CISCO Connect

Powering and Securing the Agentic Enterprise

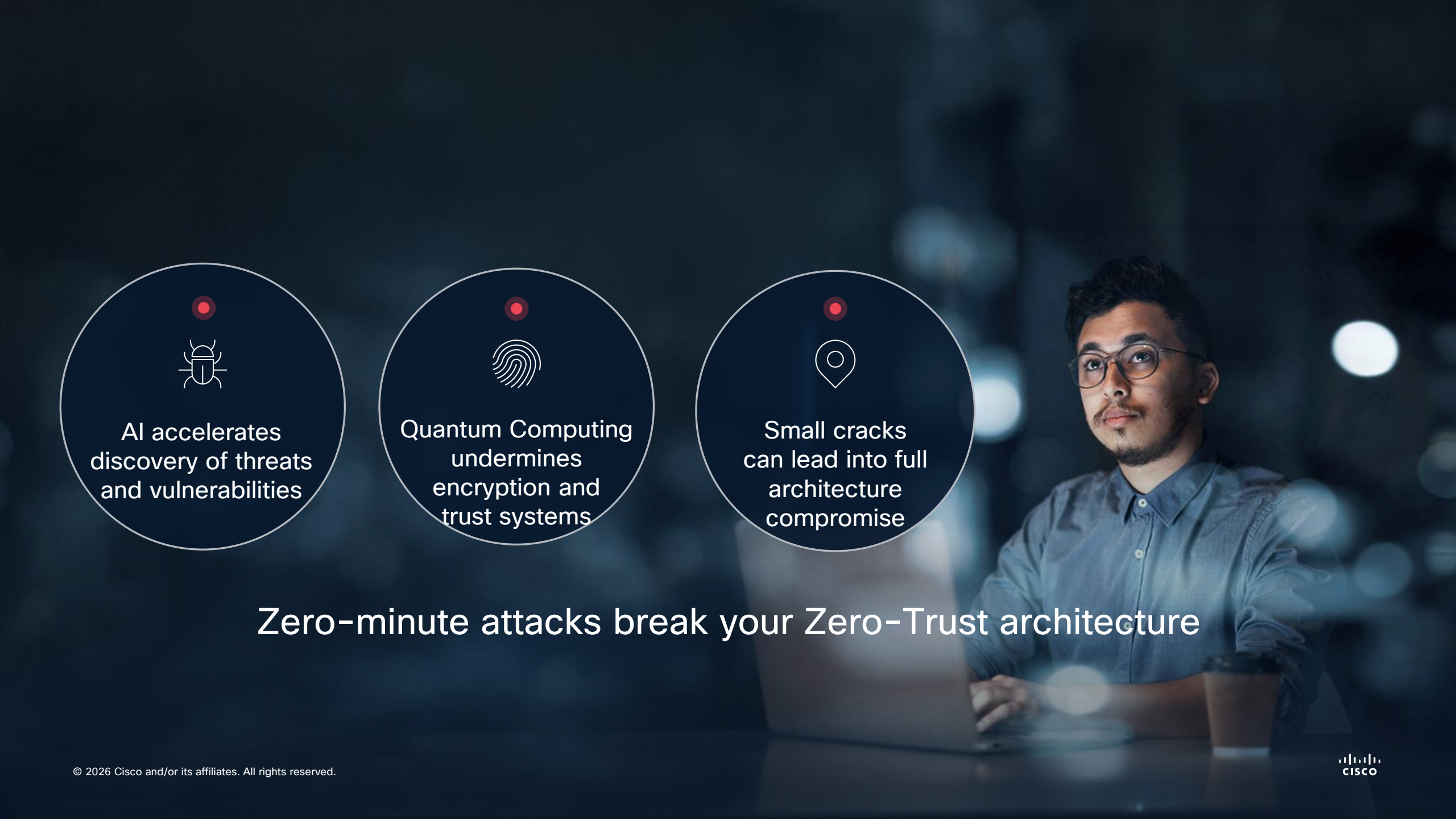
Timothy Snow

Senior Cybersecurity Advisor, Cisco APJC

AI accelerates discovery of threats and vulnerabilities

Quantum Computing undermines encryption and trust systems

Small cracks can lead into full architecture compromise



Zero-minute attacks break your Zero-Trust architecture

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Risks are Evolving

Aging infrastructure and expanding attack surface

AI is compressing attack window

Detection and Response is important, but its not enough

Risks are Evolving

Scale

1000s

