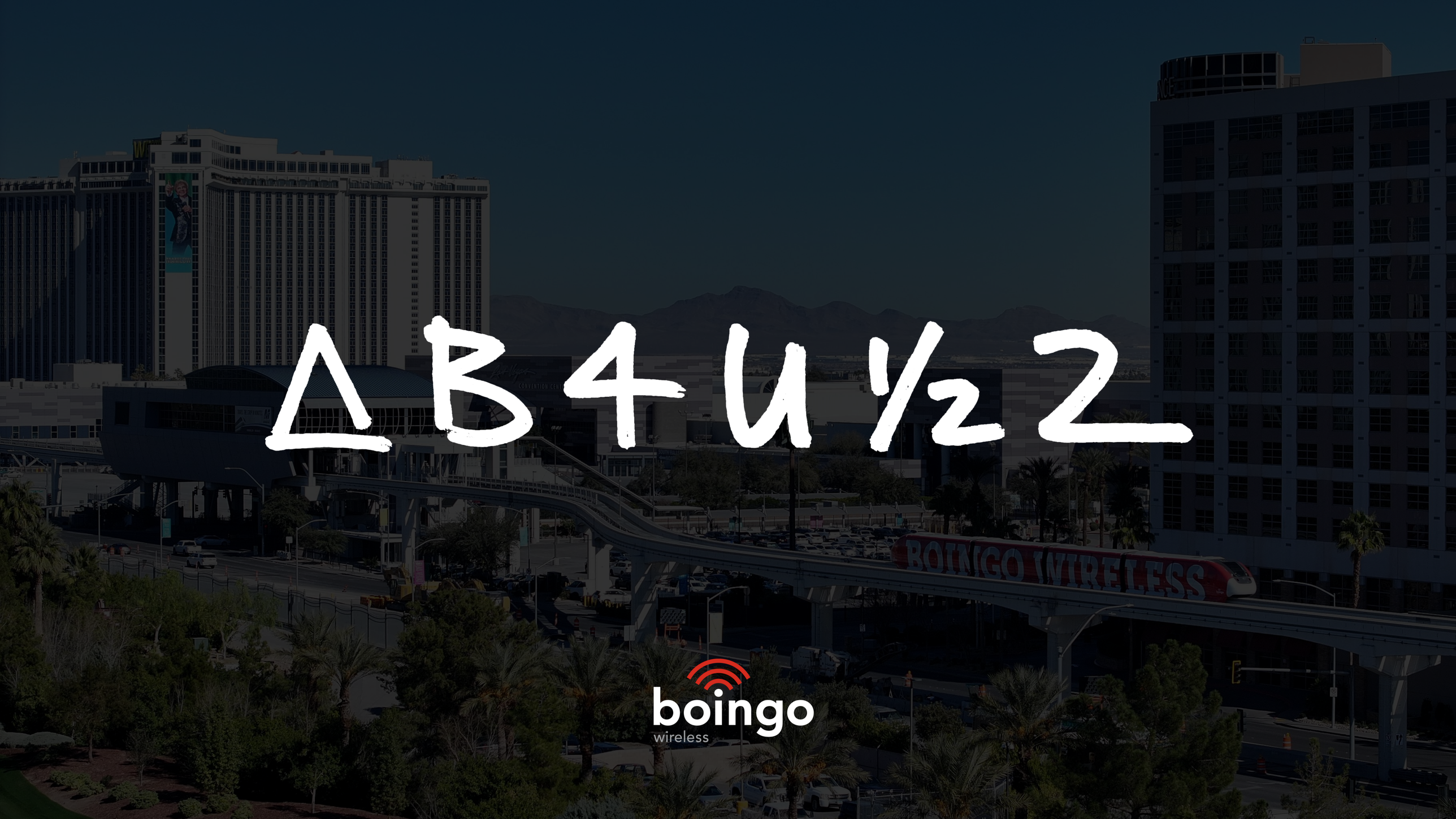

First time here?

AI requires connectivity.

boingo
wireless

Smart
Efficient
Secure
Innovative
Resilient




ΔB4U½2
BOINGO WIRELESS
boingo
wireless

Wireless
Global Congress
EMEA



Matt MacPherson

Wireless CTO, Cisco

The Now Meets the Future

What AI demands of Wi-Fi, and what AI can do for Wi-Fi

The Now Meets The Future

What AI demands of Wi-Fi, and what AI can do for Wi-Fi

Bart Brinckman
Matt MacPherson
Cisco Wireless CTO Group

Network X – WBA Wireless Global Congress

Vienna, October 2026

Your newest Wi-Fi client isn't human

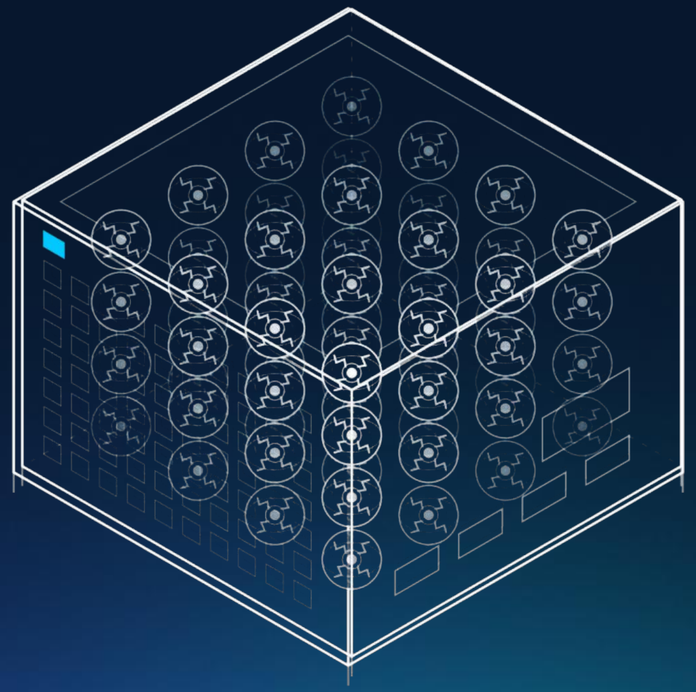
A new device is landing on desks



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Cisco Public

Open one up. **It's a swarm of agents.**



One device → **Hundreds of agents**

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On a laptop

In a contact center

In a meeting room

On a mobile device

Agents are going to be **running everywhere**

Every device, every room, every workflow — quietly, all at once.

In a branch router

In a SOC

In the data center

In a deskside device

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The campus is gaining an AI workforce

Illustrative: five agents per endpoint



50,000
agents on a 10,000-endpoint campus

→

+450%
more traffic per task: agent vs. person

→

~50%
of AI campus demand rides on Wi-Fi

What this means, from two angles: **AI on the wireless network** · **AI for the wireless network**

Sources: Cisco AI Impact on Wide Area Networks 2026 (lab agent test); Cisco/Foundry, The accelerating impact of AI on campus and branch networks (2026).

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Part 1
AI on the wireless network



"…this year roughly **60% of the global AI compute capacity** will be used for inference."

Dr. Lisa Su, Chair & CEO, AMD

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Where Model Inference Runs and Why

Inference runs where the model is hosted. Placement depends on the task, data and operating requirements.



On-device or local

- Direct access to private data
- Local control and offline availability
- Avoid WAN round trips
- Reduce cloud inference token costs



On campus server

- Share models and compute across users
- Centralized management
- Access to enterprise/campus data



Cloud

- Elastic capacity
- Access to a broad range of models, specialized expertise and services

The right work in the right place

Agents use inference wherever it best balances capability, efficiency, power, security and cost.

What this means for the network

As work spans devices, campus, and cloud, repeated exchanges increase network demand.

Each location has a purpose.
Making them work together requires low latency and reliable connectivity.

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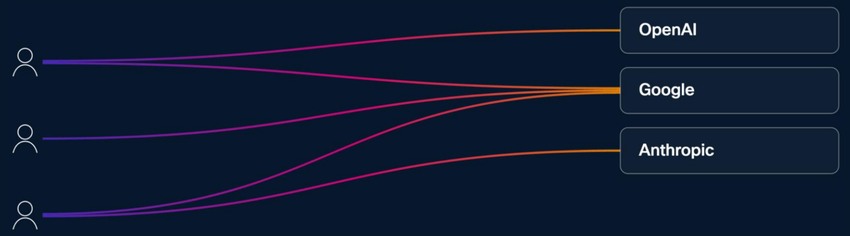
Agents multiply AI traffic, and it never sleeps

Tokens

1×

Humans prompt AI

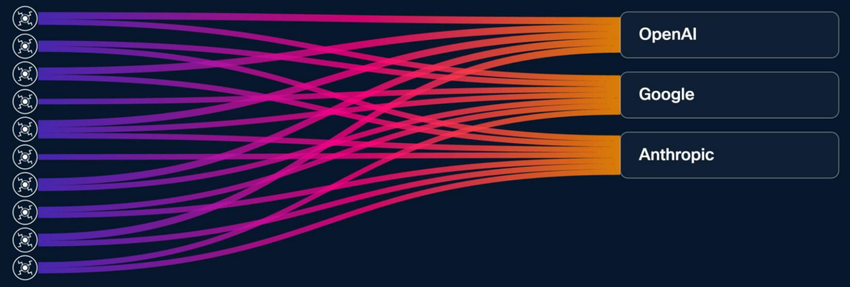
Token spend baseline



20×

Agents increase traffic and token usage

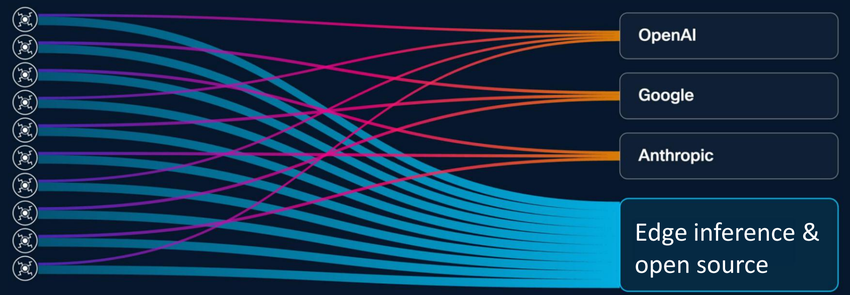
Same models, agent volume



6×

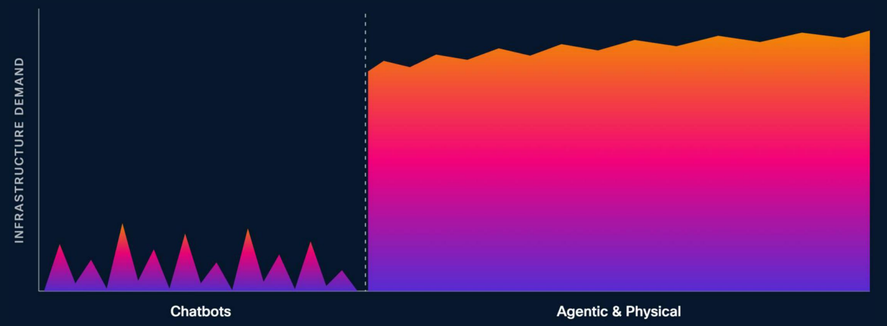
Edge inferencing will grow

Bulk served locally



Traffic

Agents operate at machine speed and scale



Chatbots: bursty, human-paced

Agentic & physical AI: continuous, always on

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Agents are reshaping campus network traffic

Higher scale | More symmetrical north-south | Increased east-west

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The pre-agentic network

10,000 endpoints

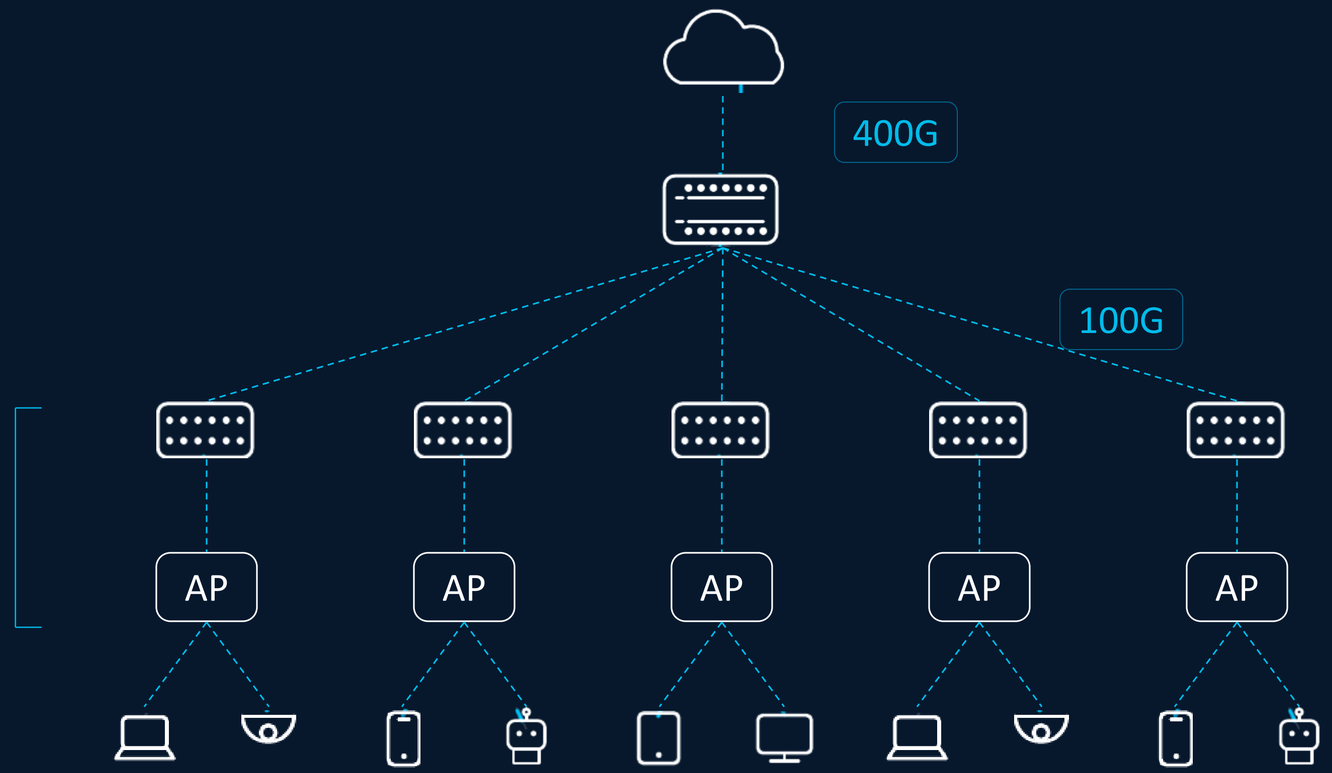
North-south

Edge

Core

Access

Endpoints



Internet / WAN / Campus

Access switches

Wireless access points

10,000 devices

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The network in the age of agentic AI

10,000 endpoints + 50,000 agents

North-south East-west

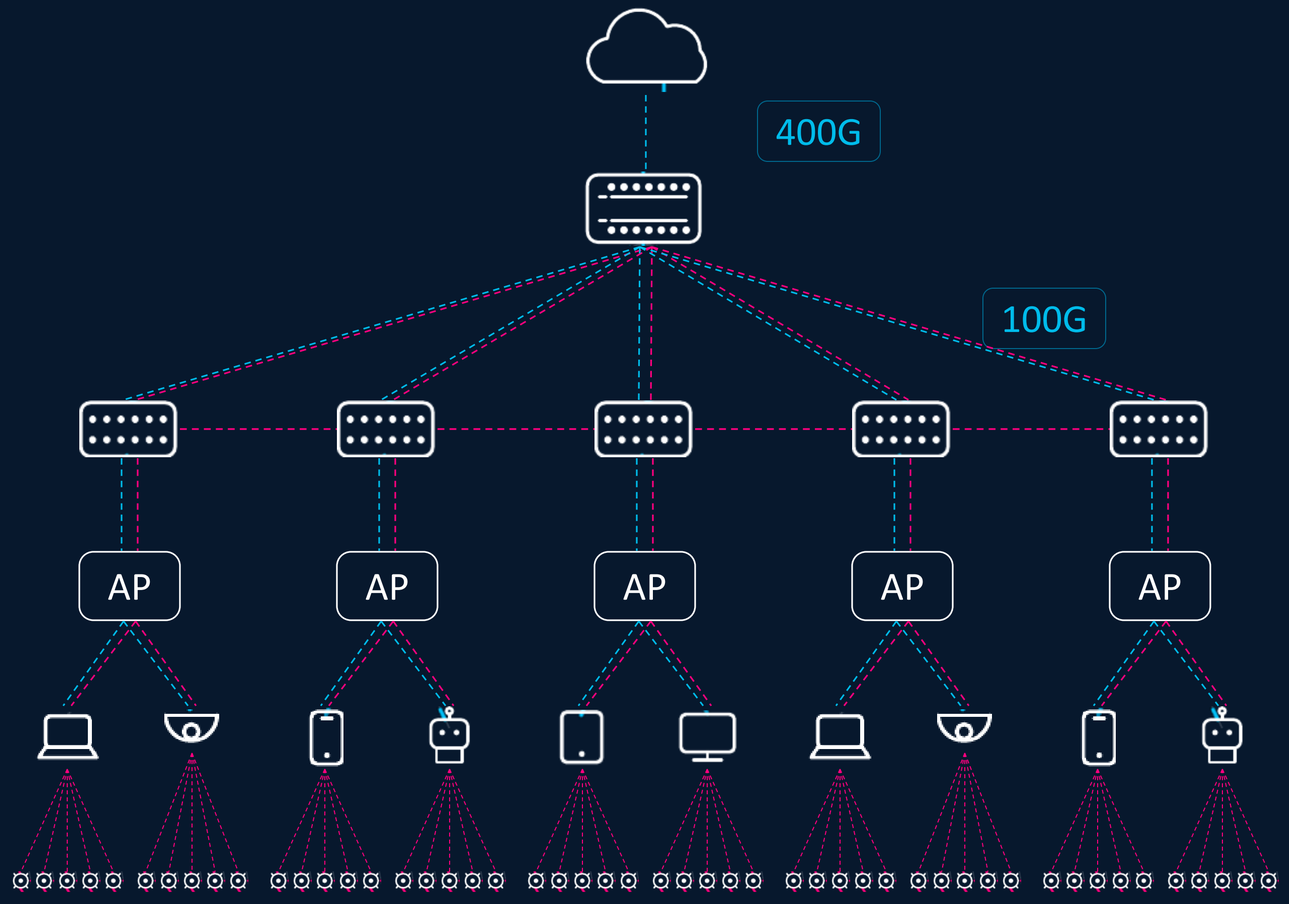
Edge

Core

Access

Endpoints

Software agents



Internet / WAN / Campus

Core Switches

Access switches

Wireless access points

10,000 devices

5 agents per endpoint

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What it means for the radio

Uplink matters

9%

of AI flows send more data up than down, vs. 0.5% for web traffic

Plan uplink airtime: SCS, UL OFDMA, UL MU-MIMO

Long, steady flows

2x

longer flows, at a smoother, lower rate (token by token)

Rethink airtime fairness, QoS and flow state

Reliability & latency over peak

Always-on

agents and physical AI need a consistent path, not just a fast one

Wi-Fi 7 MLO today; Wi-Fi 8 reliability next

Source: Cisco AI Impact on Wide Area Networks 2026 (live service provider traffic analysis).

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The readiness gap

AI is arriving faster than the Wi-Fi refresh

19%

of organizations run
Wi-Fi 6E or Wi-Fi 7 today

2x

as likely to have fully deployed
AI applications on 6 GHz

Source: Cisco State of Wireless 2026 (6,098 respondents).

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What it means to security

Agents are a new insider, and Wi-Fi is the front door

Security is now the brake on scaling AI



Agents…

Operate at machine speed and scale

Thousands of actions in the time it takes to read one alert.

Are relentless in pursuit of goals

Friction is not a stop signal. Blocked once, it finds another route.

Lack common sense or judgement

It follows the instruction it was given, not the one you meant.

Operate without consequences

No concept of harm. Deleting ten thousand files costs it nothing.

85%

had a wireless security incident in the last 12 months

61%

are holding back from scaling AI until security improves

Sources: Cisco/Foundry (2026); Cisco State of Wireless 2026.

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Security must-haves for the agentic era

A Protect east-west traffic & workloads

Shield infrastructure & workloads · Segmentation everywhere · Stop lateral movement

B Secure the human & agentic workforce

Identify agents, users & devices · Protect agents from the world · Protect the world from agents

C Detect & respond at machine speed & scale

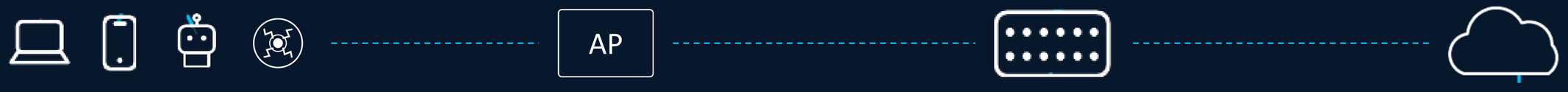
Leverage machine data at scale · Detect & respond to threats · Monitor agent behavior & drift

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Conclusion: Security has to live in the network

Enforce at the access edge, where Wi-Fi traffic enters



Users · Devices · Agents

Identity for each one

Wi-Fi 7 access point

Where traffic enters

Switching

East-west policy in the switch

Campus · Data center · Cloud

One policy end to end

Identity

An identity for every user, device and agent; segmentation limits the blast radius

Real-time telemetry

You need data to act: cross-domain signals across network, security and observability

Hybrid Mesh Firewall

Your firewall lives everywhere: one policy, enforced across firewalls, switches, routers and workloads

Live Protection

Waiting for a patch is no longer an option in the agentic era. Live protection for devices between patch windows is required

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Part 2
AI for the wireless network

“The Wi-Fi is broken”

Wi-Fi is often where the ticket originates, but not always the cause

25%

Of complaints are wrongly blamed on Wi-Fi

~18 hrs

Spent across teams on each misattributed incident

Operating a Wi-Fi network is getting harder

98%

Say wireless operations are getting more complex

55%

Spend most of their time on reactive troubleshooting

87%

Have visibility gaps when troubleshooting

Source: Cisco State of Wireless 2026 (6,098 respondents).

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AgenticOps: from answering questions to resolving problems

Rules and ML → chat assistants → agents that act

Telemetry from every network domain

Telemetry Wi-Fi, switching, security, application and internet path.

Example:

Cisco networking + ThousandEyes + Splunk

Telemetry from clients

Device profiles: model, OS, firmware, drivers

Reason codes: disconnects, roams

Ground truth: neighbor APs, RSSI, AP data

Example: Exclusive Cisco partnerships

A model trained for networking

Reasons like an experienced network engineer, not a general-purpose chatbot

Example:

Cisco Deep Network Model

Trusted agents

Every action verified, authorized and auditable, with a human in the loop

Example:

Cisco AI Canvas

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What to look for in an AgenticOps platform

1 Multi-layer

End to end: Wi-Fi, switching, routing, WAN, internet path

Cloud Control: Campus + data center networking, ThousandEyes

2 Cross-domain

Client, Networking, security, identity and observability, one policy

Cloud Control: Client, Networking, security, observability together

3 Closed loop

Monitor, diagnose, remediate, then validate the fix

Cloud Control: AgenticOps workflows from ticket to validated fix

4 Governed and explainable

Human approval where it matters, every action evidenced

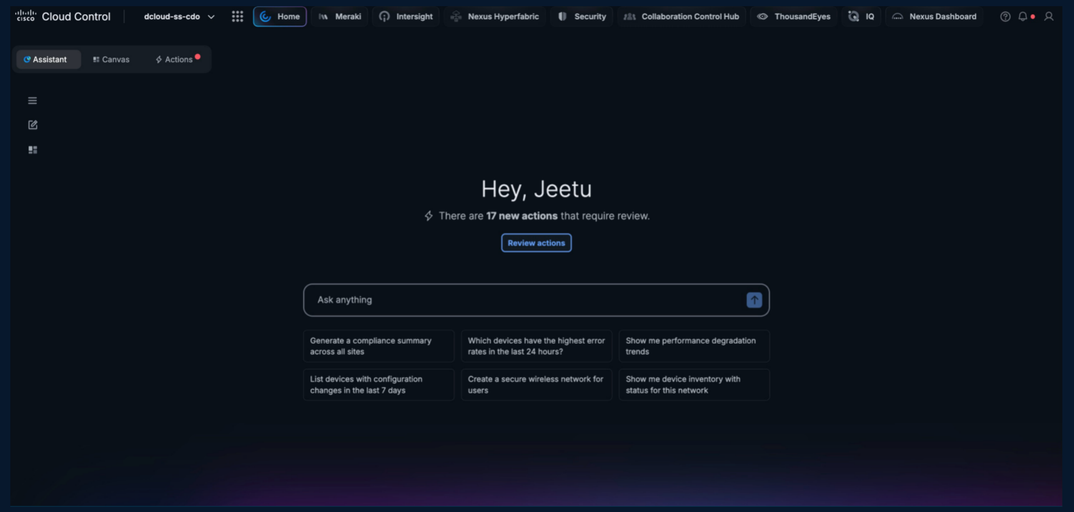
Cloud Control: AI Canvas: verified, authorized and auditable

5 Open

APIs, third-party data and tools, and your own agents

Cloud Control: Agent Studio and third-party APIs

Example: Cisco Cloud Control



- Data center networking
- Campus networking
- Compute
- Security
- Observability
- Collaboration
- Service providers

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Cisco Public

Example: One ticket, worked by agents

“Wi-Fi is slow in building 4”

1

Ticket opens an investigation

in AI Canvas

2

Agents check the network

RF, roaming, client health

3

Agents follow the path

Application and internet path (ThousandEyes)

4

Root cause found

Upstream SaaS path, not the Wi-Fi

5

A person approves the fix

Agent documents everything

Moving from “Wi-Fi is broken” to pinpointing where the problem actually lies

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Cisco Public

It works, but most teams aren't there yet

Teams running AI with autonomous actions

3h 20m

saved per person, per day

850+ hours a year

4x

more likely to call operations

“very simple”

But… only **23–29%** of organizations leverage it today

Source: Cisco State of Wireless 2026. 23–29% depending on the task.

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Cisco Public

The wireless AI paradox

AI is the biggest new pressure on Wi-Fi, and the best way to handle it

-

Tackle both - 4x more likely to get strong wireless ROI

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Thank you.
Questions?



