



Driving IT/OT Excellence with AI-Powered Cisco Catalyst Center at the Worldwide Vehicle Industry



Bruno Silva, Network Architect SCANIA



Tiago Garcia, IT Manager SCANIA




Marcello Ishida, Solutions Engineer Business Architect

CSSSENT-1144

CISCO *Live!*



- Tiago Garcia (IT Manager @Scania)
- 24+ Y of experience (7Y @Scania)
- <https://www.linkedin.com/in/tiago-garcia-33273728> 
- Ride a bike lover



- Bruno Silva (Network Architect @Scania)
- 18 Y of experience (4Y @Scania)
- <https://www.linkedin.com/in/bruno-bortoloni-da-silva/> 
- Brazilian Jiu-Jitsu lover!!!



- Marcello Ishida (Solutions Engineer @cisco)
- 24+Y of experience (14Y @cisco)
- part of Global enterprise (#CGEM)
- <https://www.linkedin.com/in/marcelloishida/> 
- Brazilian barbecue lover!!!!



About the speakers



Webex App

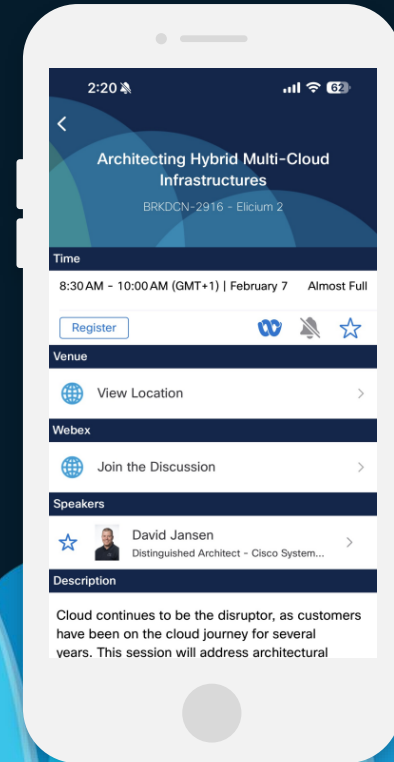
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Content Catalog