of critical vulns identified in weeks, not years

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Shrinking window

Hours

from patch release to adversarial reverse engineering

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Hours

from patch release to adversarial reverse engineering

Chained exploits

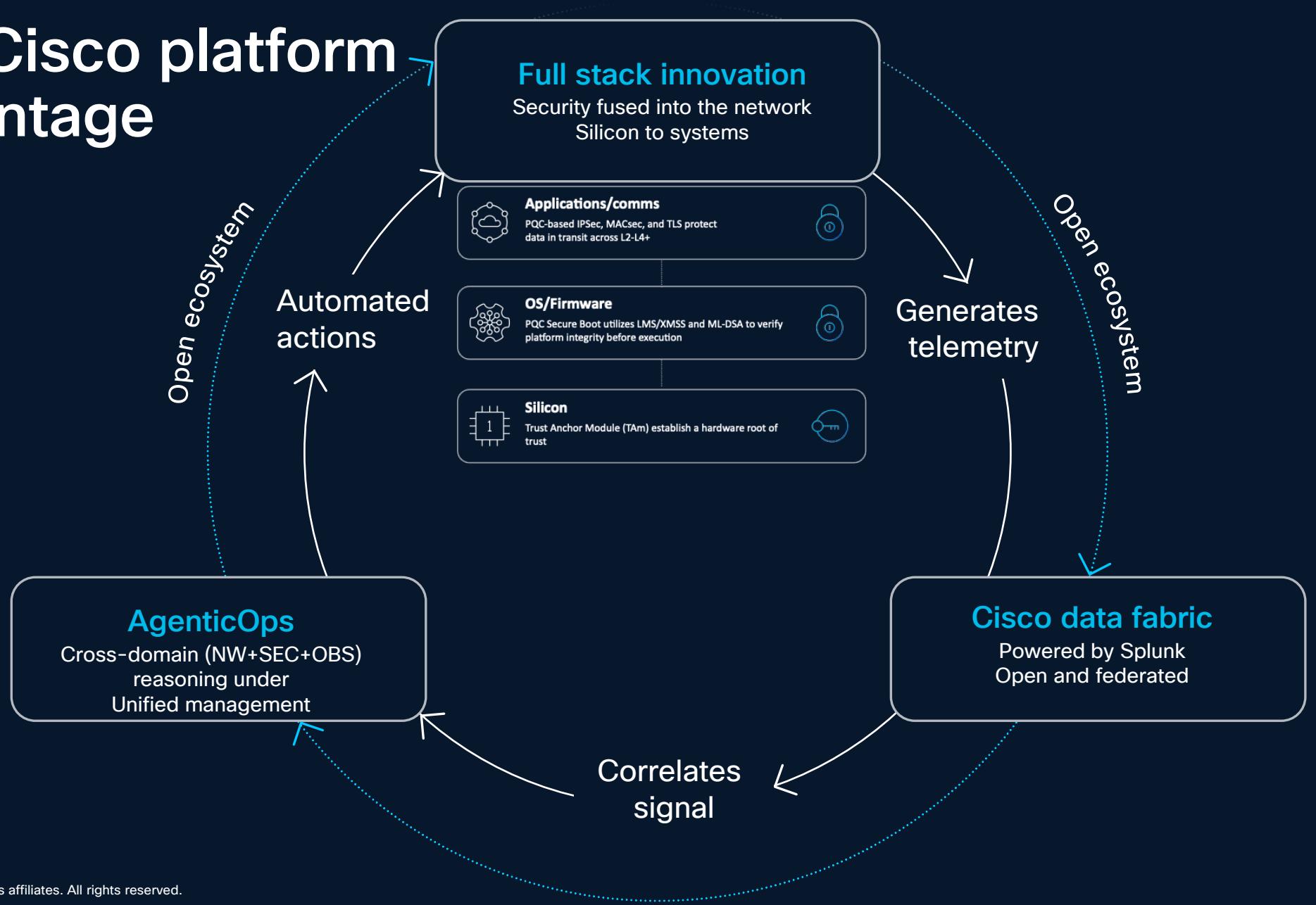
3→1

medium CVEs chained into one critical breach path
Creating pivot paths

In the era of threats from ever evolving frontier models,

Security must be fused into the network.

The Cisco platform advantage



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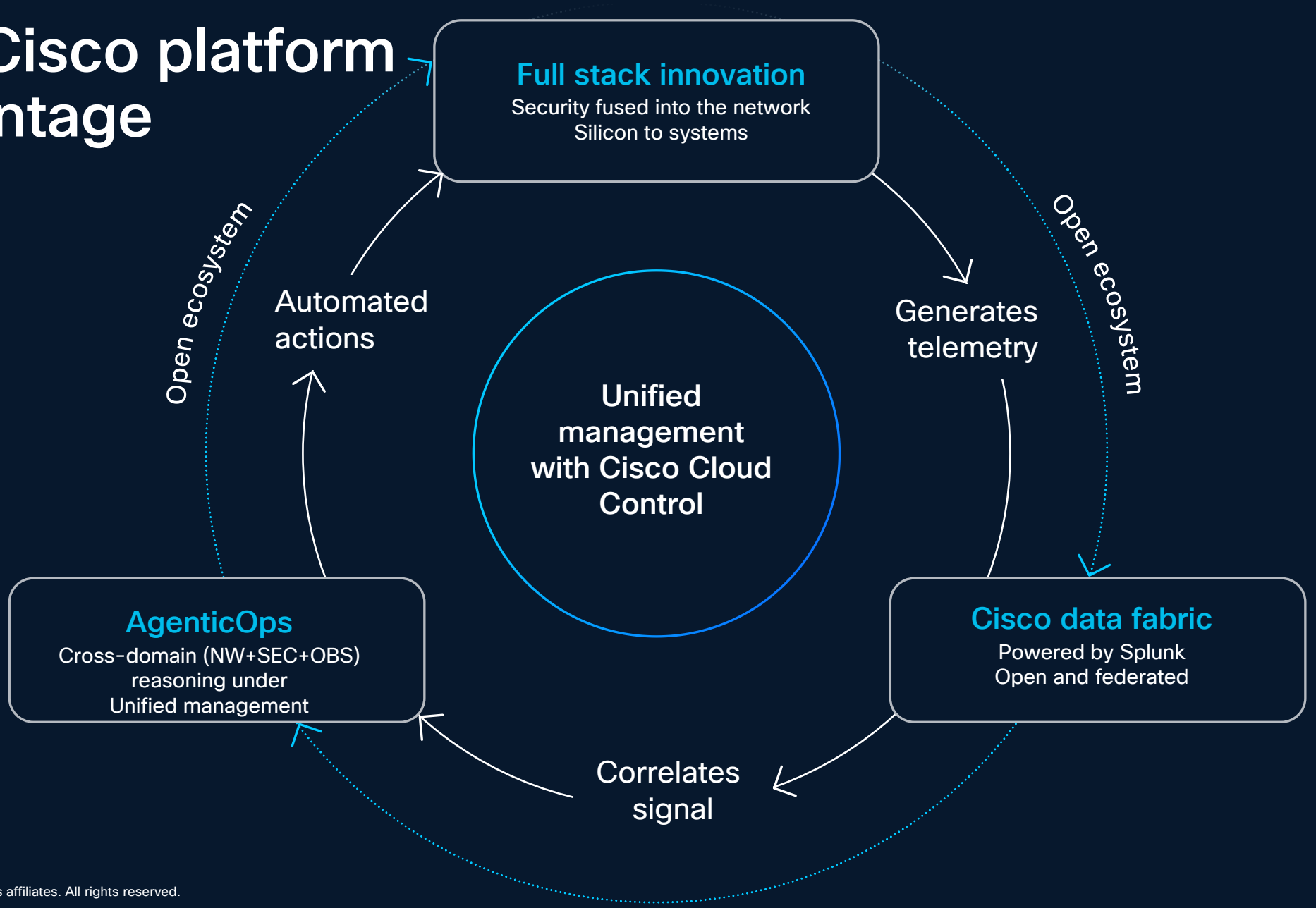