Wireless
Global Congress
EMEA



Metin Taskin

CEO & Co-Founder, Airties

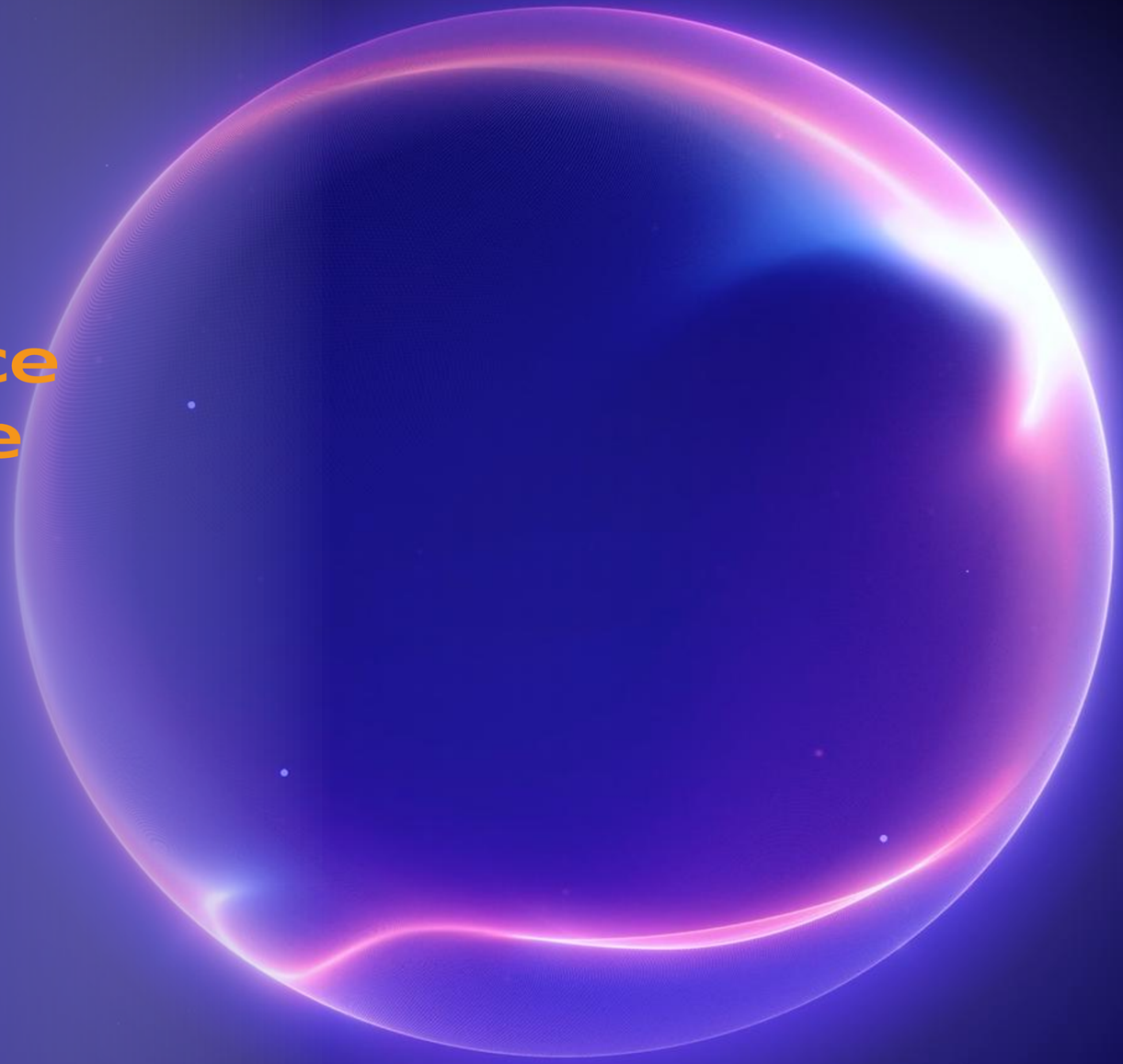
Autonomous Intelligence for the Connected Home

airties

aura

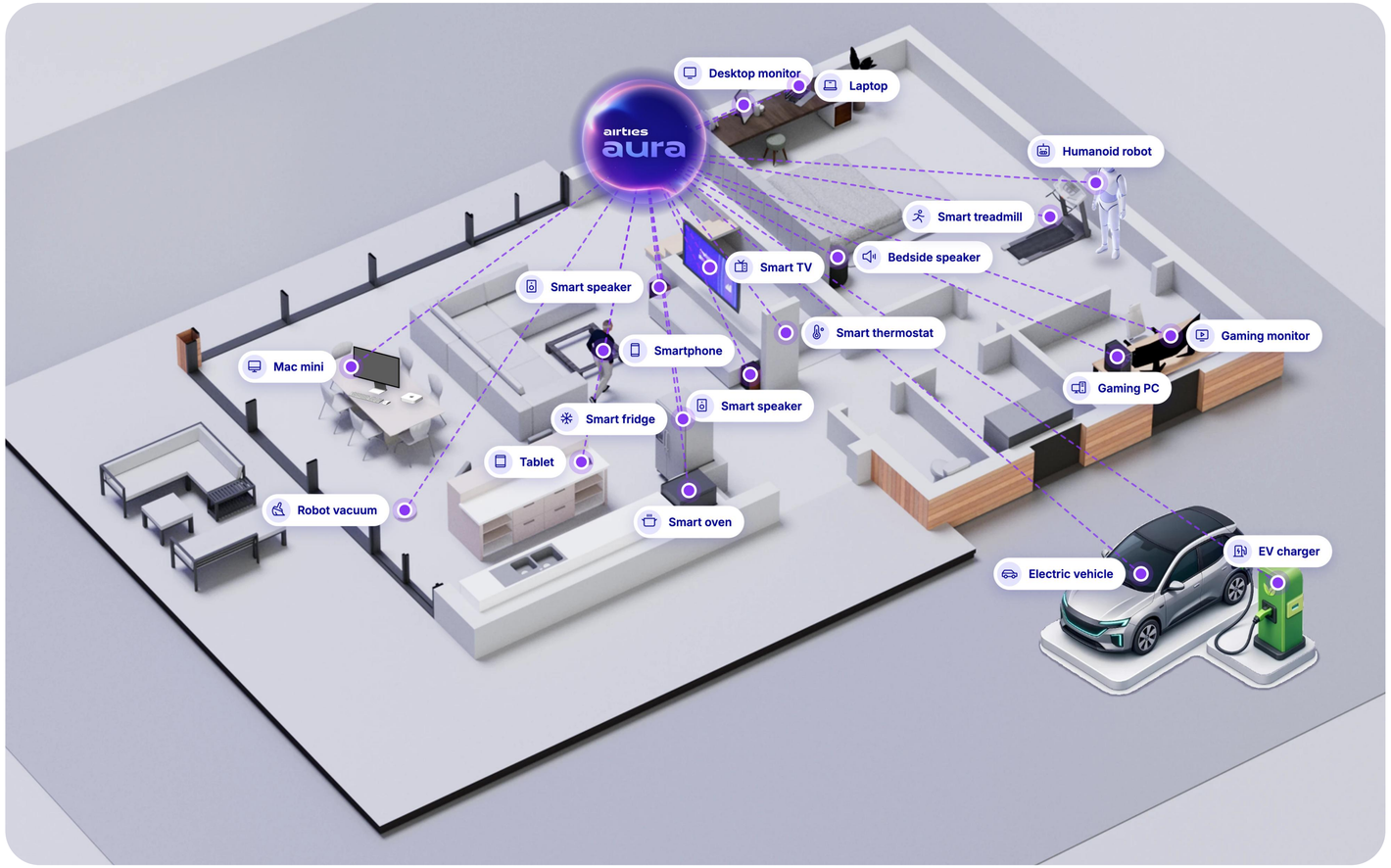
Autonomous intelligence for the connected home

Metin Taskin, CEO and Co-Founder, 14 October 2026



The connected home is the next AI frontier

More devices, more AI agents, greater demands



Connected Home Complexity increases

~20

Connected devices in the average home today

40+

In highly connected households

4

Wi-Fi generations coexisting

The use of AI agents by subscribers will add to the cyber security requirements for operators

Edge AI: The conductor of the connected home

Orchestration of AI Agents, IoT devices and home robots



Shift from human generated to agent-driven traffic

New traffic profiles with diverse QoS needs

Networks must be adaptive and device-aware

Cybersecurity risks will rise in an Agentic Home

A hacked AI agent can hand over your subscriber's payment details

Australia launches urgent review after OpenAI program hacks government health portal

24 September 2026

Autonomous agents expand the attack surface

More sophistication, scale and speed: security needs to adapt

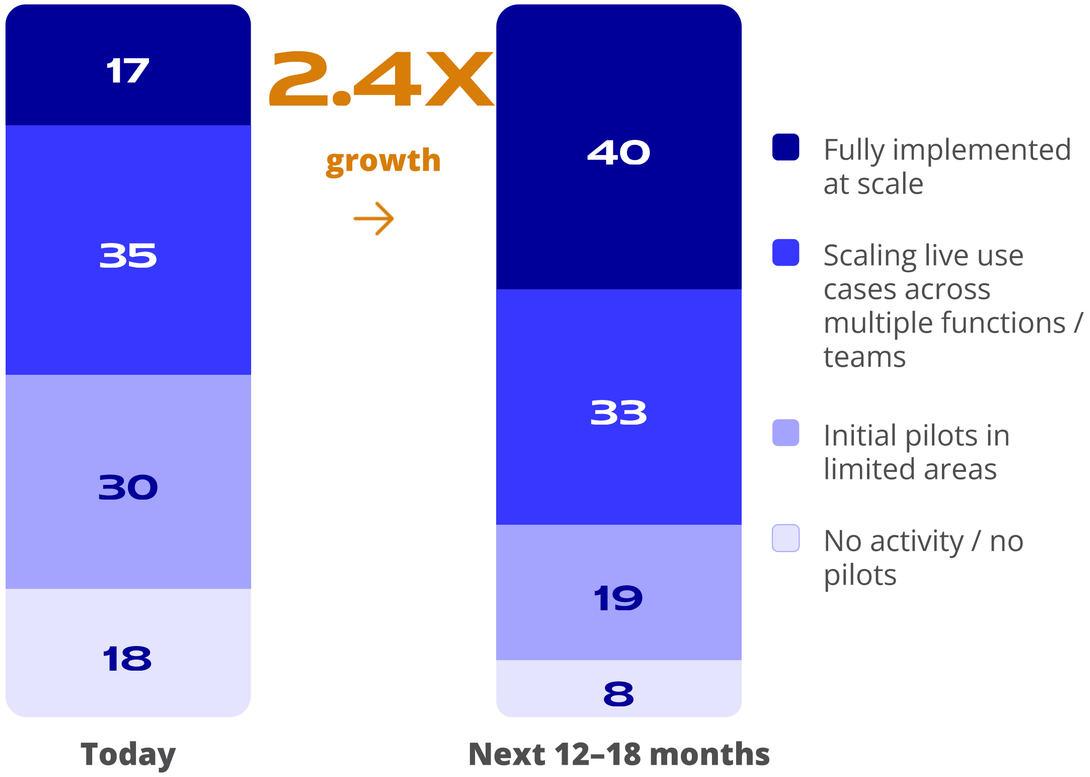
Malicious actors need to be blocked

Download the report

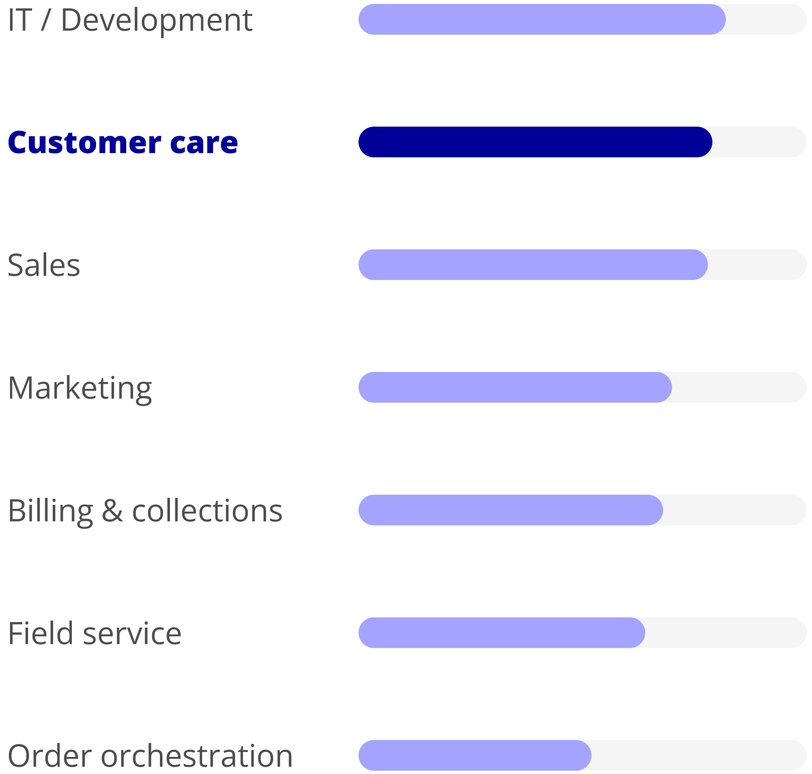
Agentic AI adoption is accelerating fast

92% of Telcos are investing in Agentic AI in the next 12–18 months

% of respondents



Where operators are deploying first



McKinsey analysis, McKinsey Telco & Tech B2B Pulse Survey Q12026

Three requirements for the connected home

- ISP Broadband Monetization
- Churn reduction and lifetime value
- Easy integration in any AI ecosystem



Easy integration of Airties Aura via MCP

The move from coding to training Agentic AI

Operating Agentic AI ecosystem

- Enterprise Applications
- Databases
- Analytics
- Custom LLMs

AI Agents

MCP servers

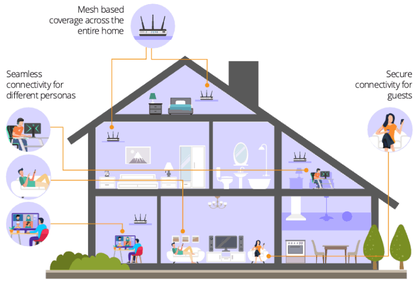
AURA agentic AI System

MCP servers

AI Agents

- Home intelligence
- Wi-Fi Domain Knowledge

ISP Subscriber



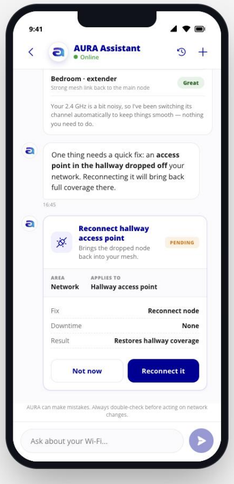
- Mesh based coverage across the entire home
- Mobile app with self-help features optimized for a specific home
- AI/ML models trained on the cloud pushed to Edge for Inference

ISP Stakeholders

- Care and Support
- Network & Security Operations
- Marketing

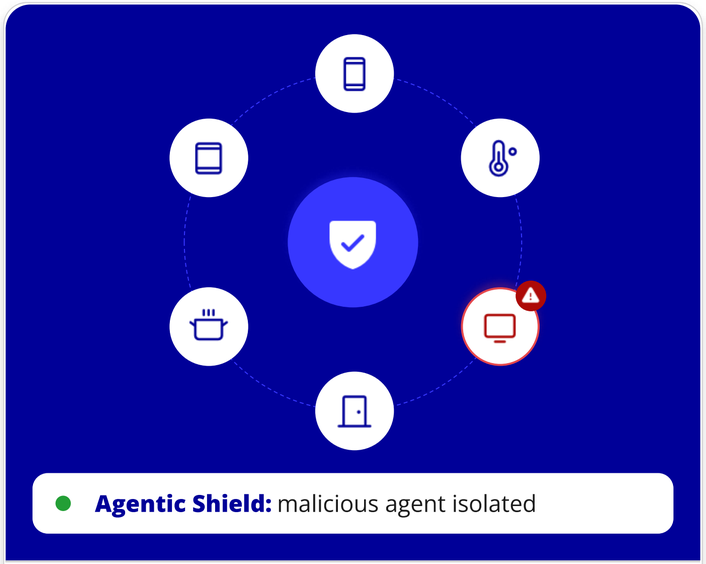
Game-changing agentic AI use cases

Many use cases across the subscriber lifecycle



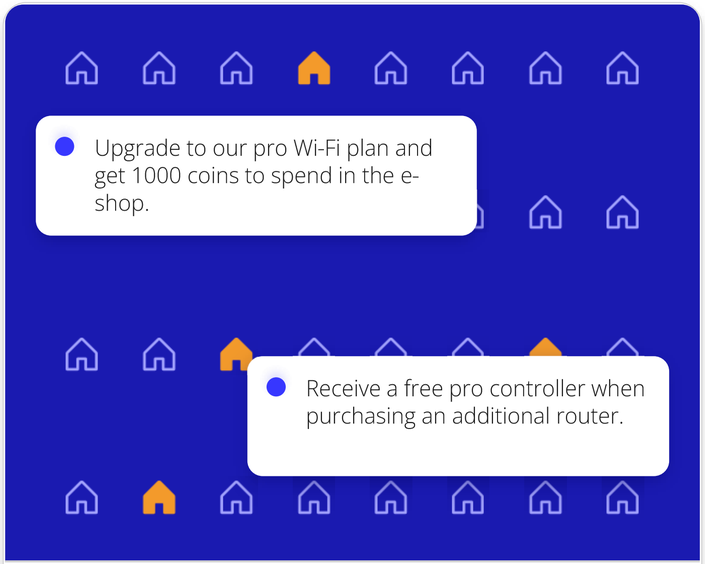
Customer care

- Through all channels, understand customers technical issue and auto fix or recommend resolution.
- Either human in the loop or fully self care
- Boosts experience as natural language



Cyber security

- Agentic shield protects subscribers
- Embedded in router – additional security layer



Upsell and monetize

- Create tailored packages for high value users
- Predict and prevent churn

In summary

The connected home is the next AI frontier

- More intelligent, more adaptive, AI Agents
- Experience, Cybersecurity and Data Intelligence
- Operators play a central role



Thank you

Wireless Global Congress EMEA



Dr. Necati Canpolat

Snr Staff Wireless Systems Architect, Intel Corp

Beyond Speed: Reliable. Aware. Intelligent.

Beyond Speed:
Reliable. Aware. Intelligent.

What Wi-Fi 8, Wi-Fi 9 and AI mean for your business — and how the industry gets there

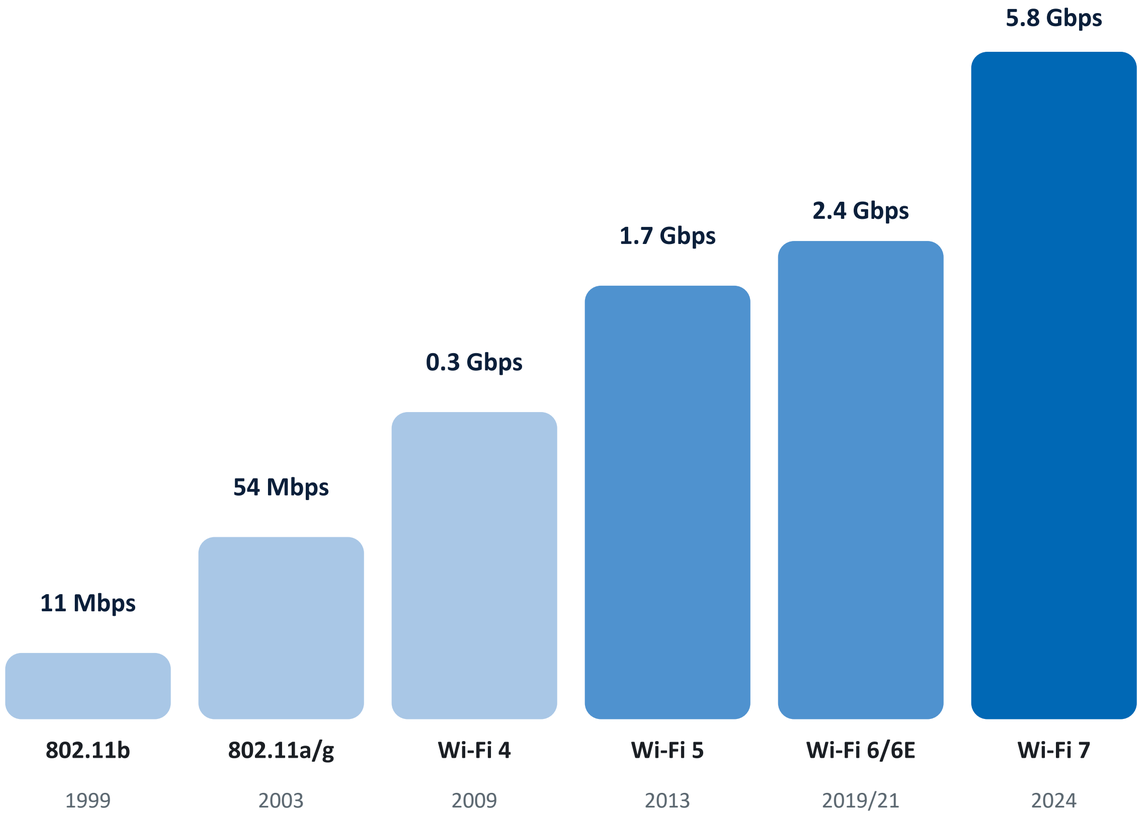
Dr. Necati Canpolat

Intel Corporation



For 25 years we asked, "how fast?" Now we ask, "how reliable?"

500× faster in 25 years — yet the applications arriving now need something speed alone cannot buy: certainty.



4 B+
Wi-Fi devices shipped every year

Most
mobile-device traffic rides on Wi-Fi

1200
MHz of 6 GHz spectrum where fully opened

Robots on the factory floor
a lost frame stops the line

XR headsets in the meeting
lag is nausea

AI agents talking to agents
a late answer is a wrong answer

Packed venues and offices
everyone is at the cell edge

Wi-Fi is no longer "internet access". It is operational infrastructure — and it has to be as dependable as the power socket.

**Wi-Fi 7 data rate with 2x2 client and 320 MHz channel*

Wi-Fi 8: same spectrum, a different promise

Not just faster on the spec sheet — dependable in the real world.



Dependable

Predictable response times, even in crowded rooms. Access points can coordinate instead of competing.

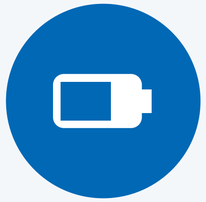
Every frame on time



Reaches further

A stronger uplink from the far corner, and wide channels that keep working while a neighbour is busy.

Fewer dead zones



Lower Power Use

Devices wake the radio only when there is something to send or receive — longer battery life for clients, less energy for the kit on the ceiling.

Longer Battery Life



Ready for AI

Latency-sensitive traffic — including AI applications — gets predictable treatment; sensing and analytics start to feed intelligent networks.

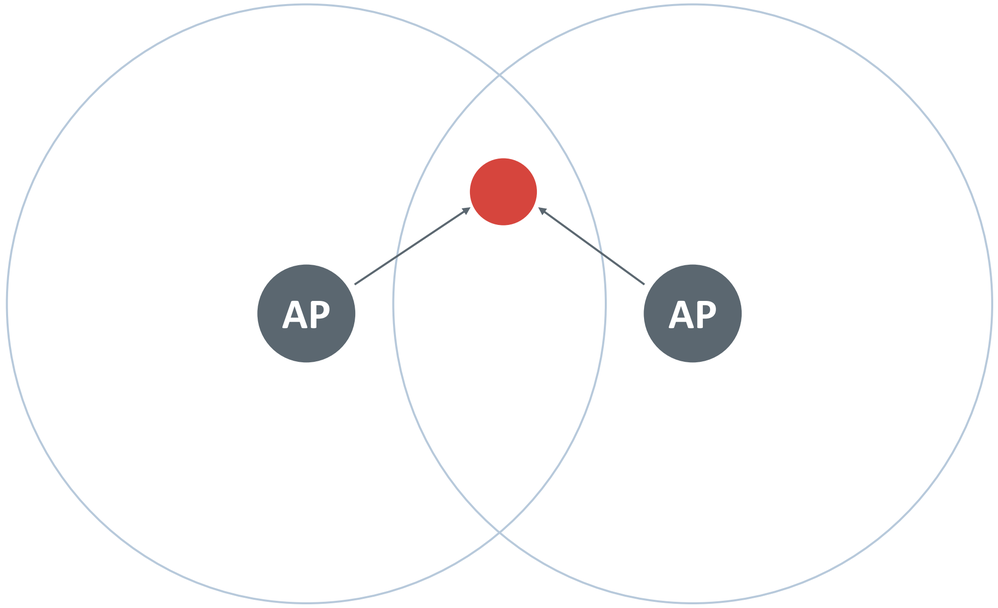
Built for what is next

Runs in the spectrum you already have — 2.4, 5 and 6 GHz. Judged by its worst moments, not its best.

Access points stop competing and start working as a team

Today every AP fights for the air. In Wi-Fi 8, neighbouring APs can agree to share it — urgent traffic first.

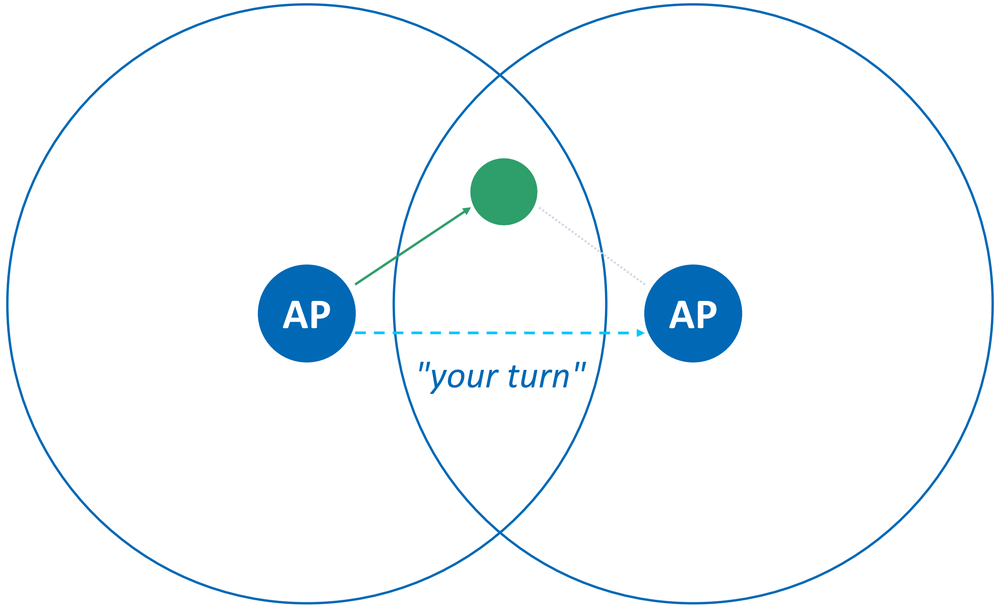
TODAY



interference · retries · buffering

The device at the edge of two cells gets the worst of both.

WI-FI 8



✓ take turns — urgent traffic goes first · ✓ aim away from each other's users

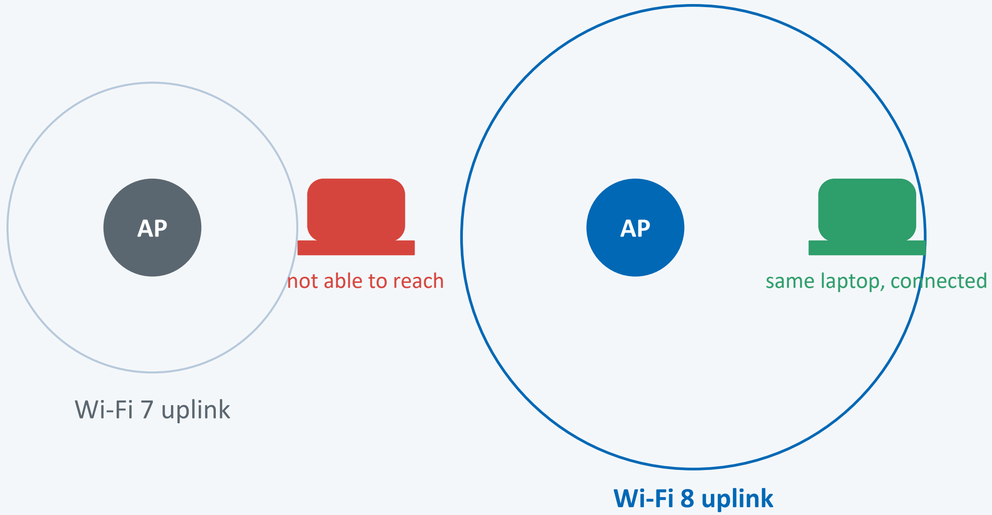
The same client now gets a clean, coordinated signal.

What it means for you: where APs coordinate — more users per room, smoother video at the edge, fewer "the Wi-Fi is bad in this corner" tickets

Reaches further, wastes nothing

Two quiet fixes with loud effects: a stronger uplink at the edge, and wide channels that no longer sit idle

REACH — the laptop at the far end of the corridor



up to 6 dB

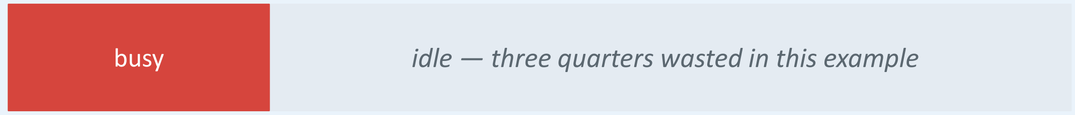
more uplink power for small-RU clients at the edge (6 GHz)

up to 2x[1]

data rate at the edge of coverage (new MCS, UEQM, 2xLDPC)

WASTE — the wide channel that sat idle

Today: a neighbour on one slice blocks the whole 320 MHz channel



Wi-Fi 8: the network simply moves around the busy slice and keeps going



Also: a 320 MHz access point can serve an 80 MHz device and still use the rest for others; and enterprise networks can widen channels without knocking users off.

up to 4x

the channel works around the busy slice and serves narrow devices without parking the rest (NPCA, DSO)

What it means for you: Wi-Fi 8 access points cover more floor, and the spectrum you have actually gets used.

[1] *Intel simulation, single-family home, downlink: mean gain ≈9 %, up to 2x at specific signal levels.*

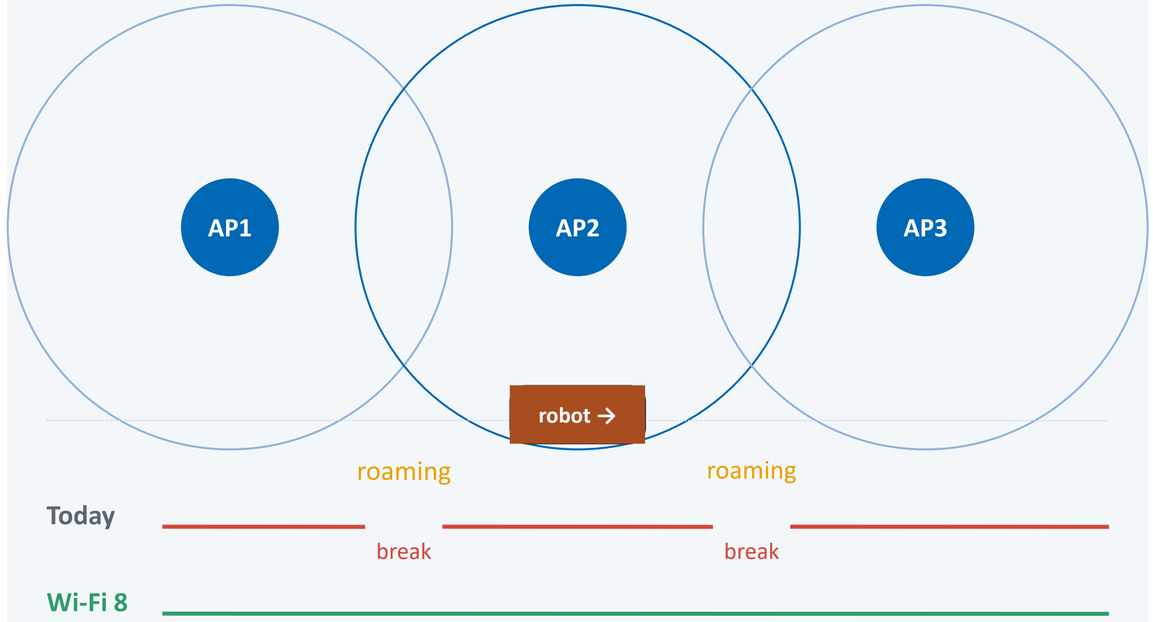
Bounded Latency. Seamless Mobility

Reliability is about the worst moment, not the average — Wi-Fi 8 is engineered for the worst moment



Time-critical traffic gets protected airtime

MOVING — a robot crossing the warehouse



The cells overlap — but today each hand-over from one AP to the next re-connects from scratch, so the link breaks for a moment. Wi-Fi 8 keeps the session alive while switching: the new AP is ready before the old one lets go.

What it means for you: Wi-Fi joins wired and private cellular as a trusted option for factories, hospitals and live venues.

The network finally sees what the user experiences

Dynamic Analytics Reporting (DAR): the network or device asks, they device answer — one format, every vendor

Intel Connectivity Analytics gives the PC's view of the link today (days → seconds to troubleshoot)

WHAT THE NETWORK SEES TODAY

AP

"Signal was fine. The laptop left and re-joined the next AP. Normal."

Ticket closed: no fault found.

Operators often lack a common client-to-cloud view.

WHAT THE USER EXPERIENCED

laptop

"My video froze for two seconds in the middle of the pitch."

Two candidate APs rejected; Bluetooth headset shared the antenna; call quality collapsed.

Ask

the network requests what the device saw

→

Answer

the device reports — one standard format, any vendor

→

Understand

AI correlates across sites, devices, vendors

→

Fix

steer, re-tune, escalate — before the ticket

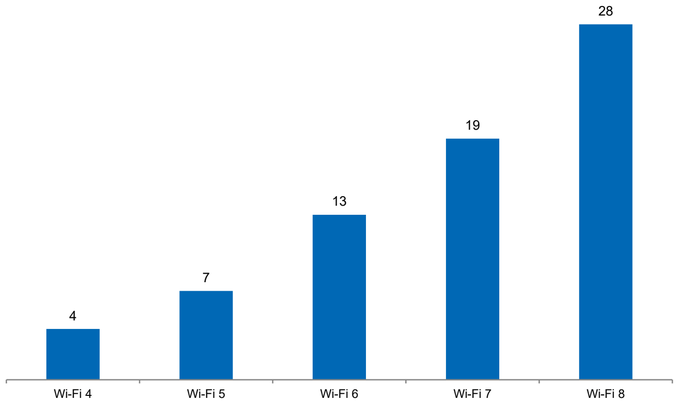
What it means for you: faults that used to take days to diagnose can be pinpointed in seconds — and many are fixed before anyone calls

Too many knobs for humans. AI takes the wheel.