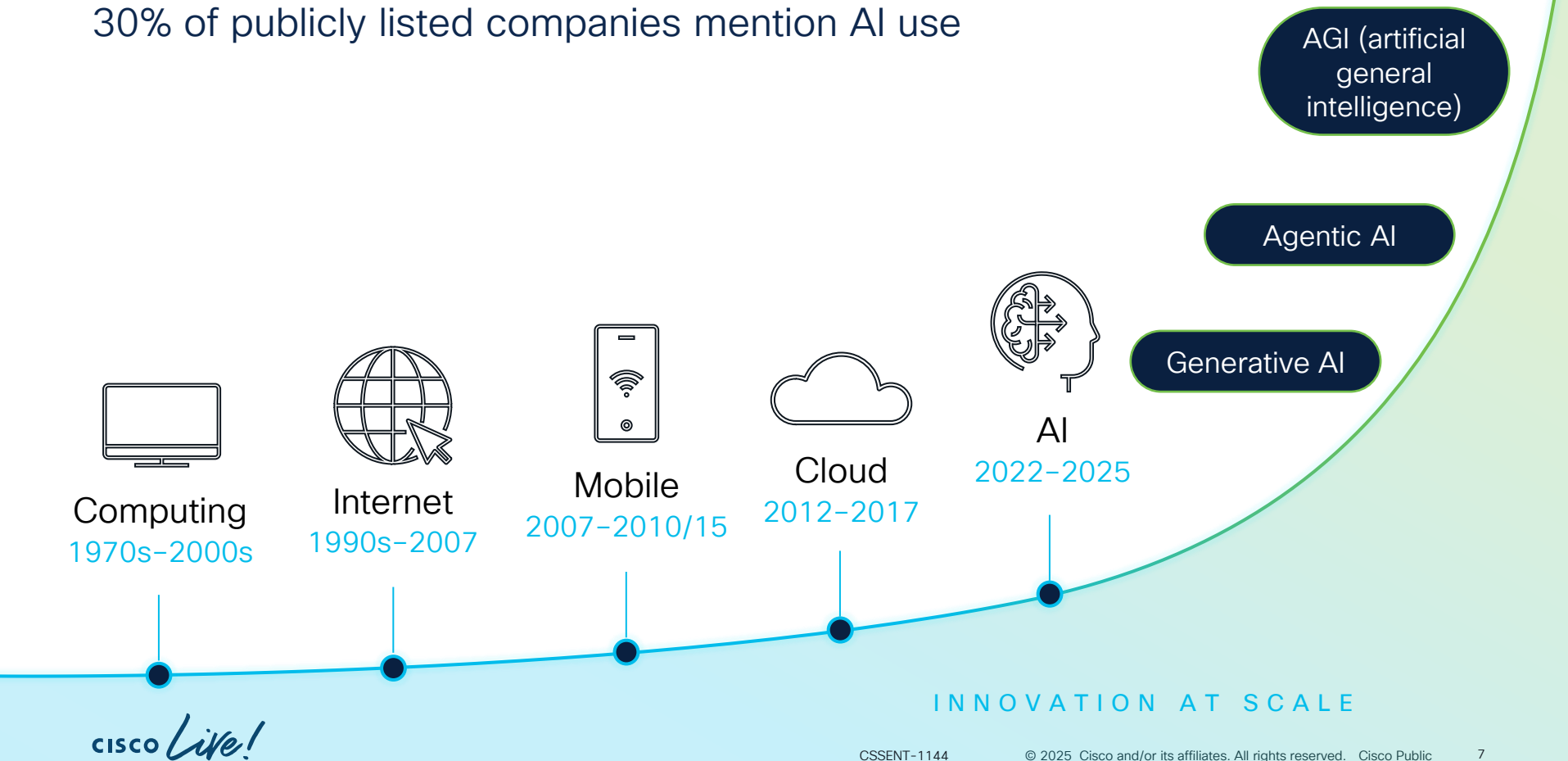
Agenda

- AI, a game changer
- AI at Scania

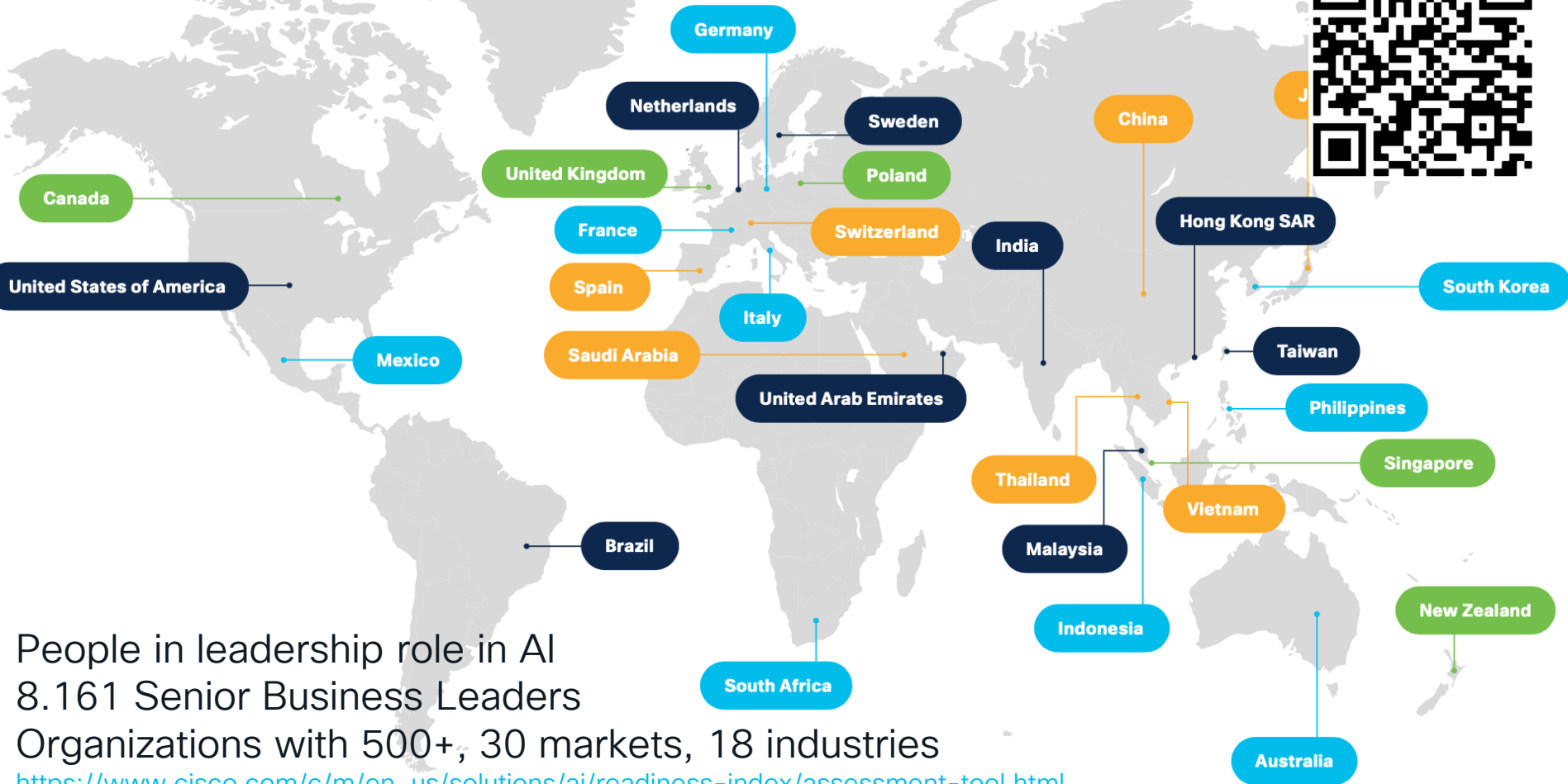
AI, a game changer

We are experiencing rapid adoption of AI

30% of publicly listed companies mention AI use



AI readiness assessment



What does it take to be AI ready?



Strategy

How clearly defined is an organization's AI strategy?



Infrastructure

How ready is an organization's network to process AI workloads securely?



Data

How does the quality, reliability, and usability of data affect an organization's AI deployments?



Governance

How prepared are organizations for policy compliance and implementation?



Culture

How ready is an organization for the cultural changes brought on by AI?



Talent

How are organizations able to adapt AI talent to their AI goals?

Top 5 outcomes out of AI/AI-powered solutions

Efficiency / Productivity – Improve efficiency of systems, processes and operations, and profitability



63%

Innovation – Improve ability to innovate and remain competitive



51%

Customer experience – Create a better experience for external users (e.g. customers and partners and improve competitiveness)



47%

Grow revenue and market share in existing lines of business



42%

Risk management – Improve risk management and decrease business risk



35%

AI is not a wish
but a reality



AI at Scania

CISCO *Live!*



SCANIA

DRIVING THE SHIFT

- TOWARDS A SUSTAINABLE TRANSPORT SYSTEM

Scania Mission

Scania is a truly global player. With over 130-year track record of innovation, as we continue on “our ambitious journey to drive the shift towards sustainable transport” with 58,000 employees in more than 100 countries.





cisco *Live!*

source: <https://youtu.be/40Wd4-4P74E>

Scania IT and OT challenges



- Scalability/Observability (Trends & Insights)
- Evidence (Baselines)
- Faster Tshoot (Issues & Events)
- Data Driven (AI Analytics)
- Improve user experiences
- Security (rogue devices)
- Simplify operations