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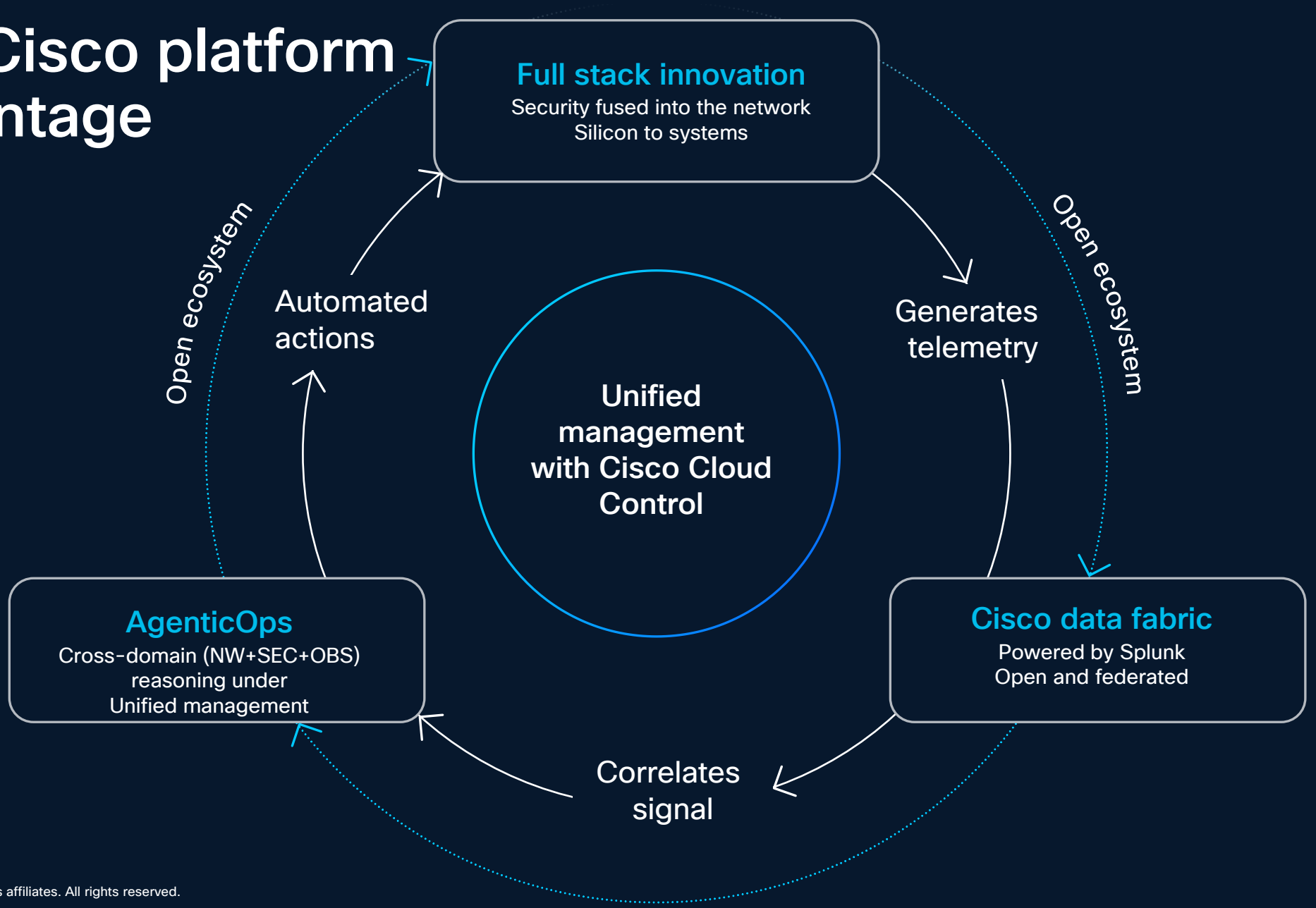