Every generation added controls and removed none — hand-tuning a modern Wi-Fi network no longer scales

~28

interacting settings an operator is expected to tune in a Wi-Fi 8 network — up from 4 in Wi-Fi 4 (illustrative count)



Humans pick a "safe" setting and never touch it again — so the network never delivers what it could.

AI for Wi-Fi

The network runs itself

- Tunes channels, power and AP teamwork from what actually happened — not from rules
- Predicts where you are going and moves the connection first
- Finds the fault before the ticket, and explains it in plain language

Wi-Fi for AI

AI needs a reliable ride

- AI agents talk to each other constantly — every exchange needs a bounded delay
- Devices offload heavy AI work to the edge — that needs a strong uplink
- Sensing and analytics become the eyes and ears of the models

What it means for you: lower operating cost, better experiences and fewer outages

Wi-Fi Becomes Aware: Sensing and Proximity

Sensing

Human Presence: Human⇔ Device approach/absence detection



- Battery life
- Data Security
- Responsiveness

Gesture Recognition

Control and interaction with your personal devices using hand/body movement





Wellness

Emerging research: opt-in breathing-rate sensing for wellness

Ranging

Secure Lock / Unlock

Accurate, secure ranging between your personal devices



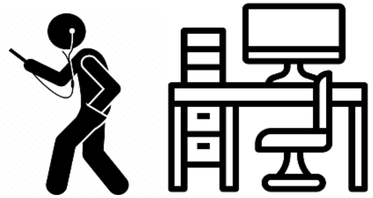
Directionality

Relative direction between PC, phone & peripherals



Session Transfer

Transfer your calls automatically when inside/outside range



Instant Dock Wake

Early wake up your PC/dock when approaching your workstation



What it means for you: every Wi-Fi access point and laptop becomes a sensor — new services, no new hardware.

Wi-Fi Sensing/Ranging - Your PC knows you're there (Demo)



Your PC wakes as you arrive. Locks as you leave. Sensing stays on the device.

Wi-Fi 9* is being designed now — and you can still shape it

Reflects current proposals, not decisions.

IEEE 802.11 approved WLAN Intelligent Networking (WIN) Study Group expected to become the basis for Wi-Fi 9.



Enhanced Uplink

Improving performance in dense client devices uploading simultaneously

Latency you can plan around

Not just low — predictable. Aiming for delay bounds/determinism you can build an SLA around.

Built for physical AI

Robots, industrial control, real-time AI, and XR – mobile, safety, low latency and high reliability

60 GHz express lane

IEEE 802.11bq: integrated mmWave for multi-gigabit bursts — XR, docking, video walls — paired with 2.4/5/6 GHz as one connection, used only when needed.

Trust, end to end

Quantum-safe security

Why it matters now: the IEEE 802.11 WIN SG to decide what Wi-Fi 9 is — and the door is open to everyone until January.

What Intel brings

We see the connection from the client side — and we're putting that view to work with you.

What we build

Wi-Fi silicon, driver and neural engine on the same PC platform

What we see

Intel Connectivity Analytics
Intel Connectivity Suite
Wi-Fi Sensing and Proximity

Where we serve

Intel engineers working alongside the members in this room to keep IEEE, WFA and WBA moving together.

None of this works without the networks. *Bring us your hard problems — that is what we are here to work on together.*

Beyond speed.

Wi-Fi you can count on.

Reliable — Wi-Fi 8
Aware — sensing and analytics
Intelligent — WLAN Intelligent Networking (WIN SG) road to Wi-Fi 9

Intel: helping lead the way.

Thank you

Dr. Necati Canpolat
Intel Corporation


intel

Wireless
Global Congress
EMEA



Dr. Derek Peterson

Board Advisor, Industry Expert

No More Seams

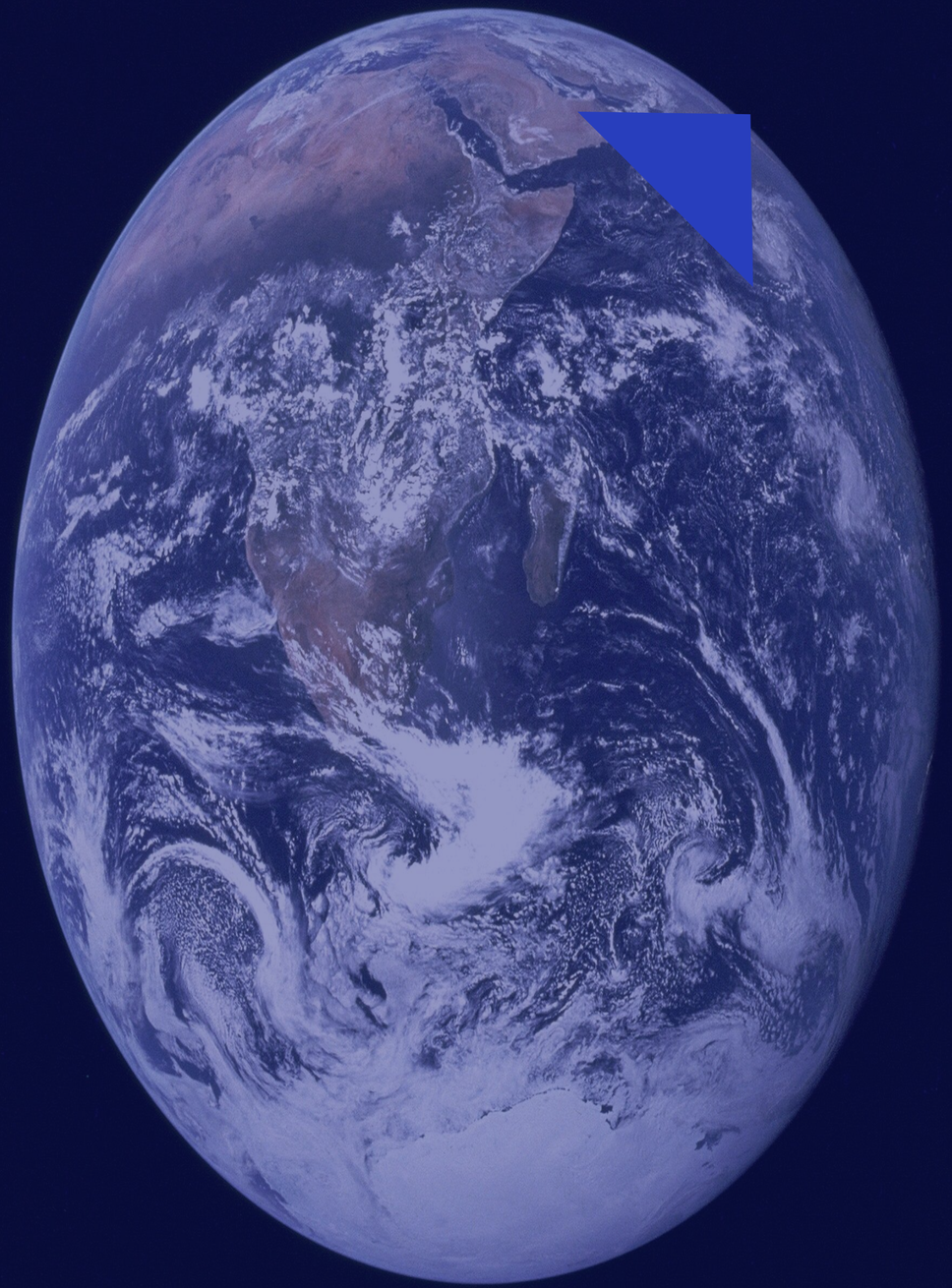
The Story of Convergence

THE STORY OF CONVERGENCE

No More Seams

Wi-Fi, cellular and satellite become one network, run by AI and secured by quantum

Dr. Derek Peterson | WGC Vienna | October 2026



WGC VIENNA 2026

Racing Baja.
Chasing signal.

Three networks. Three seams. One day.

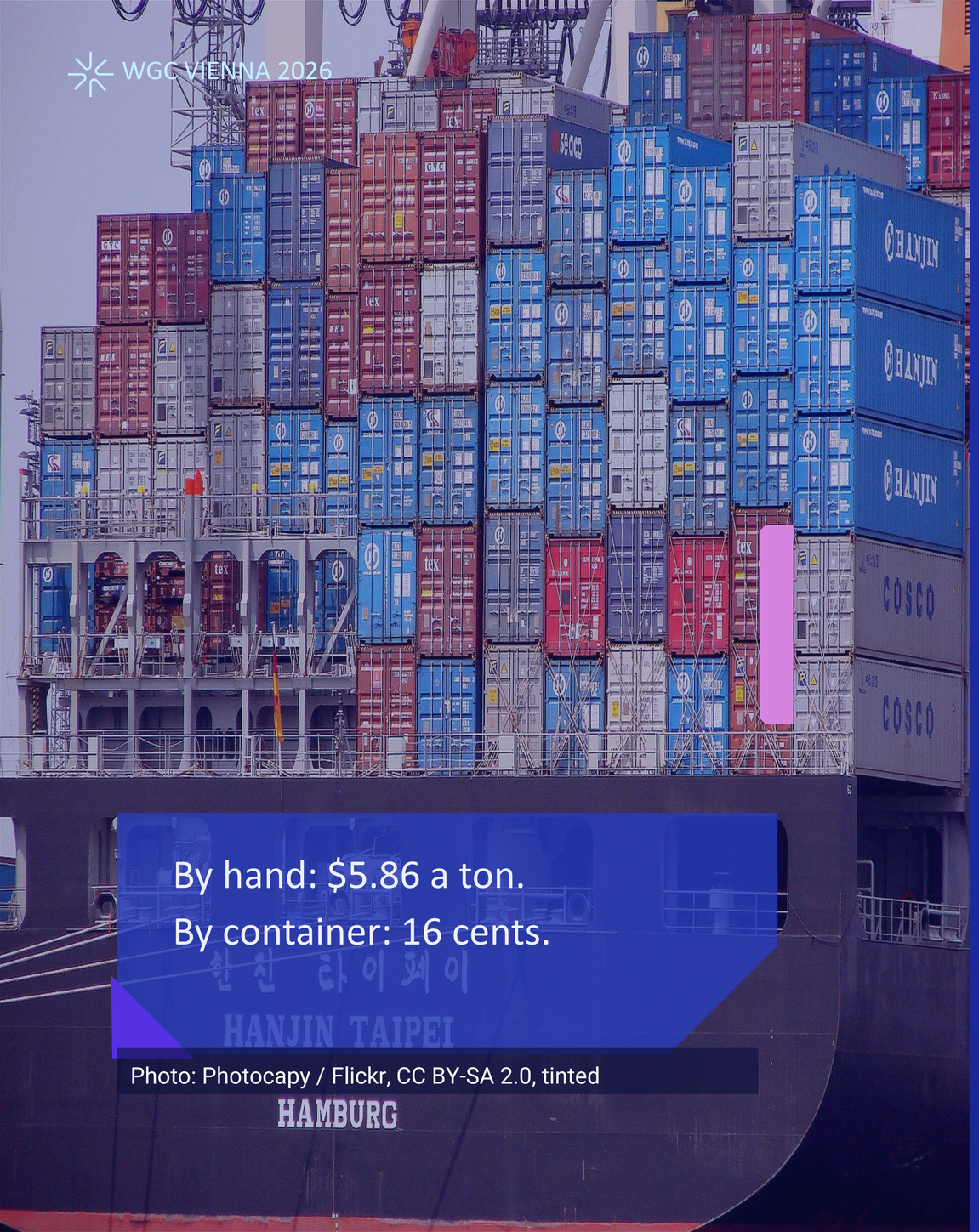


Cellular: spotty

Satellite: connected

Cellular: back

Hotel: Wi-Fi



By hand: $5.86 a ton.
By container: 16 cents.

Photo: Photocapy / Flickr, CC BY-SA 2.0, tinted

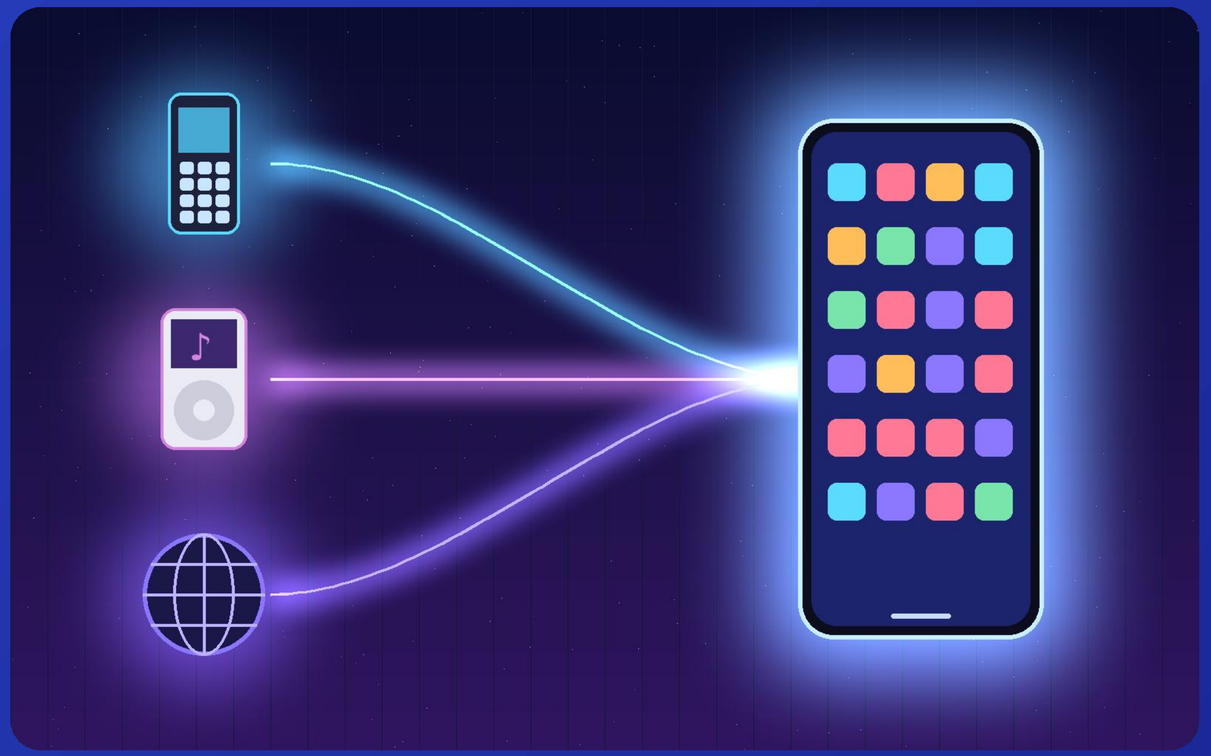
THE CONTAINER STORY

One container changed the world

01 **Ship: the Ideal X, 1956**
58 containers, Newark to Houston

02 **Rail: same container, no unpacking**
Crane it straight onto a train

03 **Truck: same container, to the door**
The standard everyone built on



3 in 1

JANUARY 9, 2007

Three devices became one

Phone

Calls and texts, anywhere

iPod

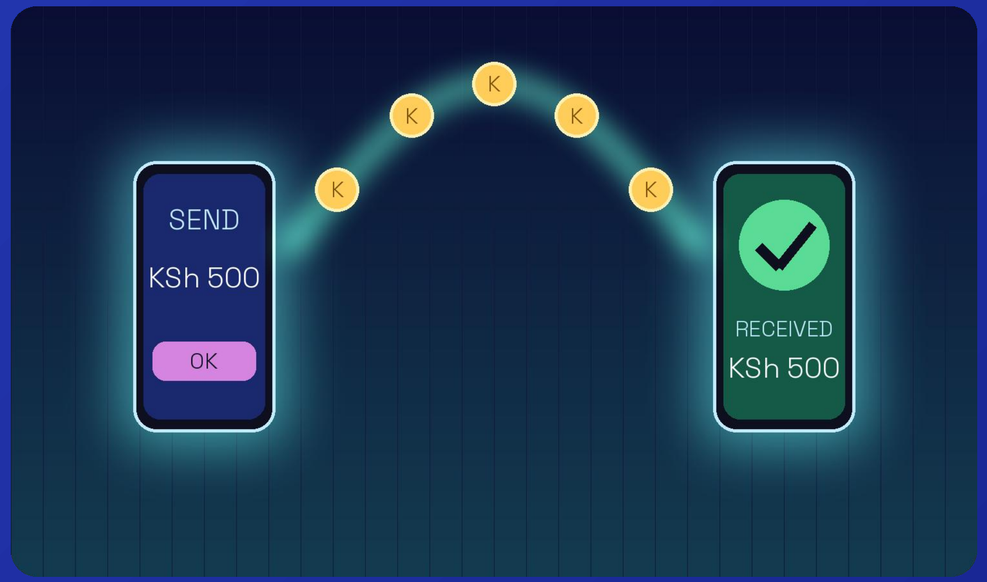
Your whole music library

Internet

Web and email. Apps came in 2008

Your phone became your bank

March 2007, Kenya: Safaricom and Vodafone launch M-Pesa. Money moves like a text message. No branch, no bank account, just a SIM card.



M-Pesa, Kenya

Households lifted out of poverty	194K
Share of all Kenyan households	2%

Source: Suri & Jack, Science (2016)



Image: NASA, public domain

1983: GPS for all.
2000: blur off.

THE GPS STORY

Military satellites went civilian

01 **Rideshare**
A car finds you at the curb

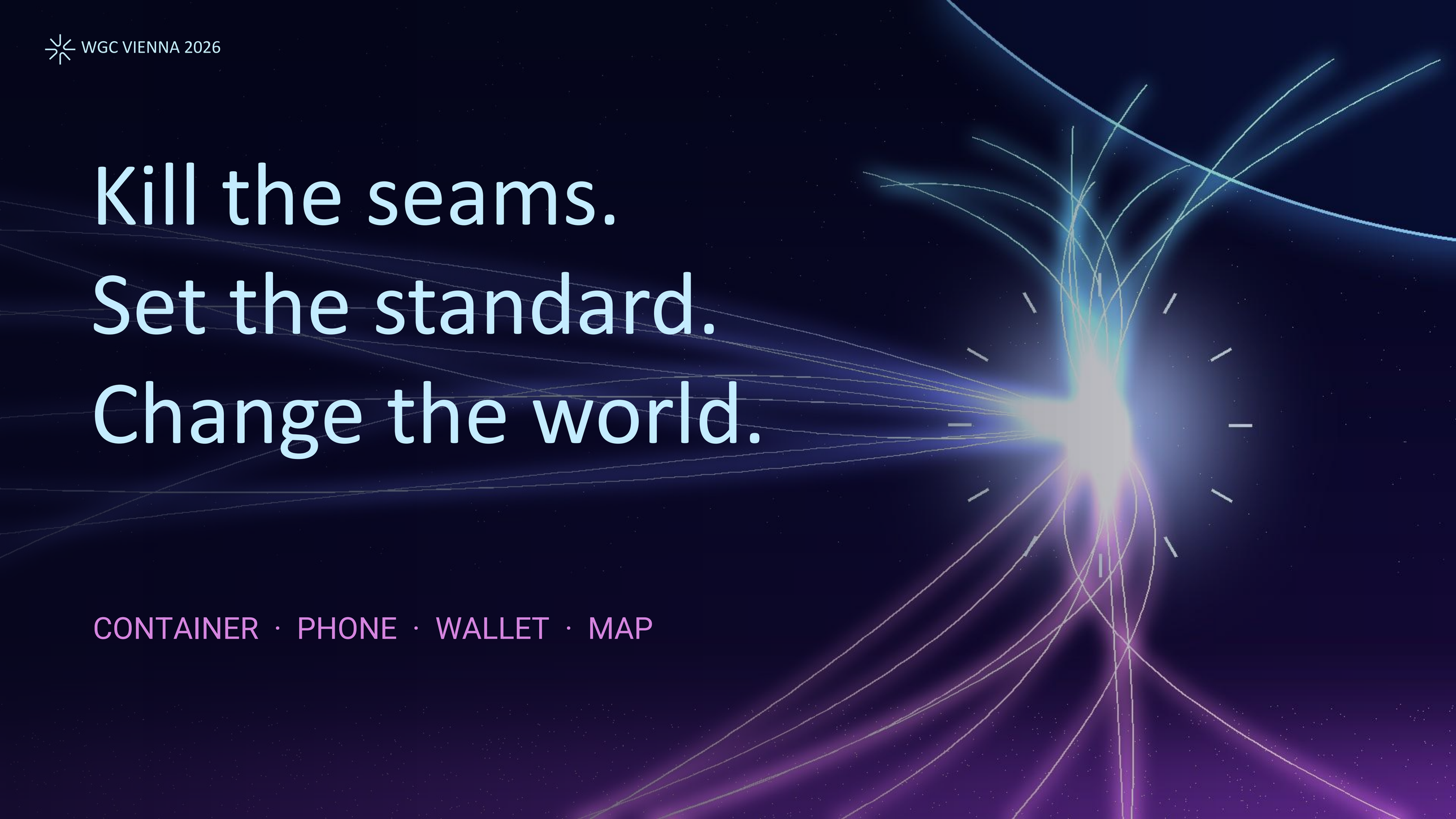
02 **Logistics**
Every truck and parcel on the map

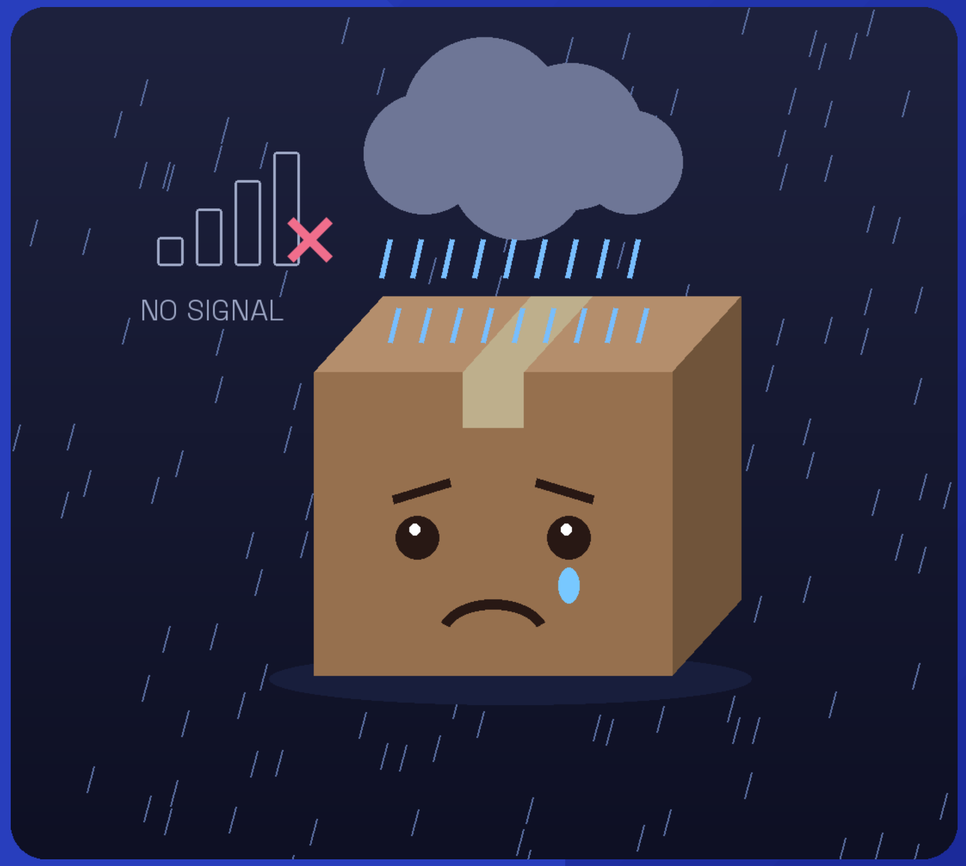
03 **Precision farming**
Tractors guided by satellite

WGC VIENNA 2026

Kill the seams.
Set the standard.
Change the world.

CONTAINER · PHONE · WALLET · MAP





No bars. No luck.

TODAY

Every network is a stranger

Identity: a new login everywhere	Siloed
Onboarding: portals, passwords	Manual
Roaming: no handoff, Wi-Fi to sat	Broken

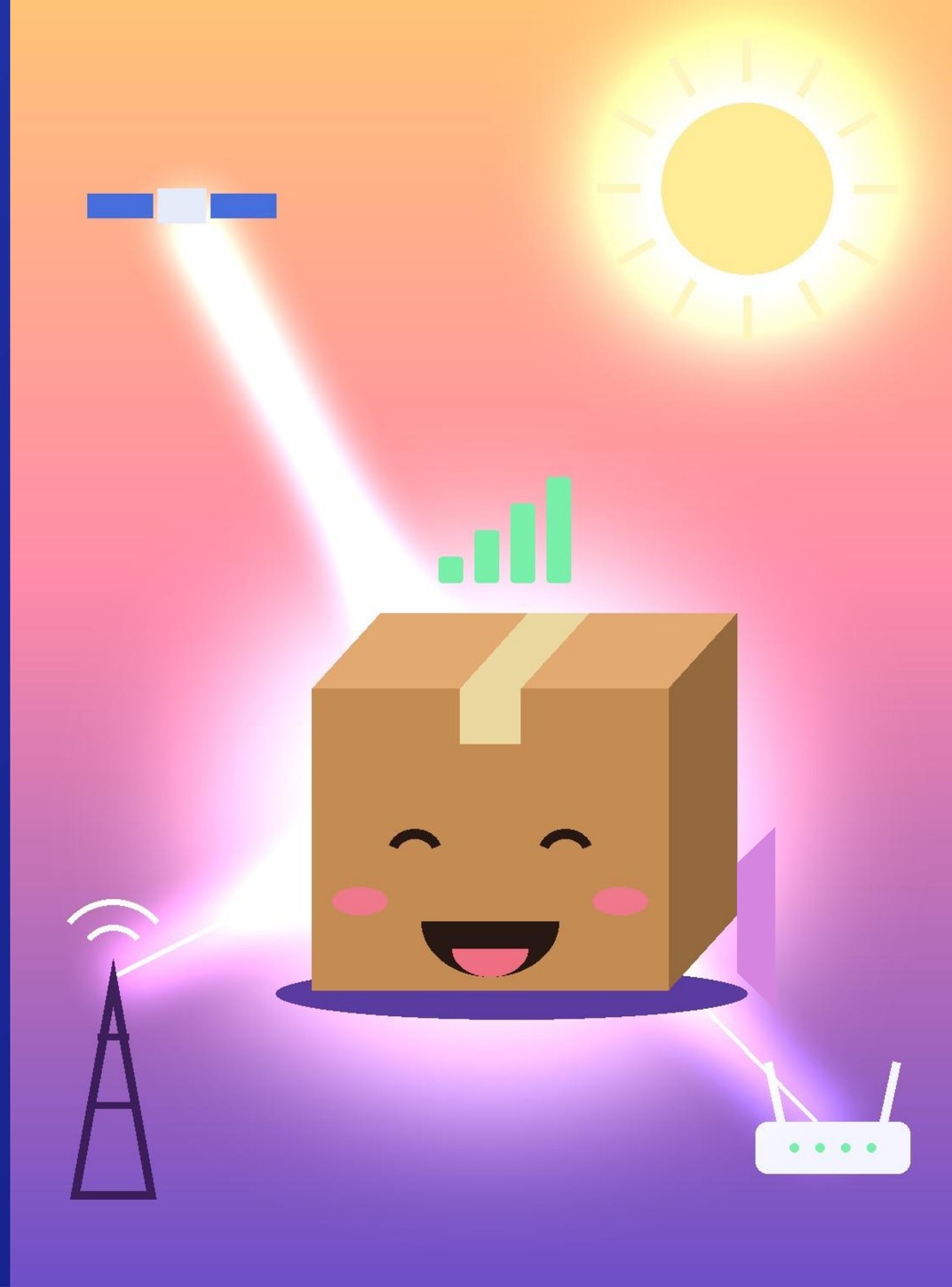
WGC VIENNA 2026

THE FUTURE: 2030

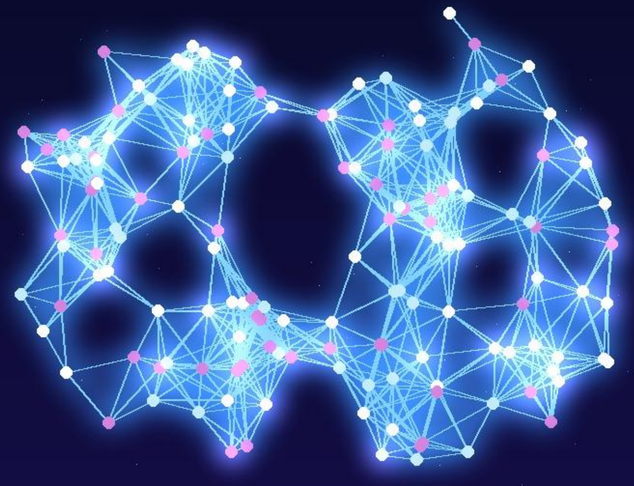
One fabric. Zero seams.

Your device never asks which network. AI picks the best path, ground to orbit.

Wi-Fi + Cellular + Satellite = One network



Dr. Derek Peterson



AI



The brain and the lock

AI IS THE BRAIN

It picks the path, heals the network, and runs ops from ground to orbit.

QUANTUM IS THE LOCK (AND THE THREAT)

Post-quantum crypto must protect identity and roaming before quantum computers can break today's keys.

NIST published its first post-quantum standards on Aug 13, 2024.

WBA built the container once. Now let's build it for everything.

1

PASSPOINT

Wi-Fi joins automatically

2

OPENROAMING

One identity, millions of hotspots

3

CELLULAR

The same identity on 5G

4

SATELLITE

3GPP Rel-17 takes 5G to orbit

5

ONE FABRIC: 2030

Every network, one identity

WGC VIENNA 2026

Let's make the seams history.