Cisco AI Network Analytics

Making IT/OT Teams Smarter

Key Customer Benefits

Highly
personalized

See problems
sooner

Solve
problems
faster

Cut out
unwanted noise

Predictive

Comparative

Issues

Insight

Baseline

Catalyst Center

Anomalies
and Insights

Anonymized
Data

Cisco AI cloud

Decades of Cisco Networking Expertise

Infrastructure

Physical | Virtual | Programmable | App Hosting

Predictive Analytics

Anticipate and Prevent Failures

Comparative Analytics

Compare KPIs Internally and to Peers

Trends and Insights

Proactive exploration plus
system generated insights

Personalized Anomaly Detection

Separate normal from
abnormal and show RCA

Dynamic Baselining

Define Normal for a Given Network

Trends and Insights

Trends and Insights

Proactive exploration plus
system generated insights

Looking at P26 Office Wifi
deviations across the time
looking at baselining: Building
Occupancy and Interference

Welcome,

[Explore](#)

① There is a new Cisco DNA Center system update available. [Learn more](#)

⚠️ Some of your license compliance requirements have not been met. [Learn more](#).

Assurance Summary

Health 📉

Healthy as of Jan 2, 2025 10:08 AM

78%

Network Devices

81%

Wireless Clients

98%

Wired Clients

[View Details](#)

Critical Issues

Last 24 Hours

2

P1

1

P2

[View Details](#)

Trends and Insights

Last 30 Days

0

AP Performance
Advisories

35

Trend Deviations

[View Details](#)

Network Snapshot

Sites

As of Jan 2, 2025 10:12 AM

144

DNS Servers : 1
NTP Servers : 0[Add Sites](#)

Network Devices

As of Jan 2, 2025 10:12 AM

732

Unclaimed : 0
Unprovisioned : 568
Unreachable : 27[Find New Devices](#)

Application QoS Policies

As of Jan 2, 2025 10:12 AM

0

Successful Deploys : 0
Errored Deploys : 0
Stale Policies : 0[Add New Policy](#)

Network Profiles

As of Jan 2, 2025 10:12 AM

1

Switching : 1
Routing : 0
Wireless : 0
Telemetry Appliance : 0
Assurance : 0[Manage Profiles](#)

Images

As of Jan 2, 2025 10:12 AM

12

Untagged Images : 9
Unverified Images : 0[Import Images/SMUs](#)

Software Image Updates

As of Jan 2, 2025 10:12 AM

78

Success : 36
In Progress : 0
Failure : 42[Update Devices](#)

Network Heatmap

Predictive Analytics
Anticipate and Prevent Failures

Looking at All buildings and
P16 (Factory shop floor):
Number of wifi users, wifi
Interference,
and Traffic per AP