The Cisco platform advantage

Full stack innovation
Security fused into the network
Silicon to systems

Automated

Generates

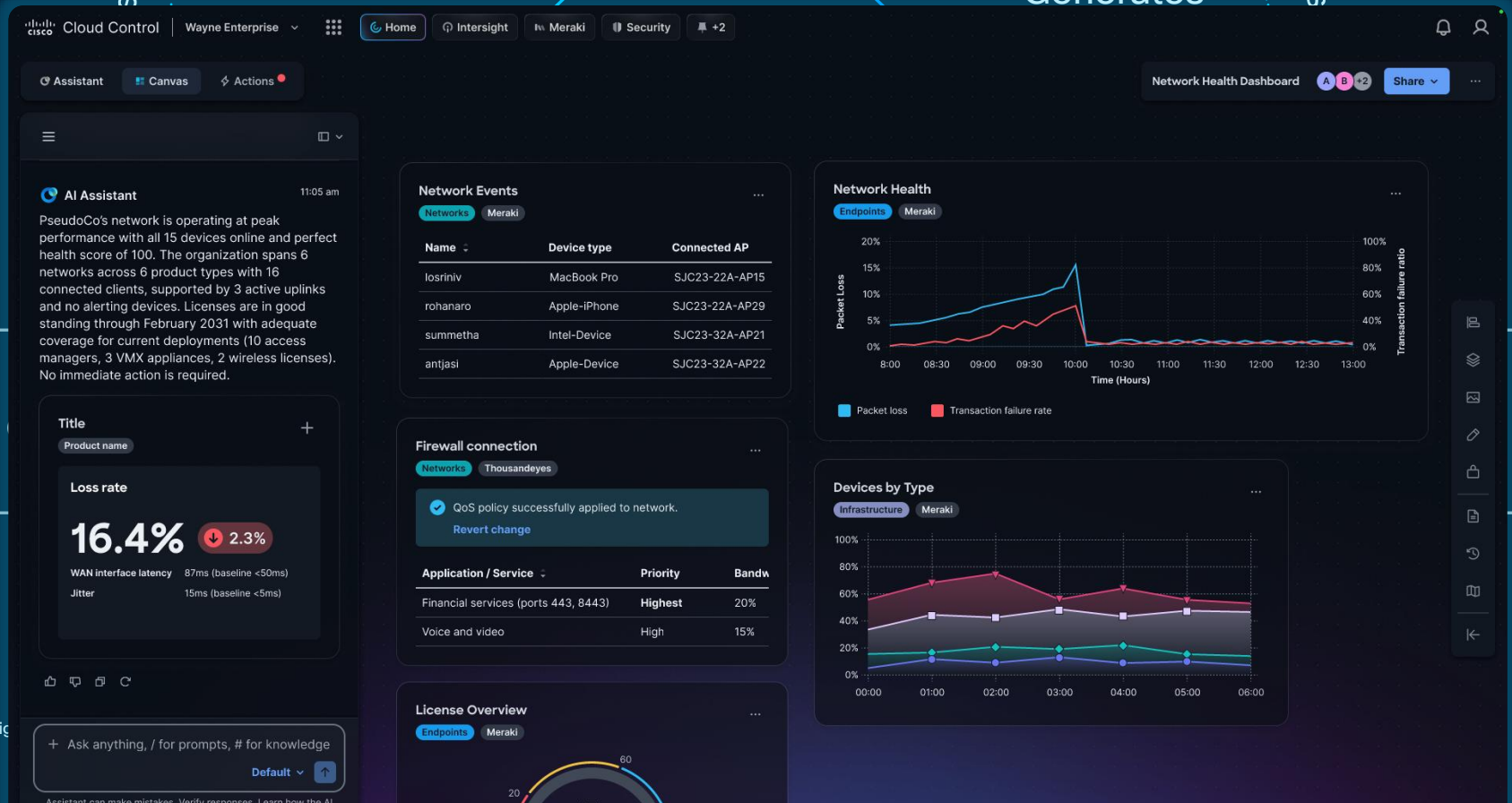
Open ecosys

ecosystem

Applications/comms
PQC-based IPSec, MACsec, and TLS protect data in transit across L2-L4+

OS/Firmware
PQC Secure Boot utilizes LMS/XMSS and ML-DSA to verify platform integrity before execution

Silicon
Trust Anchor Module (TAm) establish a hardware root of trust



Security

Protect our infrastructure

Protect the world from the agents

Detect and respond at machine speed

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Frontier AI models are creating an entirely new level of risk for every organization

> It lowers the threshold for attackers, empowering less-skilled actors to launch complex, high-impact campaigns.
>
> **Anthony Grieco**
> SVP and Chief Security & Trust Officer
> Cisco

- More sophisticated attackers or rather unskilled now upskilled!
- More personalized attacks
- More outliers to attack

Source: Cisco Blog, “Rising to the Era of AI-Powered Cyber Defense, ” Anthony Grieco, April 7, 2026

Fusing security into the network

NEW

Vulnerability shielding

Live Protect* shields infrastructure vulnerabilities with compensating controls to stop exploits before you patch

Exploit containment

Hybrid Mesh Firewall brings together identity services, firewalls, smart switches, and Hypershield agents to stop lateral movement

* Available now in N9000 Switches; support for other devices & services coming soon

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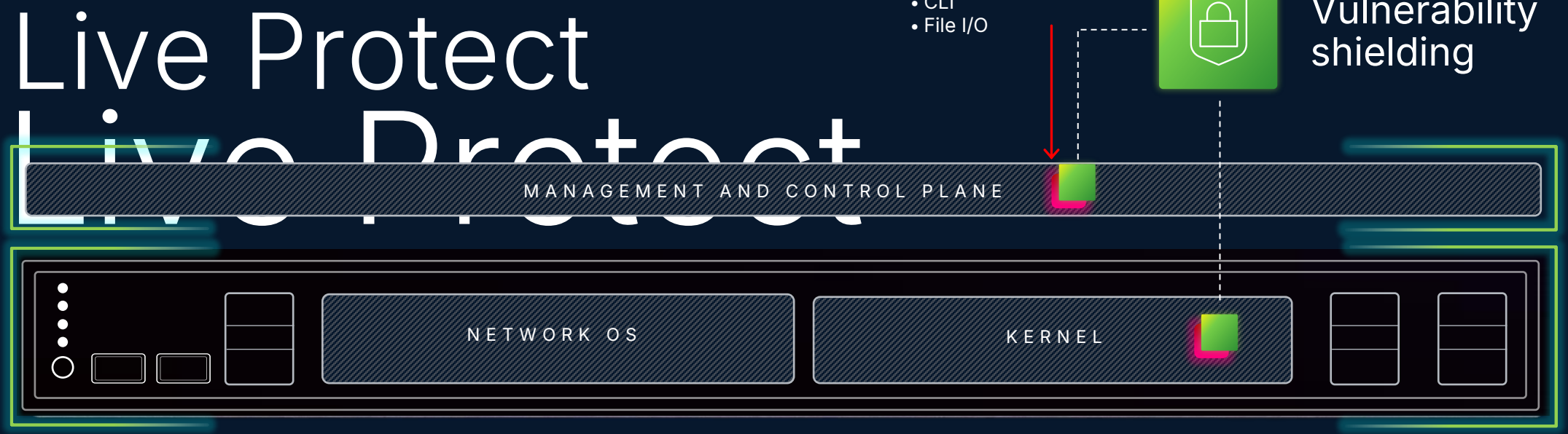
Live Protect