1 One identity, every network: extend OpenRoaming across Wi-Fi, cellular and satellite.

2 Bring satellite and cellular operators to the WBA table now, with a convergence workstream in 2027.

3 Make AI-run, post-quantum-secure roaming the default, not the afterthought.

Wireless Global Congress EMEA

WGC EMEA

NETWORKING COFFEE BREAK
BE BACK IN 30 MINUTES AT 11.10 AM CET



Wireless
Global Congress
EMEA



Steve Namaseevayum

VP Industry Engagement, Wireless Broadband Alliance

Moderator Introduction

Wireless
Global Congress
EMEA

ENTERPRISE WIRELESS CONNECTIVITY



Wireless Global Congress
Wireless Broadband Alliance

Time	Presentation
11:10 AM	**Moderator Introduction** Steve Namaseevayum – VP Industry Engagement, Wireless Broadband Alliance
11:15 AM	**The Venue of the Future: How OpenRoaming Enables Data-Driven Operations** Carlos Sanchez – Telco Services Manager, Fira de Barcelona Antonio Alvaro Montis Palos – Telecommunications Venue Manager, Fira de Barcelona
11:30 AM	**Overcoming Wi-Fi 8 Adoption for Service Providers** James C. Chen, Ph.D – VP, Product Technology Marketing, Mediatek
11:50 AM	**Self-Driving Networks are Real and Here** Mittal Parekh – Senior Director, Product and Solutions Marketing, HPE
12:10 PM	**CONNECTED COMMUNITIES FORUM PANEL:** **Automation, Intelligence, and Optimization: How Wi-Fi is Driving Intelligent Connectivity Innovation** Mittal Parekh – Senior Director, Product and Solutions Marketing, HPE Carlos Sanchez – Telco Services Manager, Fira de Barcelona Shawn Bausman – Associate Director - Wi-Fi and Neutral Host Technologies, AT&T Andy Conway – CTO Europe, Boldyn
12:50 PM	**NETWORKING LAUNCH**

Wireless Global Congress EMEA

The Venue of the Future: How OpenRoaming Improves Data-Driven Operations



Carlos Sanchez

Telco Services Manager,
Fira de Barcelona



Antonio Alvaro Montis Palos

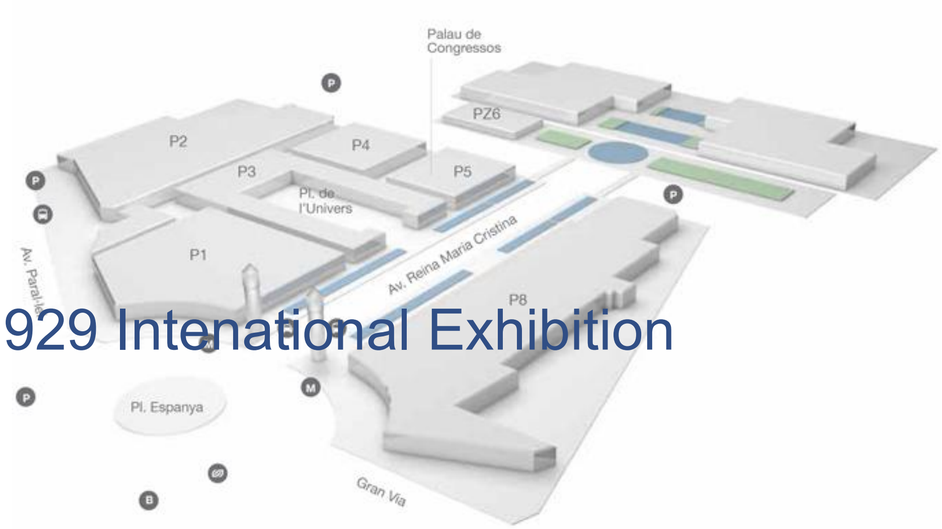
Telecommunications Venue Manager,
Fira de Barcelona

The Venue of the Future

How OpenRoaming improves Data-Driven Decisions

Fira de Barcelona

VENUES. Montjuïc

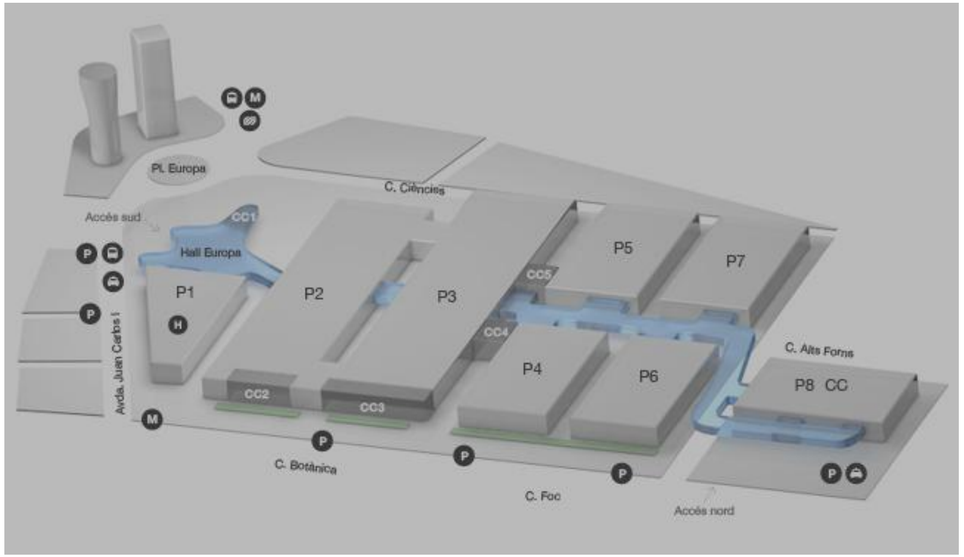


- Monumental and Symbol of Barcelona, legacy from 1929 International Exhibition
- At the city center on a privileged environment
- 135.000 m2 gross Surface
- 6 Halls, services and public transport



Fira de Barcelona

VENUES. Gran Via



- One of the newest, modern and more efficient
- Located at the business metropolitan área of BCN
- 240.000 m2 gross Surface
- 8 Halls, Convention Centers, Heliports, services and public transport

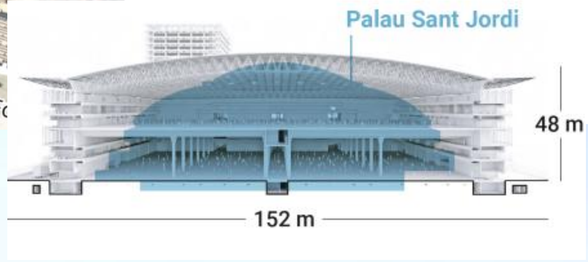


Fira de Barcelona new Hall 0

Hall 0. Gran Via

- + 25% of current surface
- 240.000 m2 + 60.000 m2 Exhibition surface
- > 230 M€ of investment
- 1 office tower + 2 levels of Exhibition space + EMRs + gardens







Fira & Openroaming: A Growing Partnership

OPENROAMING™
WIRELESS BROADBAND ALLIANCE

2023

- Fira launches an internal app to test seamless Wi-Fi across Montjuïc and Gran Via venues. Openroaming is introduced at SCEWC for the first time.

2024

- Year-over-year improvements deliver happier attendees through smoother, seamless connections and richer device location insights. We apply OR to all internal events.

2025

- WHAT'S NEXT???



SCEWC – The event APP

Free Wi-Fi offered through PSK (login & password) until 2023.

3-day event in November at Fira Gran Via

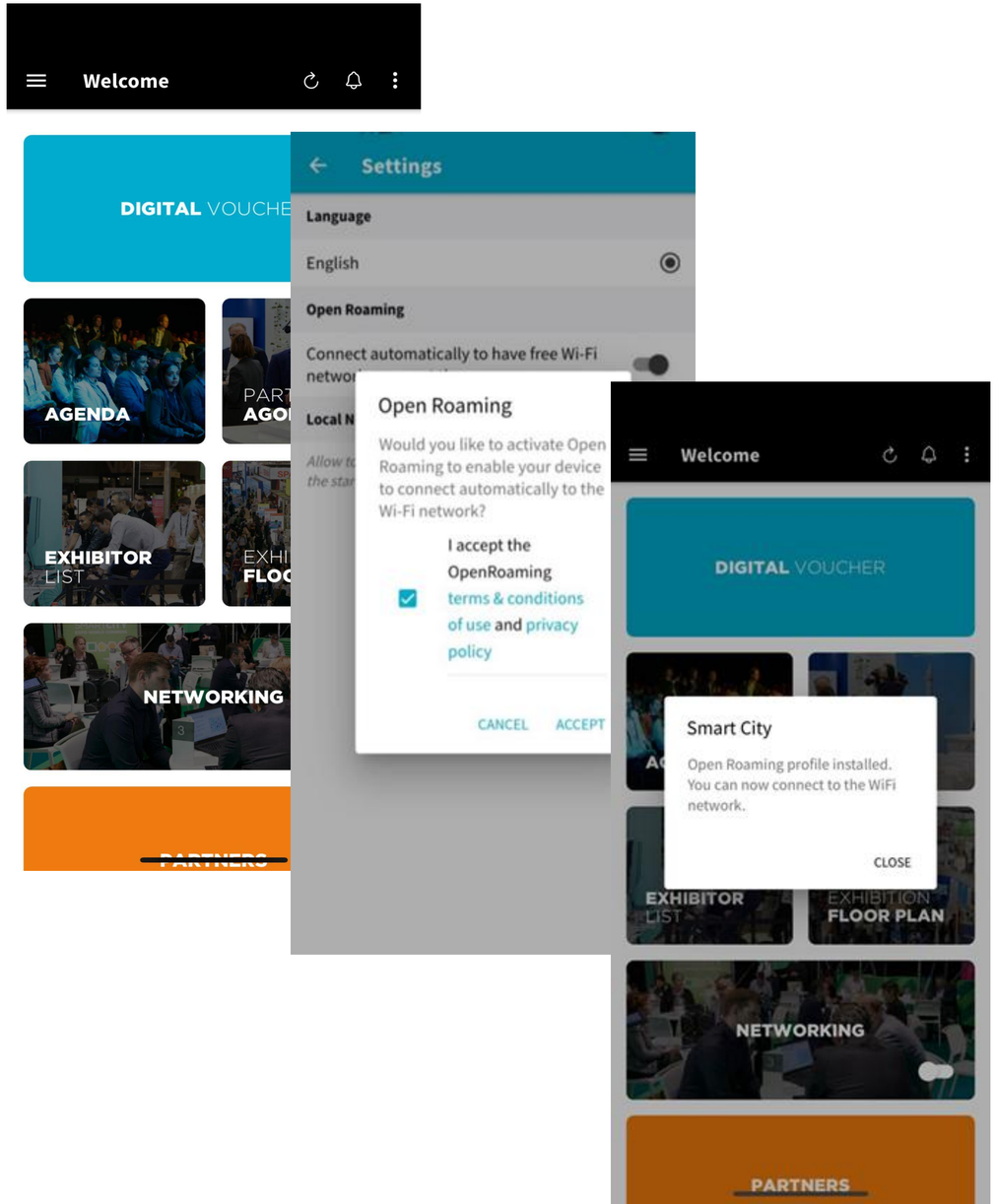
- Free WI-FI offered across all Halls.
- Access is mandatory via QR code through the official event APP.

What the APP delivers

- Networking tools and attendee directory
- Interactive floorplan of the event
- Full agenda and sessions schedules

Openroaming SDK embedded in the event APP

Once downloaded, attendees accept T&C and connected seamlessly to the Wi-Fi – no manual login required.



SCEWC’25 – APP KPIs

20,411

App Downloads

Event app downloads across all 3 days

66%

Acceptance Rate

Users accepting T&C for seamless WiFi

285

Removed OR

Users who removed Openroaming after installation
1.4% uninstall rate

12,269

Openroaming Activations

60.1% activation rate

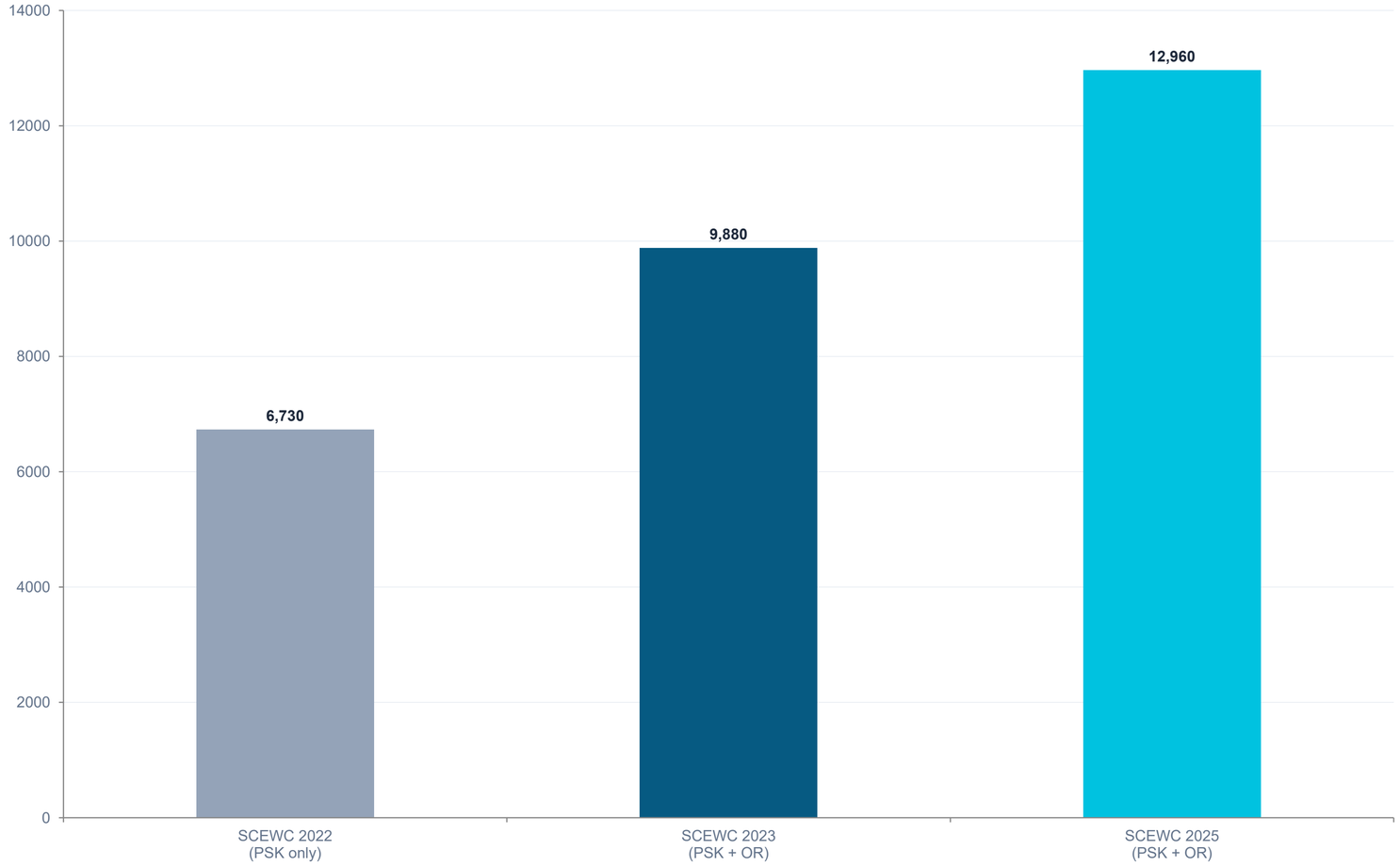
Key insight

2,913 users experienced installation failures — representing 14.3% of downloads. This is an important area for technical improvement in 2026 to maximise the OR adoption funnel.

✓ **Two-thirds of all app users activated Openroaming — a strong signal of trust in the seamless connectivity experience**.

Devices Associated – Year over Year

Total Wi-Fi associations across SCEWC editions



From PSK to Openroaming

+46%

2022 → 2023

OR launch alongside PSK

+31%

2023 → 2025

Confirmed OR growth trend

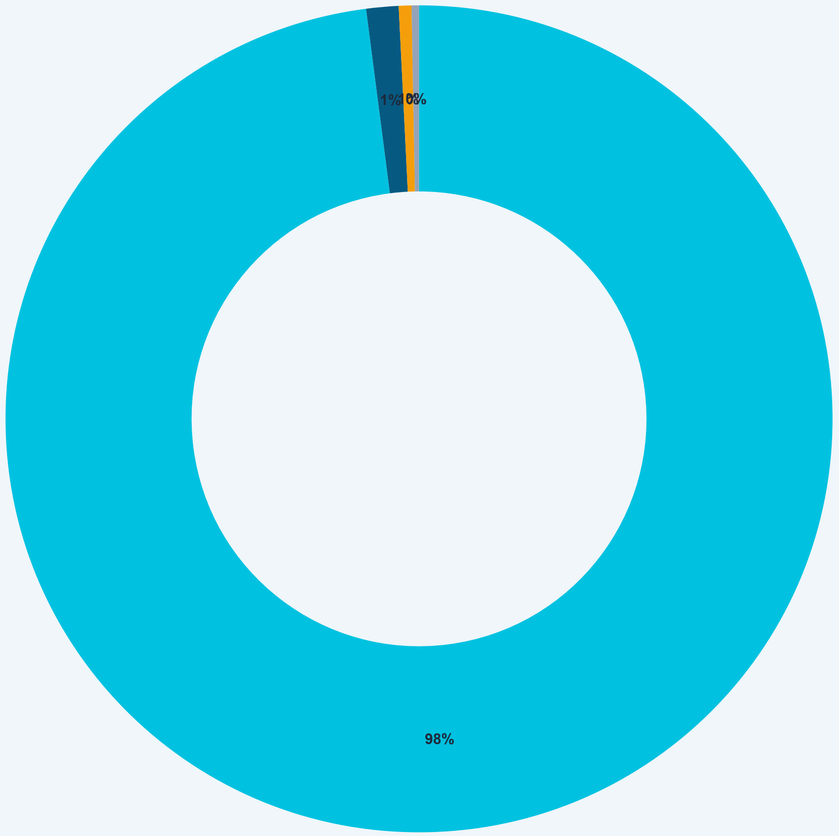
+93%

2022 → 2025

Total 3-year growth

Openroaming – Identity Provider Breakdown

Total OR-connected devices: 10,070 · SCEWC 2025



98% · 9,864 devices

SDK (App)

Primary channel — users who downloaded the event APP and accepted T&C

1.2% · 127 devices

AT&T

Carrier-based Openroaming — US operator automatic authentication

0.4% · 50 devices

Samsung

Samsung device Openroaming integration

0.2% · 29 devices

Eu-Sdk

European SDK variant

Location analytics

Fira Barcelona provides location analytics for devices via Wi-Fi using a dashboard integrated with DNA Spaces. With the help of OR, location analytics have been enhanced: An increased number of connected devices leads to more frequent location updates.



WHAT’s NEXT?

OPENROAMING BENEFITS:

1. Automatic & Seamless connectivity
2. Secure
3. Easy App Integration
4. ??

UNIQUE OPENROAMING IDENTIFIER

2025

- Fira created a new dashboard that enables segmentation by job title and interests captured during the registration process— unlocking deeper attendee intelligence.

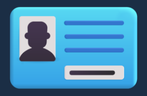
New Analytics dashboard for SCEWC’25

Fira Barcelona's DNA Spaces integration — connecting device location with attendee registration data



Location Accuracy

A higher number of OR-connected devices directly improves location tracking precision across all halls.



Identity Linkage

OR assigns a unique identifier per device, enabling connection of registration data (job title, interests) with physical presence.



Audience Segmentation

For the first time, segment hall and stage attendance by job title or sector interest declared at registration.



Activity Sector Interests

Distribution of attendee interests by sector: Smart Mobility, Energy, Infrastructure, Digital Cities, Governance, Innovation, etc. OR enables matching these profiles to hall dwell times.



Business Area of Attendees

Professional segmentation: City Government, Private Sector, Academia, NGOs, Startups, Investors. Enables understanding of which stages and content attract which professional profiles.

Stage Attendance Analytics

Who attended each stage — and what kind of audience did each speaker attract?

What this enables

Audience size per session

Real-time and historical count of devices present during each stage slot.

Speaker performance metrics

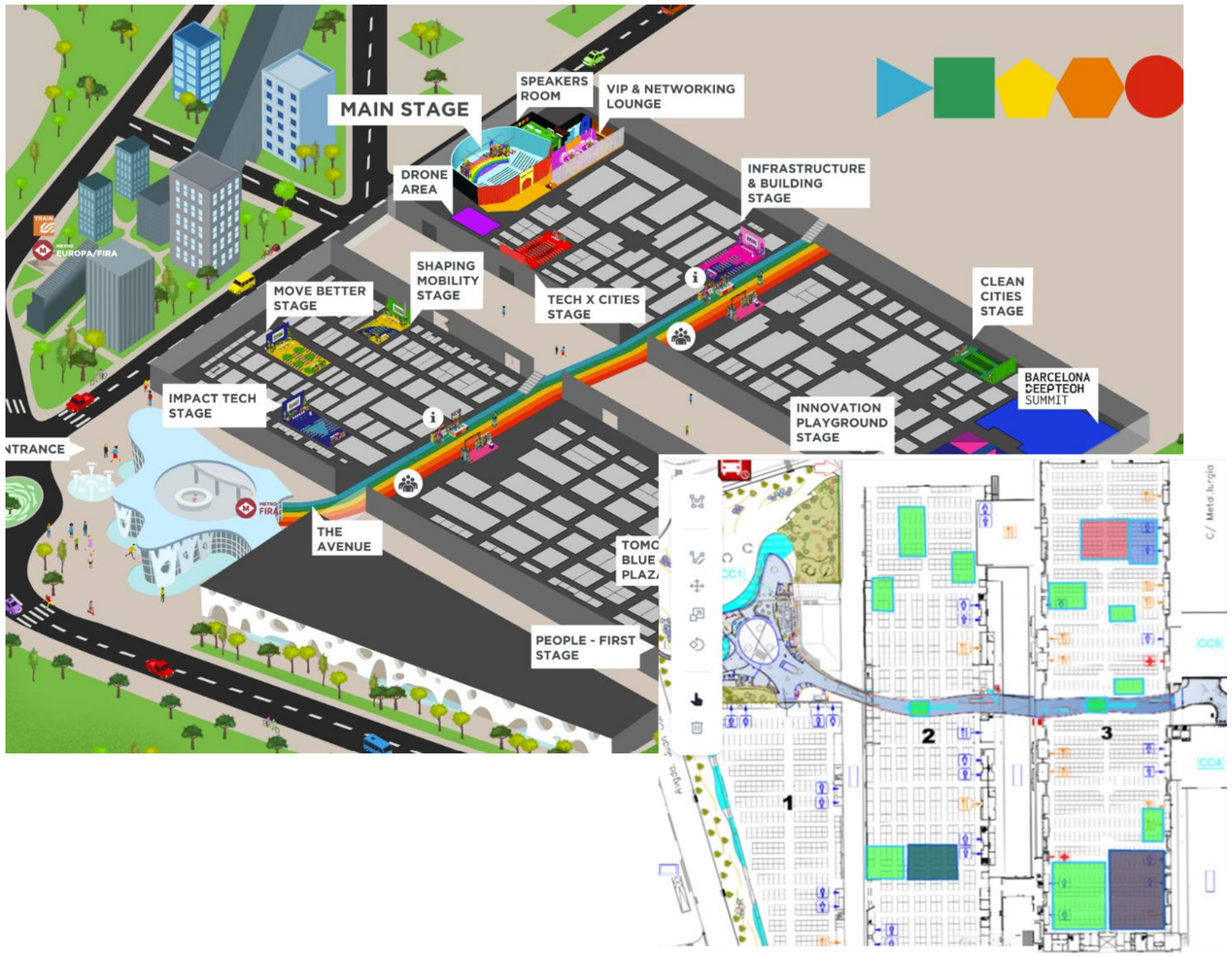
Which speaker attracted the most unique visitors and longest dwell time.

Profile of the audience

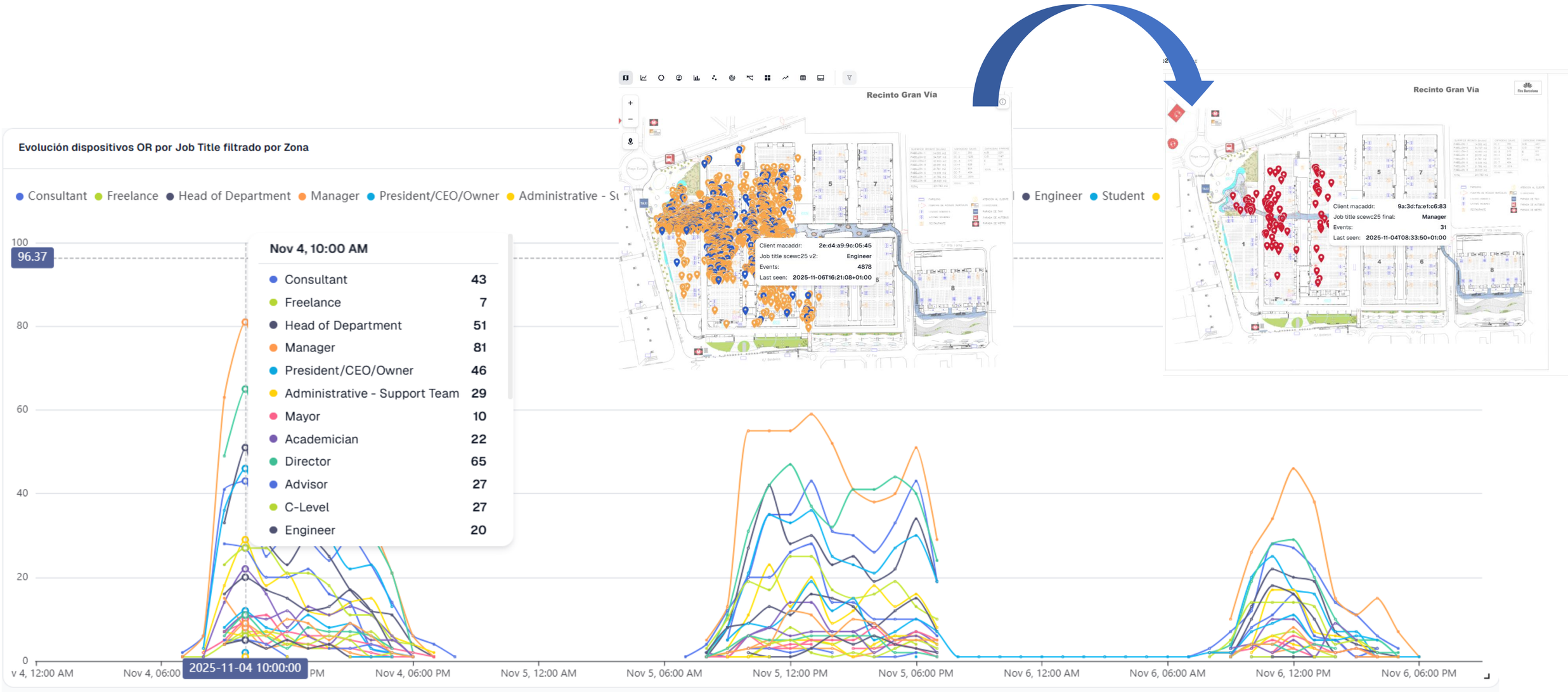
Job title and sector breakdown for each session thanks to OR identity linking.

Comparison across stages

Side-by-side attendance comparison between GVP2 and GVP3 stages.



Stage Attendance Analytics

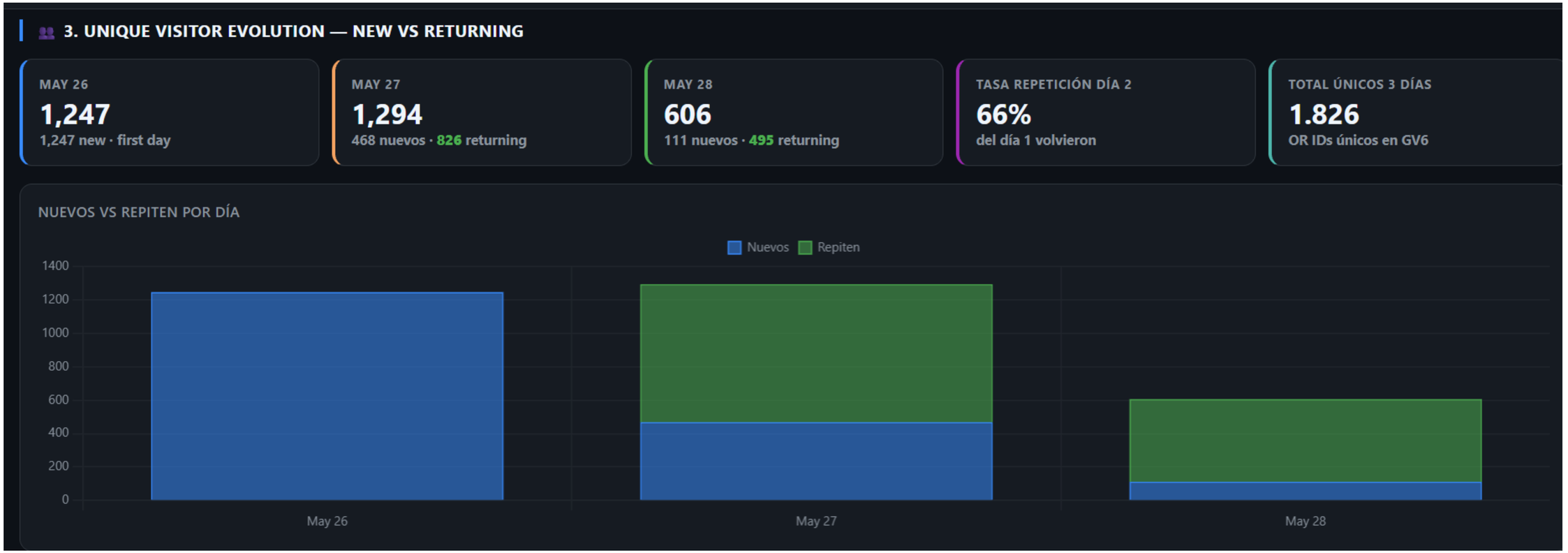


Stage Attendance Analytics





Stage Attendance Analytics (returning visitors)



Stage Attendance Analytics (dwell time per day)



Stage Attendance Analytics (job title per session)




Thank you

Wireless Global Congress EMEA



James C. Chen, Ph.D

VP, Product Technology Marketing, Mediatek

Overcoming Wi-Fi 8 Adoption for Service Providers

MEDIATEK

Overcoming Wi-Fi 8 Adoption for Service Providers

James Chen, Ph.D.

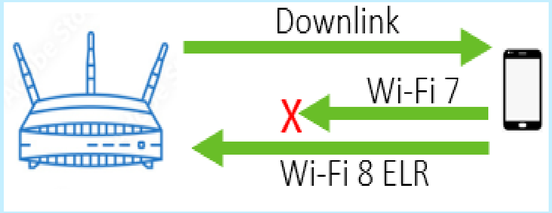
VICE PRESIDENT
PRODUCT TECHNOLOGY MARKETING

Wi-Fi 8: When Will Subscribers Enjoy Its Benefits?