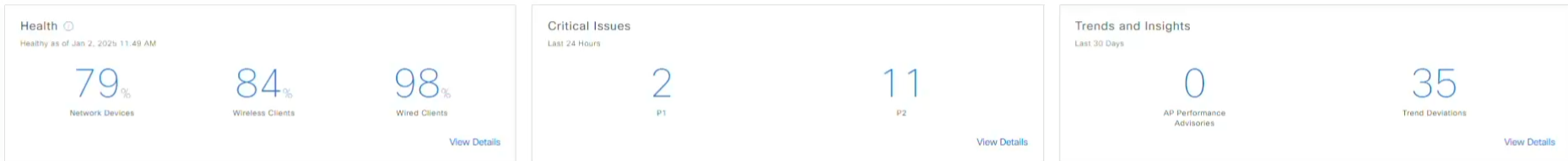
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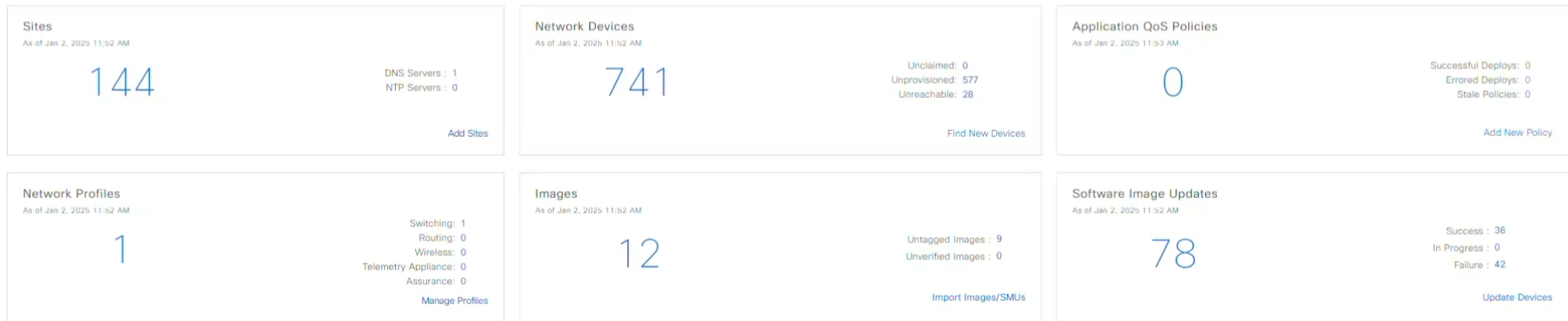
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Assurance Summary



Network Snapshot



Network comparison

Comparative Analytics

Compare KPIs Internally and to Peers

Compare reference buildings
(P16) to other buildings
(P27): wifi radio throughput,
wifi interference, and wifi
SNR

KPI

Radio Throughput



SHOW

All Days

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

SUMMARY

Radio Throughput in your network was very different to your peers in the past couple of months.

🗲 Is this comparison helpful? 🗲 🗲

2.4

GHz

Network: Greater than 271Kbps for **0.01%** of the period shown**Peers:** Greater than 271Kbps for **0.61%** of the period shown

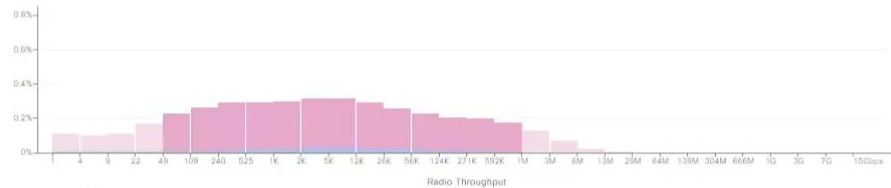
5

GHz

Network: Greater than 271Kbps for **0.03%** of the period shown**Peers:** Greater than 271Kbps for **2.49%** of the period shown

Distribution of Radio Throughput

Band: 2.4GHz

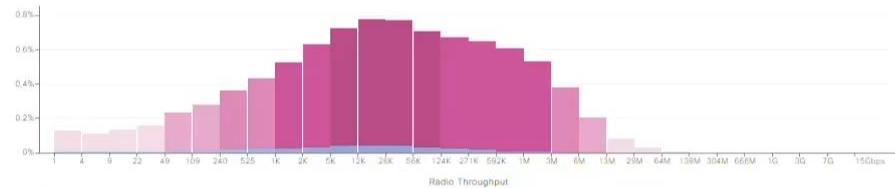


● Network ● Peers

Notes

Peers are customers with similar wireless network size.
Samples between 0 and 1bps are not shown by default.
Please note that 99.80% of your network is in this range.

Band: 5GHz



● Network ● Peers

Notes

Peers are customers with similar wireless network size.
Samples between 0 and 1bps are not shown by default.
Please note that 99.65% of your network is in this range.