EXTENDING ACROSS CISCO NETWORKING AND SECURITY

Apply policy to live system

No PSIRT patching or upgrade

No downtime or switch reboot

Continuous re-validation

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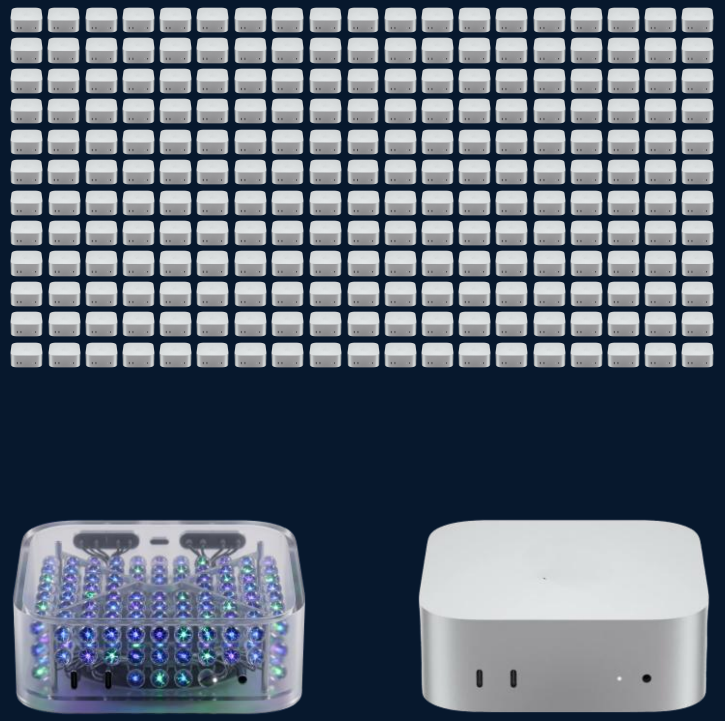
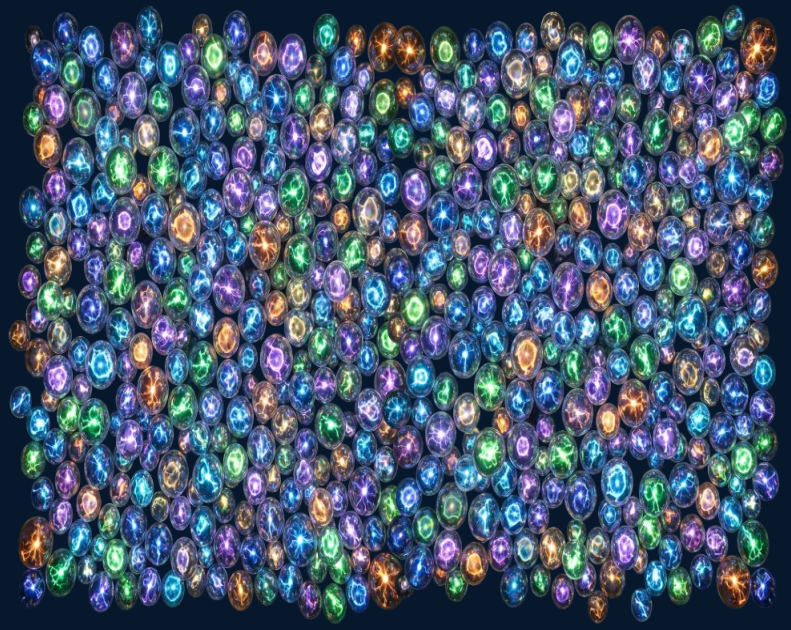
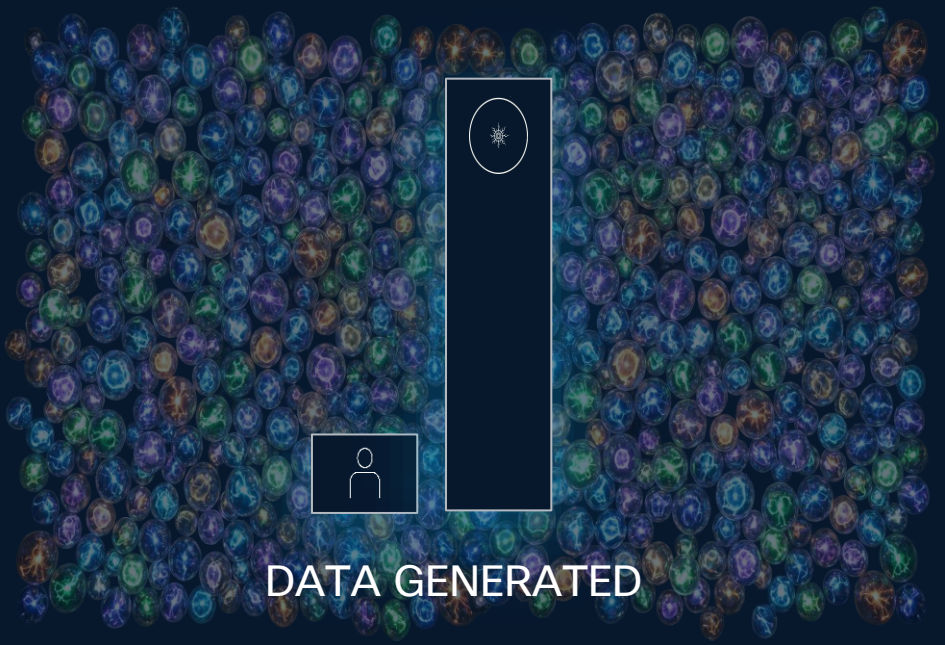
The Pivotal Shift with Agentic Workforce



The demand extends beyond the cloud



Trillions of agents



Every agent is generating 450% more traffic than a human

AI Agents Need Access to Your Systems

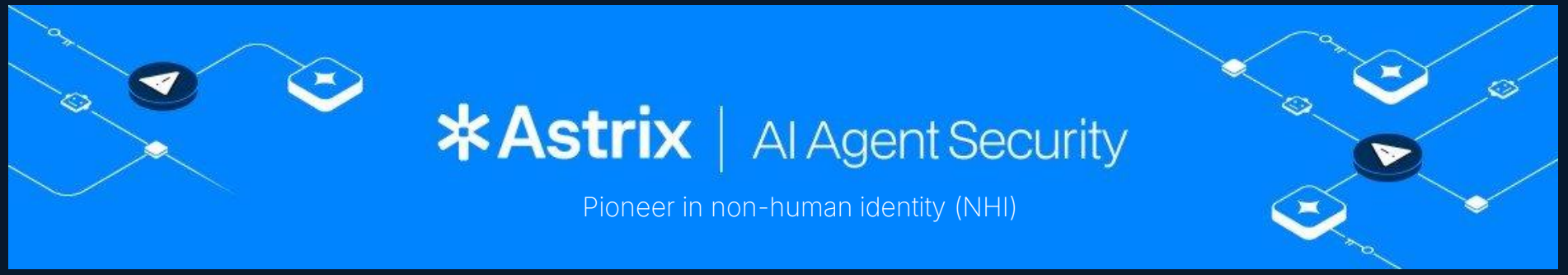
Zero Trust must evolve for the agentic workforce