With no Peak Speed Increase, How to Communicate Goodness

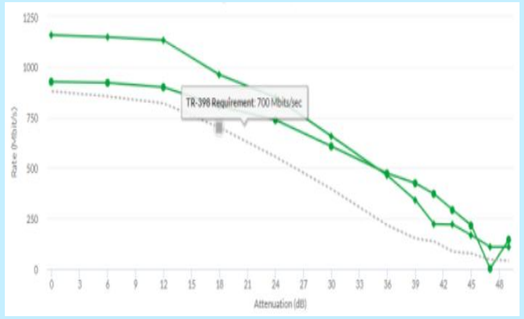
Wi-Fi 8 Makes AI Better (Wi-Fi 8 has Better Uplink)

1. **ELR** (Enhanced Long Range) for Better Uplink Range
2. **DRU** (Distributed Resource Units) for better Uplink Range, Speed



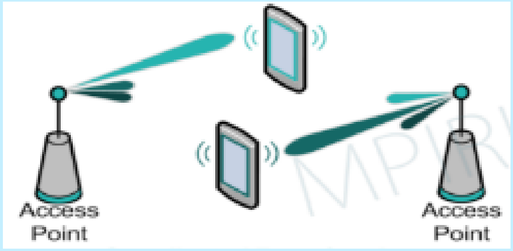
Wi-Fi 8 is Faster at More Locations in Everyday Use

3. **Unequal Modulation** for more speed in different environments
4. **More MCS Levels** for more speed at intermediate distances



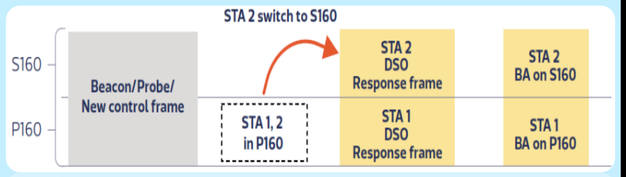
Wi-Fi 8 Mesh is Cellular Quality (Concepts from 4G/5G)

5. **Multi-AP Coordination** just like CoMP introduced in LTE
6. **Seamless Roaming** (instant handovers, no re-associations) same as shared keys, make before break



Wi-Fi 8 is More Network Efficient

7. **DSO** (Dynamic Sub-Band Operation)
   NPCA (Non-Primary Channel Access



MediaTek Brings Wi-Fi 8 Benefits to Non-Wi-Fi 8 Clients

Wi-Fi 8 APs and clients need 3+ years to reach 40% of all new shipments [IDC]

Some Features Need Even More Wi-Fi 8

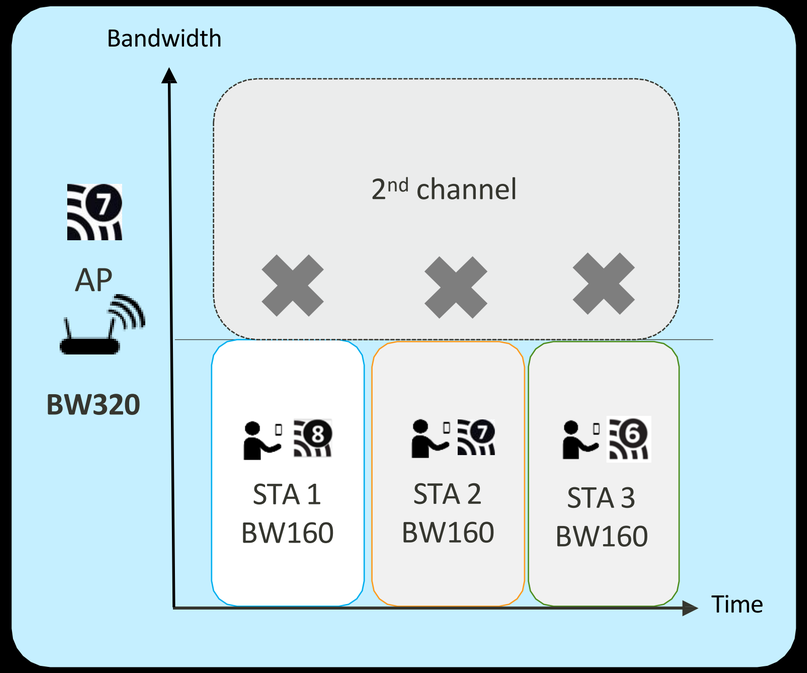
End-User Benefits	One Wi-Fi 8 AP + One Wi-Fi 8 Client	Additional Wi-Fi 8 AP	Additional Wi-Fi 8 Client
Improved AI Performance (ELR and DRU)	**YES**	**NO**	**NO**
Higher Speeds in More Locations (Unequal modulation, more MCS)	**YES**	**NO**	**NO**
Cellular-Quality Mesh (Multi-AP and Seamless Roaming)	**YES**	**YES**	**NO**
Improved Energy Efficiency (DSO, NPCA)	**YES**	**NO**	**YES**

Information Classification: General

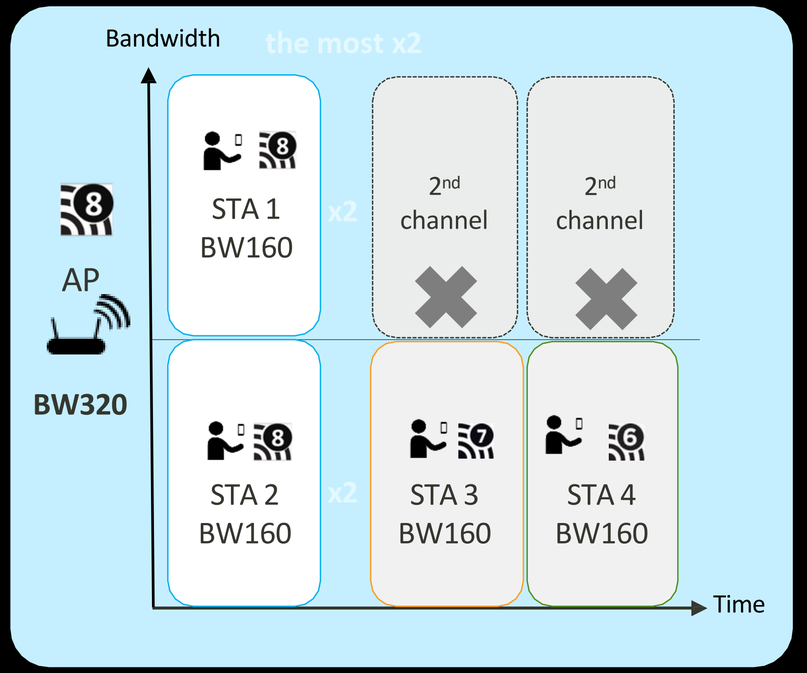
Wi-Fi 8 Features and What They Mean to Subscribers

No Need to Wait 3+ Years for Wi-Fi 8 Clients to Enjoy Wi-Fi 8 Features

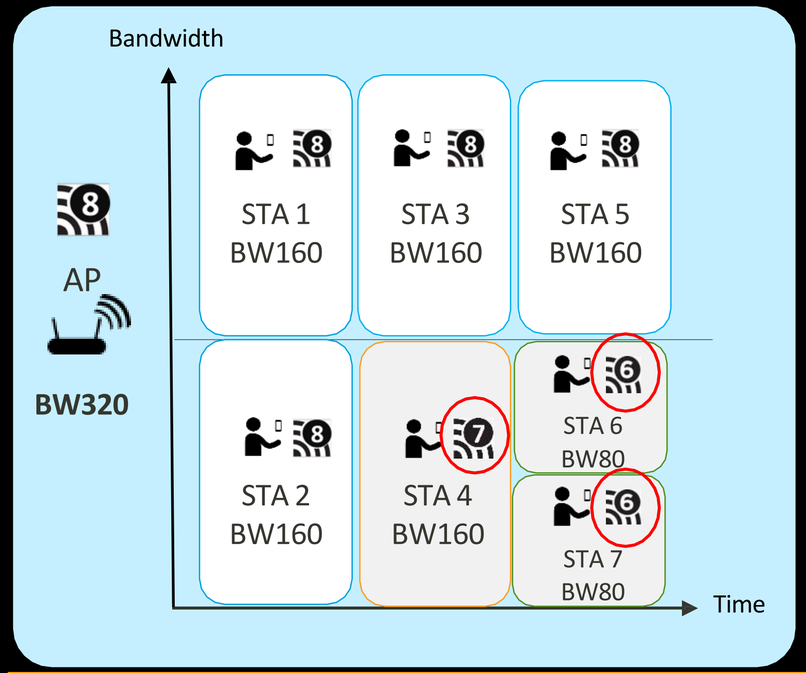
Wi-Fi 7 AP



Wi-Fi 8 AP WITH DSO



Wi-Fi 8 AP WITH MediaTek DSO++

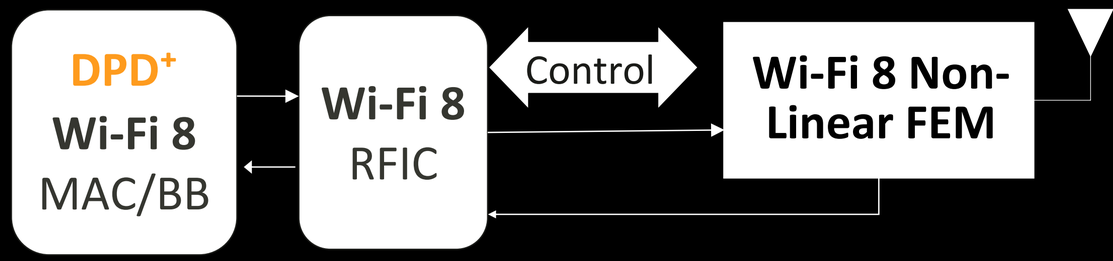


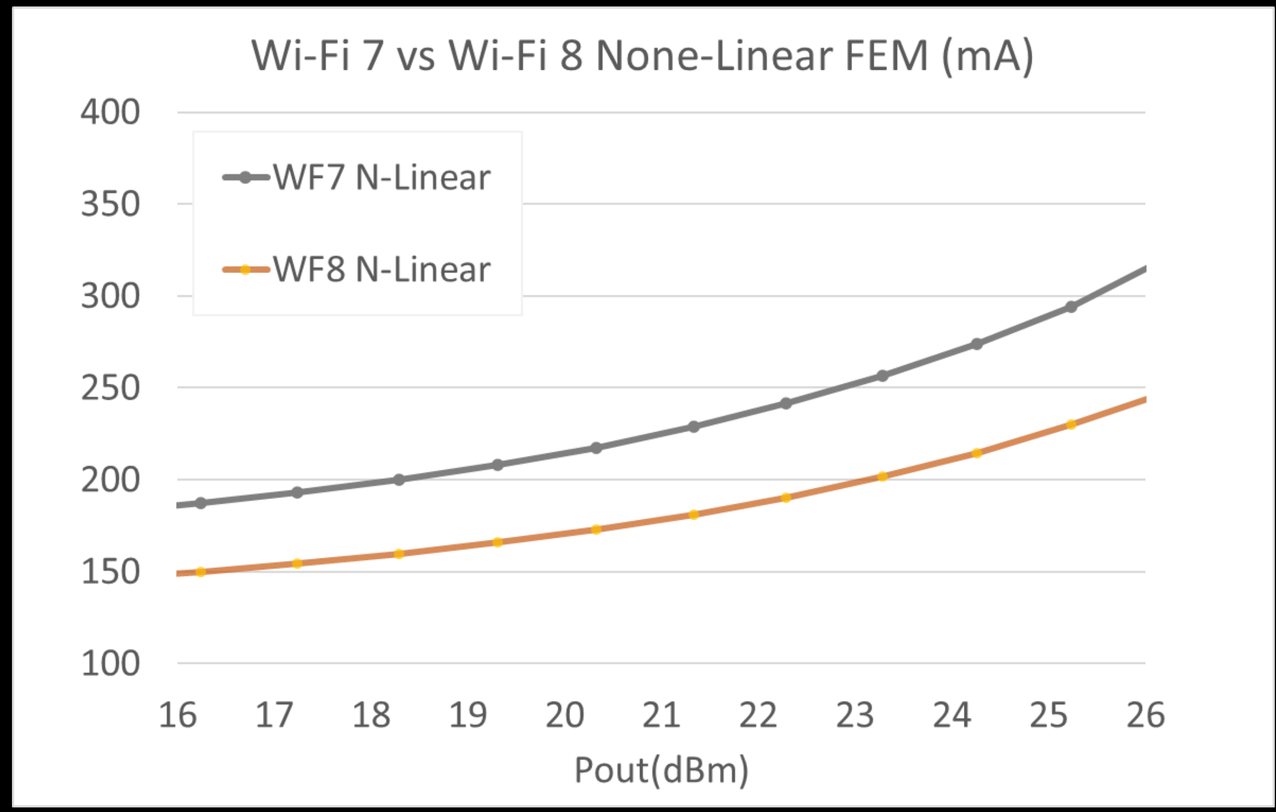
MediaTek DSO+ works with:
Non-MediaTek Clients
Legacy Wi-Fi 6 and Wi-Fi 7

Reducing Wi-Fi 8 Peak Power to be Less than Wi-Fi 7

A “Greener” Gateway is a Benefit to Subscribers

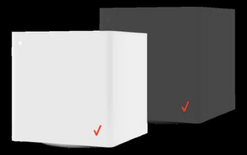
Target: Wi-Fi 8 = Wi-Fi 7 - 20%





Today’s Focus: Adding AI Applications for Operator Products

Adding AI → Cost Savings, More Reliability and New Services – Without NPU



5G CPEs



PON/10GPON Gateways



Ethernet Gateways + Mesh Nodes

AI for Improved Traffic Prioritization	→	Better User Experience	✓	✓	✓
AI for Improved Wi-Fi Reliability	→	Reduce User Calls	✓	✓	✓
AI for Reduced Energy Footprint	→	Reduce User Costs	✓	✓	✓

And Many Others to Come…

Information Classification: General

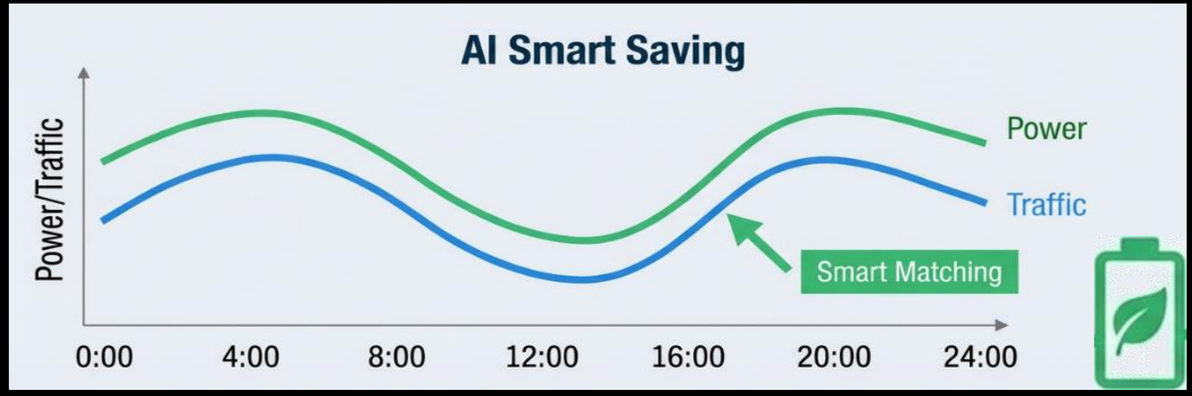
Trend: Using AI for Intelligent Monitoring and Control

Leveraging AI Autonomy towards ESG Goals for Sustainability and Network Efficiency

Before AI:
Full Power Regardless of Traffic



After AI:
Dynamic Operation Depending on Traffic



Up to 50% Less Power Consumption

Operator Shift: Hardware-led Solutions → AI-based Software Platforms

	Before: Reference Designs		Now: Platforms “Ready to Go” with AI
1	HW: Chipset Providers Make Reference Design	→	HW: Same + **HW for AI Acceleration (CPU or NPU)**
2	SW: Chipset Providers Support Open Frameworks (prpl, RDK, OpenWRT)	→	SW: Continued Support
3	Applications: 3rd Party + Operator Know How	→	Applications: Chipset Provider provides AI Applications

Key Take-Ways

1 No Need to Wait for Wi-Fi 8 Clients:

MediaTek DSO+ Gives Improvements for Legacy Wi-Fi 6 and 7 Clients with Wi-Fi 8 APs

2 For the 1st Time, a New Wi-Fi is More Energy Efficient:

MediaTek Wi-Fi 8 will be 20% Less Power Hungry than Wi-Fi 7

3 AI For Broadband Gateway Applications:

Use AI to Optimize Network Performance and Enhance Customer Experience

Information Classification: General

Thank You



Wireless
Global Congress
EMEA



Mittal Parekh

Senior Director, Product and Solutions Marketing, HPE

Self-Driving Networks are Real and Here

Self-Driving Networks Are Real And Here

Mittal Parekh
Senior Director, Product and Solutions Marketing
HPE Networking

Wireless Global Congress | Vienna, Austria | Oct 2026


HPE

Self-driving network automation is already changing our lives



After 200 million+ miles, autonomous vehicles have 85% fewer crashes



In the lowest visibility conditions, your airline flight can ***only*** be landed by autopilot.

Juniper Business Use Only

Why is Self-Driving Is MANDATORY In Enterprise Networking



50% Network Engineers to retire in the next 5 years



Network Operation Costs are set to increase by 15% YoY for next 5 years



Service Degradation is THE silent killer



Inflationary and Market Pressures are demanding that we do more with less



Digital Transformation Starts With The Network

There is a GOOD NEWS!

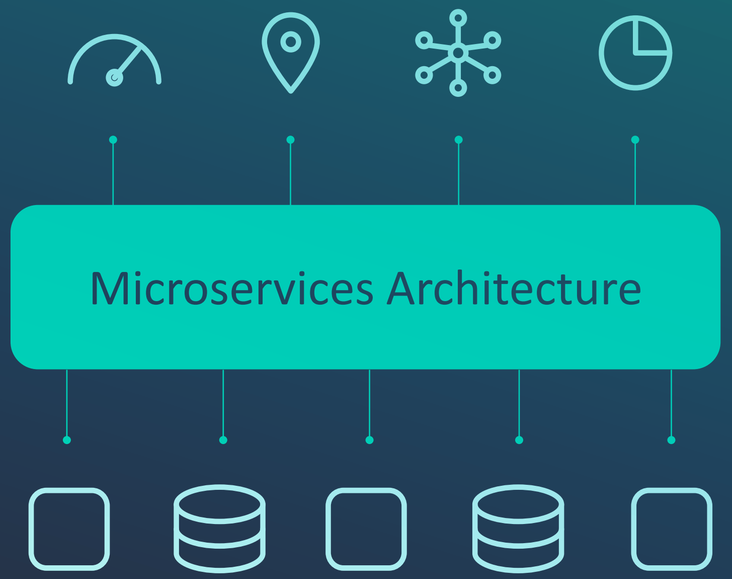
Juniper Business Use Only

Nuts and Bolts of a Self-Driving Network

Everything you always wanted to know but were afraid to ask

Juniper Business Use Only

Agentic Is the Next Frontier



Cloud Native



AI-native

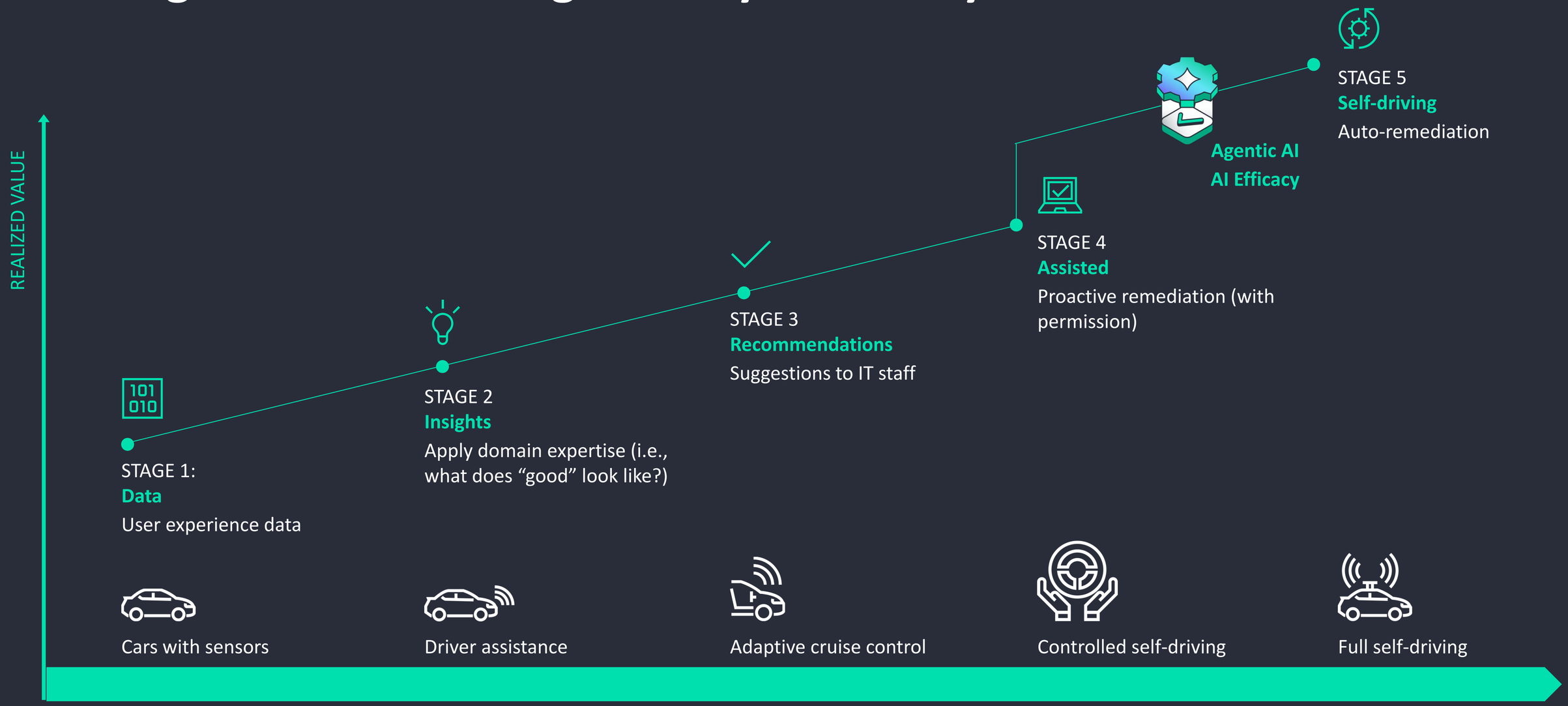


Trusted
Agentic AIOps

Self-Driving Networks

Juniper Business Use Only

Yes! Stage 5 of Self-Driving Journey is Already Here!



Juniper Business Use Only

Teams experience goes bad for a user

Marvis

Agentic orchestration layer

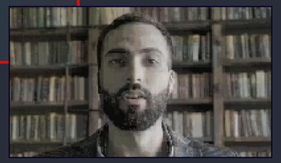
Agentic mesh

Experience-first data

Mature models

End user experience

!



Application experience

Network experience

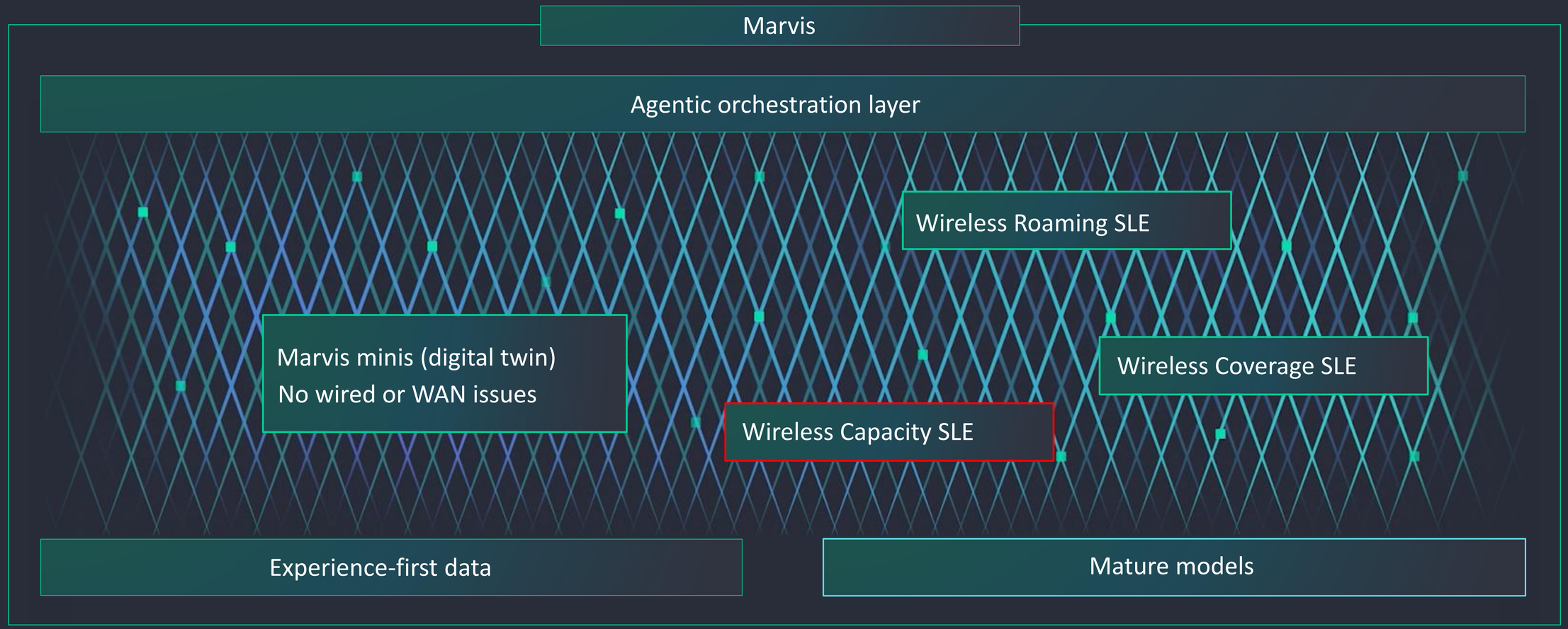
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LEM determines that MS Teams experience degradation is wireless network-induced, not random, not user-specific



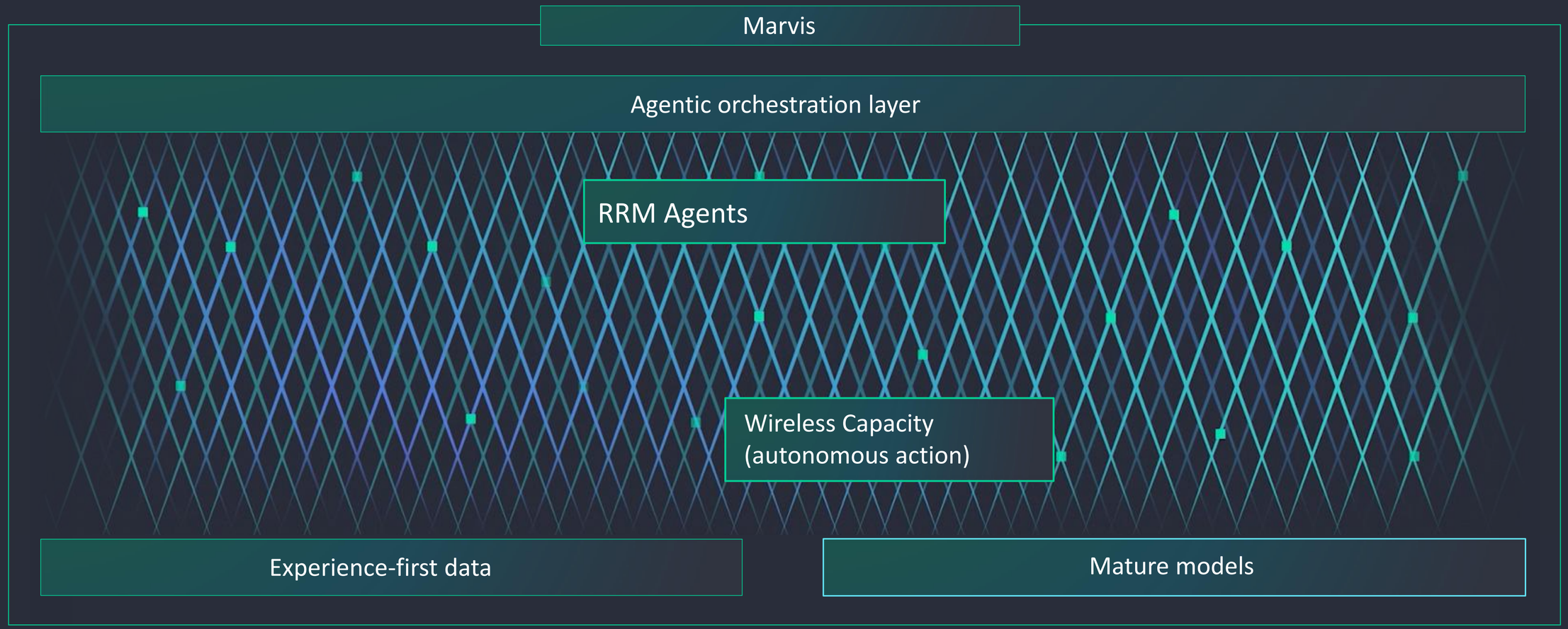
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Multiple network agents isolate the problem in parallel



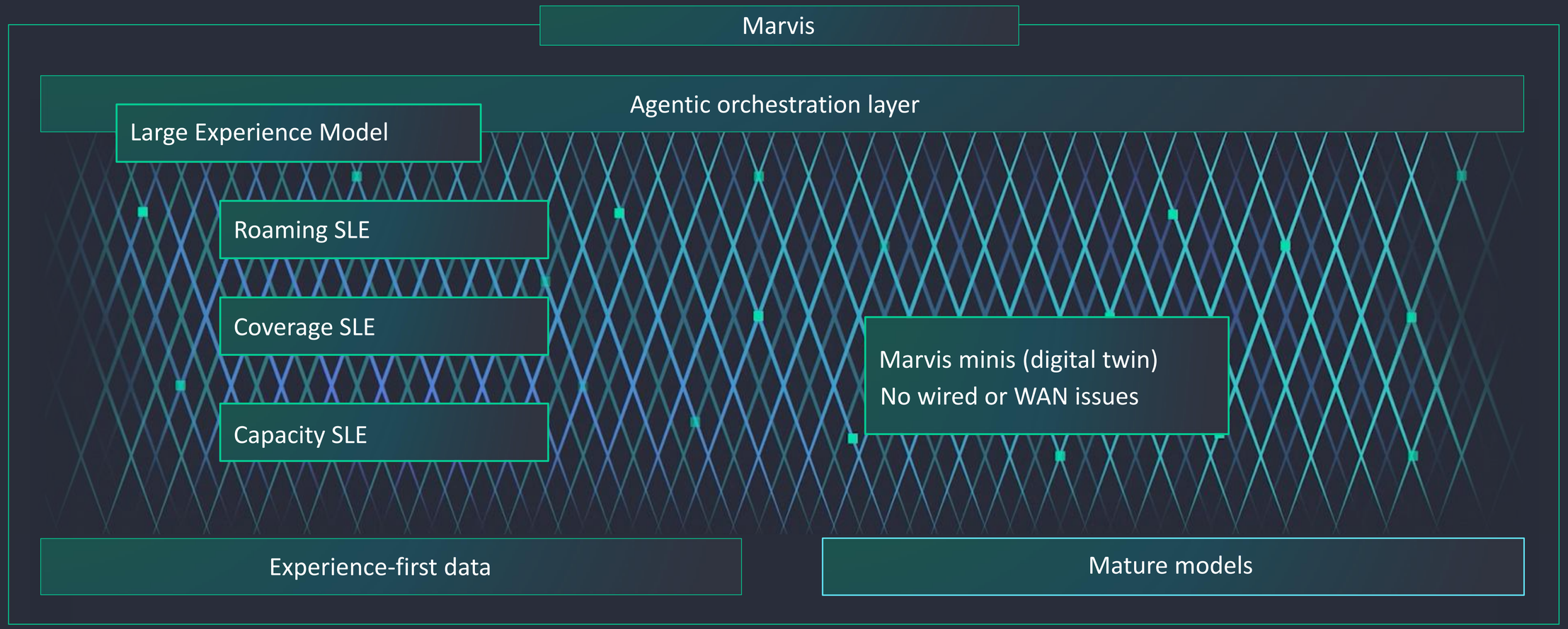
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Marvis auto corrects the issue