Highlight peers

Baseline

Dynamic Baselining

Define Normal for a Given Network

Looking at a deep troubleshooting for a Factory shop floor (P29): connection onboarding time, tightener connectivity, rogue APs

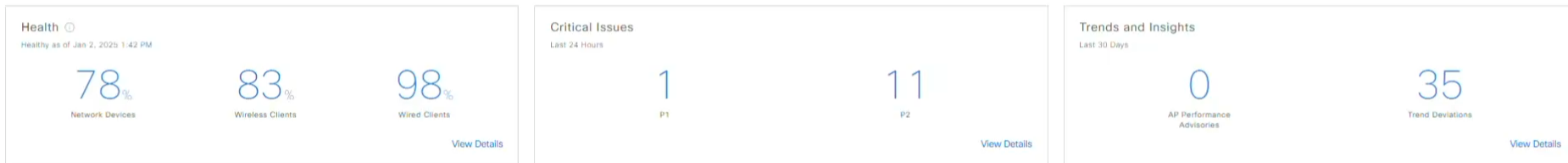
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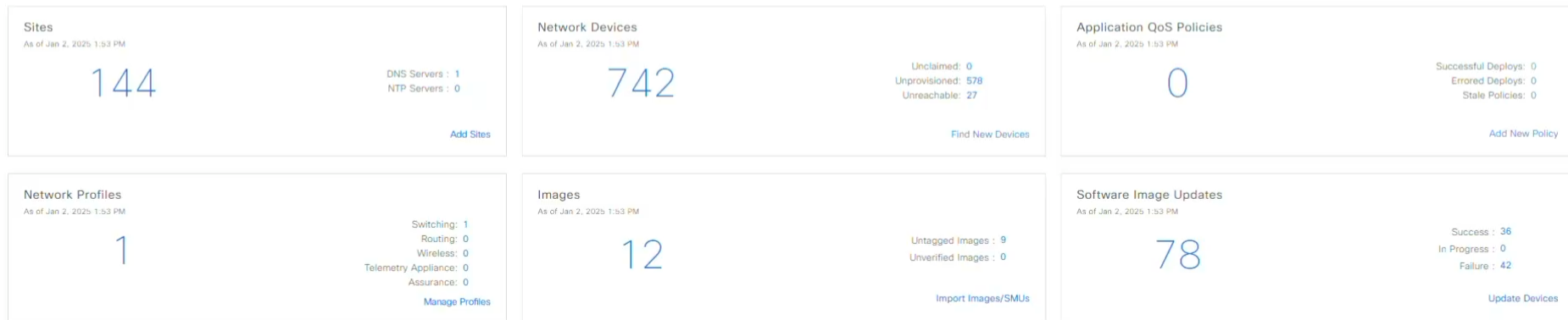
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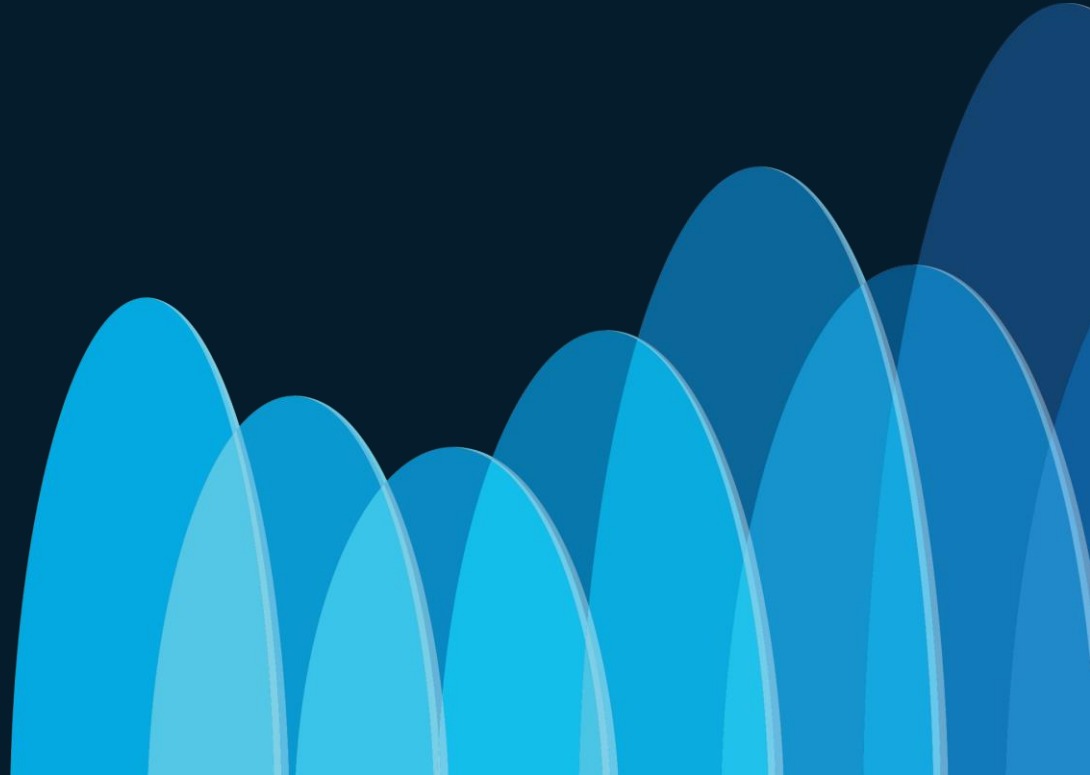
Assurance Summary