Humans

Prove identity,
Trust the user,
Access Control

Agents

Discover the Agent,
Verify behavior,
Watch the agent



KNOW EVERY AGENT | AUTHORIZE EVERY ACTION | ADAPT TO RISK IN REAL TIME

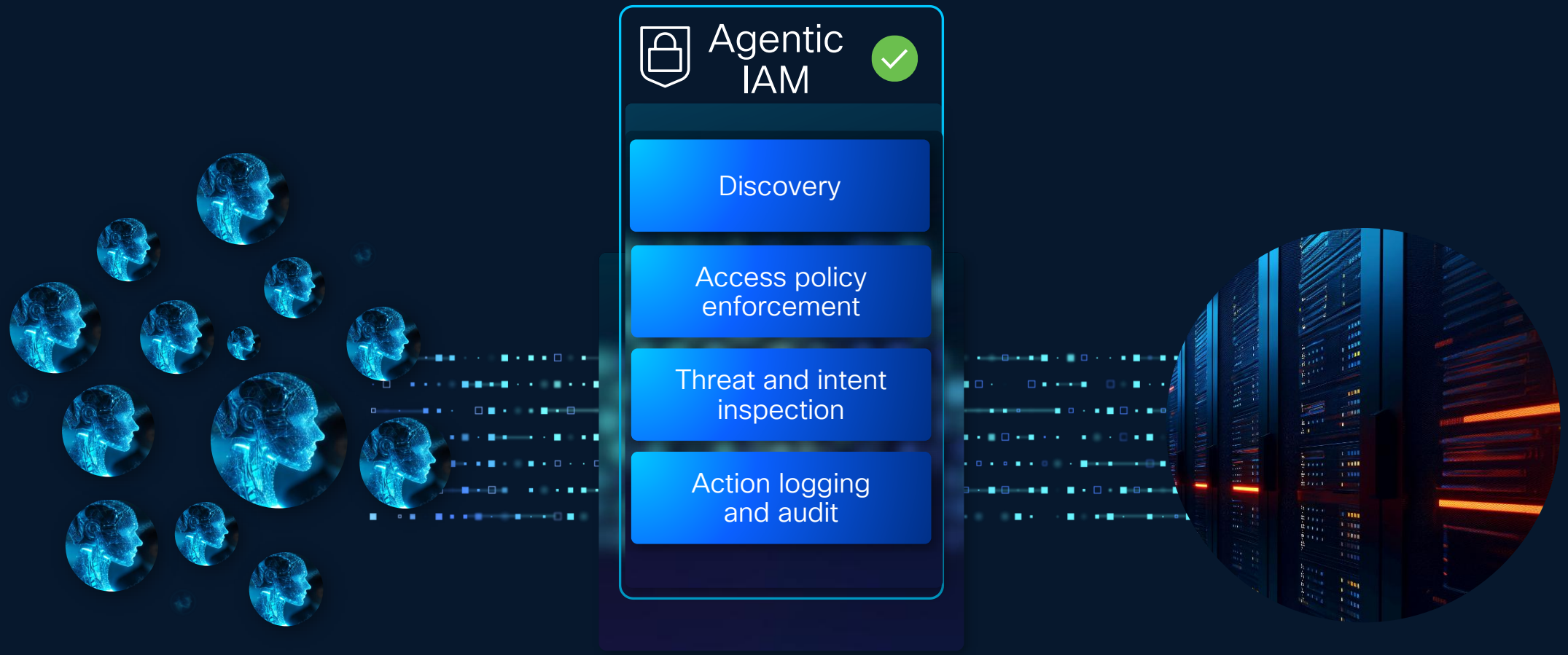
Visibility, identity, and ownership for every AI agent interacting with your environment

Agentic IAM by Duo

- Agent & Tool Discovery
- Agent Directory
- Agent Access Policy
- Human Accountability
- Lifecycle Management

KNOW EVERY AGENT | AUTHORIZE EVERY ACTION | ADAPT TO RISK IN REAL TIME

Authenticate, Authorize and Enforce Policy- where agents access enterprise data & tools.

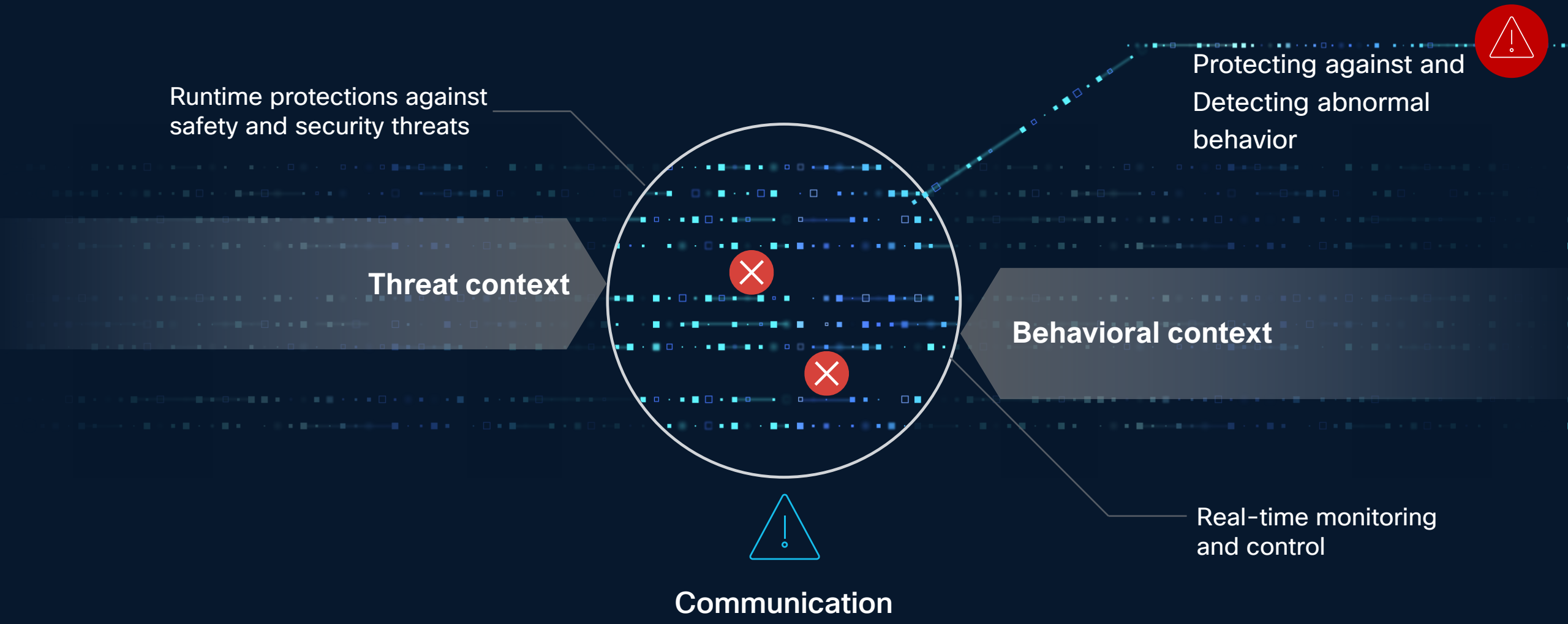


Agentic Workforce

Tools, resources and data

KNOW EVERY AGENT | AUTHORIZE EVERY ACTION | ADAPT TO RISK IN REAL TIME

Use intent, threat, and behavioral context to adjust protection decisions.