Juniper Business Use Only

Marvis validates



Juniper Business Use Only

LEM verifies it is good

Marvis

Agentic orchestration layer

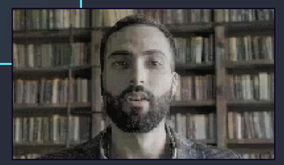
Large Experience Model

No issues

Experience-first data

Mature models

End user experience



Application experience

Network experience

Juniper Business Use Only

Nuts and Bolts of a Self-Driving Network

Everything you always wanted to know but were afraid to ask

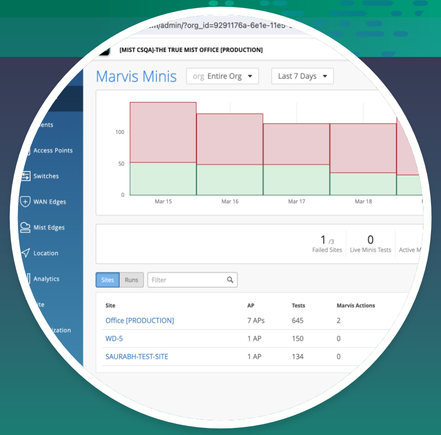
Juniper Business Use Only

Anyone can automate.
Self-Driving Takes Learning & Experience

Minis

101
010

Data



CLIENT | WIRED | WIRELESS | SD-WAN | EDGE | DATACENTER | 3RD PARTY

Secure micro service cloud architecture

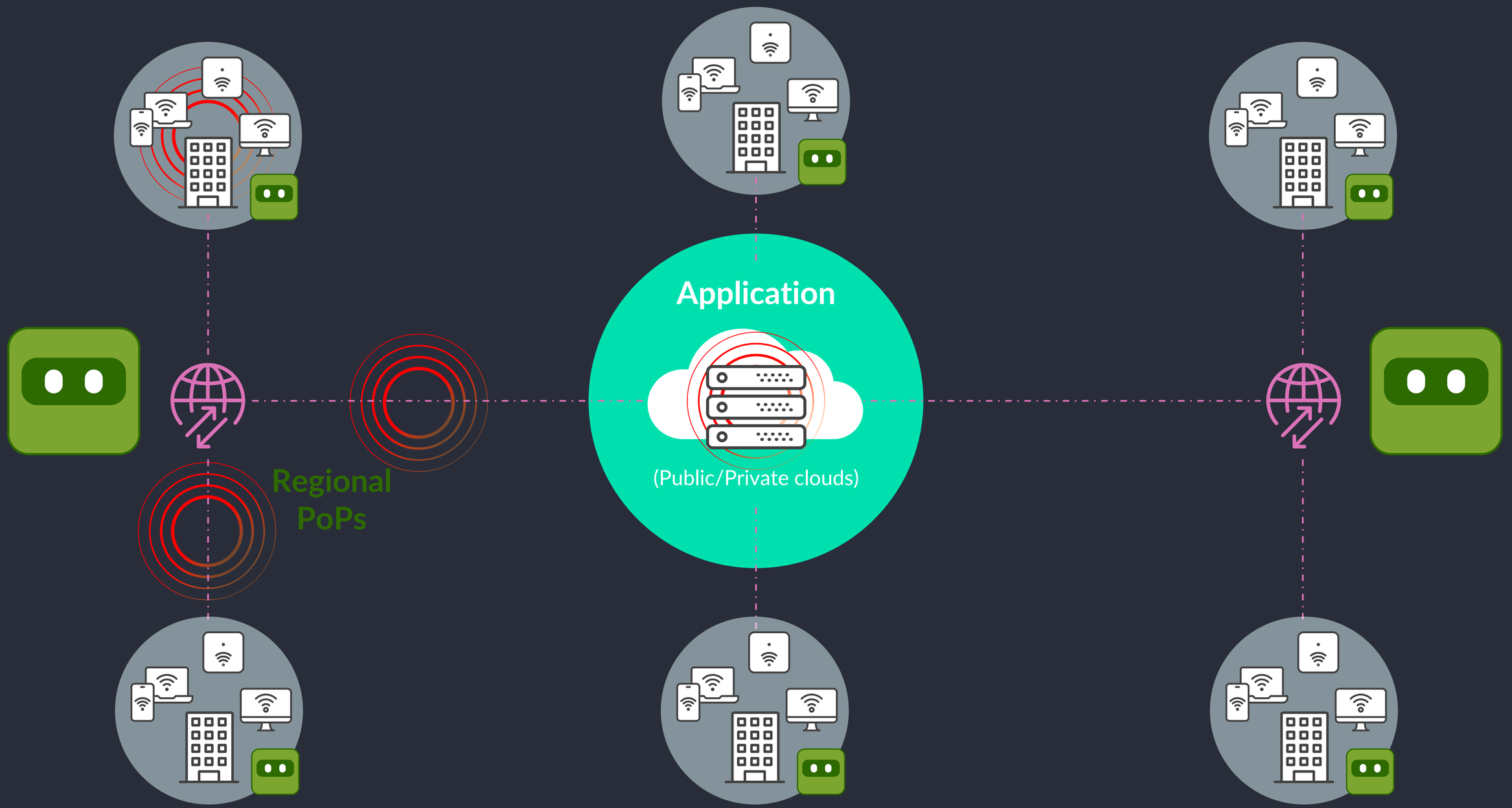
Juniper Business Use Only

Only Trust The Network That Tests Itself
End to End Digital Twin

Critical network services

Critical business applications




Application
(Public/Private clouds)
Regional
PoPs

Anyone can automate.
Self-Driving Takes Learning & Experience

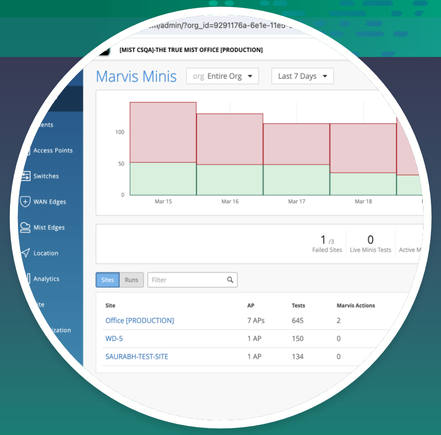
Minis

Generalized LEM

101
010

Data

Service
Level
Experience

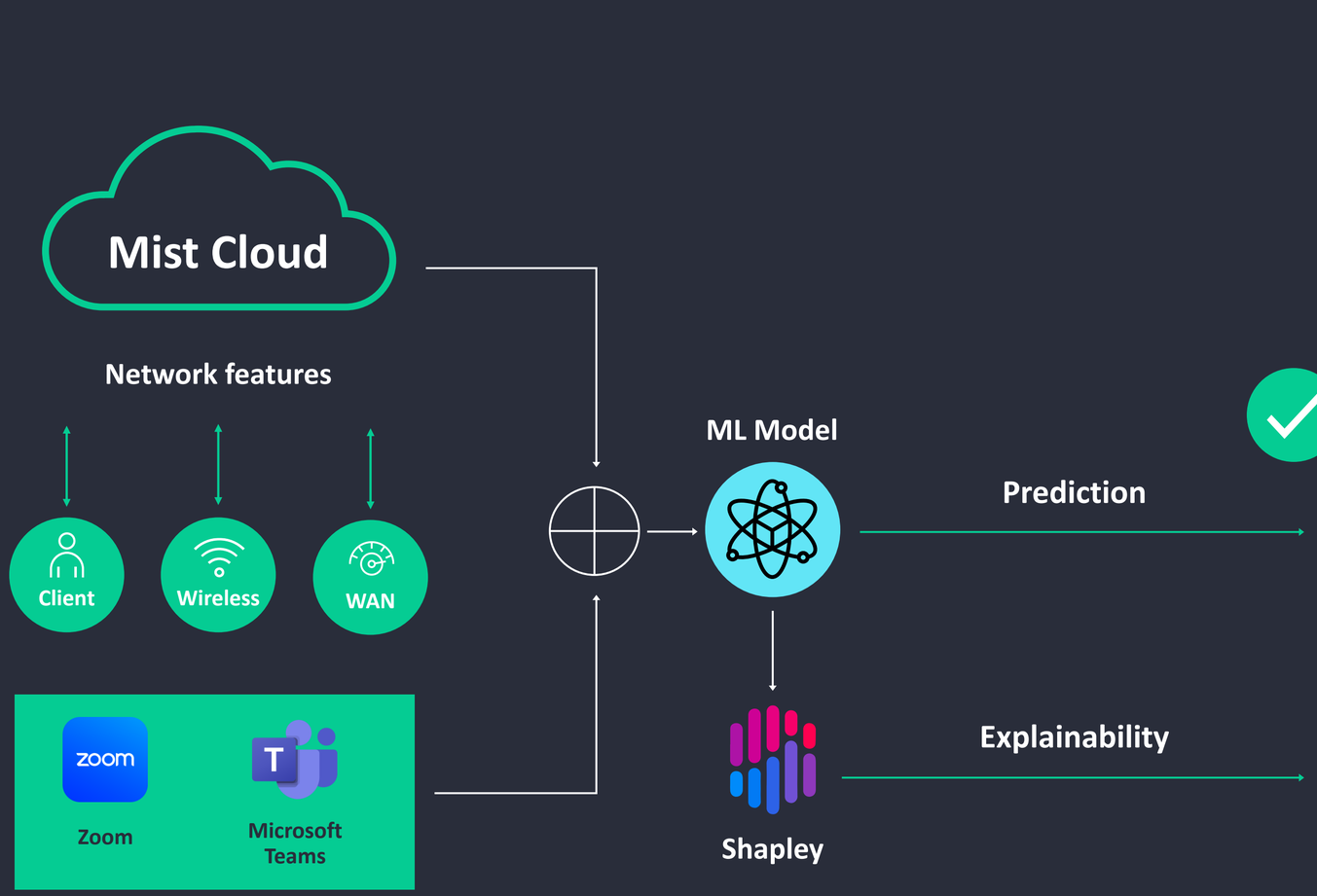


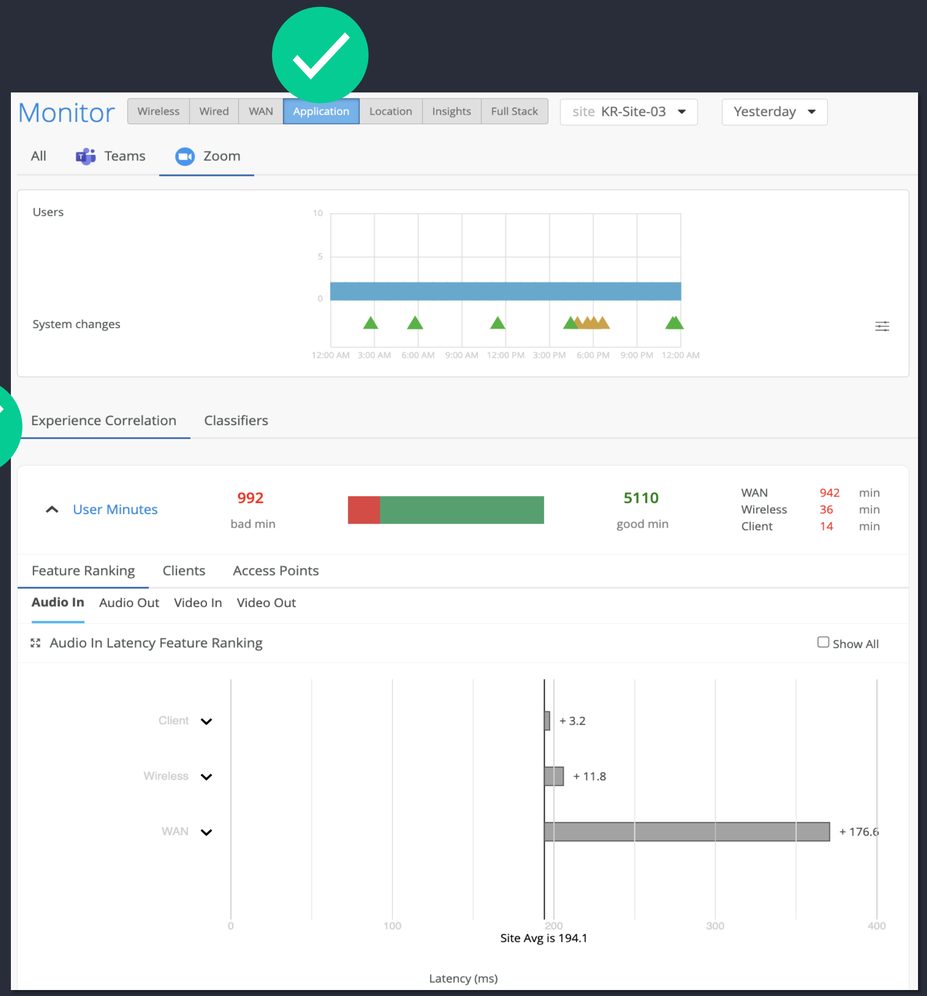


CLIENT | WIRED | WIRE

Secure micro service cloud architecture

Not a Language Model. An Experience Model.
Predict application experience





Juniper Business Use Only

Anyone can automate.
Self-Driving Takes Learning & Experience

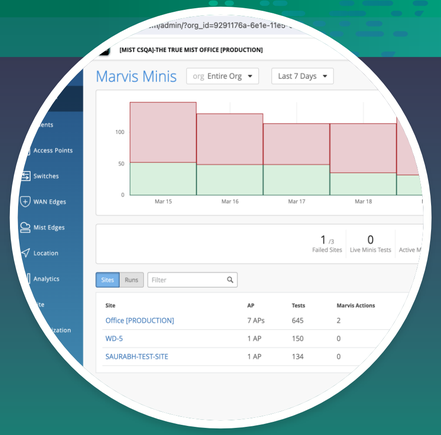
Minis ✓ Generalized LEM ✓ AIOps Efficacy ✓

AI AGENTS

101
010
Data

Service Level Experience

Data Science





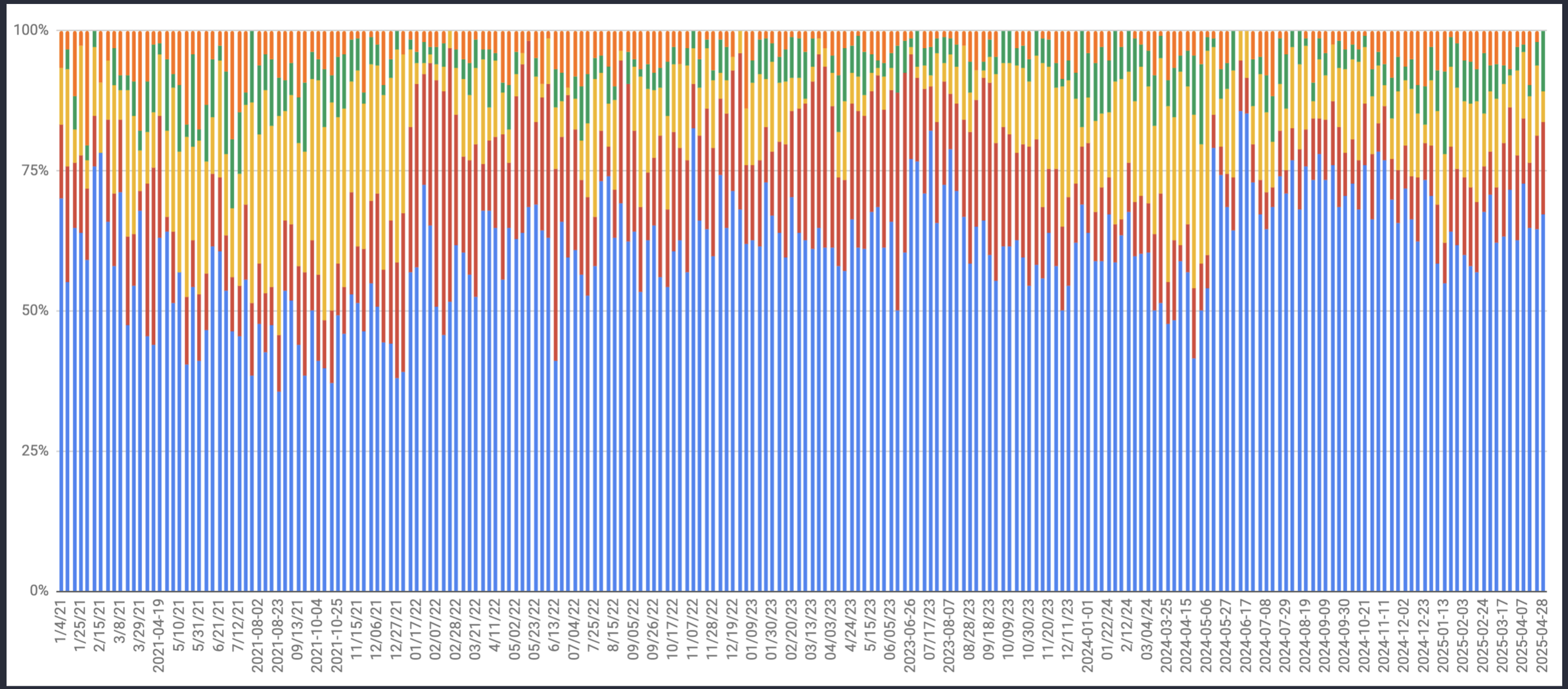


CLIENT | WIRED | WIRELESS | SD-WAN | EDG

Secure micro service cloud architecture

Juniper Business Use Only

AI Model Efficacy



Ask your favorite vendor to share with you hard data about efficacy of their AI model

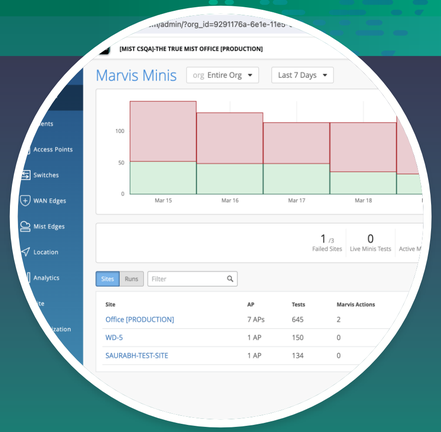
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Anyone can automate.
Self-Driving Takes Learning & Experience

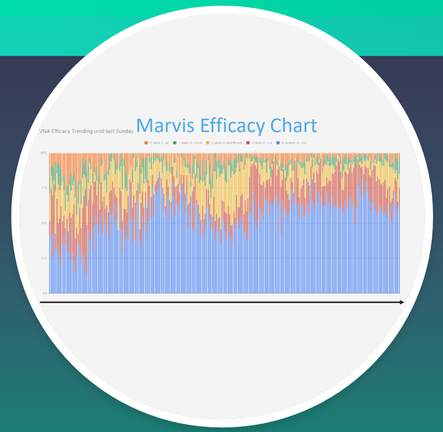
Minis ✓ Generalized LEM ✓ AIOps Efficacy ✓ Agentic AI ✓

AI AGENTS

Data → Service Level Experience → Data Science → Conversational Assistant







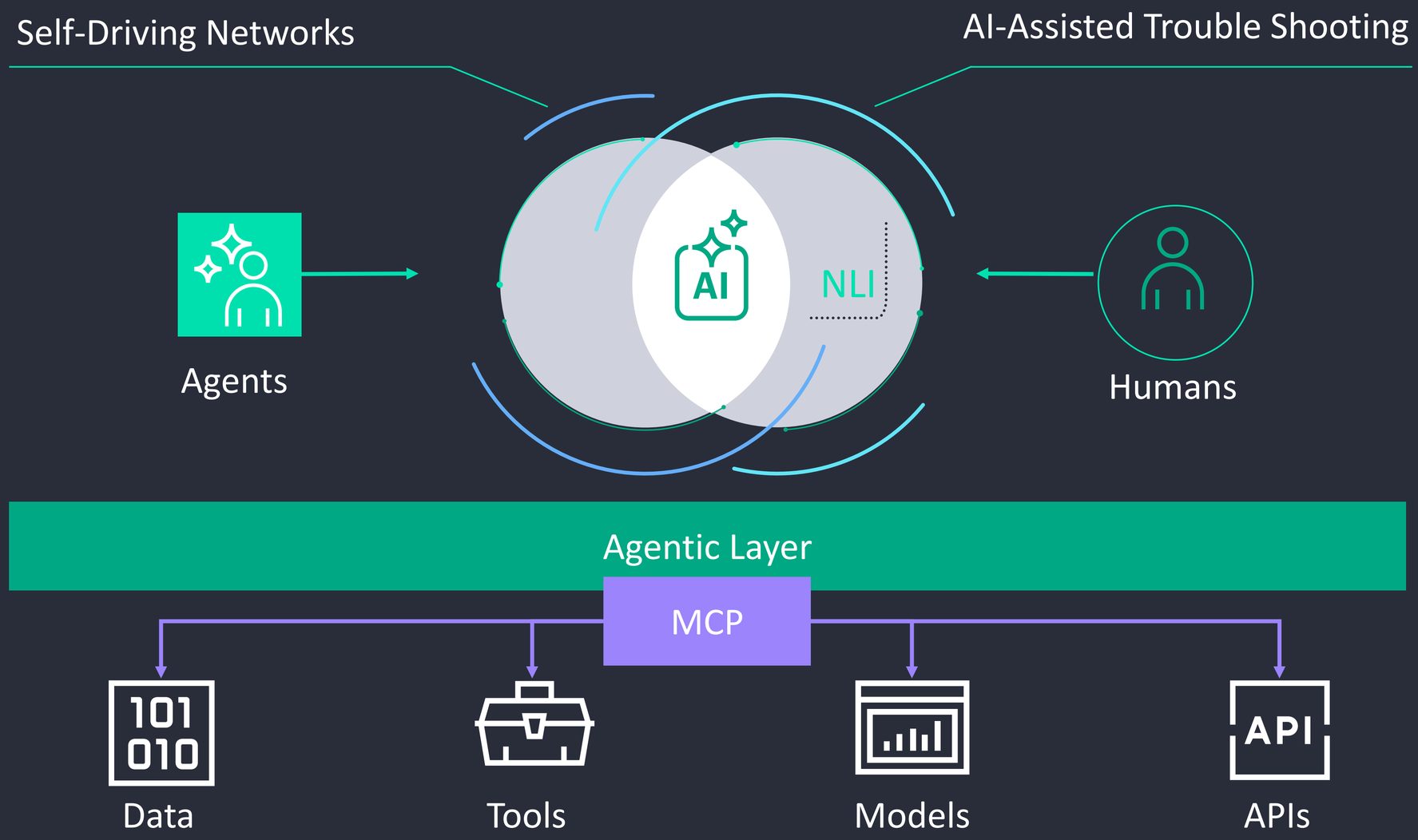


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Agentic AI Framework

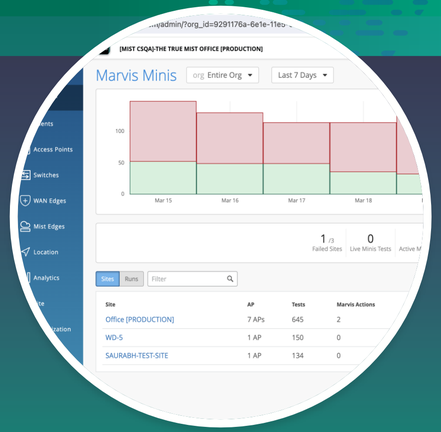


Anyone can automate.
Self-Driving Takes Learning & Experience

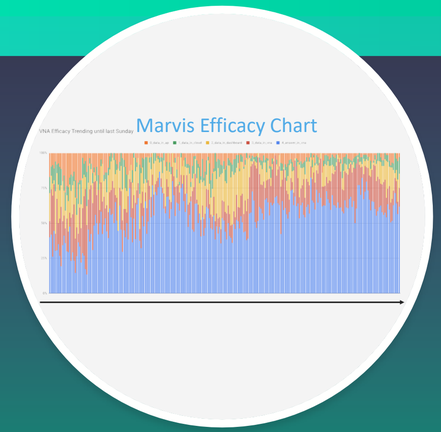
Minis | Generalized LEM | AIOps Efficacy | Agentic AI | Self-driving Actions

AI AGENTS

Data → Service Level Experience → Data Science → Conversational Assistant → Self Driving Action Framework







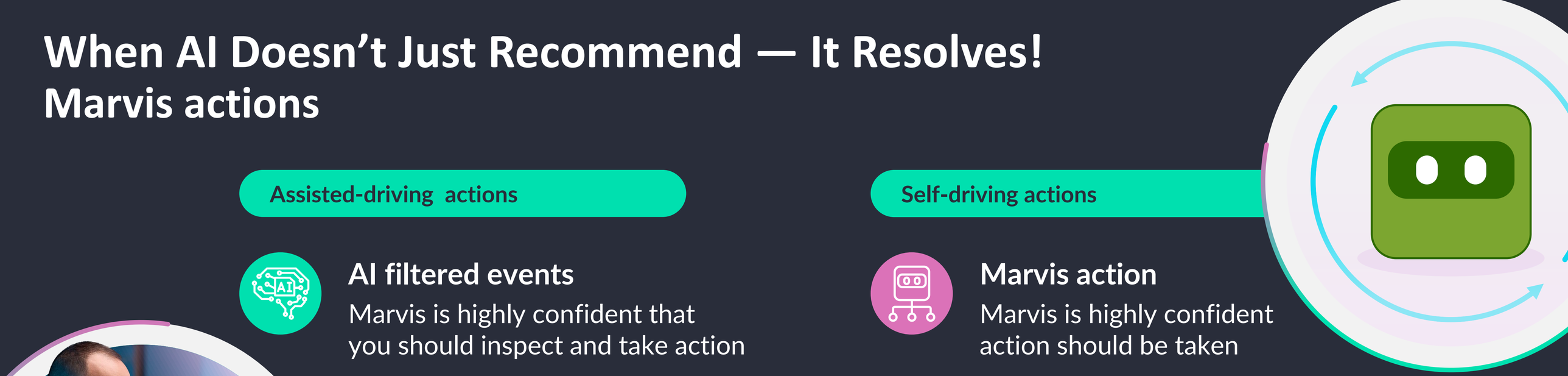




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Secure micro service cloud architecture

When AI Doesn’t Just Recommend — It Resolves!
Marvis actions



Assisted-driving actions

AI filtered events
Marvis is highly confident that you should inspect and take action

Webhook notifications
Assisted actions can be sent as webhooks



Self-driving actions

Marvis action
Marvis is highly confident action should be taken

List of trusted actions
If the self-driving action is on the trust list Marvis takes action without asking

Permission requested
If not on the trusted list Marvis requests permission and ask if you wanted it added to the trust list

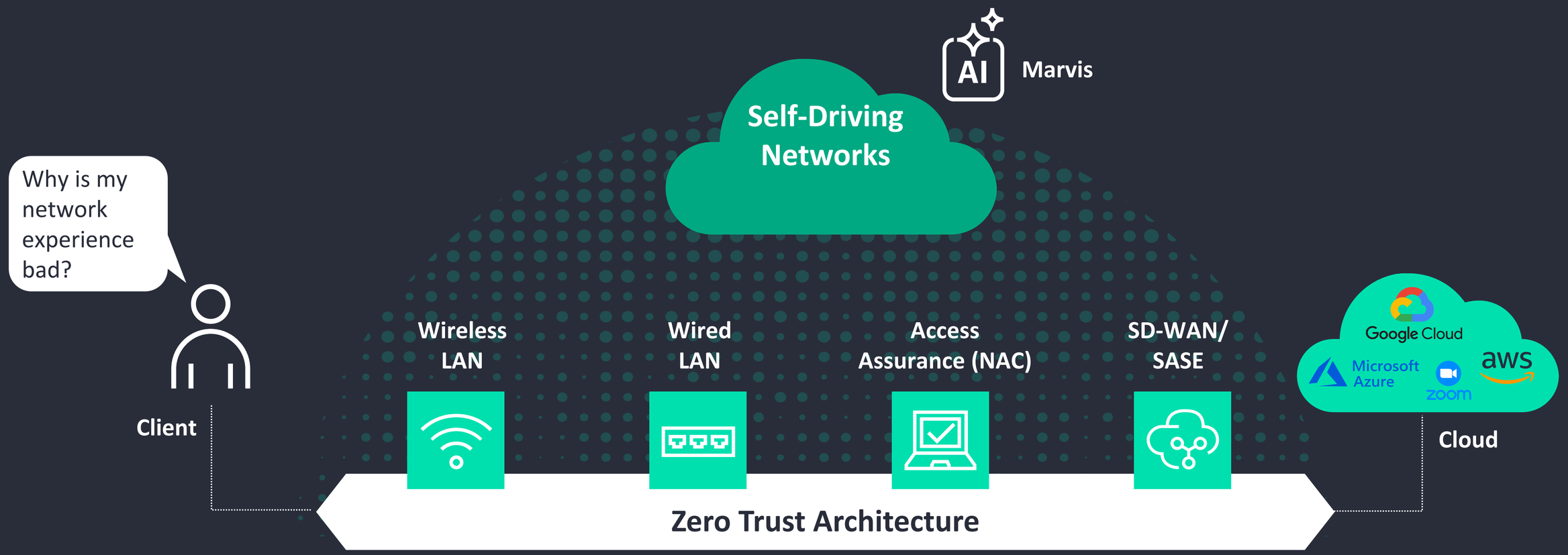
Self-Driving In Action



Ask your favorite vendor for a Proof of Concept on self-driving actions

Full-stack self-driving assures end-to-end experiences

More than just a "single-pane-of-glass" dashboard | AI-native view



Ask your favorite vendor for a FULL-STACK Self-Driving PoC

Juniper Business Use Only

Secure, AI-native network platform differentiators

From a "single-pane-of-glass" dashboard to an AI-native view



Client level visibility



AI-native operations and support



Microservices cloud for agility



Digital engagement with virtual BLE



100% open API native architecture

Juniper Business Use Only

Real benefits of self-driving



Fastest
rollout



Fewest
tickets



Best
business outcomes

"…fastest most efficient technology roll out in our history"

T-Mobile

"…over 90% reduction in user-opened network support tickets"

servicenow

GAP

"…85% reduced site visits"

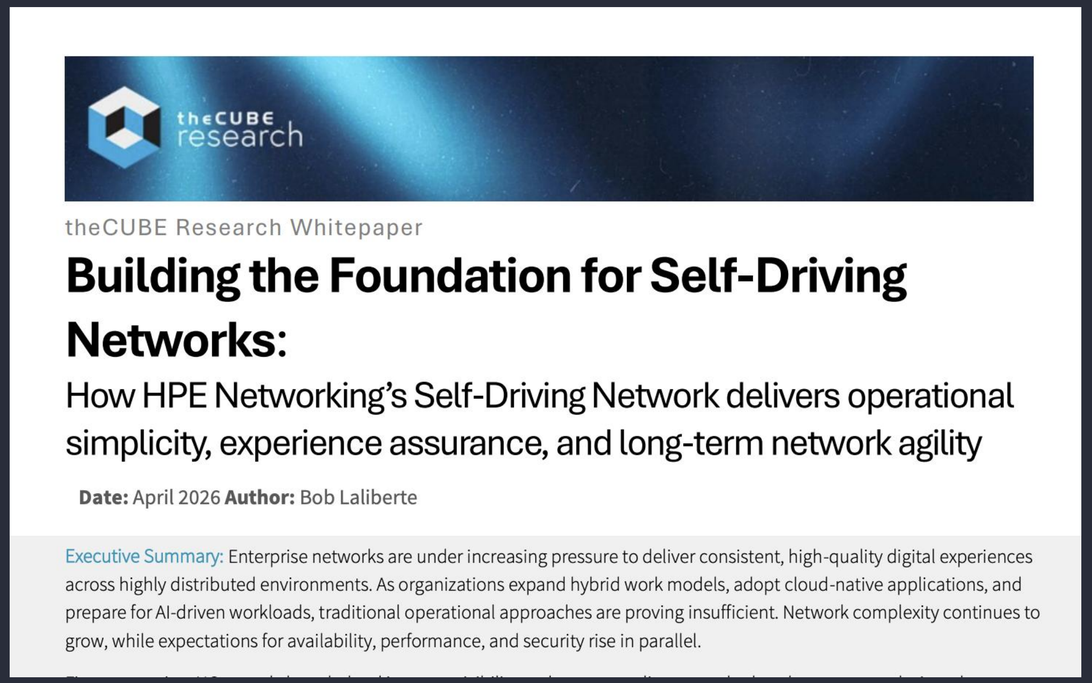
THE HOME DEPOT

"…120K hdPhones onboarded to 100 stores per week"

Is your favorite vendor able to share such quantifiable benefits from renowned customers?