Network Snapshot



TAKE AWAYS



KPI TO TAKE DECISION



CAPACITY PLAN

Client count

Client SNR

Interference

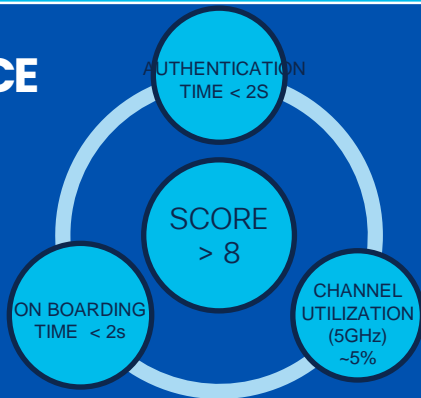


ELIMINATION OF WASTE

93

Radios with zero client

USER EXPERIENCE



**CONTRIBUTED
TO AVOID 27%
DEVIATIONS**

Webex App

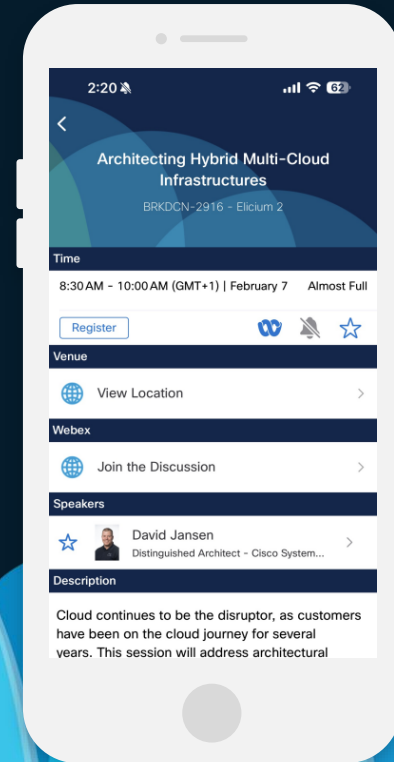
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Continue your education



- Visit the Cisco Showcase for related demos
- Book your one-on-one Meet the Engineer meeting
- Attend the interactive education with DevNet, Capture the Flag, and Walk-in Labs
- Visit the On-Demand Library for more sessions at ciscolive.com/on-demand. Sessions from this event will be available from March 3.



Thank you

CISCO *Live!*



CISCO *Live!*

GO BEYOND

The background of the slide is white. On the right side, there is a series of overlapping, teardrop-shaped elements in various shades of blue, ranging from a light sky blue to a deep navy blue. These shapes are layered to create a sense of depth and movement, extending from the top right towards the center of the frame.