A three-step framework for developing secure AI applications

Discovery

Uncover AI assets including models, agents, and datasets

Detection

Test for AI risk, vulnerabilities, and susceptibility to attack

Protection

Define guardrails that secure data and defend against runtime threats

Unified management with Cisco Security Cloud Control

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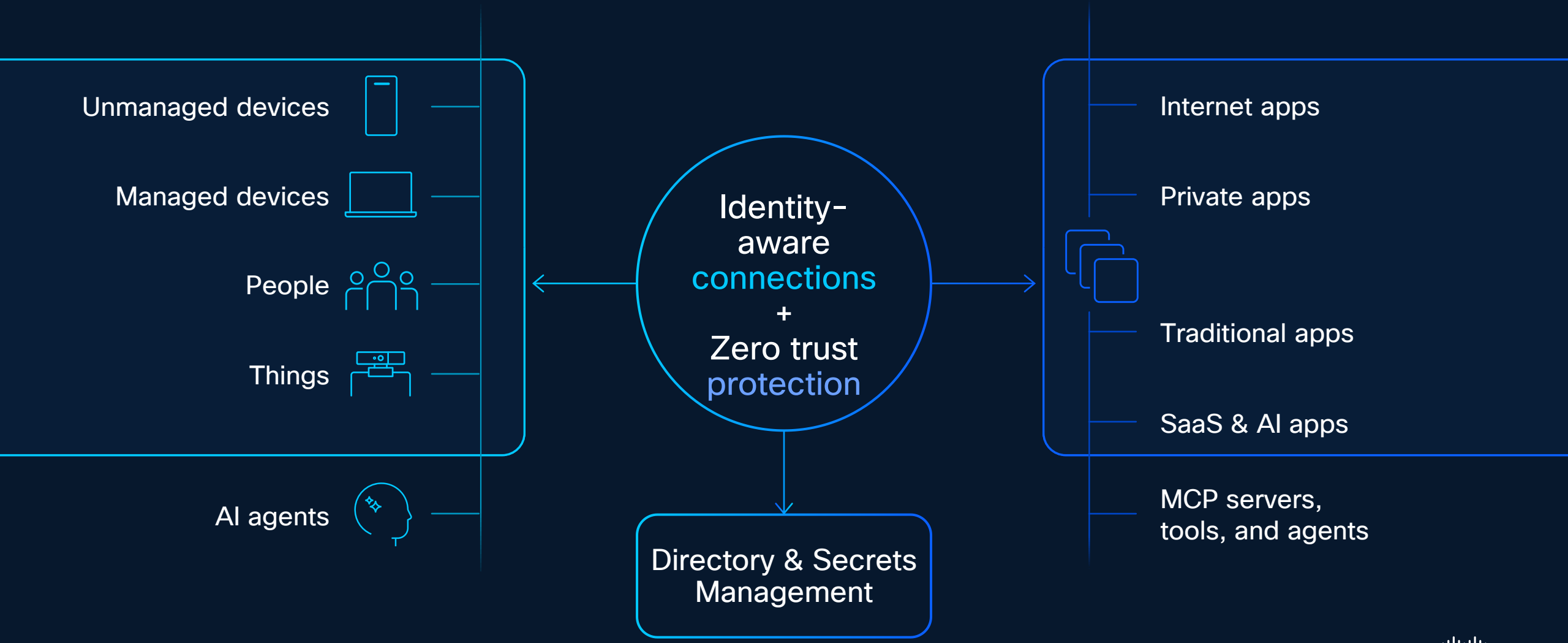
Extending Cisco's Zero Trust Access to secure Agentic AI



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Cisco Data Fabric powered by the Splunk Platform