Juniper Business Use Only

Goods You Can Use!


theCUBE research

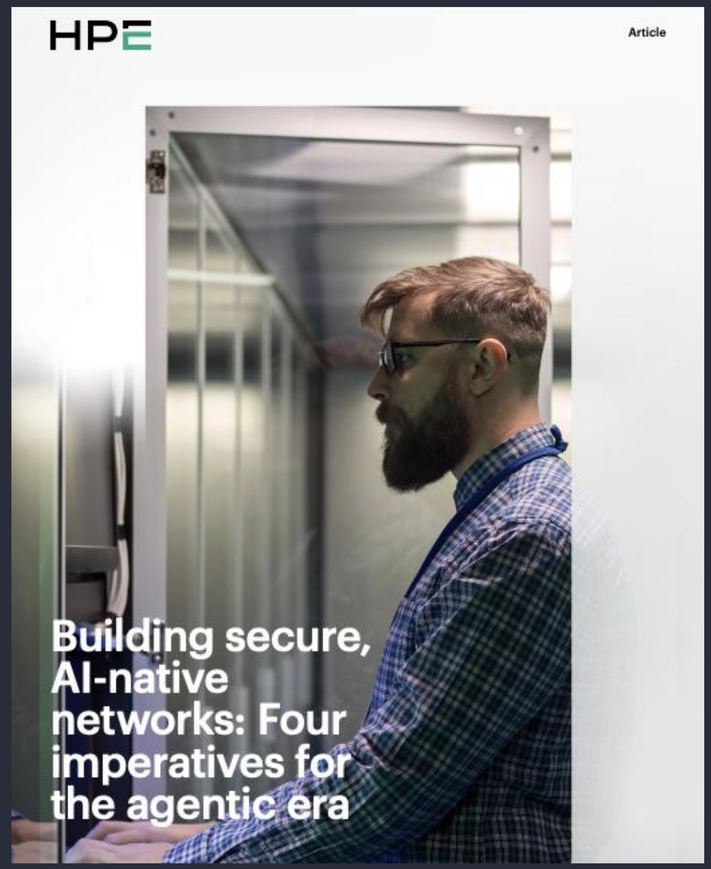
theCUBE Research Whitepaper

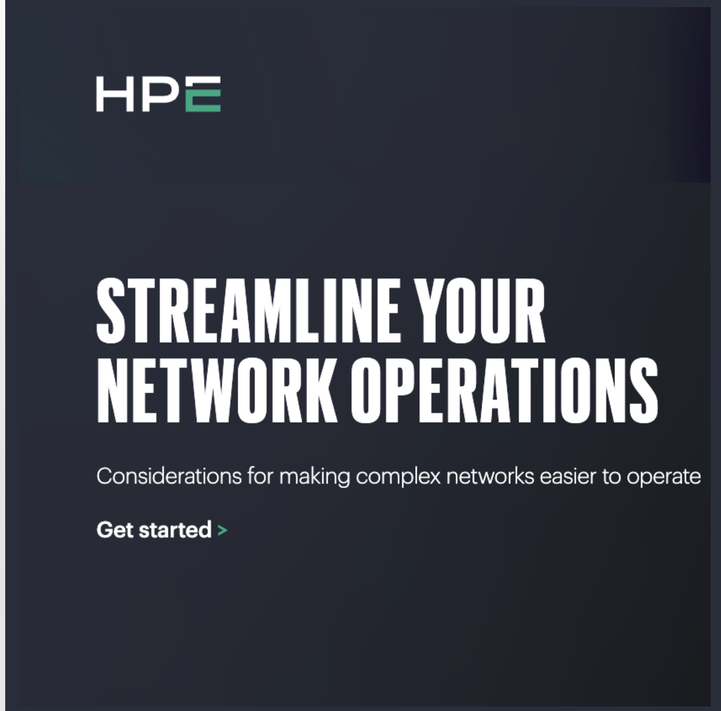
Building the Foundation for Self-Driving Networks:

How HPE Networking's Self-Driving Network delivers operational simplicity, experience assurance, and long-term network agility

Date: April 2026 **Author:** Bob Laliberte

Executive Summary: Enterprise networks are under increasing pressure to deliver consistent, high-quality digital experiences across highly distributed environments. As organizations expand hybrid work models, adopt cloud-native applications, and prepare for AI-driven workloads, traditional operational approaches are proving insufficient. Network complexity continues to grow, while expectations for availability, performance, and security rise in parallel.





https://www.hpe.com/us/en/solutions/networking.html

Furthest in Vision, Highest in Execution



Gartner, Magic Quadrant for Enterprise Wired and Wireless LAN Infrastructure, Mike Leibovitz, Christian Canales, Tim Zimmerman, 18 May 2026.

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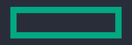
Gartner and Magic Quadrant are a trademark of Gartner, Inc., and/or its affiliates.

Recognized as Aruba Wireless Networks in 2005; Recognized as Aruba Networks in 2006-8, 2010-13; Recognized as Aruba in 2014; Recognized as HPE(Aruba Networks) in 2015; Recognized as HPE(Aruba) in 2016-22 and 2024.

Juniper Business Use Only

Thank You

Mittal Parekh
mittal.parekh@hpe.com



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Wireless Global Congress EMEA

CONNECTED COMMUNITIES FORUM PANEL: Automation, Intelligence, and Optimization: How Wi-Fi is driving intelligent connectivity innovation



Mittal Parekh

Senior Director, Product and Solutions Marketing, HPE



Shawn Bausman

Associate Director - Wi-Fi and Neutral Host Technologies, AT&T



Carlos Sanchez

Telco Services Manager, Fira de Barcelona



Andy Conway

CTO Europe, Boldyn

Wireless Global Congress EMEA

WGC EMEA

NETWORKING LUNCH
BE BACK IN 80 MINUTES AT 2.00 PM CET



Wireless Global Congress EMEA



Bruno Tomás

CTO, Wireless Broadband Alliance

WBA NextGen Wireless Work Group Introduction

Wireless
Global Congress
EMEA

WI-FI STANDARDS, AI, SPECTRUM DEVELOPMENTS AND INNOVATION TO 2030



Time	Presentation
2:00 PM	**WBA NextGen Wireless Work Group Introduction** Bruno Tomás – CTO, Wireless Broadband Alliance
2:05 PM	**Intelligent infrastructure: connecting how we live, work, play and care** Jeff Platon - VP Marketing, Business Development, Wi-Fi Alliance
2:20 PM	**The AI-Native Network: How the Wi-Fi 8 Generation is Reshaping Broadband Infrastructure** Craig Herro - Director, Business Development, Qualcomm Technologies
2:40 PM	**PANEL:** **Wi-Fi 8, AI and Beyond: Building the 2030 Connectivity Roadmap** Jeongmin Noh - Head of the Home Device Development Team, LG U+ Rolf de Vegt - VP, Technical Standards, Qualcomm Telmo Gomes Velez - Product Manager, Heights Telecom Dr. Sarper Gokturk - Vice President of Innovation, Airties
3:25 PM	**NETWORKING COFFEE BREAK**

Technical Roadmap Evolution - Execution towards 2030 Vision

Wireless Broadband Alliance

2026 Active Delivery Platform

Executing today's priorities across WBA work groups

OP — OpenRoaming
Standards, certification and real-world deployments

TE — Testing & Interop
Network metrics, compliance and certification

RO — Roaming & Monetization
Business models, DLT and new revenue opportunities

NE — NextGen & AI Technology
AI/ML, QoS, Wi-Fi 8 and PQC

IO — Residential, IoT & New Use Cases
Enterprise, sensing, smart venues and vertical applications

6G — 5G/6G, Satellite & Policy
Convergence, critical services and regulatory alignment

23	Active Technical Projects
60	Chairs & Project Leaders
Std	Certification & Standards Impact

Pipeline to 2027

1. Incubate
2. Validate
3. Scale

2027 New Incubation Pipeline

Emerging areas – members prioritization exercise

Convergence, Roaming & Intelligence

Integrated networks, smarter roaming and next-generation connectivity

AI Predictive Roaming	Cisco, AT&T
6G & Wi-Fi Solutions	BT, TT, Cisco
IP Standard for Convergence	BT
Cellular Coverage	Ameriband
Fast Roaming	MobileStack
Wi-Fi and Cellular in U6GHz	BIF

Security, Trust & Policy

Secure, trusted and policy-alignedconnectivity

Enterprise Security (Phase 3)	Cisco, HPE
Lawful Interception and OpenRoaming	Freedom Telecom

New Market Expansion

New verticals and commercial models

In-Flight Connectivity (G2G)	Google, PAC, GR
Public Wi-Fi Monetization in India	BIF
PMWANI and PDOA Roaming	BIF

Extends WBA leadership
rom guidelines & standards into deployment frameworks

Expands into convergence
monetization, security and new verticals

Creates the 2027 prioritized pipeline
for member-led growth and industry influence

Wireless Broadband Alliance (c) 2026

Wireless Global Congress EMEA



Jeff Platon

VP Marketing, Business Development, Wi-Fi Alliance

Intelligent Infrastructure: Connecting How We Live, Work, Play and Care

Intelligent infrastructure:

Connecting how we live, work, play, and care

Jeff Platon

Vice President of Member Services, Marketing, Wi-Fi Alliance®

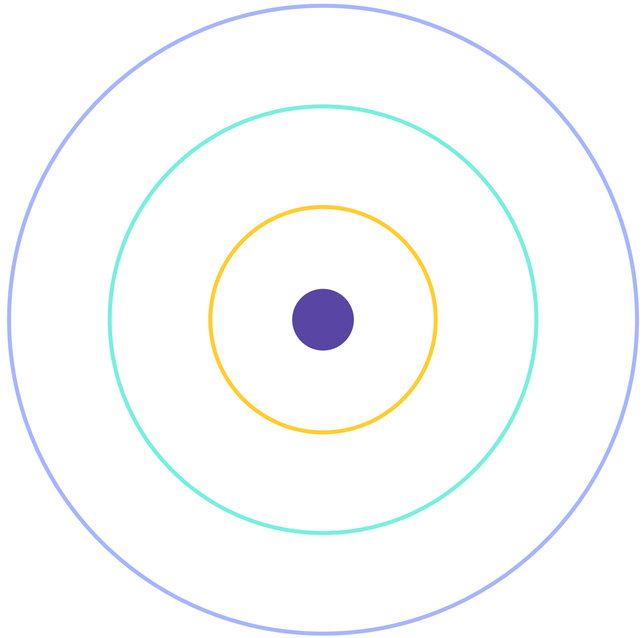
A career spanning all layers of intelligent infrastructure

Network: Cisco

Software and artificial intelligence (AI): McAfee

Smart buildings: View

Standards: Cisco, Accuris and Wi-Fi Alliance



Proprietary | © Wi-Fi Alliance

Why this matters now in Europe

Intelligent infrastructure is moving from concept to compliance.



Proprietary | © Wi-Fi Alliance

Why Wi-Fi®?



Familiar to billions of people



Deployed everywhere



Built on open, global standards



Backed by a trusted ecosystem

Three layers of intelligent infrastructure

Wi-Fi connects people, places, and things into systems that can become intelligent

Connected systems



Layer 3 **Things** sensors, meters, machines, cameras, systems



Layer 2 **Places** buildings, venues, campuses, hotels, hospitals, airports



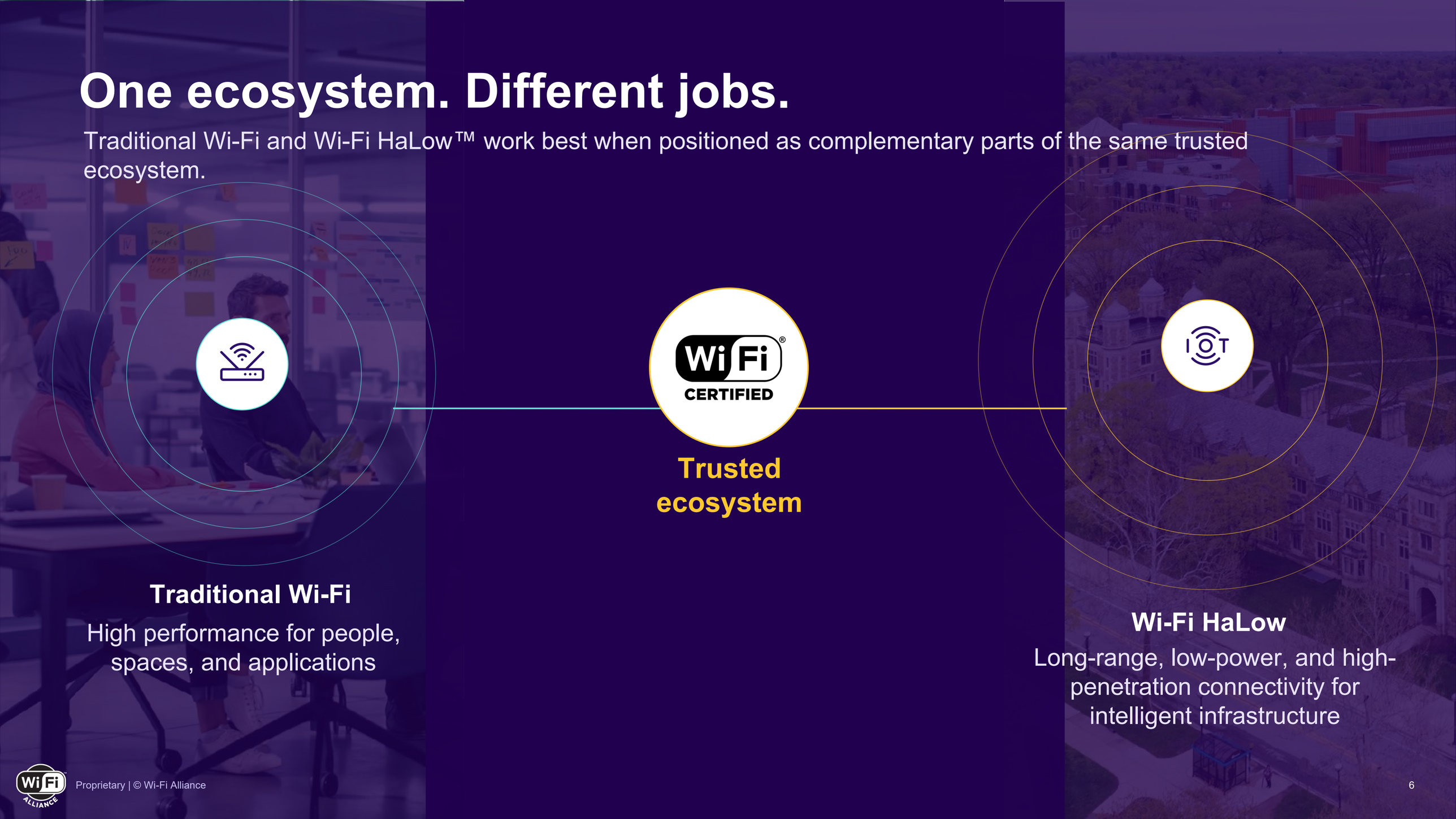
Layer 1 **People** work, learning, collaboration, communication, entertainment

When these layers work together, infrastructure becomes more aware, automated, and useful.

Proprietary | © Wi-Fi Alliance

One ecosystem. Different jobs.

Traditional Wi-Fi and Wi-Fi HaLow™ work best when positioned as complementary parts of the same trusted ecosystem.



Traditional Wi-Fi

High performance for people, spaces, and applications

Wi-Fi HaLow

Long-range, low-power, and high-penetration connectivity for intelligent infrastructure

Not just connectivity…

Trusted connectivity only available through Wi-Fi Alliance

Evolving certifications and standards

Comprehensive testing

Proven interoperability, reliability, and security

The only place ensuring every layer of intelligent infrastructure works as one

AI and Wi-Fi: a symbiotic relationship

Better Wi-Fi makes AI more capable, and AI is making Wi-Fi smarter.

Wi-Fi for AI

- Cameras, sensors, and robots run on continuous, upstream-heavy data streams to edge models
- Once AI runs a live workflow, a connectivity problem is a system failure
- Most AI-enabled devices already connect over Wi-Fi

AI for Wi-Fi

- Classifies traffic so latency-sensitive flows get priority
- Manages interference in busy, shared spectrum
- Detects anomalies before users notice a problem

The bottleneck
is coordination

Dynamic Analytics Reporting (DAR) gives access points and clients a standard format for sharing latency statistics, radio counters, and control-plane events, so AI systems get comparable data from any vendor.

Wi-Fi Alliance is also standardizing how **Wi-Fi datasets** are collected, structured, and labelled for AI model training.

Proprietary | © Wi-Fi Alliance

Wi-Fi 7 and Wi-Fi 8: built for AI

Each Wi-Fi generation met the demands of its era. This one is about reliability.

FOR REAL-TIME AI

The worst case is the metric that matters

A patient monitor cannot buffer a dropped vital sign. A robot that misses a control packet is a safety risk.

AVAILABLE NOW

Wi-Fi 7

- **Multi-Link Operation:** keeps data flowing across 2.4, 5, and 6 GHz if one link degrades
- **Restricted TWT:** protects scheduled service periods for latency-sensitive traffic
- **320 MHz channels:** wide, clean 6 GHz spectrum for demanding workloads

NEXT

Wi-Fi 8

- **Throughput** held up in challenging signal conditions
- **Lower latency** at the 95th percentile, not just the average
- **Fewer dropped packets** as devices move between access points

Proprietary | © Wi-Fi Alliance

Proof in practice: testing for AI

Wi-Fi Alliance members test together so AI deployments work the first time.

100+

Devices per AP

Low-power IoT devices held on one access point, which is the scale AI sensor networks need

9/10

Connected securely

Devices connected using WPA3™ compatibility mode, and config issues were fixed before deployment

1 AP

Reaches the edge

A Standard Power 6 GHz AP kept edge cameras and sensors connected where Low Power Indoor could not

MLO

Roaming gap found

Identified that some Wi-Fi 7 devices fell back to one link after roaming, making it fixable before it reached mobile AI

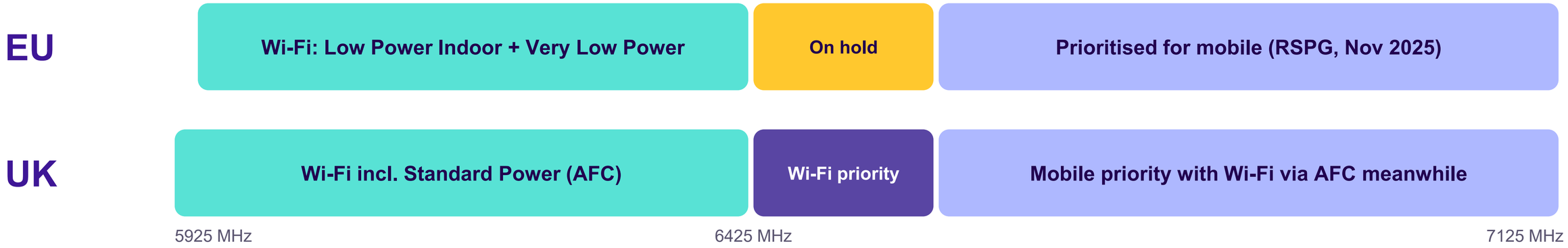
Also: Wi-Fi Location ranging and positioning accuracy improved considerably across successive test events, impacting indoor navigation, asset tracking, and robot positioning.

Source: Wi-Fi Alliance, “Symbiotic technologies: the relationship between AI and Wi-Fi®”, Aug 2026)

Proprietary | © Wi-Fi Alliance

Europe’s 6 GHz decision point

AI needs reach, coverage through walls, and sustained uplink at the edge.



EU today

480 MHz licence-exempt since 2021, but low power only, leaving room for just one 320 MHz Wi-Fi 7 channel. CEPT is studying higher-power use (up to 4 W) with dynamic coordination.

Upper 6 GHz

The RSPG recommended most of the band for mobile while 160 MHz stays on hold until late 2027, pending WRC-27.

The UK shows a path

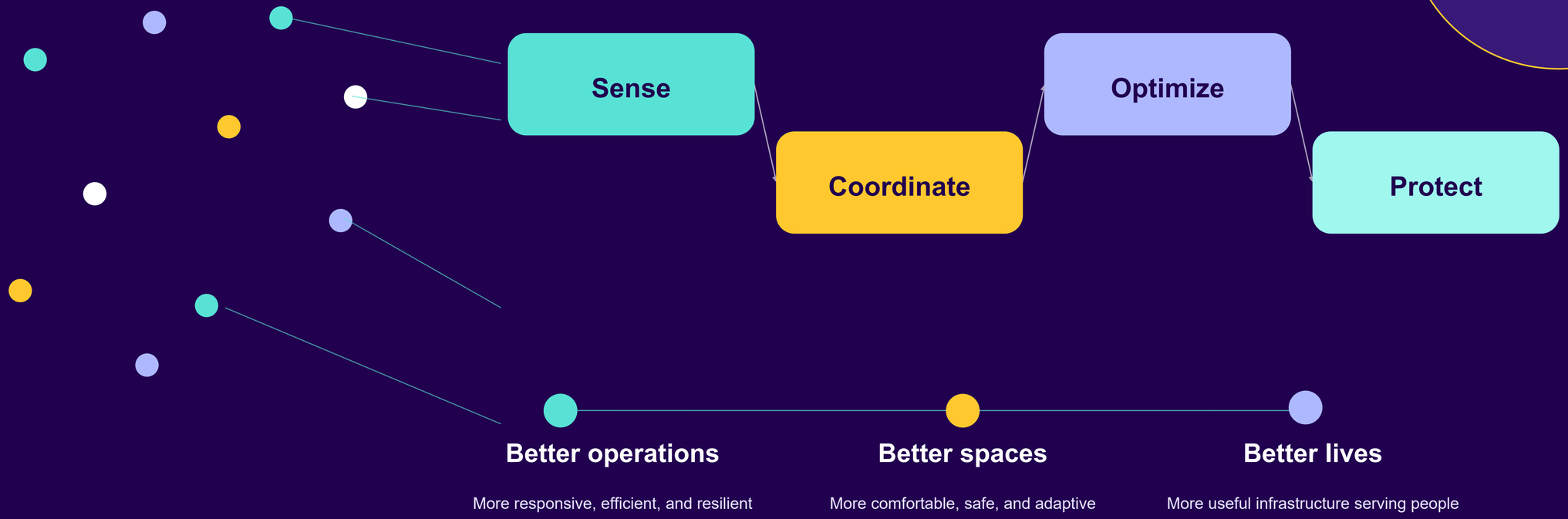
Ofcom opened the full 6 GHz band to Wi-Fi, with a Wi-Fi priority block and AFC-managed Standard Power, including outdoors.

Proprietary | © Wi-Fi Alliance

From connected devices to connected systems

The next phase of intelligent infrastructure will not be defined by individual connected devices.

It will be defined by connected systems.



Imagine...



A building where energy, comfort, and safety take care of themselves



A campus where every system, every sensor, works together



A city where lighting, water, and safety connect without gaps

Wi-Fi Alliance: shaping the future of Wi-Fi

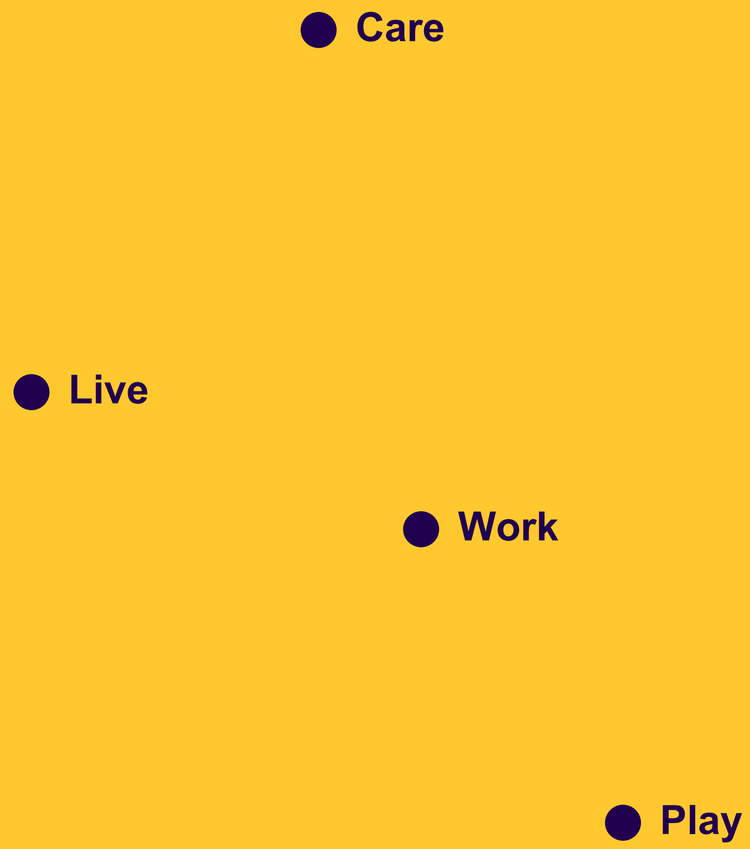
Wi-Fi Alliance members are collaborating to define, develop, and validate the next generation of Wi-Fi technology

Wi-Fi 8	Wi-Fi 8 shifts the focus from raw throughput to ultra-high reliability, delivering stable, low-latency, predictable connectivity for the most demanding applications on the horizon, from immersive XR to industrial robotics and large-venue connectivity.
Sustainability	Wi-Fi can account for up to 50% of a broadband gateway's total power draw, and smart AP power will address this by developing standardized features and measurement practices to reduce AP energy consumption without degrading performance.
Zero-touch connectivity	Allows Wi-Fi APs to broadcast secure information to nearby devices without network credentials or association.
AI for Wi-Fi	Wi-Fi Alliance is developing common data models that standardize how devices communicate what is happening in their environment.
Wi-Fi for AI	Wi-Fi Alliance is working on technologies such as ranging and sensing that provide environmental awareness and enable new use cases for healthcare monitoring, smart home automation, robotics, and energy management.

Proprietary | © Wi-Fi Alliance

Intelligent infrastructure

Connecting how we live, work, play, and care



Jeff Platon

Vice President of Marketing & Business Development, Wi-Fi Alliance®

www.wi-fi.org

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Craig Herro

Director, Business Development, Qualcomm Technologies

The AI-Native Network: How the Wi-Fi 8 Generation is Reshaping Broadband Infrastructure

The AI-Native Network: How the Wi-Fi 8 Generation Is Reshaping Broadband Infrastructure

Craig Herro

Director, Business Development

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What Is Driving the Broadband Evolution?

Sensors



Voice/audio



Movement/Gesture



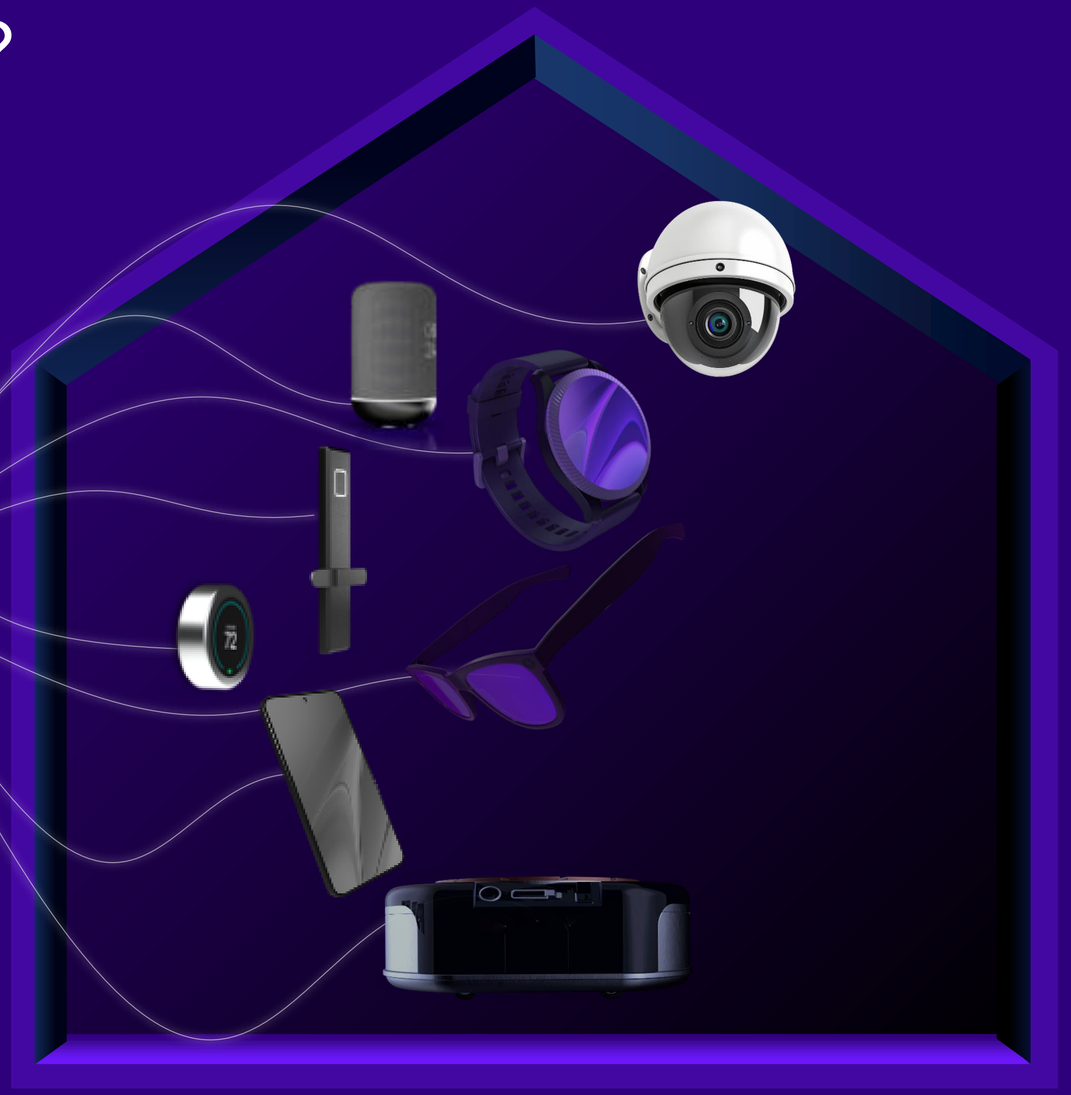
Vision



Touch

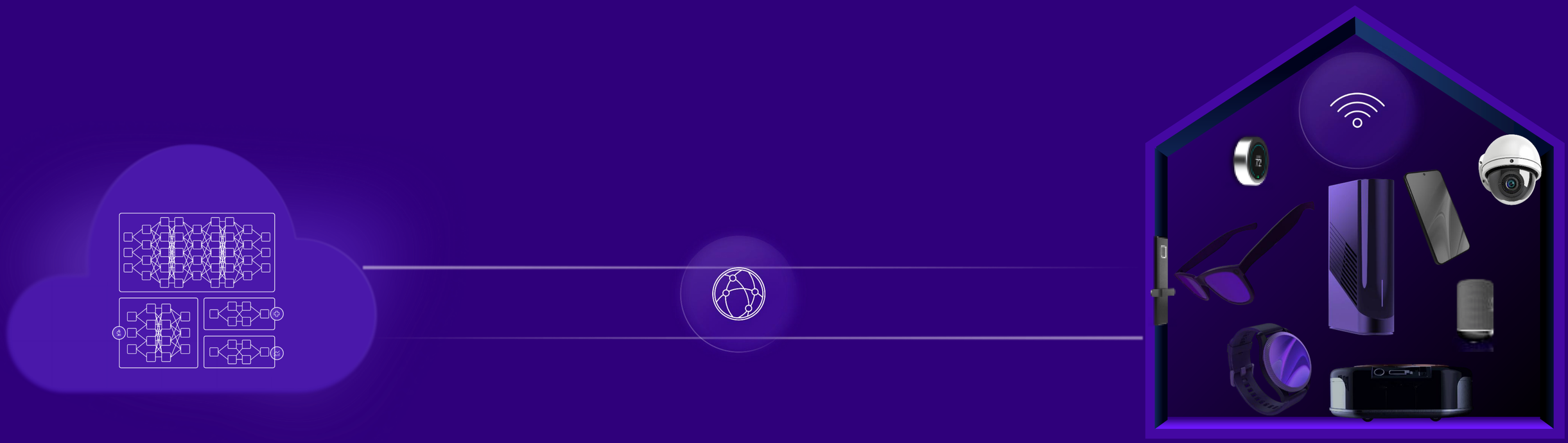


AI
AGENT



More modalities **Always-on** **More intelligent devices**

The AI Era Edge-to-Cloud Continuum



Cloud **Broadband** **Edge**

Redefining What Networks Must Deliver



Broadband

Edge

- Consistent high-throughput
- Ultra-high reliability
- Deterministic low-latency
- Enhanced uplink capacity
- Edge AI and compute

A New Class of Broadband Infrastructure



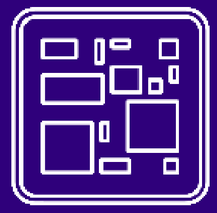
Ultra-reliable connectivity

Predictable Wi-Fi 8 performance for real-world conditions



High-capacity broadband access

Fiber and 5G Fixed Wireless Access that scale with growing AI demand



Intelligence at the edge

Network intelligence and AI compute built into the broadband gateway

Together, these form the foundation for AI-era broadband

Wi-Fi 8: Raising the Bar for Real-World Performance

Up to

25% higher throughput

vs. Wi-Fi 7 in challenging signal conditions

Up to

25% lower latency

At the 95th percentile vs. Wi-Fi 7

Up to

25% less packet loss

During transitions between access points

All Based on IEEE PAR document target metrics

Why Intelligence Belongs at the Edge

Immediacy

Responsiveness with decisions made locally at the edge.

Personalization

Network-wide awareness across devices and apps.

Reliability

Always-on operation with reduced cloud dependency.

Privacy

Local processing keeps sensitive network-data in the home.



Edge AI makes the gateway the home’s central point of intelligence

Transforming Broadband Operations with Network AI

Quality of Experience



- Device and application aware QoS
- Optimized performance for latency-sensitive traffic

Service Assurance



- Remote diagnostics and active link-health monitoring
- Proactive issue detection and self-healing remediation

Operational Efficiency



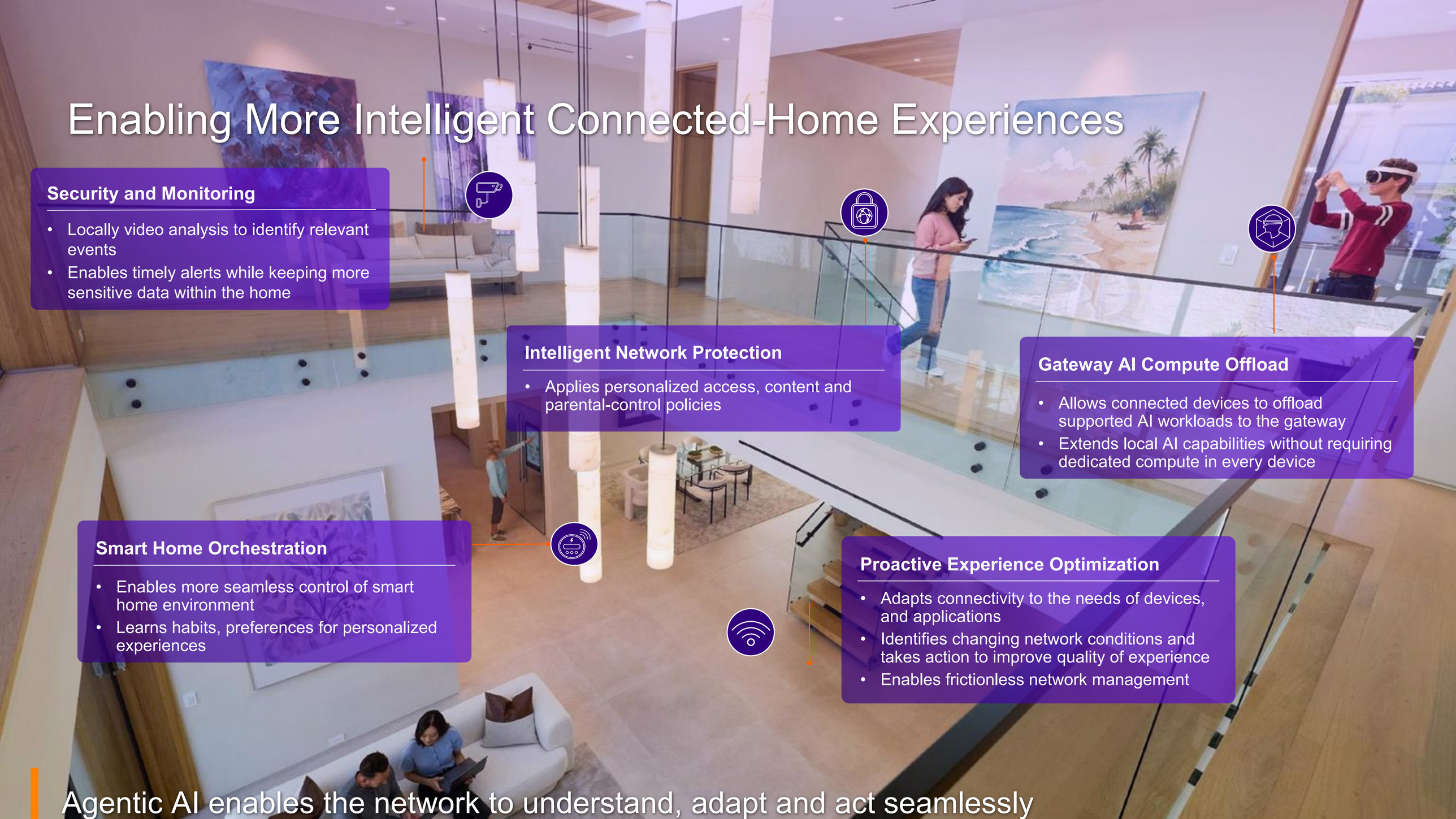
- Streamlined operations through automated diagnostics and optimization
- Accelerate root-cause resolution and reduce support overhead

Value Added Services



- Strengthen parental control capabilities
- Better visibility and control across network activity

Enabling More Intelligent Connected-Home Experiences



Security and Monitoring

- Locally video analysis to identify relevant events
- Enables timely alerts while keeping more sensitive data within the home

Intelligent Network Protection

- Applies personalized access, content and parental-control policies

Gateway AI Compute Offload

- Allows connected devices to offload supported AI workloads to the gateway
- Extends local AI capabilities without requiring dedicated compute in every device

Smart Home Orchestration

- Enables more seamless control of smart home environment
- Learns habits, preferences for personalized experiences

Proactive Experience Optimization

- Adapts connectivity to the needs of devices, and applications
- Identifies changing network conditions and takes action to improve quality of experience
- Enables frictionless network management

Agentic AI enables the network to understand, adapt and act seamlessly

A Wi-Fi 8 Generation Built for AI-Era Broadband

Spanning network infrastructure to client connectivity systems

Qualcomm Dragonwing NPA8

Qualcomm Dragonwing N8

Ethernet

Qualcomm Dragonwing FPA8

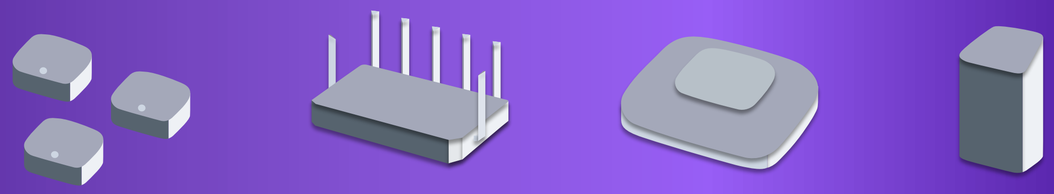
Qualcomm Dragonwing F8

Fiber

Qualcomm Dragonwing FWA5

5G FWA

Qualcomm FastConnect 8800 Wi-Fi 8





Launched March 2026

Qualcomm Technologies' Silicon-to-Cloud Gateway Solution

Introducing

Qualcomm Dragonwing™ Security and Management (SAM)

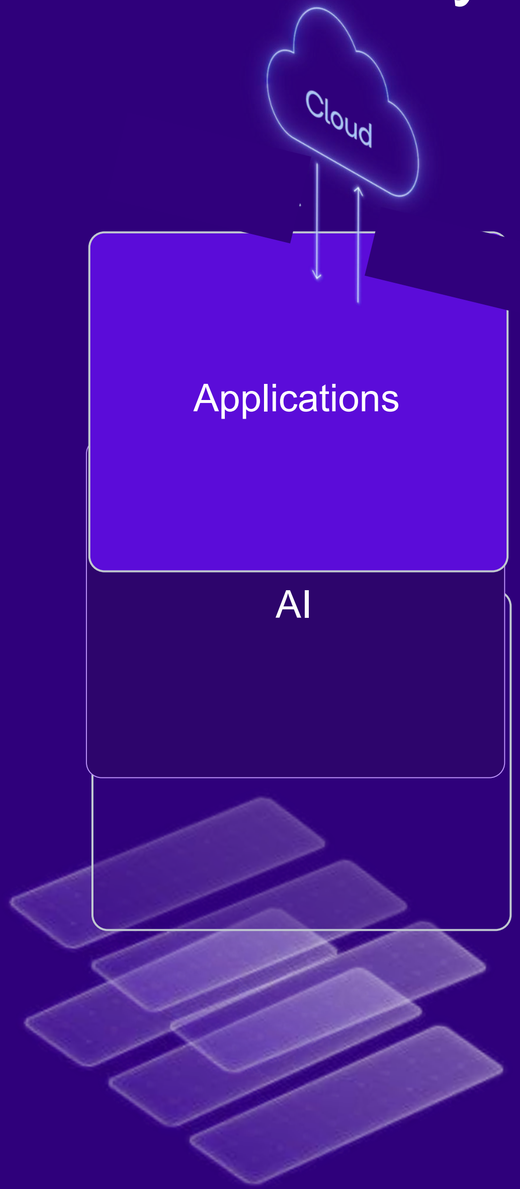


Services

Intelligence

Open Software

Platform





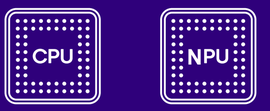
Visibility
Data Intelligence
Security



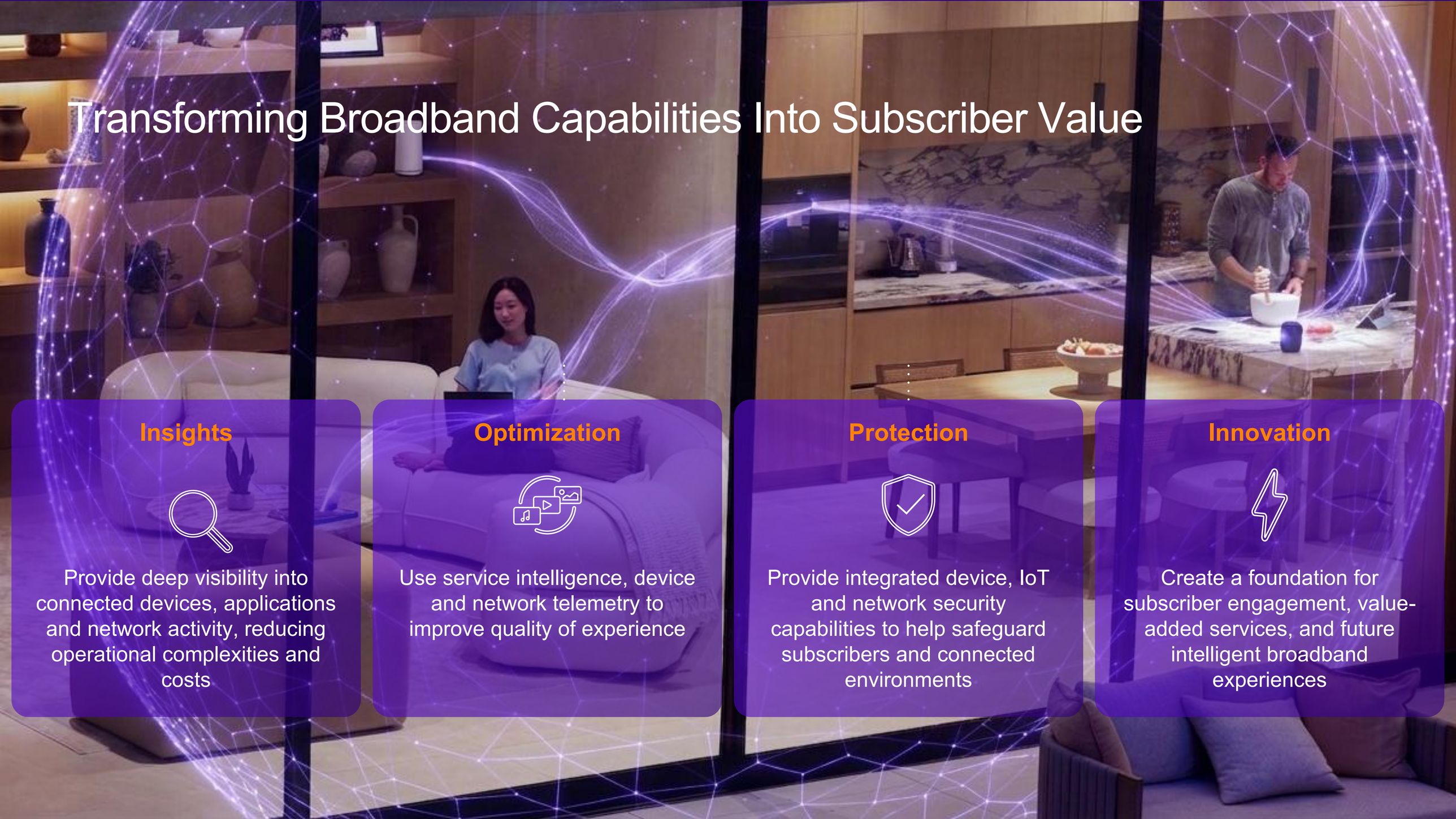
Qualcomm AI Models and Runtime

Middleware





Transforming Broadband Capabilities Into Subscriber Value



Insights

Provide deep visibility into connected devices, applications and network activity, reducing operational complexities and costs

Optimization

Use service intelligence, device and network telemetry to improve quality of experience

Protection

Provide integrated device, IoT and network security capabilities to help safeguard subscribers and connected environments

Innovation

Create a foundation for subscriber engagement, value-added services, and future intelligent broadband experiences

Thank you

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Wireless Global Congress EMEA

PANEL: Wi-Fi 8, AI and Beyond: Building the 2030 Connectivity Roadmap



Jeongmin Noh

Head of the Home Device Development Team, LG U+



Telmo Gomes Velez

Product Manager, Heights Telecom



Rolf de Vegt

VP, Technical Standards, Qualcomm



Dr. Sarper Gokturk

Vice President of Innovation, Airties

Wireless Global Congress
Wireless Broadband Alliance

PANEL

Next Gen Wireless Innovation, Wi-Fi 8, AI, and Beyond

WGC VIENNA

PEOPLE | CONNECTIVITY | INTELLIGENCE | REAL-WORLD IMPACT



MODERATOR

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Wireless Broadband Alliance

Sarper Gokturk
Vice President of Innovation
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Telmo Velez
Product Manager
HEIGHTS

Rolf De Vegt
VP, Technical Standards
Qualcomm

Jeongmin Noh
Head of the Home Device Development Team
LG U+


Next Generation Wi-Fi 8, AI and Beyond:
Building the 2030 Roadmap
BETTER CONNECTED PEOPLE BRIGHTER TOMORROW
IDEAS STANDARDS ECOSYSTEMS REAL-WORLD IMPACT
Wi-Fi 8 fixes everything ... right?
OpenRoaming
Global Wi-Fi
Seamless Connectivity
A more open and connected world!
Bruno Tomas
Wireless Broadband Alliance
GLOBAL INTEROPERABILITY
SEAMLESS ROAMING
Wi-Fi 8
AI
2030
Faster
Smarter
More Open
More Inclusive
Everywhere
Connected Home
Smart Gateways
Autonomous Networks
Edge Intelligence
Open Ecosystems
A MORE CONNECTED 2030
Next-Gen Wireless Silicon
Higher Performance
Lower Power
More Intelligent
Ubiquitous Connectivity
From Silicon to a Smarter World
AI Services
Smart Home
Consumer Connectivity
A Better Everyday
Open Software
Intelligent Home Connectivity
Smarter gateways, happier homes!
Can we roadmap the roadmap?
Mesh Wi-Fi for a better everyday
Dr. Sarper Gokturk
airties
Add more AI!
Rolf de Vegt
Qualcomm
Ai for everyone, every home, everywhere!
Telmo Gomes Velez
Heights Telecom
HEIGHTS
SMART GATEWAYS
OPEN SOFTWARE
CONNECTED HOMES
Optimized Home Wi-Fi Experience
AI CHIPSETS
WI-FI 8
EDGE INTELLIGENCE
NEXT-GEN CONNECTIVITY
GOOD Wi-Fi BETTER PEOPLE
MORE AI PLEASE
AI Powered Connected Life
Mobile
Internet
Smart Home
Entertainment
Jeongmin Noh
LG U+
STANDARDS
ECOSYSTEMS
REAL DEPLOYMENTS
PEOPLE
Wi-Fi 8
AI
CONNECTED HOME
AUTONOMOUS NETWORKS
EDGE INTELLIGENCE
2030
Use Cases:
Homes
Enterprises
Cities
Industries
Everyone
Impact:
Better Experiences
Greater Inclusion
Sustainable Growth
A More Connected World
Autonomous networks

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NETWORKING COFFEE BREAK
BE BACK IN 30 MINUTES AT
3.55 PM CET

Wireless
Global Congress
EMEA



Tiago Rodrigues

President & CEO, Wireless Broadband Alliance

Moderator Introduction

Wireless Global Congress EMEA

IN HOME, SMART BUILDING & MDU



Time	Presentation
3:55 PM	**Moderator Introduction** Tiago Rodrigues – President & CEO, Wireless Broadband Alliance
4:00 PM	**FIRESIDE CHAT: IoT Wi-Fi powered by intelligence at the Edge** Irvind Ghai– Vice President, Product & Strategy, Silicon Labs Tiago Rodrigues – President & CEO, Wireless Broadband Alliance
4:20 PM	**PANEL: The Intelligent Connected Property: Home, Building and MDU Connectivity** George Hechtman – Principal, Hechtman Venture Development Dr. Crane H. YANG - Secretary-General, World WLAN Application Alliance (WAA) Jess Parsons - AVP of MDU Segment Marketing, Calix Giuseppe Galeone - Head of Broadband Product Management & Delivery, Sky Italia
5:15 PM	**WBA Annual Industry Awards 2026 - Sponsored by IronWiFi** Stephen Brobst - Advisor to the CEO, IronWiFi Tiago Rodrigues – President & CEO, Wireless Broadband Alliance
6:00 PM	**End of Day One** Tiago Rodrigues – President & CEO, Wireless Broadband Alliance
6:15 PM	**WGC EMEA NETWORKING DRINKS SPONSORED BY BOINGO WIRELESS AND CISCO**

Wireless Global Congress EMEA

Fireside Chat: IoT Wi-Fi Powered by Intelligence at the Edge



Irvind Ghai

Vice President, Product & Strategy; Silicon Labs



Tiago Rodrigues

President & CEO, Wireless Broadband Alliance

Wireless Global Congress EMEA

PANEL: The Intelligent Connected Property: Home, Building and MDU Connectivity



George Hechtman

Principal, Hechtman Venture Development



Jess Parsons

AVP of MDU Segment Marketing, Calix



Dr. Crane H. YANG

Secretary-General, World WLAN Application Alliance (WAA)



Giuseppe Galeone

Head of Broadband Product Management & Delivery, Sky Italia

Wireless Global Congress EMEA

WBA Annual Industry Awards 2026
Sponsored by IronWiFi



Stephen Brobst

Advisor to the CEO, IronWiFi



Tiago Rodrigues

President & CEO, Wireless Broadband Alliance

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BEST WI-FI NETWORK OPERATOR



WINNER!

BEST WI-FI NETWORK OPERATOR



BOUYGUES TELECOM

Bouygues Telecom: The Best Wi-Fi Network Operator 2026

CATEGORY

BEST WI-FI NETWORK TECHNOLOGY



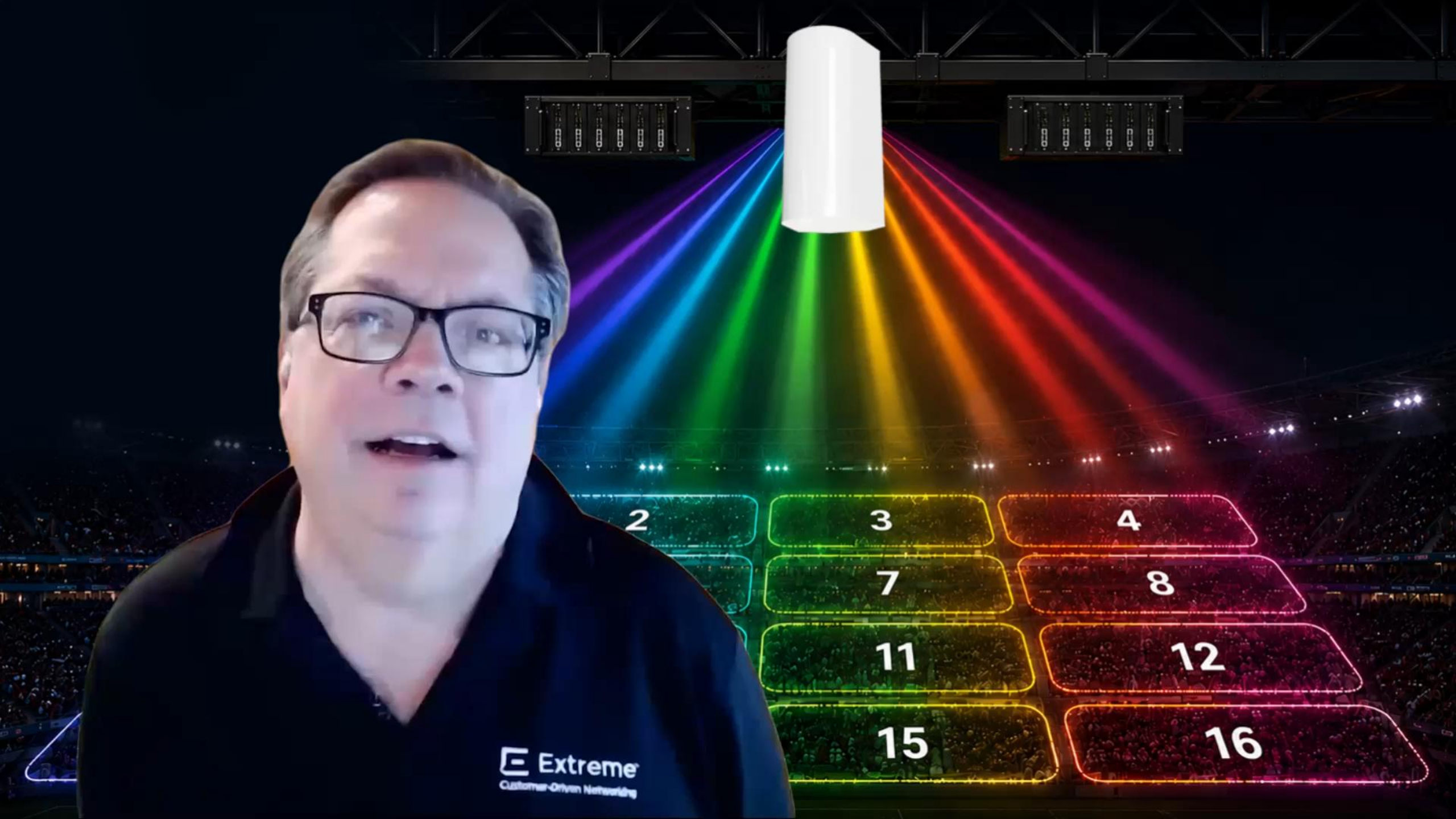
WINNER!

BEST WI-FI NETWORK TECHNOLOGY



EXTREME NETWORKS

Extreme Multi-Beam Wireless: Maximized Coverage & Performance with Minimal Cost & Infrastructure


2
3
4
7
8
11
12
15
16
Extreme
Customer-Driven Networking

CATEGORY

BEST IN-HOME WI-FI NETWORK



WINNER!

BEST IN-HOME WI-FI NETWORK



SPECTRUM

Spectrum Advanced WiFi is a fully managed in-home WiFi platform that integrates high-performance hardware, intelligent software optimization, enterprise-grade security, and intuitive network management into one unified service.

CATEGORY

BEST ENTERPRISE WI-FI NETWORK

WINNER!

BEST ENTERPRISE WI-FI NETWORK



BOINGO WIRELESS

Citi Field and Boingo: Stadium Wi-Fi as the Foundation of a Connected Venue

CATEGORY

BEST WI-FI FOR SOCIAL IMPACT

WINNER!

BEST WI-FI FOR SOCIAL IMPACT



INDIO NETWORKS

Konnect Africa: An Affordable Wi-Fi Revolution Transforming Lives Across Africa

CATEGORY

BEST WI-FI INNOVATION

WINNER!

BEST WI-FI INNOVATION



AURA WIRELESS

Aura Apogee: Patented Software-Defined Antenna Platform Engineered to Solve Enterprise Wi-Fi Coverage Problem in Large Outdoors and Challenging Indoor Environments

CATEGORY

BEST WI-FI CUSTOMER EXPERIENCE

WINNER!

BEST WI-FI CUSTOMER EXPERIENCE

HFCL

HFCL LIMITED

Mobile Data Offloading – Automatically offloads mobile traffic to Wi-Fi networks, improving network efficiency while maintaining a superior customer experience

CATEGORY

BEST OPENROAMING DEPLOYMENT



WINNER!

BEST OPENROAMING DEPLOYMENT

WIRE AND WIRELESS CO.,LTD.

Pioneering Nationwide Municipal OpenRoaming: Transforming Japan's Public Wi-Fi into a Secure, Seamless Global Ecosystem



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INDUSTRY
AWARDS

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