Data

Manage data at petabyte scale

Land all data economically

Tier data by use case

Context

Catalog your enterprise

Correlate relationships

Surface insights

Action

Deploy agentic operations

Connect your agents

Build proprietary AI

Telemetry

Network

Telemetry

App and Infra

Telemetry

Security

Telemetry

3rd Party

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Investigation Canvas

ASK

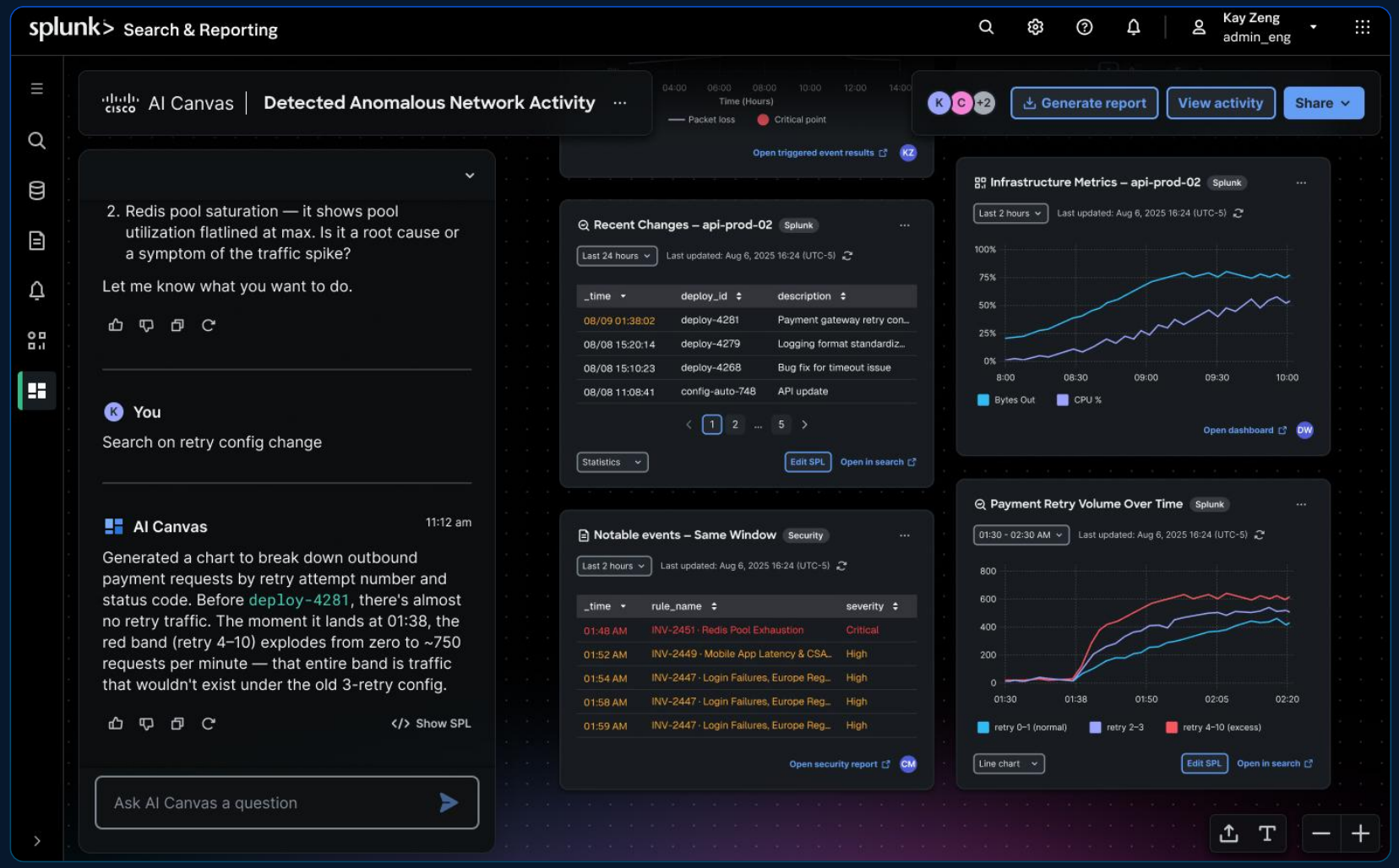
Type what you want to know

SEE

Investigation Canvas builds the visualization for you

ACT

Launch SOAR-powered actions right inside the workspace



Enable analysts to move from question → insight → response in a single generative workspace.

GALILEO ACQUISITION

Supercharging Splunk Agent Observability

- Evaluate behavior
- Observe performance
- Enforce guardrails

Cisco’s approach to AI-era cyber defense

Industry collaboration & leadership

Working with frontier AI labs like Anthropic and OpenAI to proactively identify, triage, and remediate vulnerabilities at AI speed

Existing code remediation

Using early access to these frontier AI models to identify and remediate issues in our existing codebase

Development integration

Enhancing our software development lifecycle to utilize these models to identify potential issues in newly developed code

Resilient infrastructure

Supporting our customers in proactively hardening their network infrastructure

Delivering customer innovation

Providing capabilities to help our customers leverage AI to prevent, detect, and respond to threats at machine speed and scale.

Expertise & partnership

Partnering with our customers on exposure reduction and continuous defense, bringing trusted expertise when it matters most.

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Helping you stay ahead of AI-era risks

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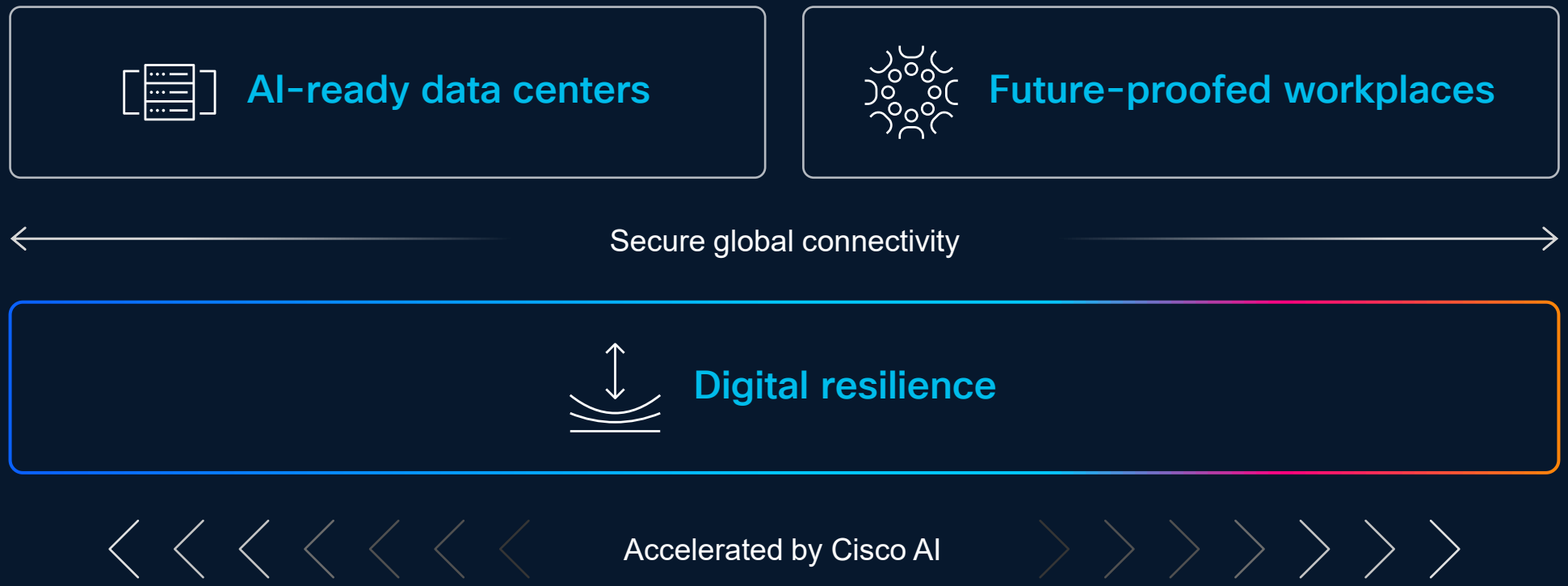
Cisco powers how people and technology work together across the physical and digital worlds



Thank you